DE LA FONTAINE

STEEL DOORS AND FRAMES

Technical Data Book

Revised September 2025

DE LA FONTAINE

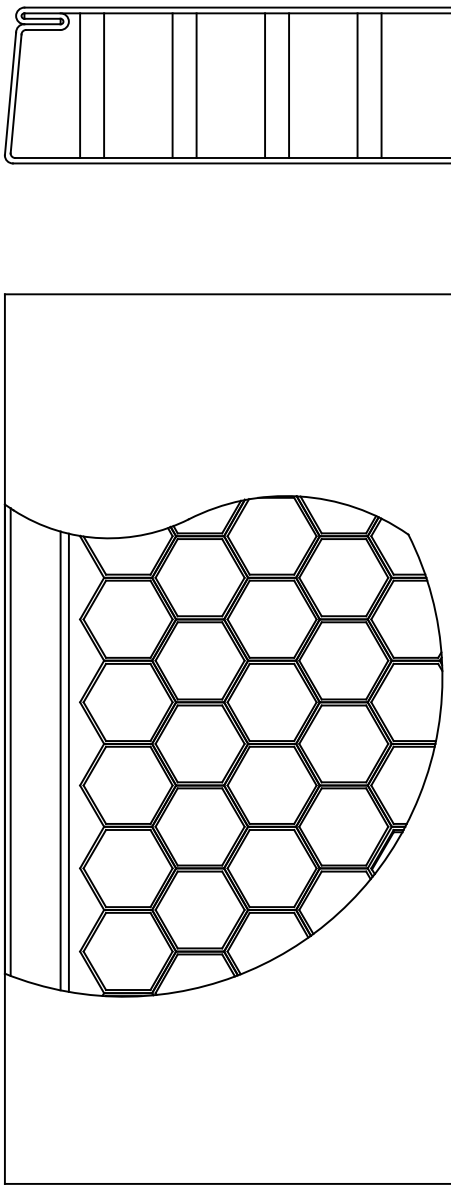
DOOR SERIES

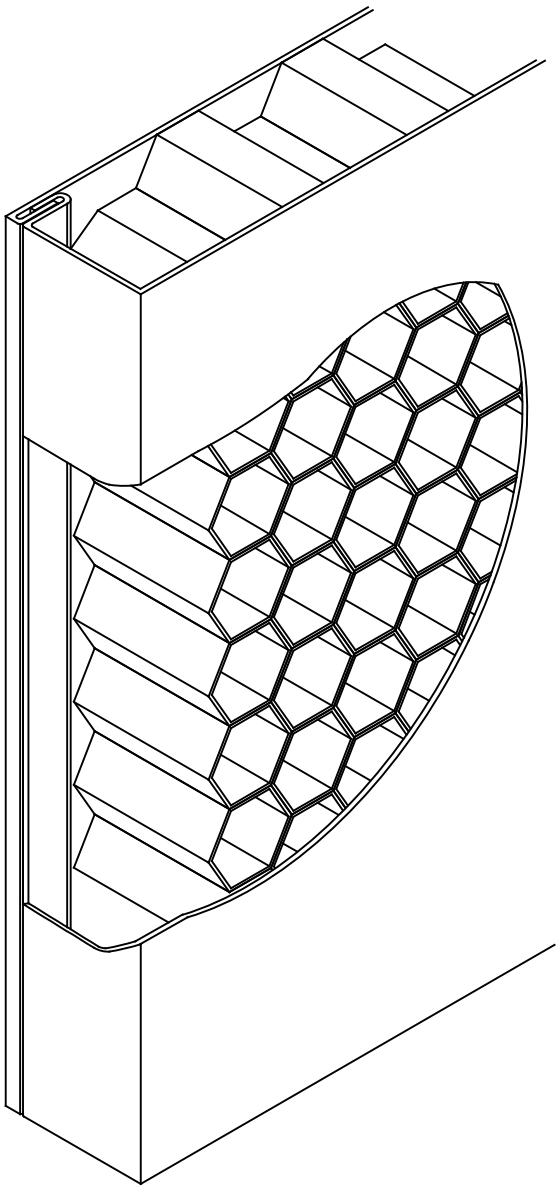
DE LA FONTAINE

DOOR SERIES PAGE

Honeycomb core

Continuous bonding of core to steel faces.





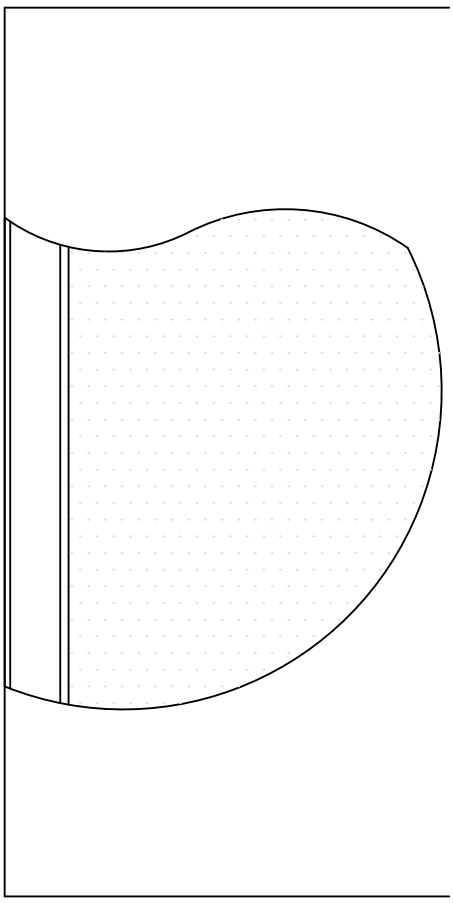
HC

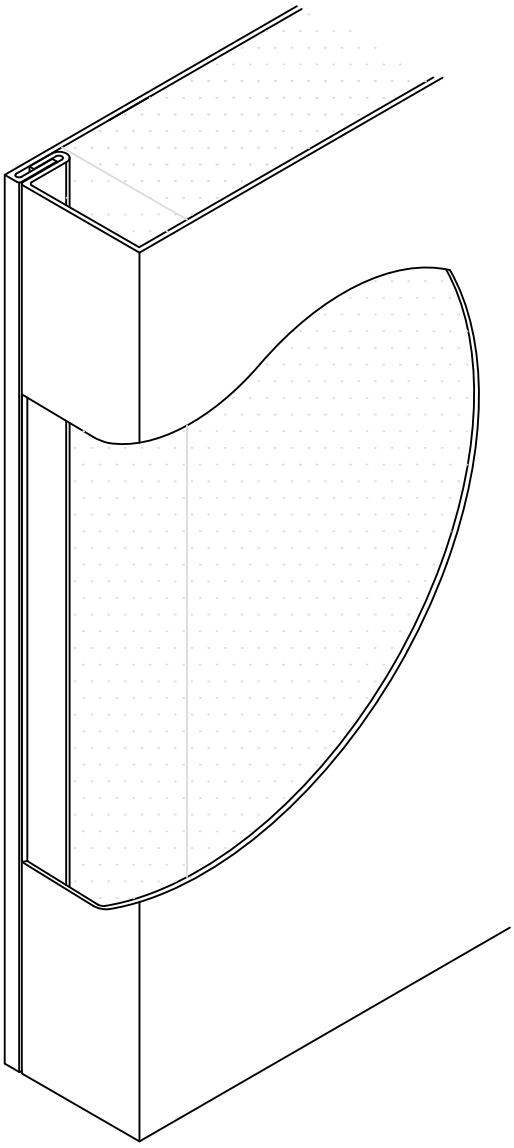
Added stiffener, full height, in middle of door when over 3'0" wide.

Polystyrene core

Continuous bonding of core to steel faces.

Thermal Perfomance	R factor		U factor	
	ft²·°F·h/BTU	m²·K/W	BTU/ft²·°F·h	W/m²·K
per SDI-113 (ASTM C1199, C1363, E1423)*	2.50	0.44	0.40	1.84
per SDI-113 (ASTM C518)	7.03	1.24	1.14	0.80





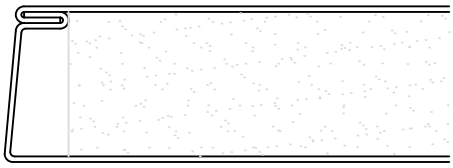
PS

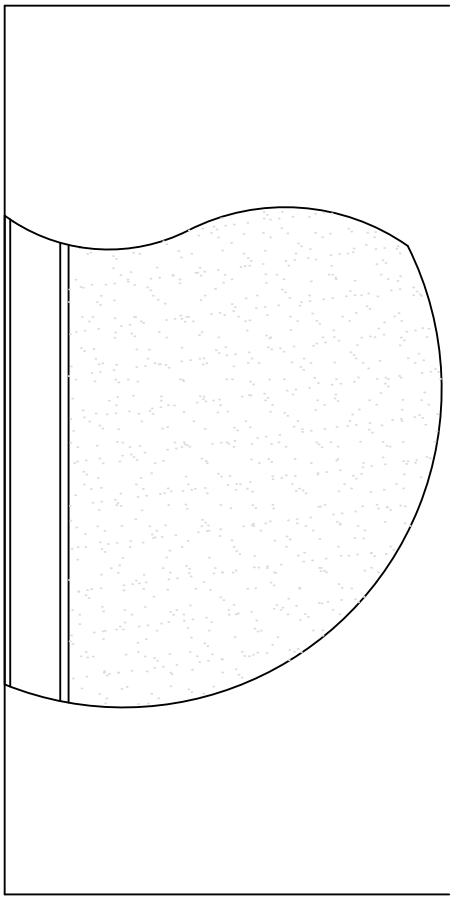
Added stiffener, full height, in middle of door when over 3'0" wide.
*When used with thermal break profile frame - see section O-17.30

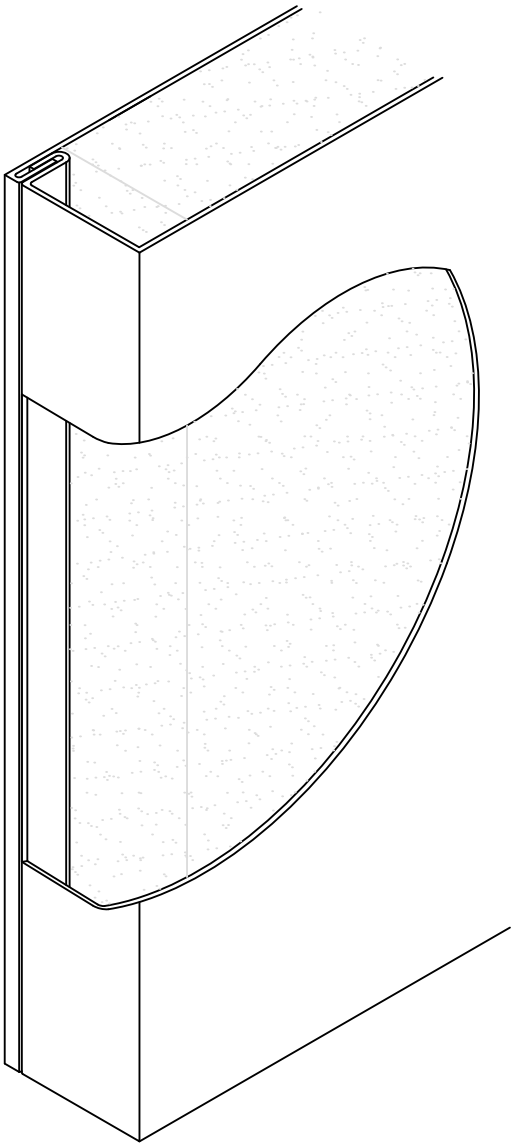
Polyurethane core

Continuous bonding of core to steel faces.

Thermal Perfomance	R factor		U factor	
	ft²·°F·h/BTU	m²·K/W	BTU/ft²·°F·h	W/m²·K
per SDI-113 (ASTM C1199, C1363, E1423)*	3.13	0.54	0.32	1.84
per SDI-113 (ASTM C518)	10.20	1.80	0.098	0.557







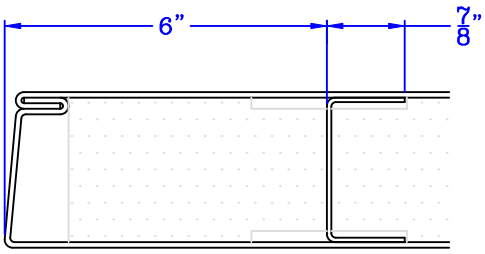
PU

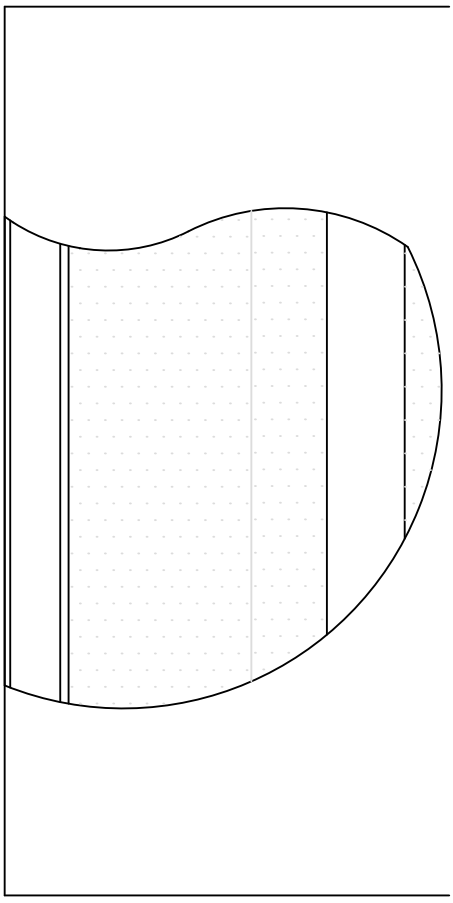
Added stiffener, full height, in middle of door when over 3'0" wide.
*When used with thermal break profile frame - see section O-17.30

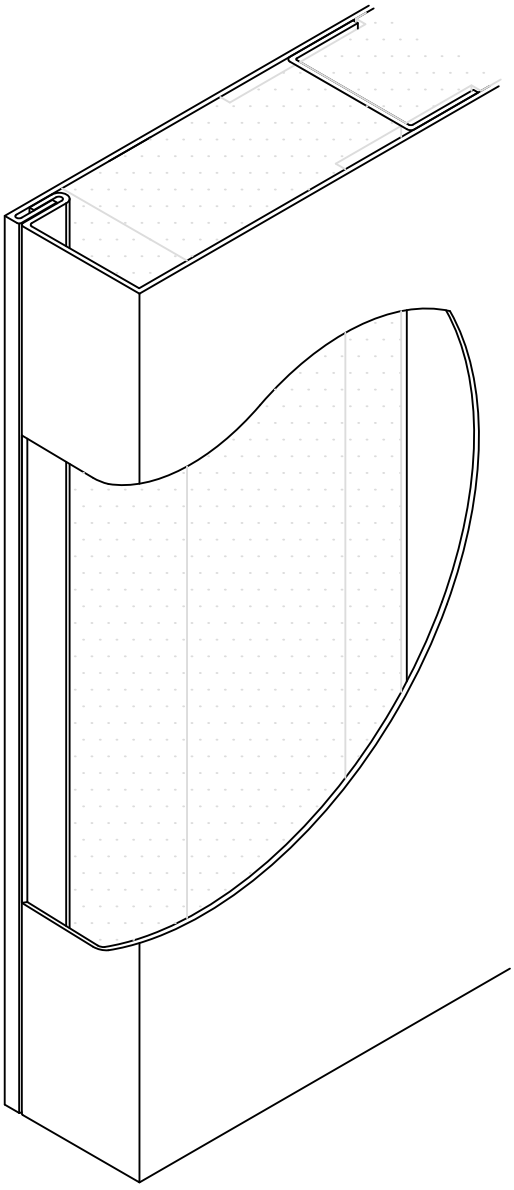
Steel stiffened with polystyrene

With vertical 18 gage steel stiffeners, 6" on center with solid polystyrene blocks.
Continuous bonding of core to steel faces.

Thermal Perfomance	R factor		U factor	
	ft²·°F·h/BTU	m²·K/W	BTU/ft²·°F·h	W/m²·K
per SDI-113 (ASTM C1199, C1363, E1423)	1.89	0.33	0.53	3.00



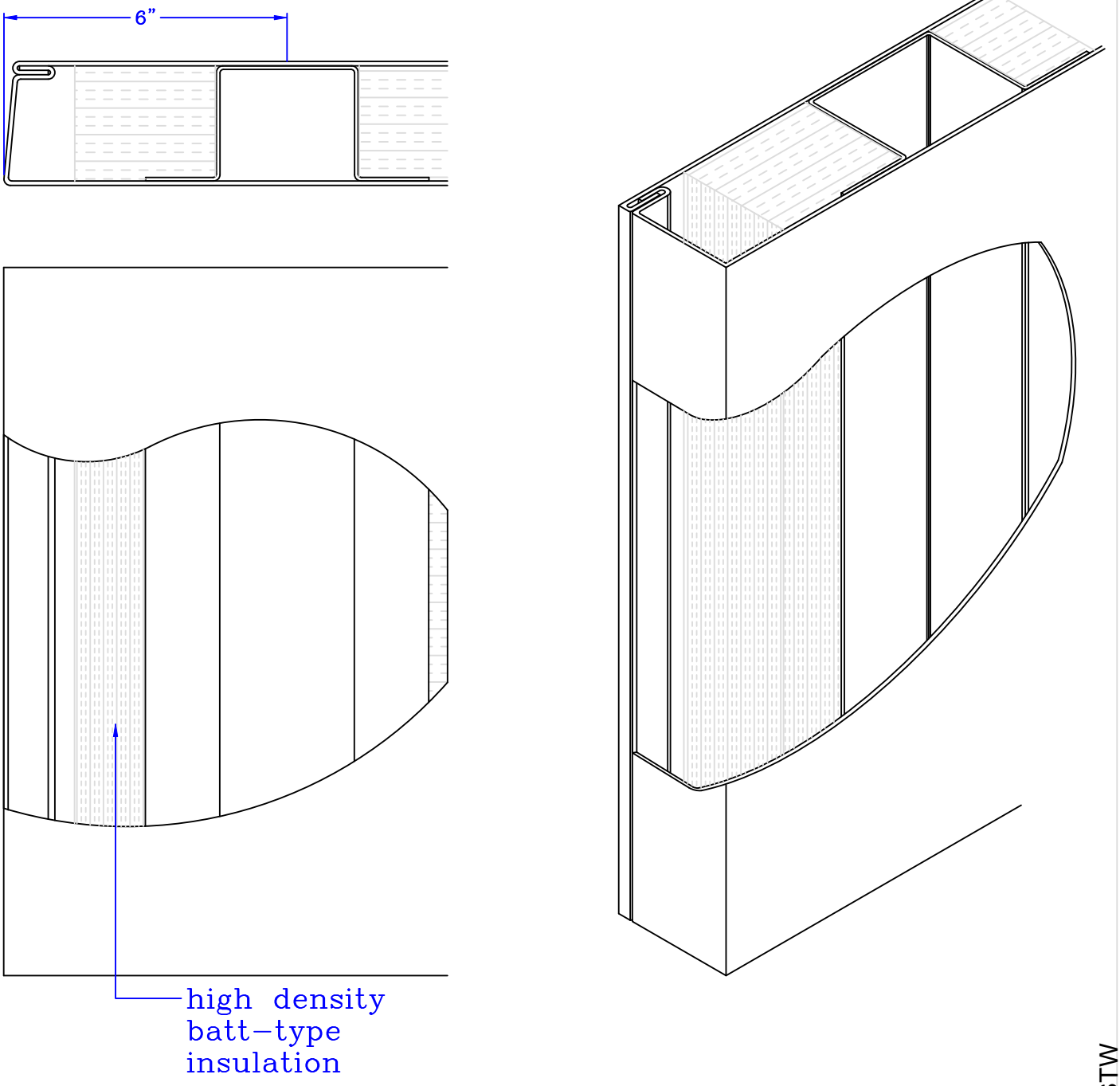




Steel stiffened with wool

With vertical 18 gage steel stiffeners, 6" on center.
Continuous bonding or welded of core to steel faces.

Thermal Perfomance	R factor		U factor	
	ft²·°F·h/BTU	m²·K/W	BTU/ft²·°F·h	W/m²·K
per SDI-113 (ASTM C1199, C1363, E1423)	1.47	0.26	0.68	3.86

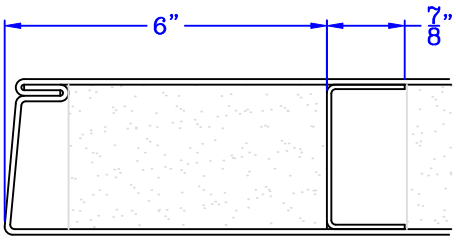


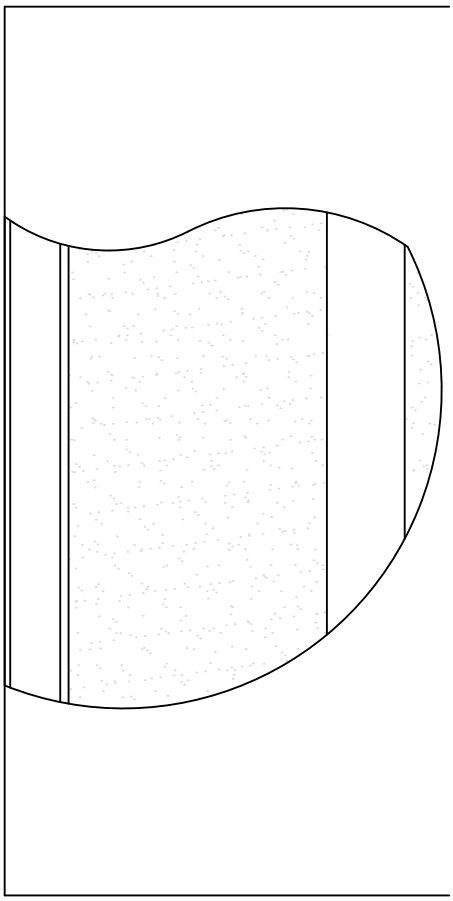
STW

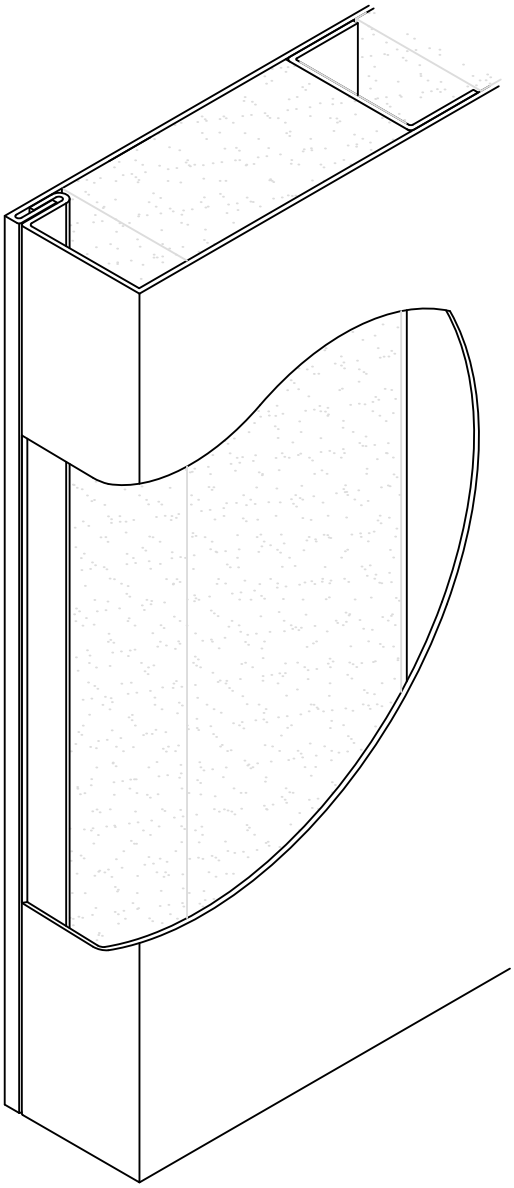
Steel stiffened with polyurethane

With vertical 18 gage steel stiffeners, 6" on center with solid polyurethane blocks.
Continuous bonding of core to steel faces.

Thermal Perfomance	R factor		U factor	
	ft²·°F·h/BTU	m²·K/W	BTU/ft²·°F·h	W/m²·K
per SDI-113 (ASTM C1199, C1363, E1423)	1.96	0.34	0.51	2.90



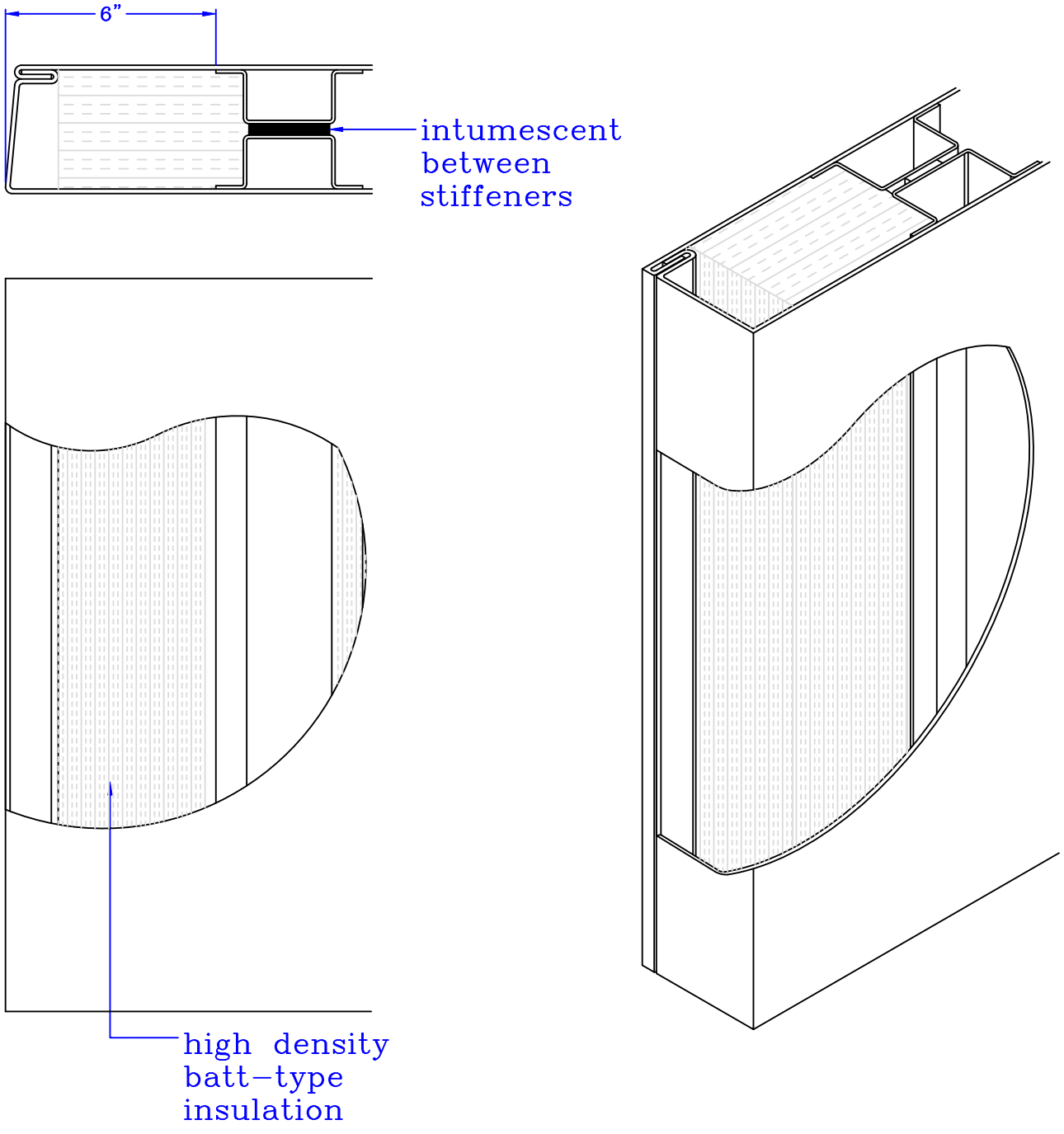




Steel stiffened with wool, Thermal rated

With vertical 18 gage steel stiffeners, 6" on center.
Continuous bonding of core to steel faces.

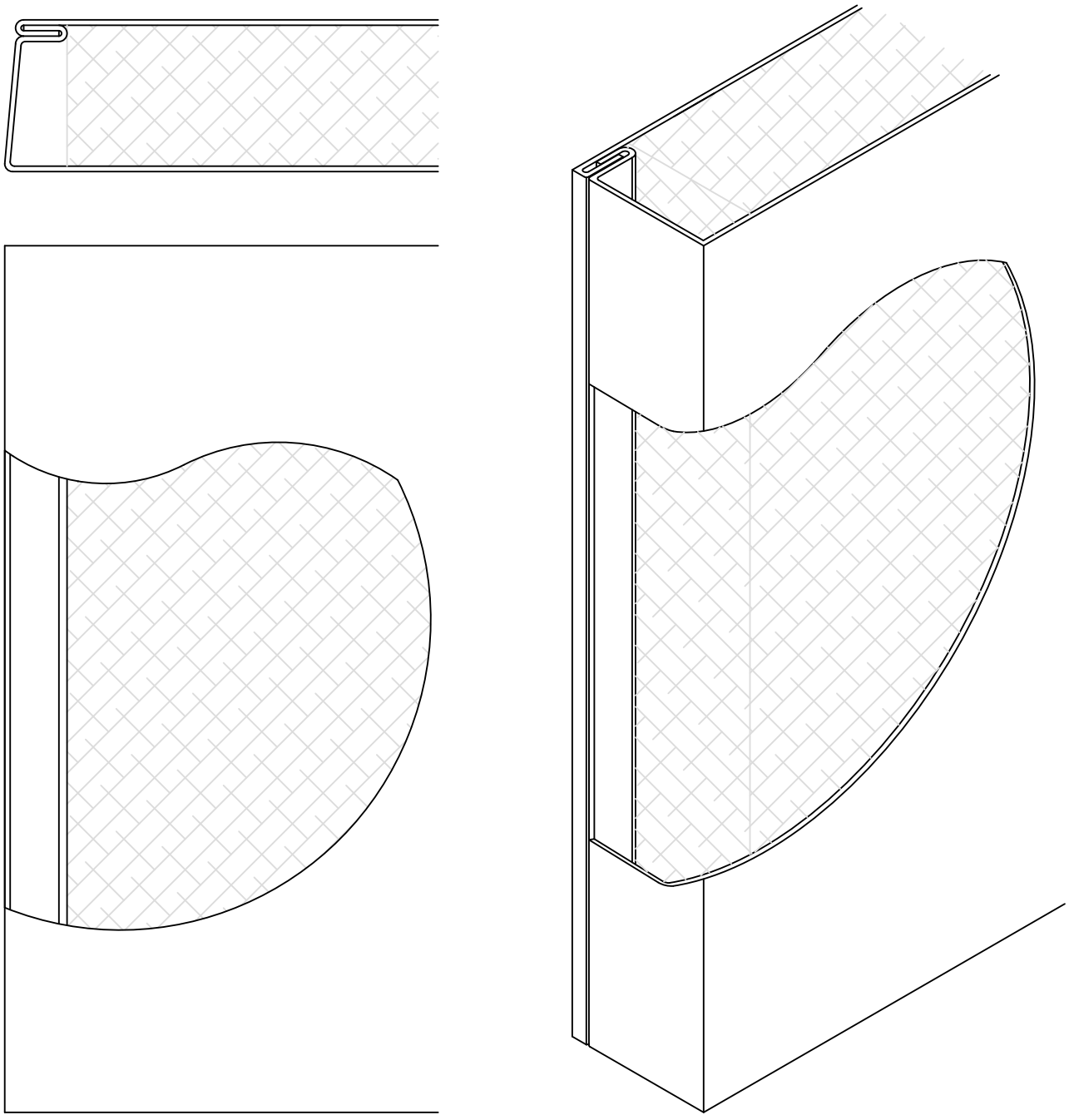
Thermal Perfomance	R factor		U factor	
	ft²·°F·h/BTU	m²·K/W	BTU/ft²·°F·h	W/m²·K
per SDI-113 (ASTM C1199, C1363, E1423)	1.47	0.26	0.68	3.86



STWT

Temperature rise - Mineral core - 450°F in 30 min

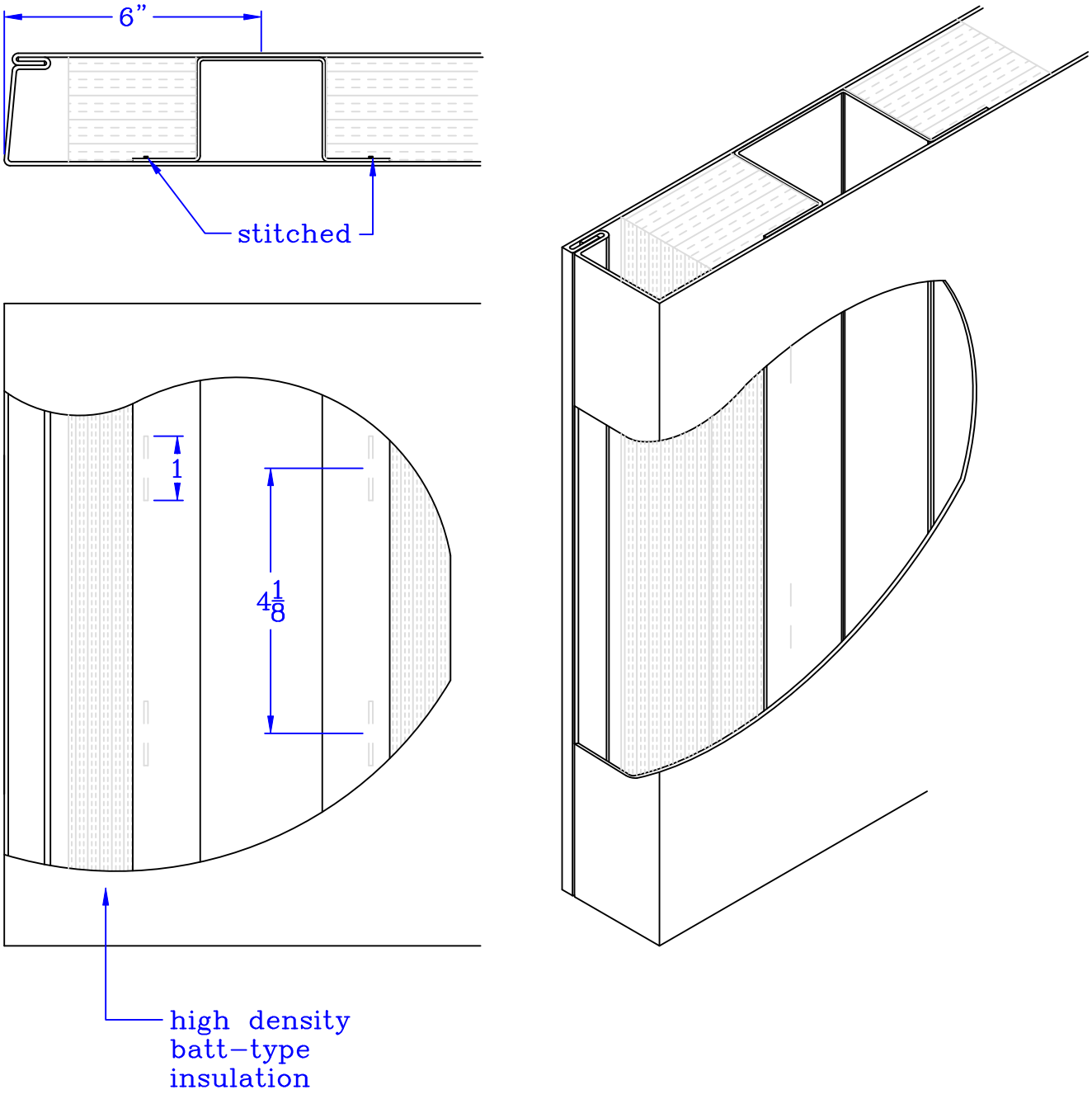
Continuous bonding of core to steel faces.



TR45030

Temperature rise - Steel stiffened - 450°F in 30 min

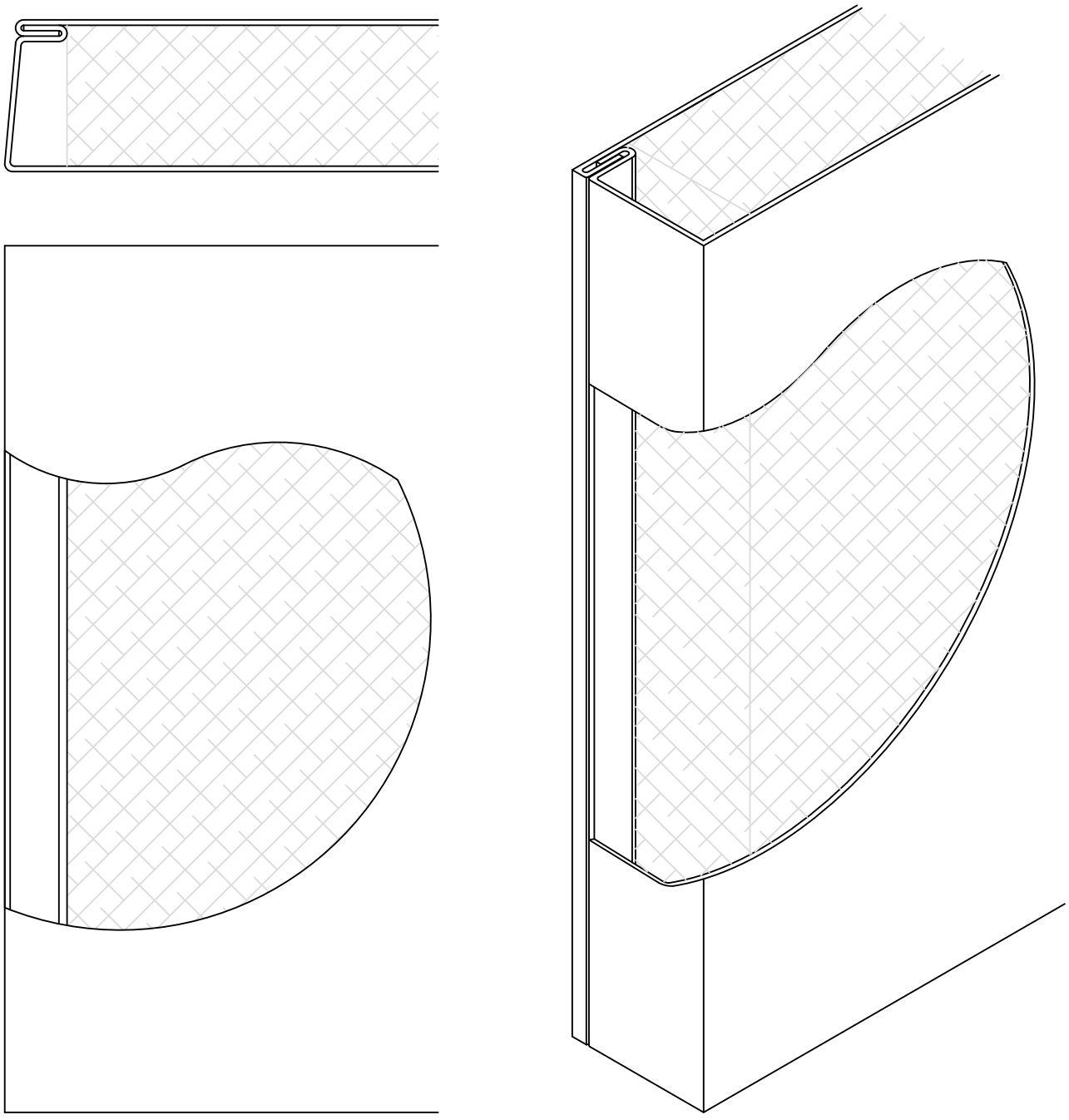
With vertical 18 gage steel stiffeners, 6" on center.
Welded stiffeners, laser welding.



ST45030

Temperature rise - Mineral core - 250°F in 30 min

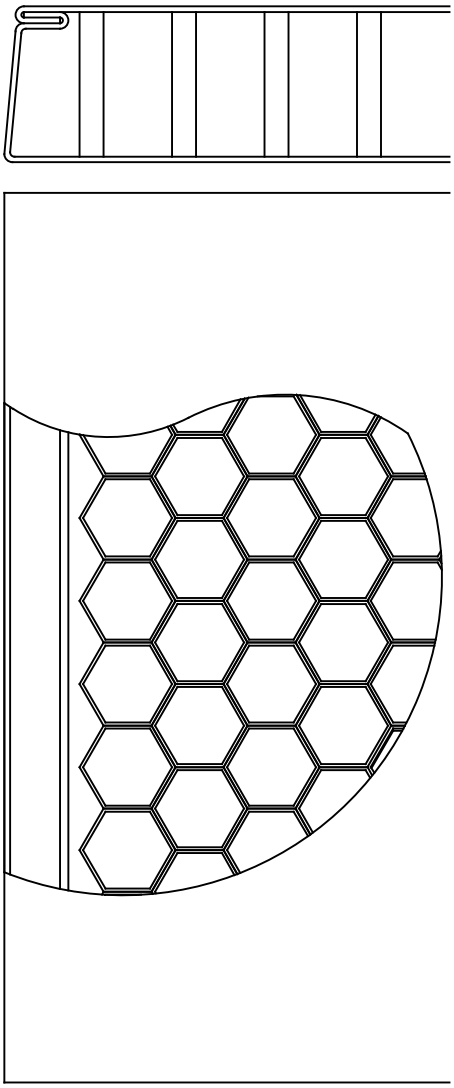
Continuous bonding of core to steel faces.

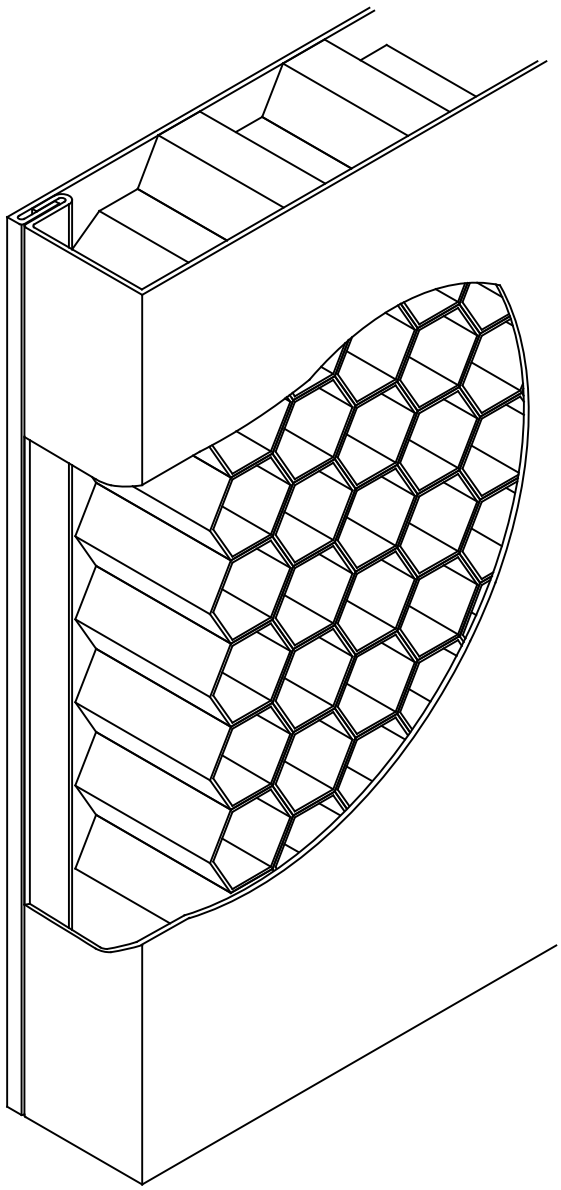


TR25030

Honeycomb core at stainless steel door

Continuous bonding of core to steel faces.





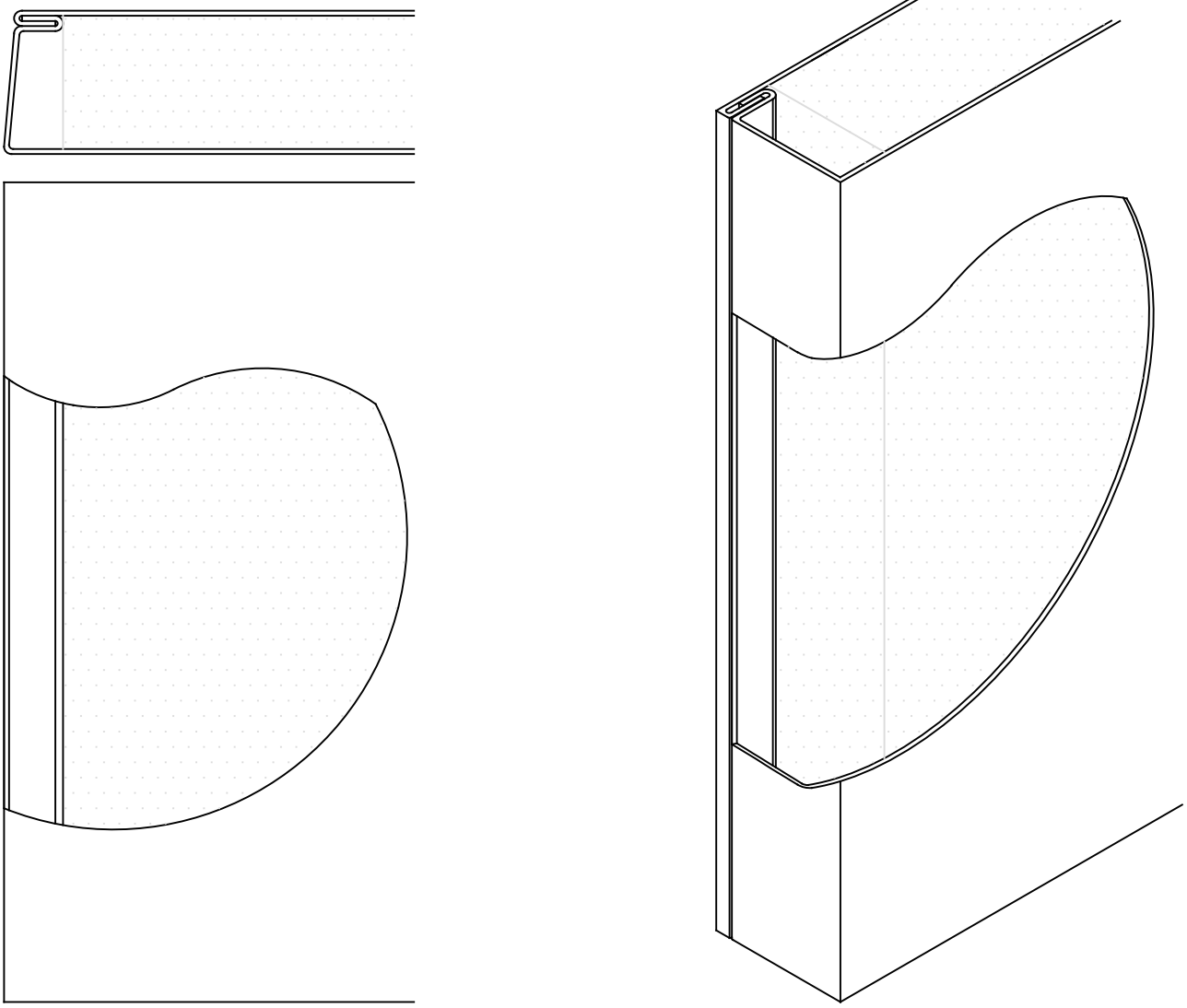
HCSS

Added stiffener, full height, in middle of door when over 3'0" wide.

Polystyrene core at stainless steel door

R and U values not available.

Continuous bonding of core to steel faces.



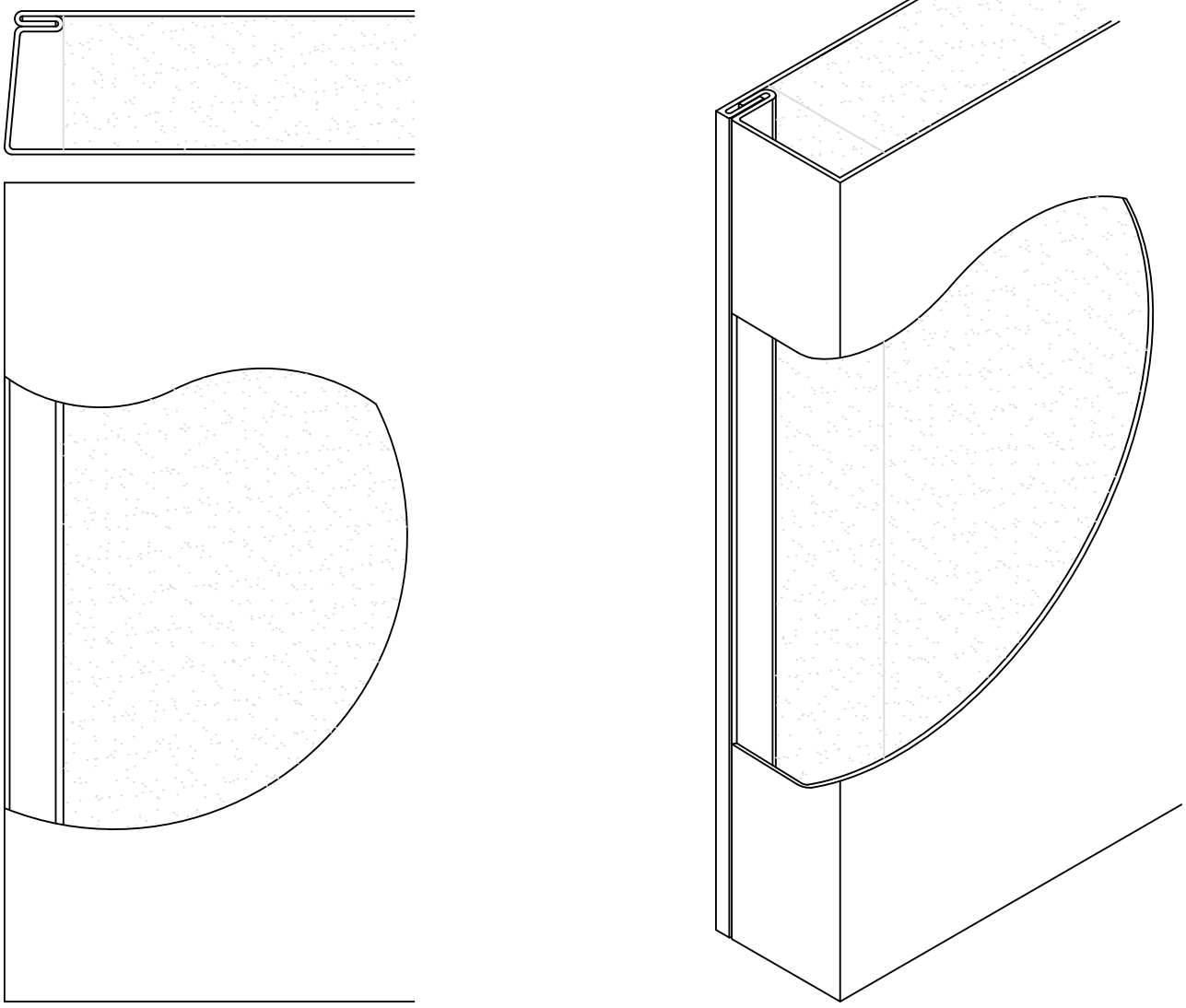
PSSS

Added stiffener, full height, in middle of door when over 3'0" wide.

Polyurethane core at stainless steel door

R and U values not available.

Continuous bonding of core to steel faces.



PUSS

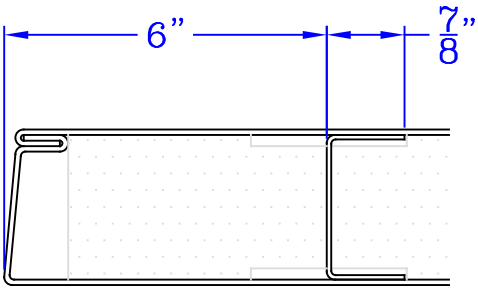
Added stiffener, full height, in middle of door when over 3'0" wide.

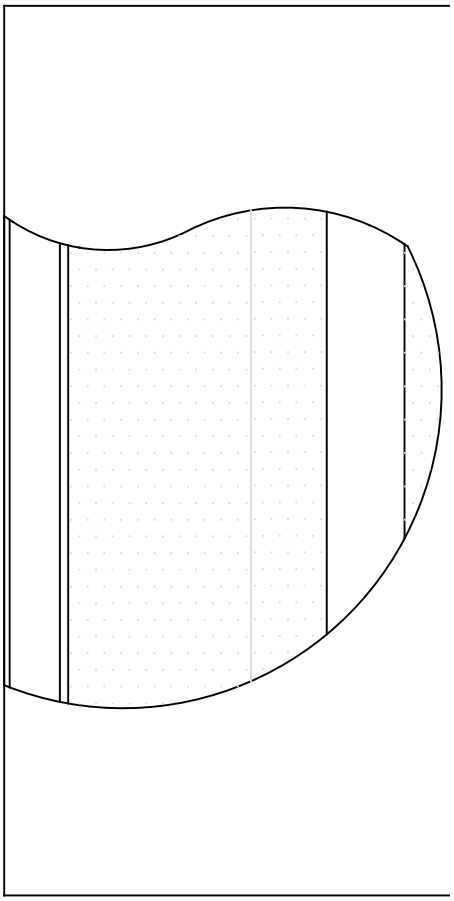
Steel stiffened with polystyrene at stainless steel door

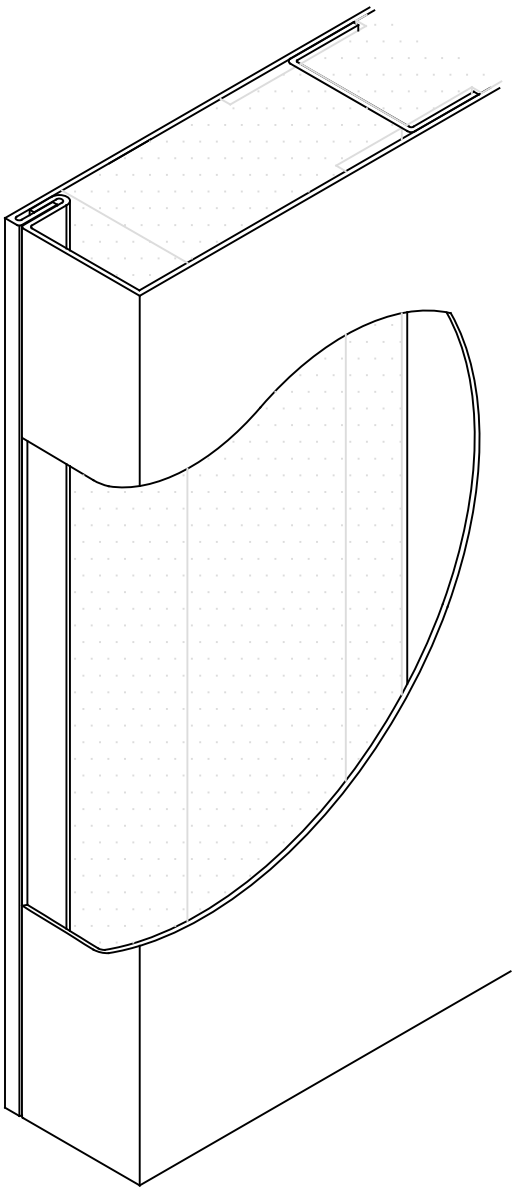
R and U values not available.

With vertical 18 gage steel stiffeners, 6" on center with solid polystyrene blocks.

Continuous bonding of core to steel faces.







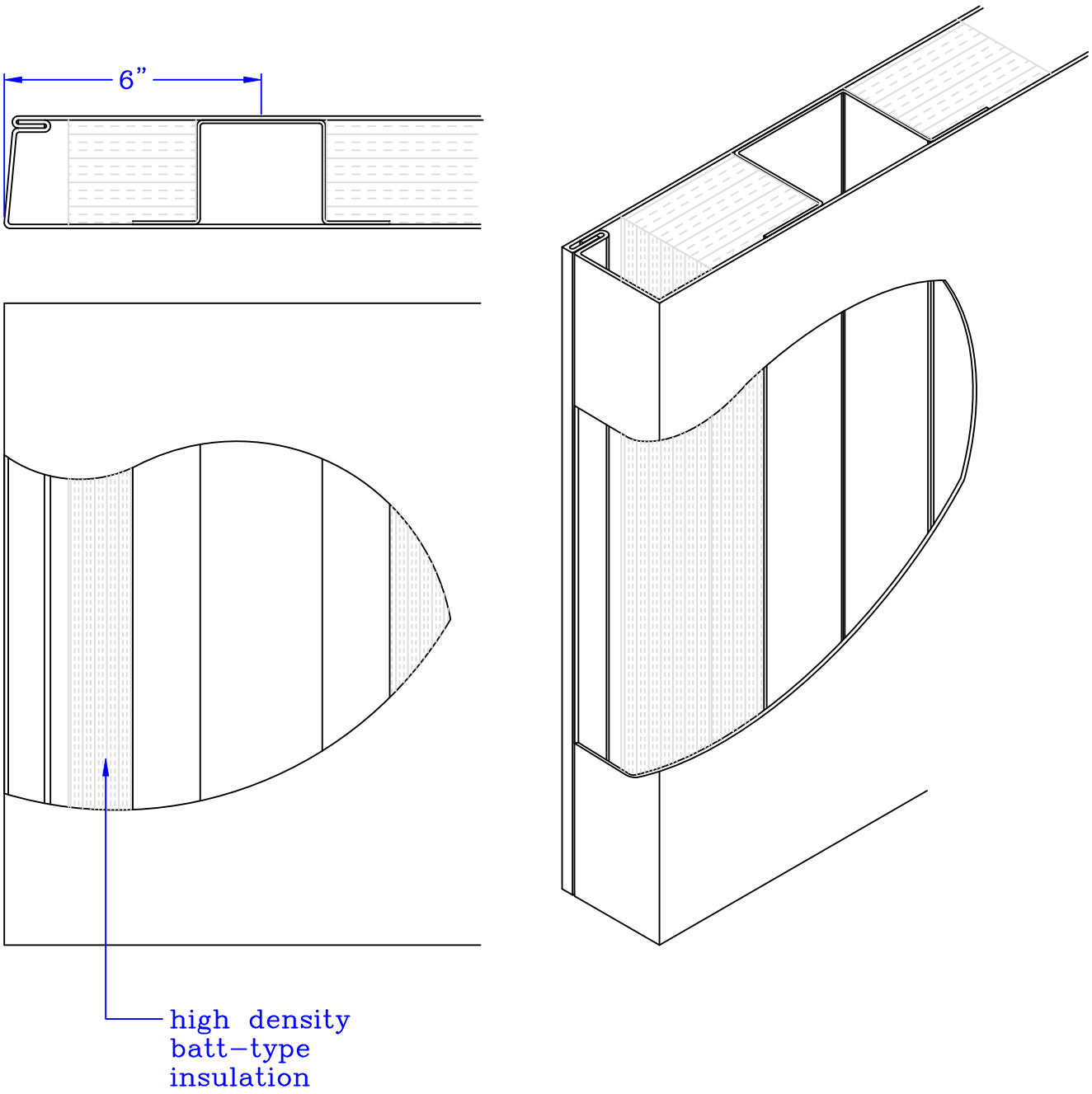
STPSSS

Steel stiffened with wool at stainless steel door

R and U values not available.

With vertical 18 gage steel stiffeners, 6" on center.

Continuous bonding of core to steel faces.

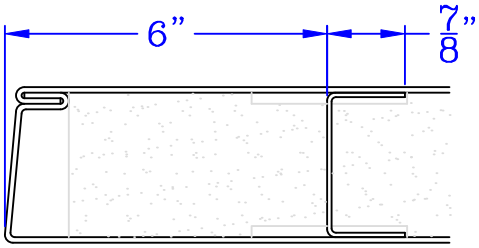


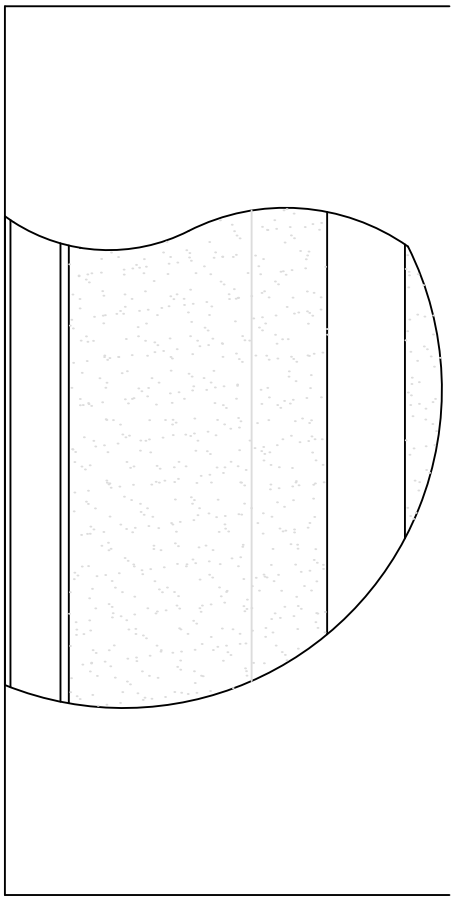
Steel stiffened with polyurethane at stainless steel door

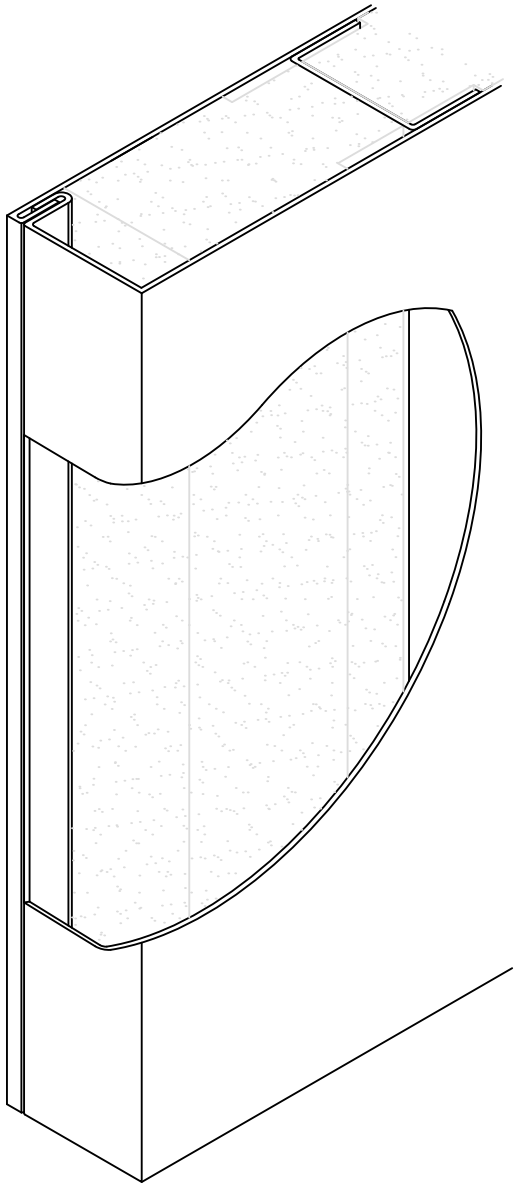
R and U values not available.

With vertical 18 gage steel stiffeners, 6" on center with solid polyurethane blocks.

Continuous bonding of core to steel faces.







DE LA FONTAINE

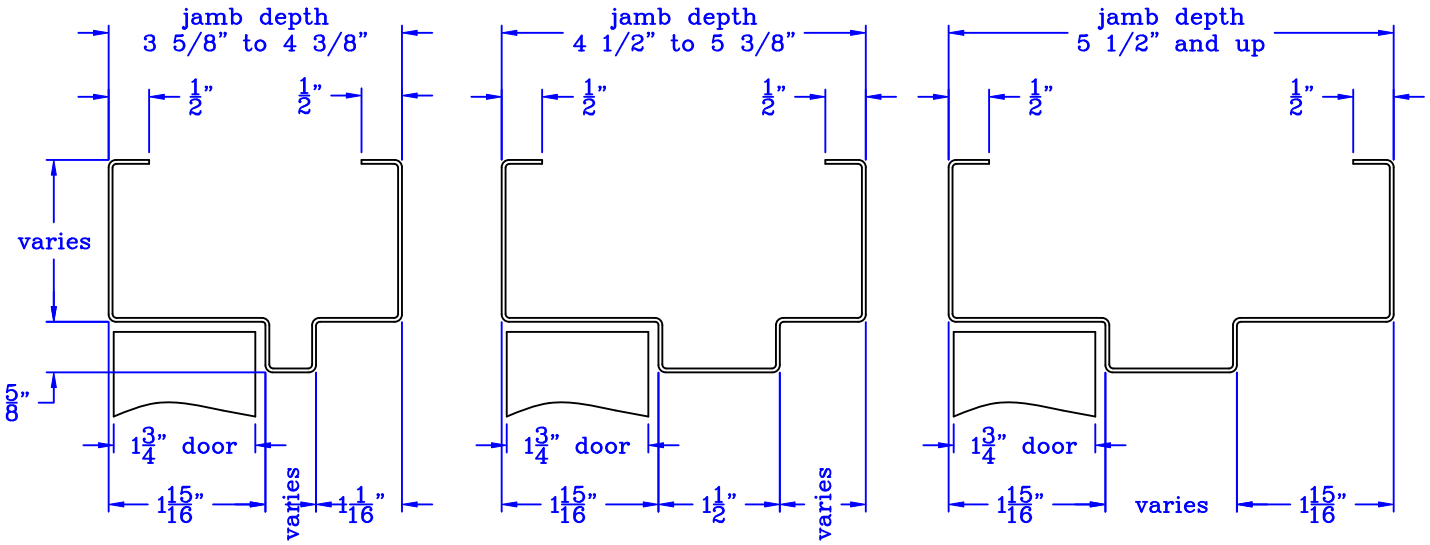
FRAME SERIES

DE LA FONTAINE

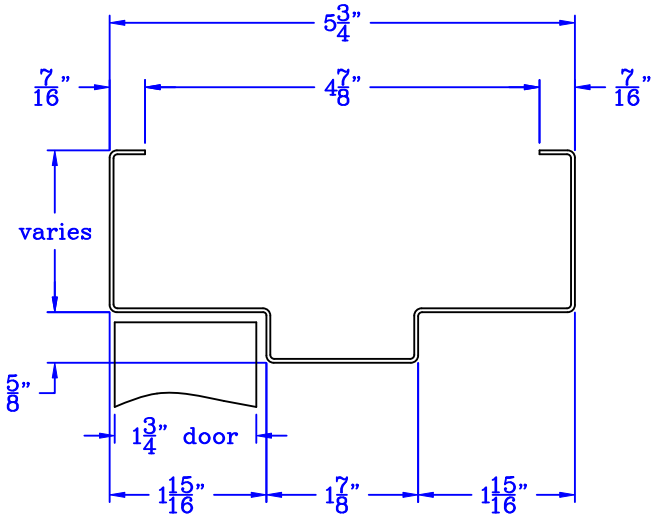
FRAME SERIES PAGE

Double rabbet profile, SR18

All jamb depths (excluding 5 3/4")



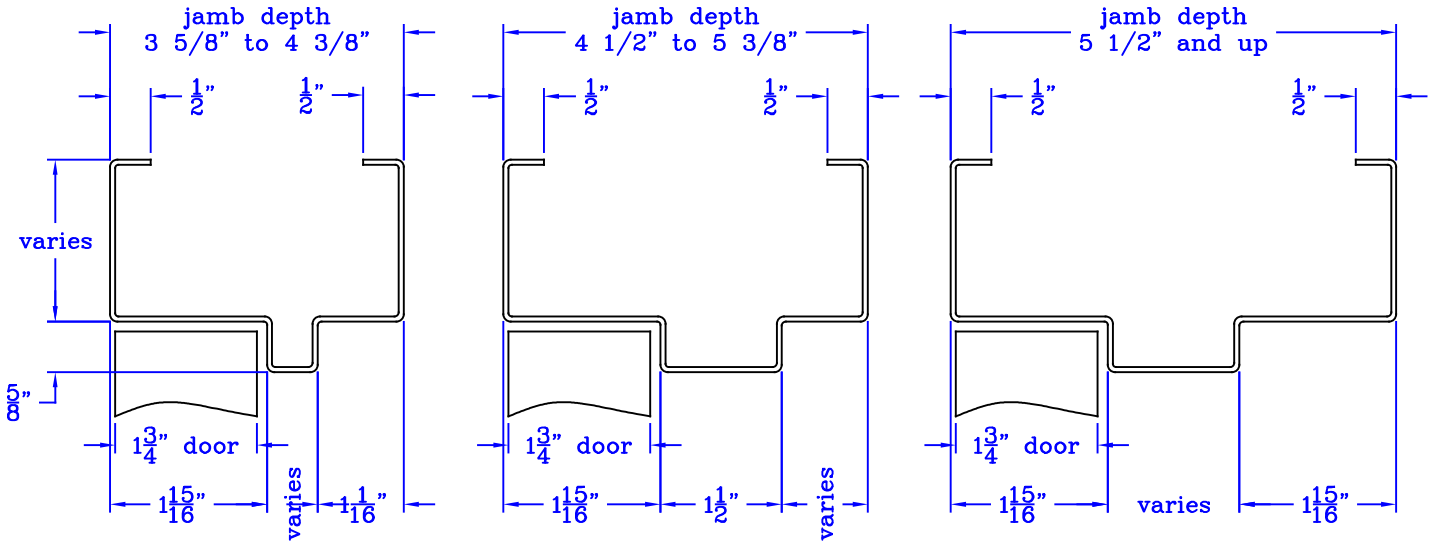
5 3/4" jamb depth



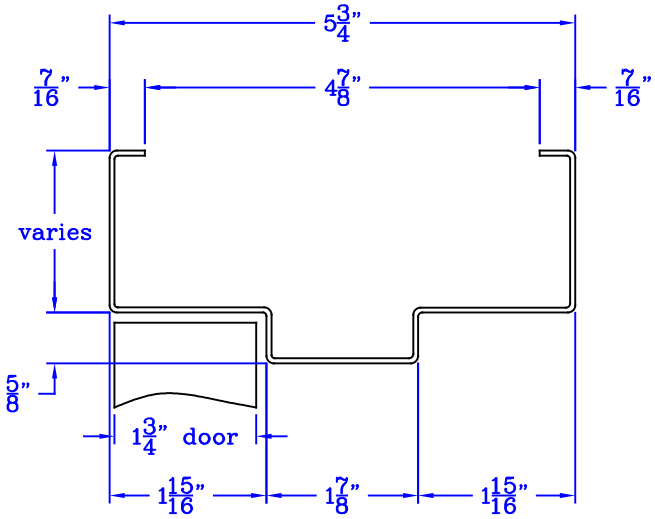
Single rabbet at less than 3 5/8" jamb depth
Not available for welded elevations

Double rabbet profile, SR16

All jamb depths (excluding 5 3/4")



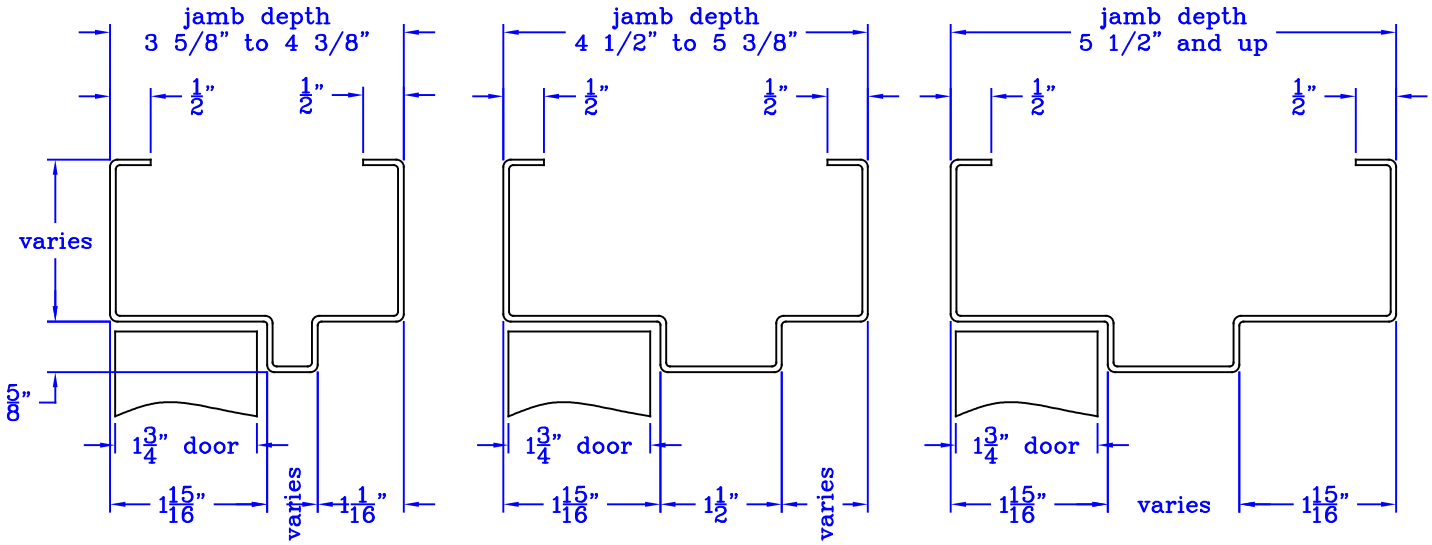
5 3/4" jamb depth



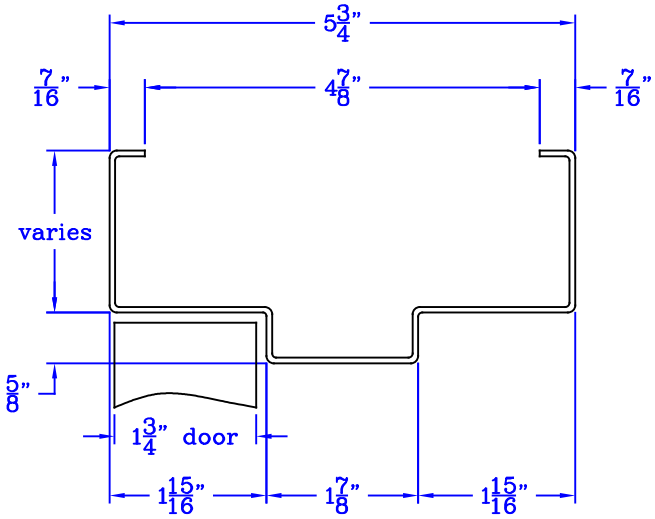
SIngle rabbet at less than 3 5/8" jamb depth

Double rabbet profile, SR14

All jamb depths (excluding 5 3/4")



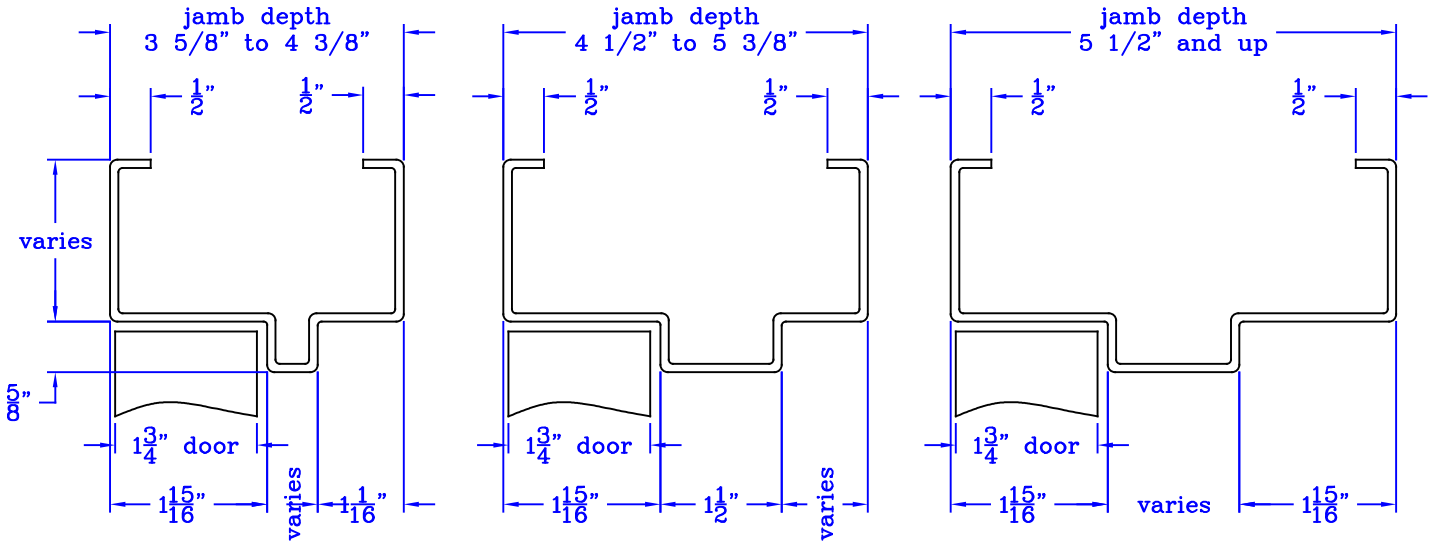
5 3/4" jamb depth



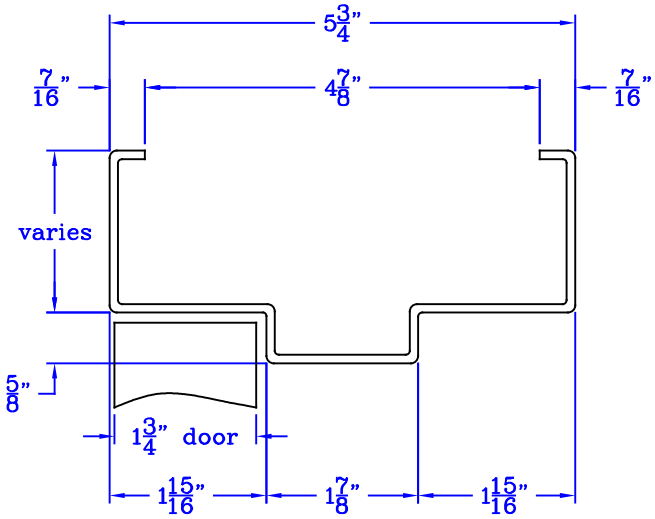
SIngle rabbet at less than 3 5/8" jamb depth

Double rabbet profile, SR12

All jamb depths (excluding 5 3/4")



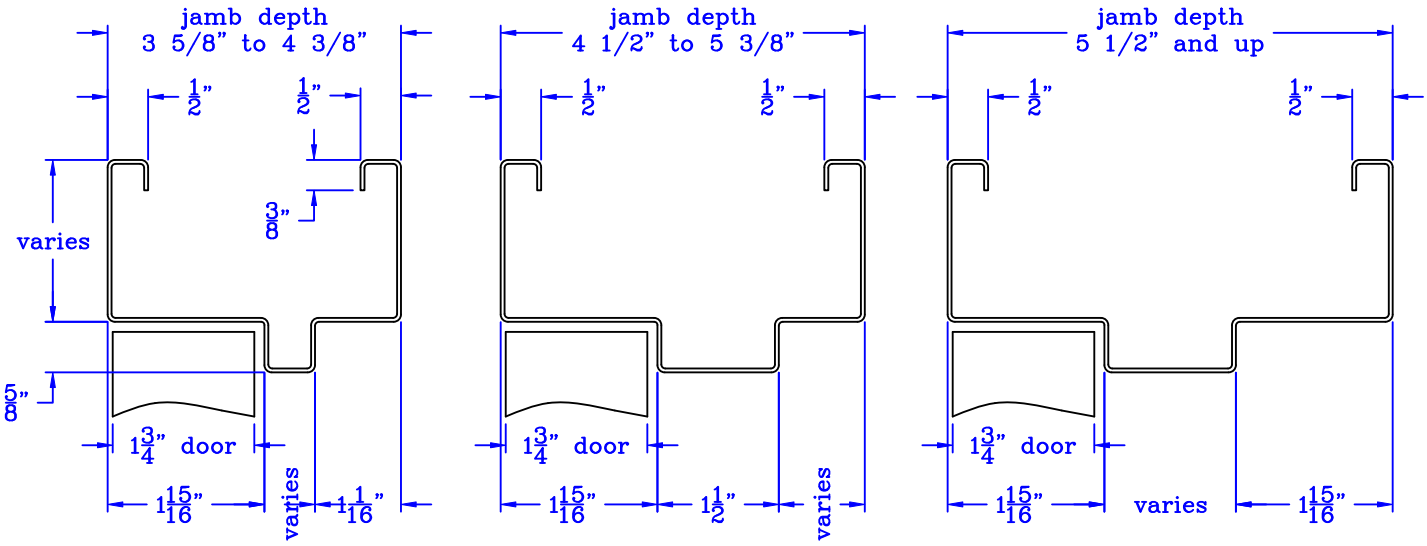
5 3/4" jamb depth



SIngle rabbet at less than 3 5/8" jamb depth

Double rabbet profile, DW18

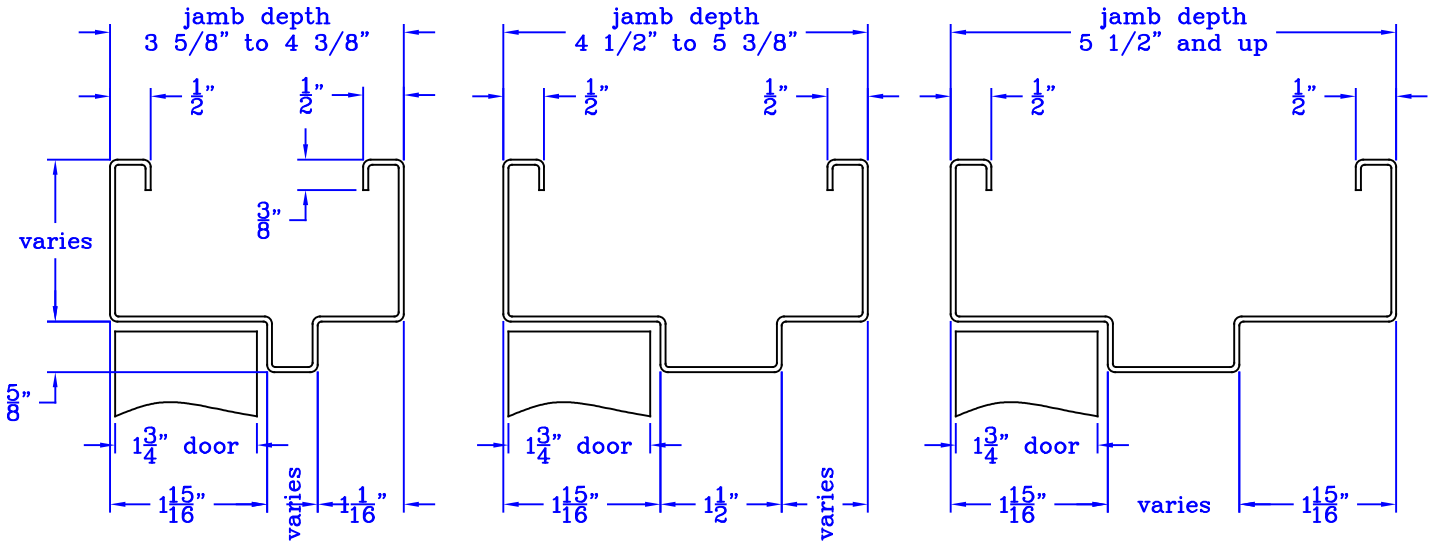
All jamb depths



Single rabbet at less than 3 5/8" jamb depth
Not available for welded elevations

Double rabbet profile, DW16

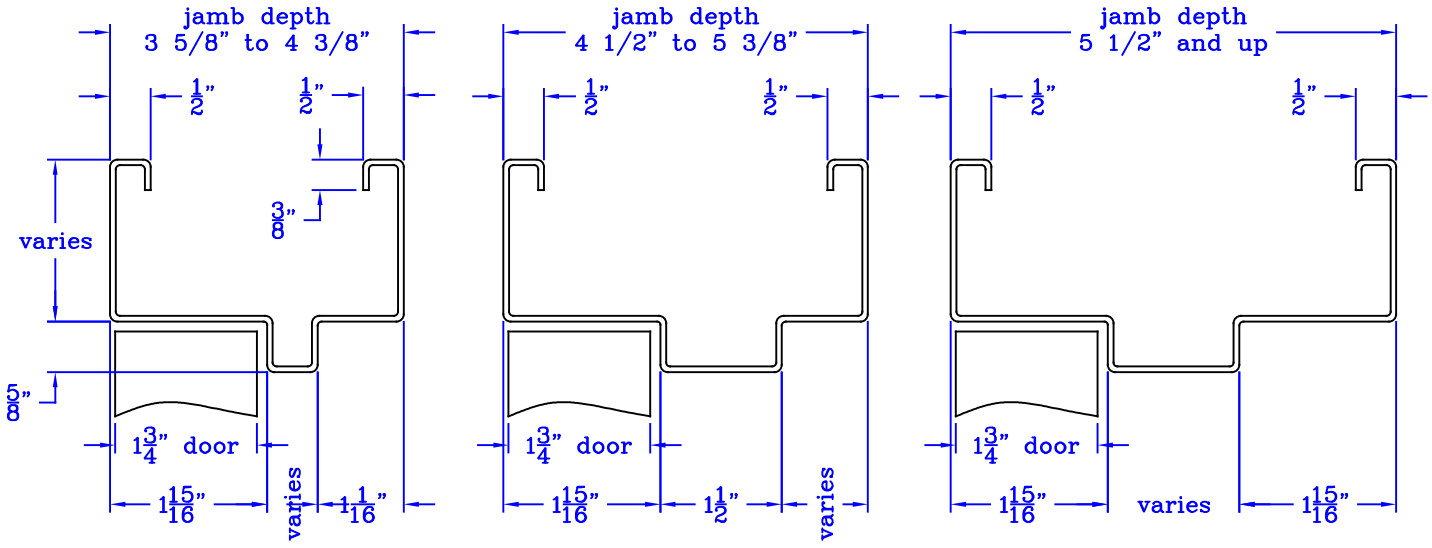
All jamb depths



SIngle rabbet at less than 3 5/8" jamb depth

Double rabbet profile, DW14

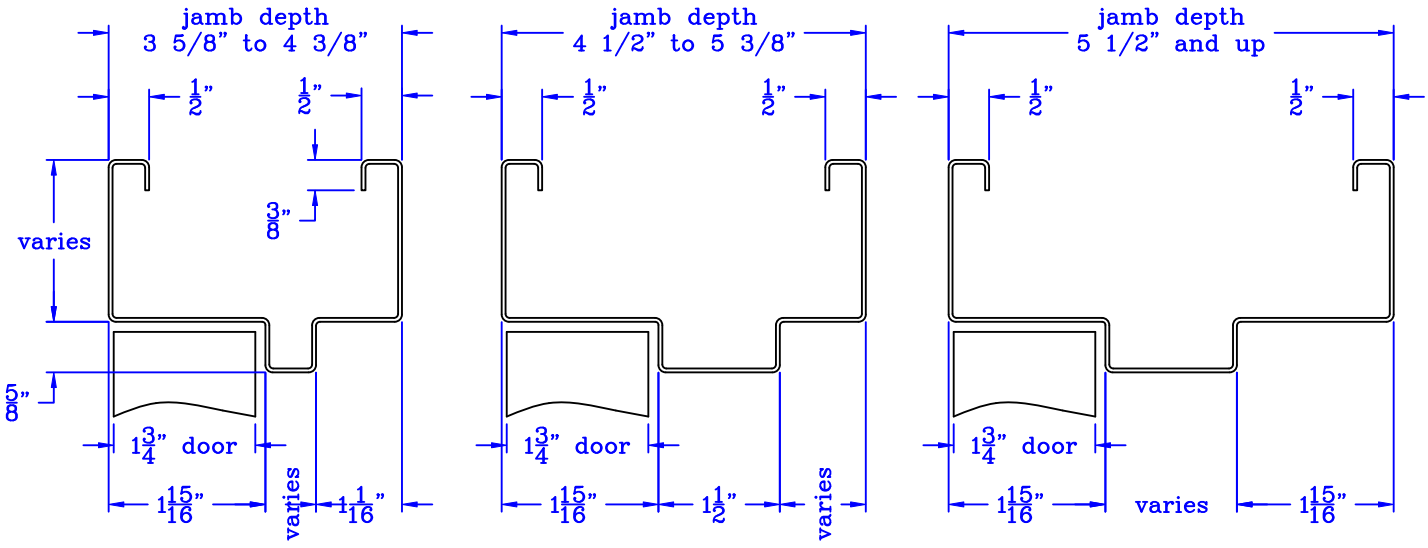
All jamb depths



SIngle rabbet at less than 3 5/8" jamb depth

Double rabbet profile, DR18

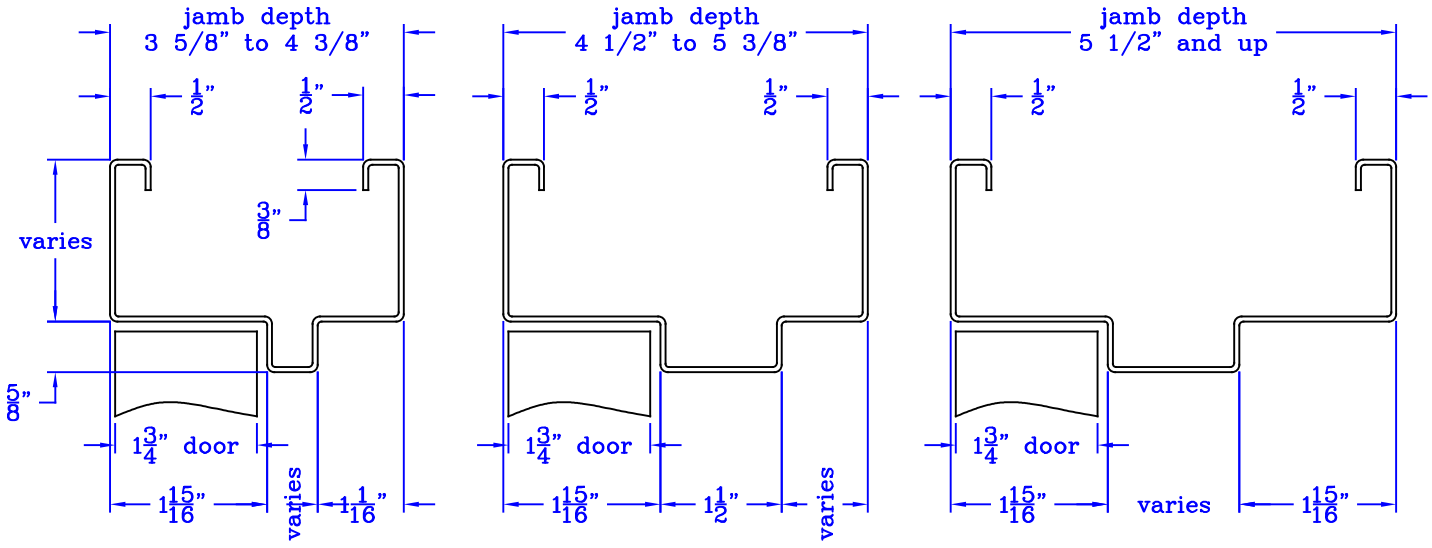
All jamb depths



Single rabbet at less than 3 5/8" jamb depth
Not available for welded elevations

Double rabbet profile, DR16

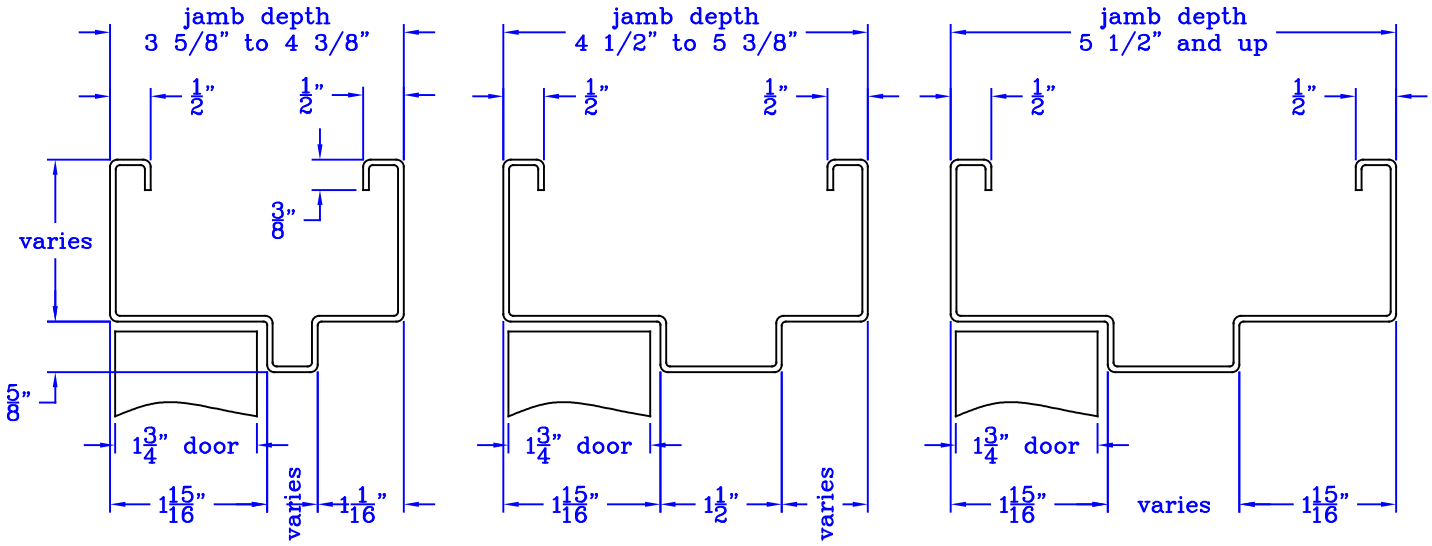
All jamb depths



SIngle rabbet at less than 3 5/8" jamb depth

Double rabbet profile, DR14

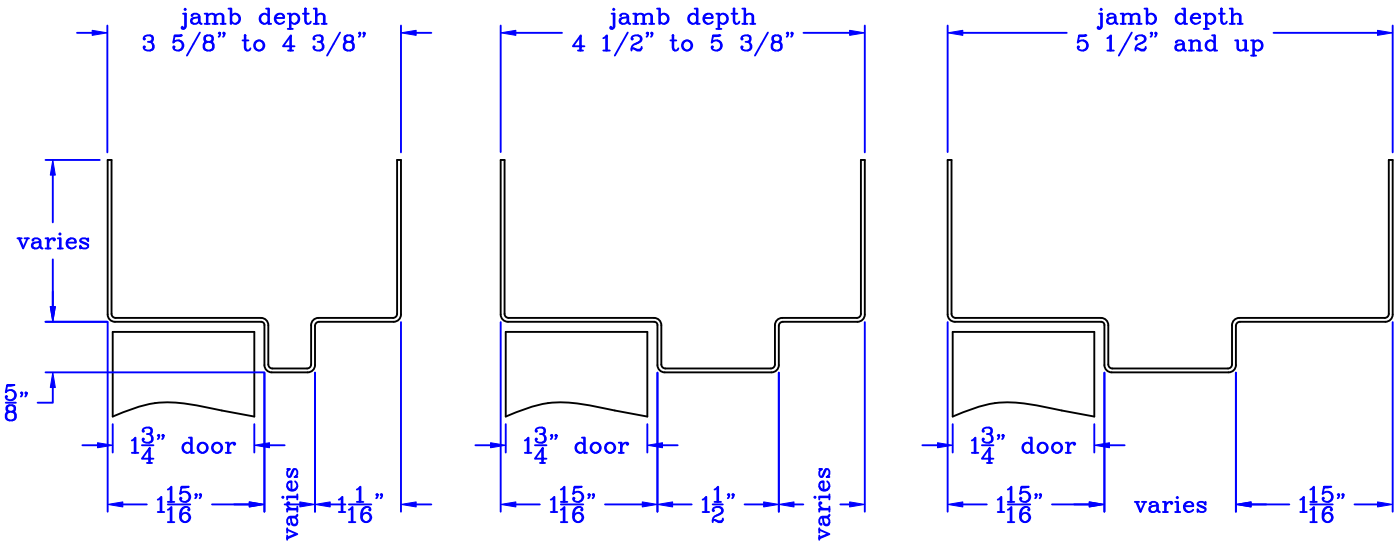
All jamb depths



SIngle rabbet at less than 3 5/8" jamb depth

Double rabbet profile, LR18

All jamb depths

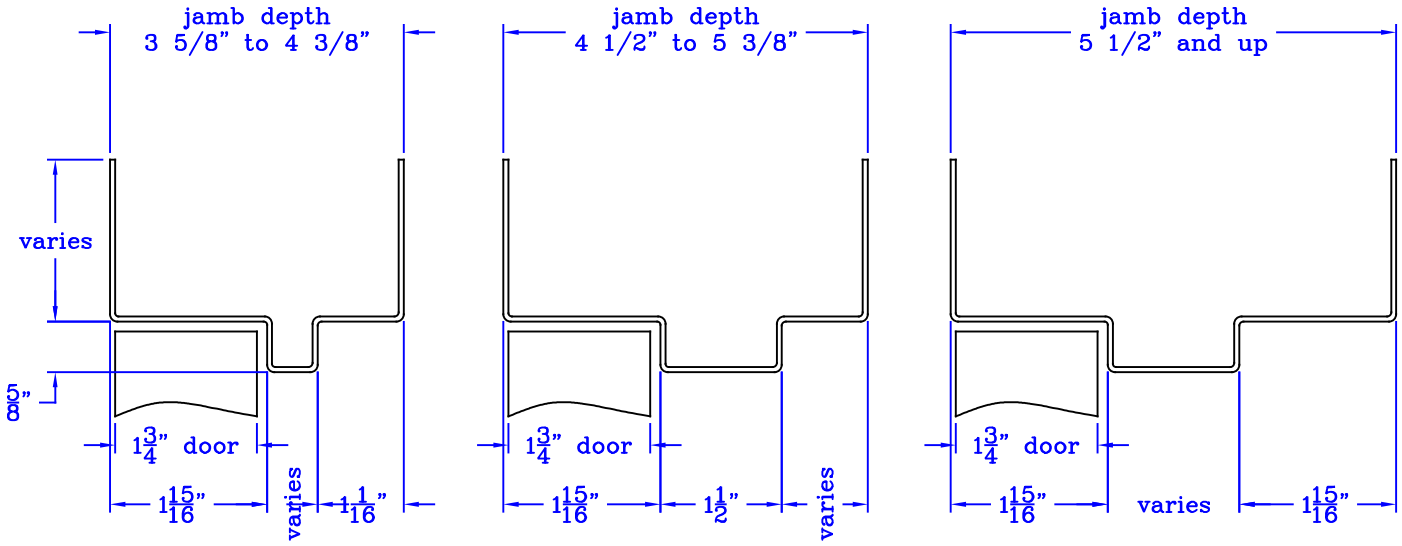


Jamb depth is a 1/8" more then wall thickness

Single rabbet at less than 3 5/8" jamb depth
Not available for welded elevations

Double rabbet profile, LR16

All jamb depths

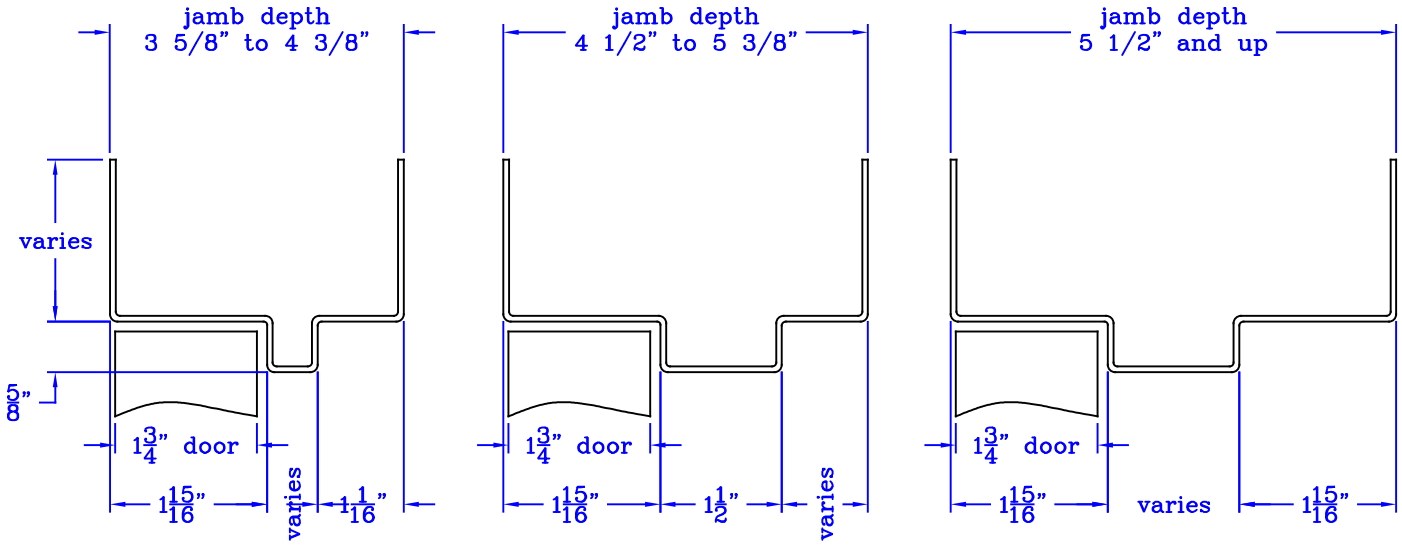


Jamb depth is a 1/8" more then wall thickness

SIngle rabbet at less than 3 5/8" jamb depth

Double rabbet profile, LR14

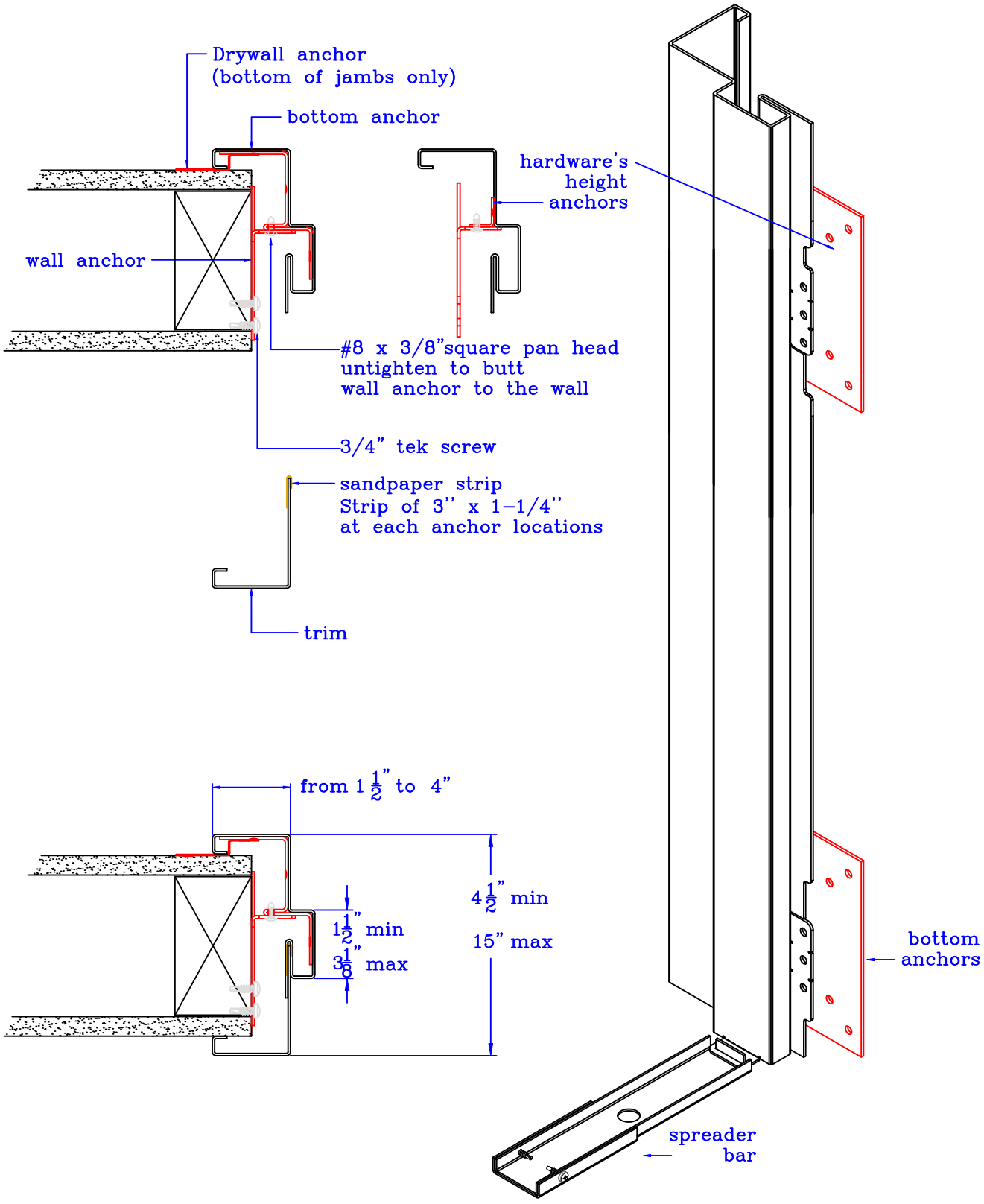
All jamb depths



Jamb depth is a 1/8" more then wall thickness

SIngle rabbet at less than 3 5/8" jamb depth

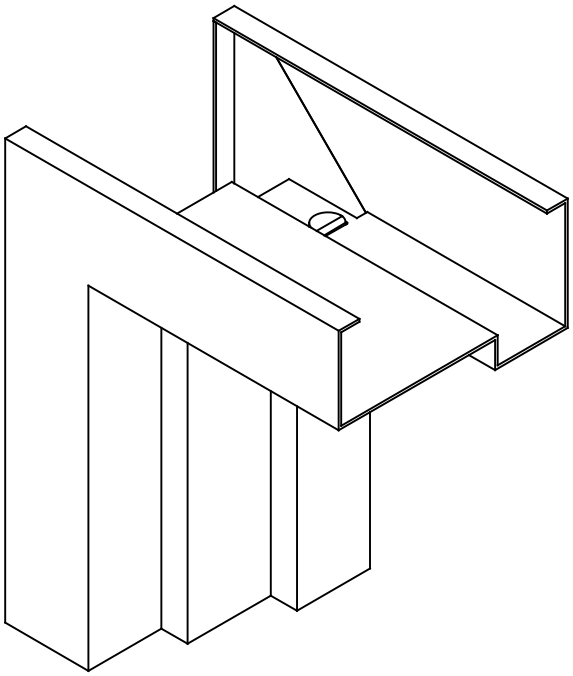
Double rabbet profile, SF16

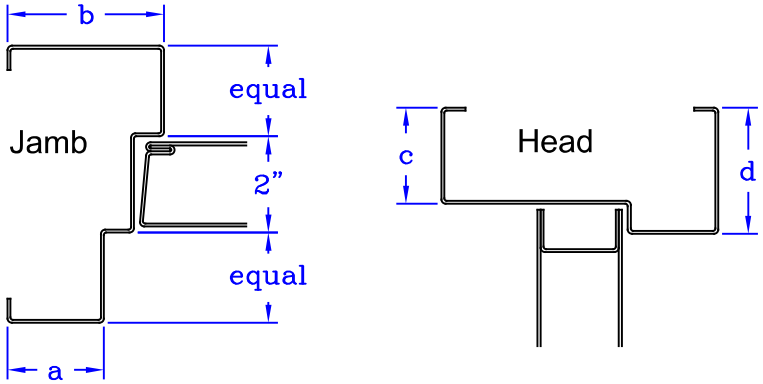


Rough opening : opening width + 2"
: opening height + 1"
See www.delafontaine.com/wp-content/uploads/2020/06/split-frame-installation-instructions.pdf

Double egress frame, DE16

Actual opening is 1/8" less than nominal size to accept standard width doors.





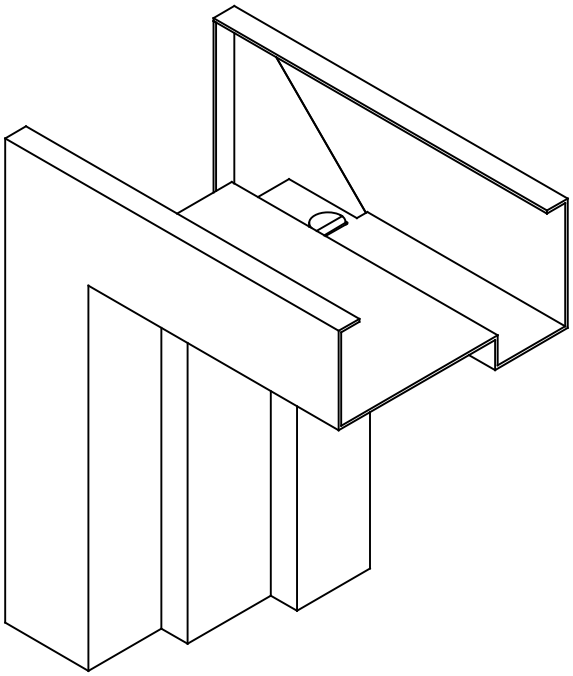
-DE1		-DE2 (by default unless otherwise noted)		-DE3	
Jamb	Head	Jamb	Head	Jamb	Head
a=2"	c=2"	a=1 3/8"	c=1 3/8"	a=1 3/8"	c=2"
b=3 1/4"	d=2 5/8"	b=2 5/8"	d=2"	b=2 5/8"	d=2 5/8"

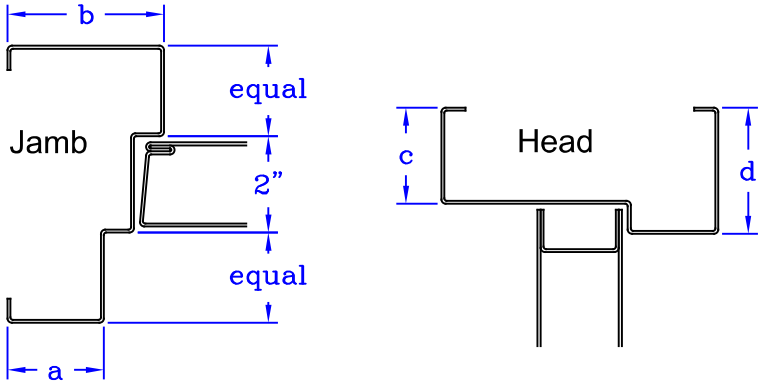
Limitations
From 3160 to 8090
From jamb depth 3-5/8" to 10-7/8"
For frames beyond these limitations, the DE14 series remains a solution.

Single return shown, double return and less return also available

Double egress frame, DE14

Actual opening is 1/8" less than nominal size to accept standard width doors.



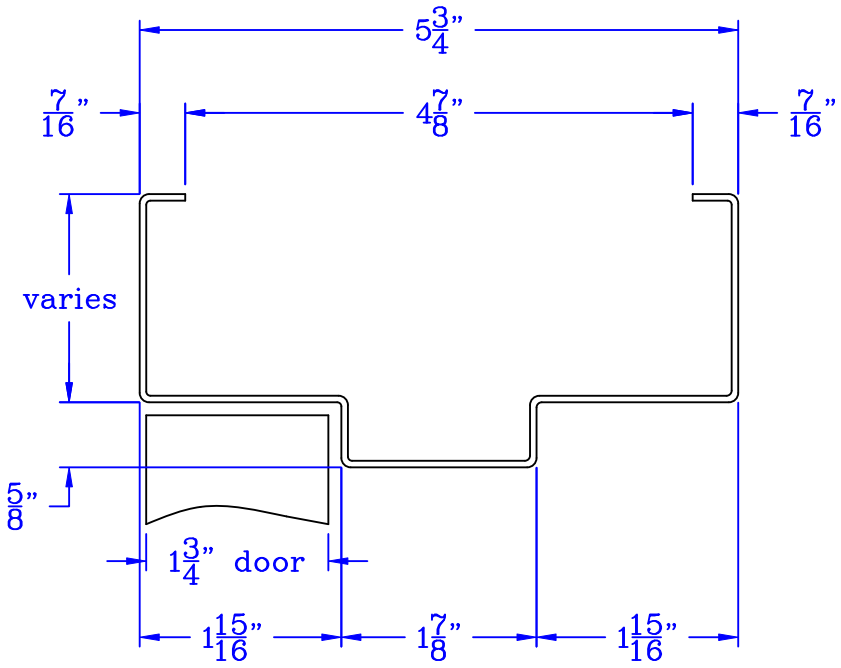


-DE1		-DE2 (by default unless otherwise noted)		-DE3	
Jamb	Head	Jamb	Head	Jamb	Head
a=2"	c=2"	a=1 3/8"	c=1 3/8"	a=1 3/8"	c=2"
b=3 1/4"	d=2 5/8"	b=2 5/8"	d=2"	b=2 5/8"	d=2 5/8"

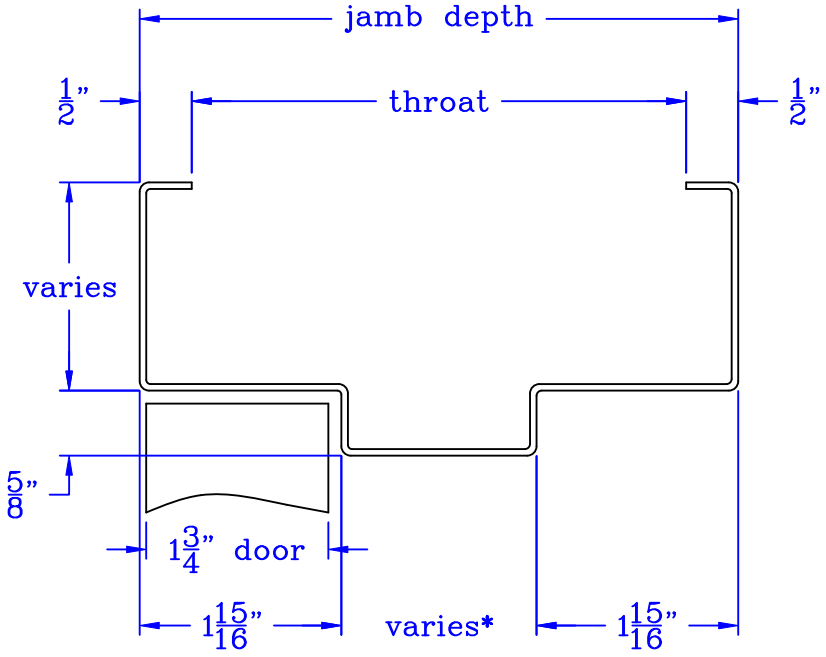
Single return shown, double return and less return also available

Double rabbet profile at stainless steel frame, SS16

5 3/4" jamb depth, SR only



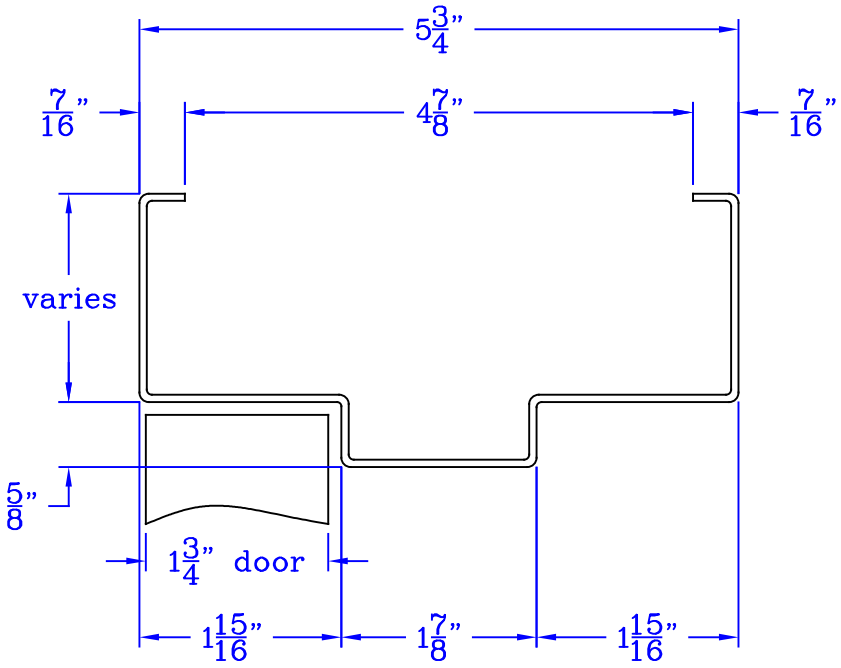
all other jamb depths at SR, DW, DR, LR



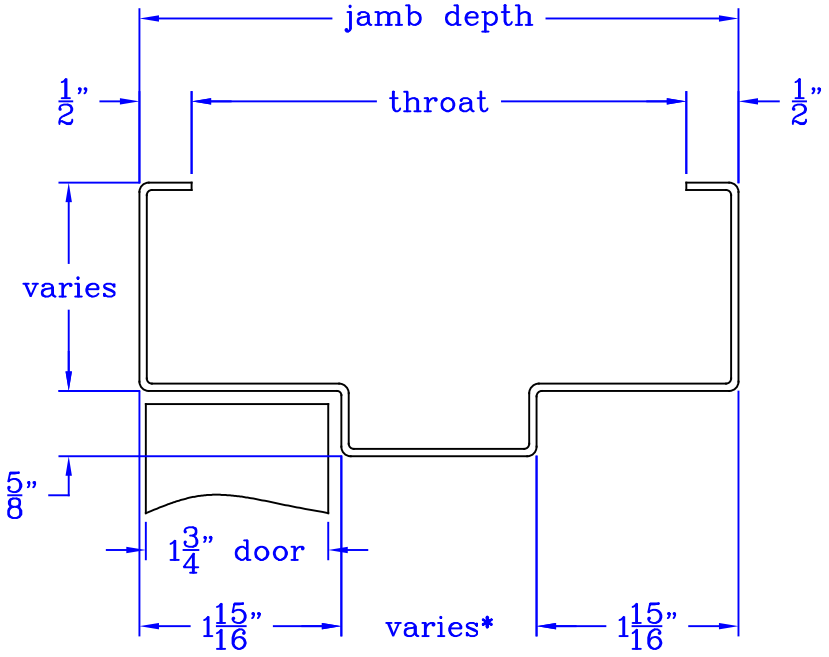
SR series shown, also available DW, DR & LR
*down to 1 1/2" then opposite door side to vary

Double rabbet profile at stainless steel frame, SS14

5 3/4" jamb depth, SR only



all other jamb depths at SR, DW, DR, LR



SR series shown, also available DW, DR & LR
*down to 1 1/2" then opposite door side to vary

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CUSTOM FRAME ELEVATION

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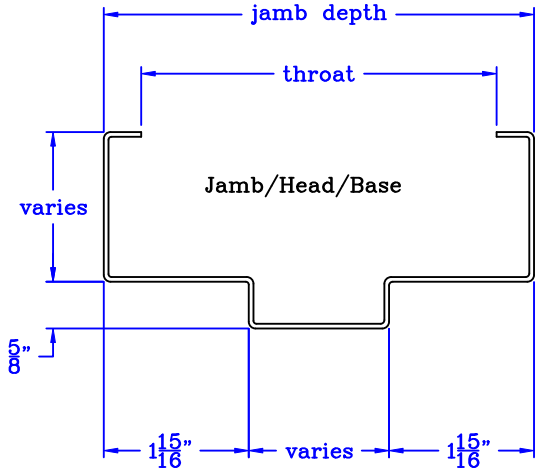
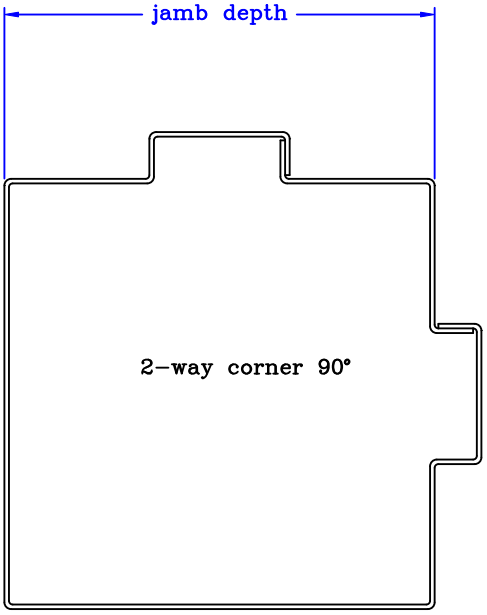
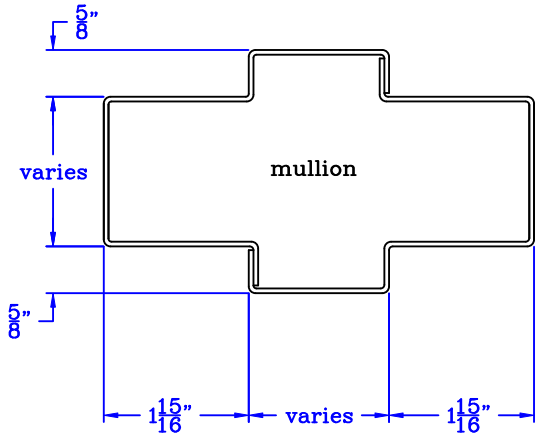
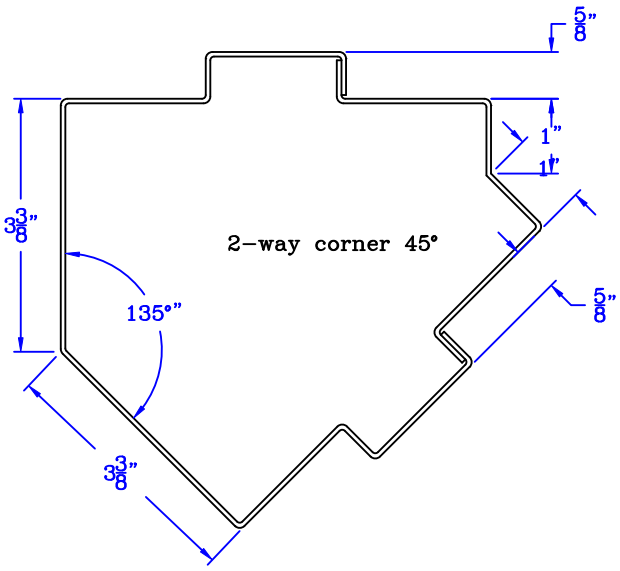
CUSTOM FRAME ELEVATION PAGE

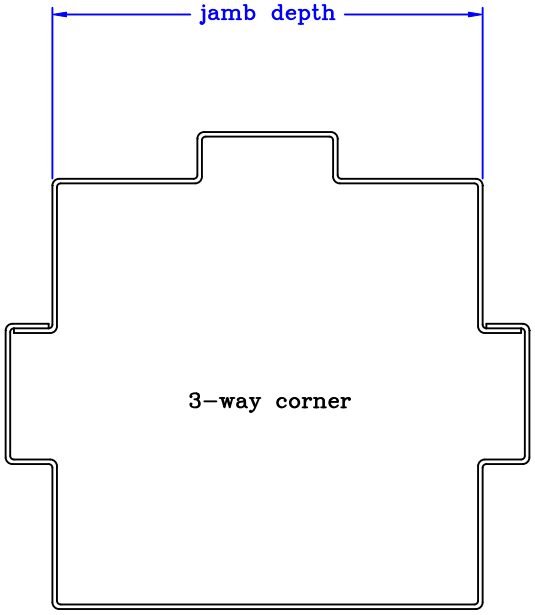
Double rabbet profile, D
Standard Series (SR)





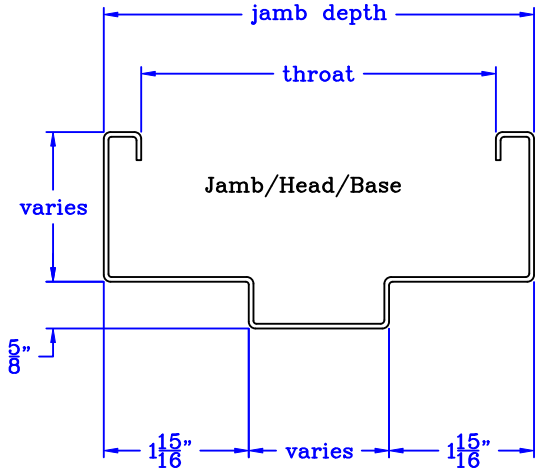


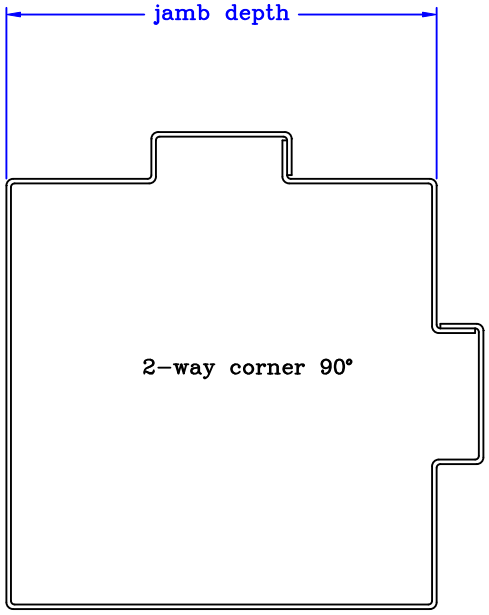


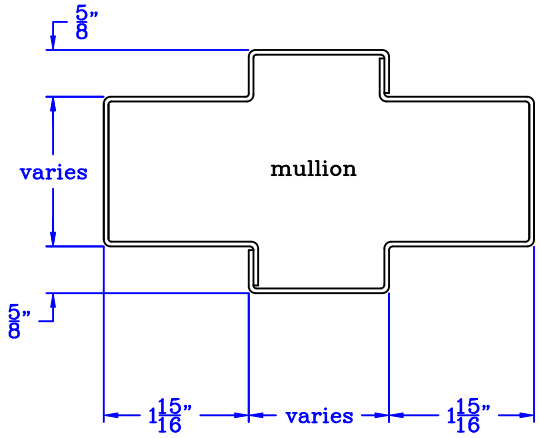


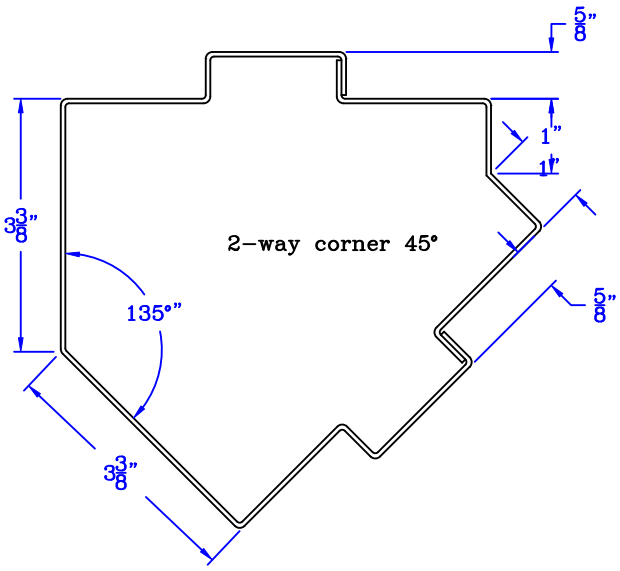
Glazing bead side per handing

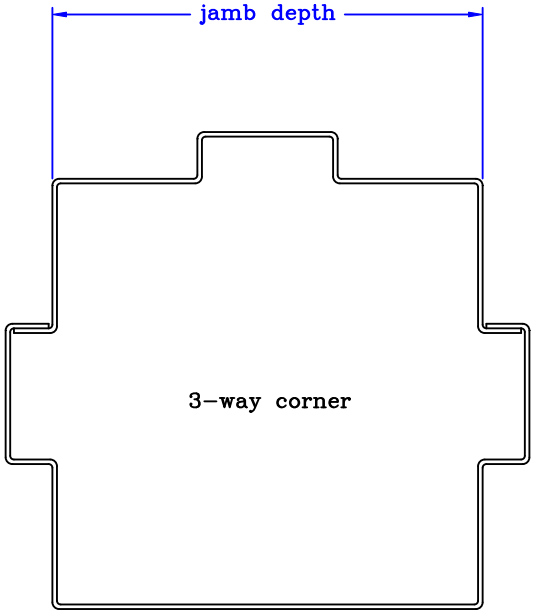
Double rabbet profile, D
Drywall/Pre-drywall Series (DW/DR)





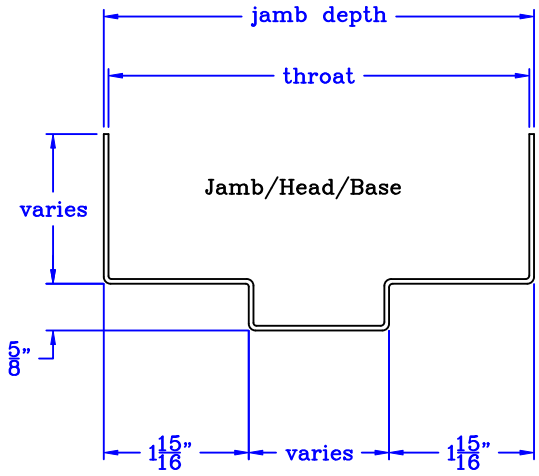


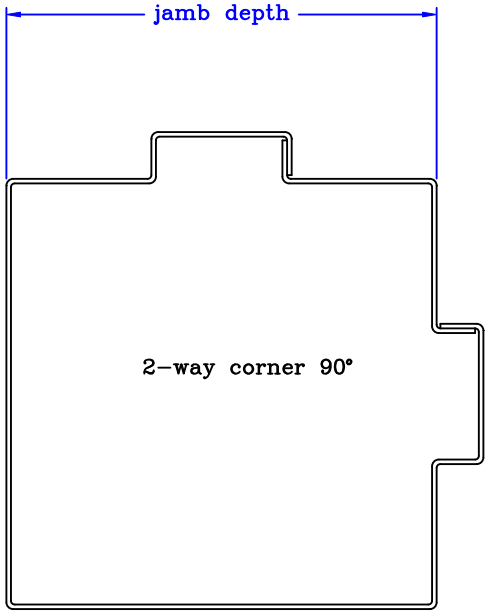


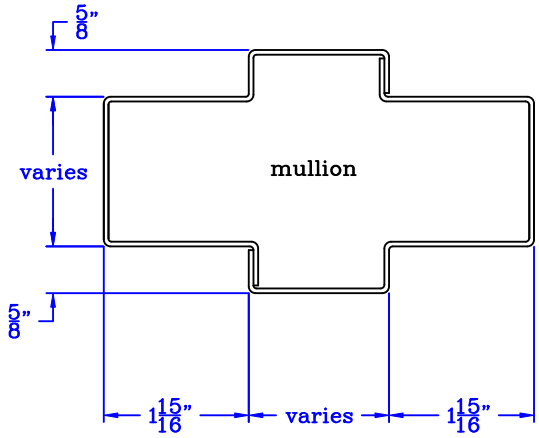


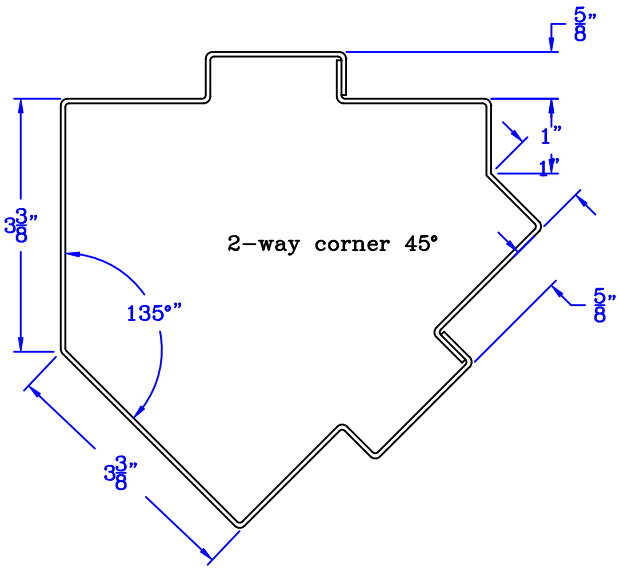
SR series at base
Glazing bead side per handing

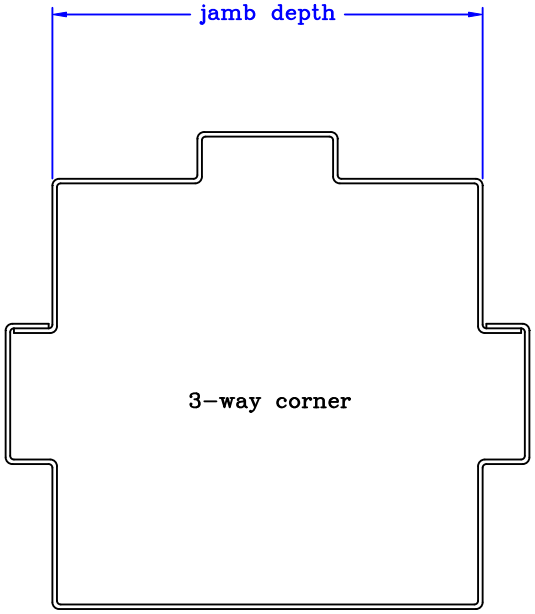
Double rabbet profile, D
Less Return Series (LR)







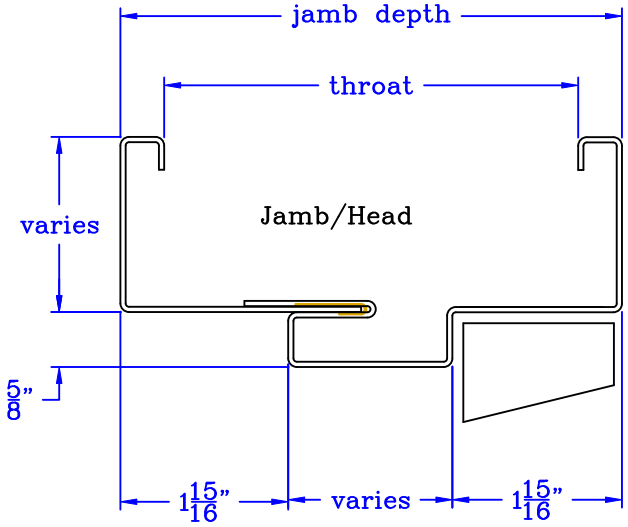


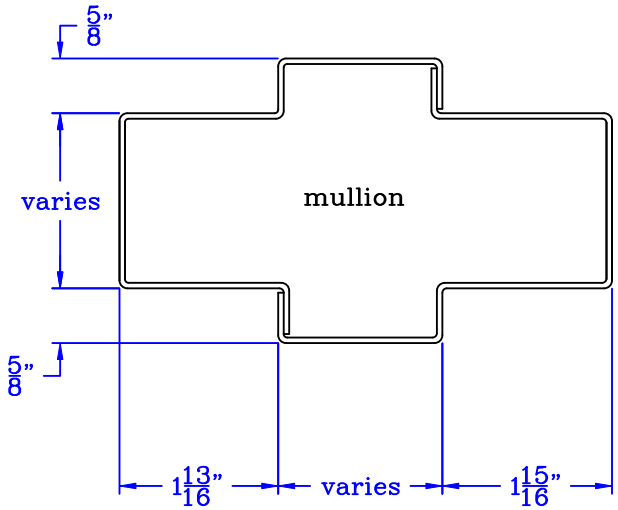


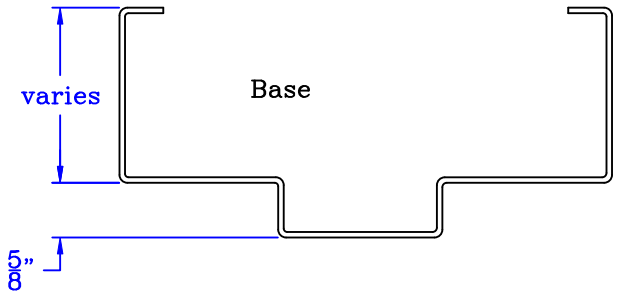
Glazing bead side per handing

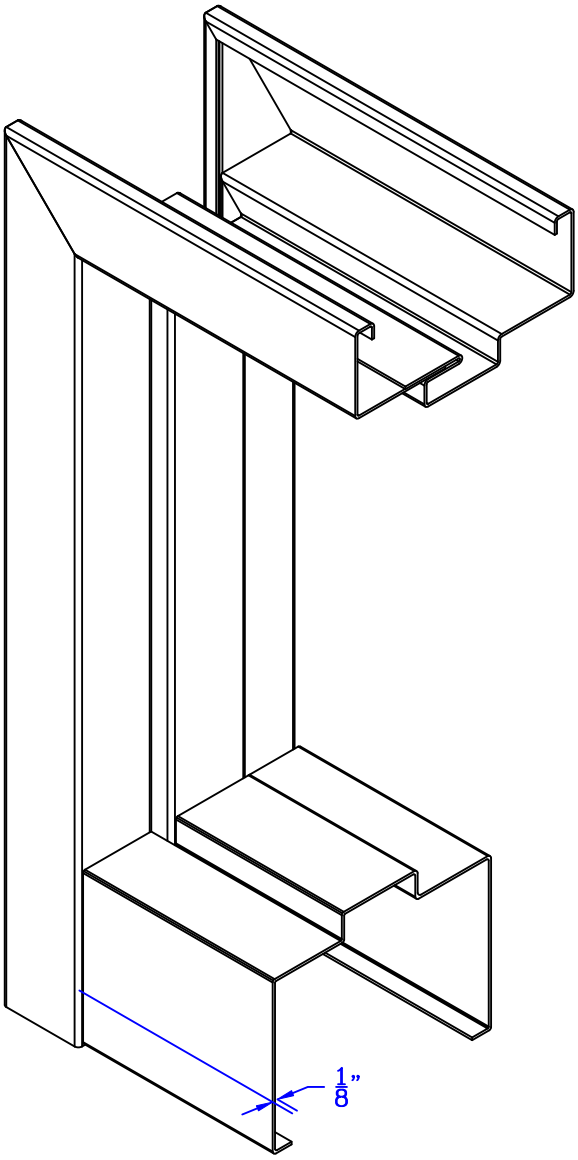
Split frame profile, SF

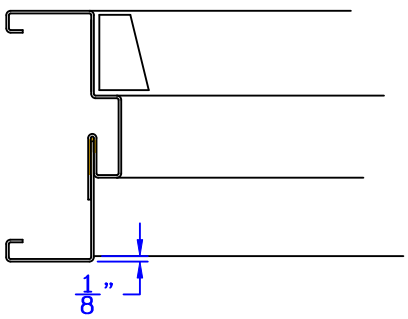
Split Frame Series (SF)







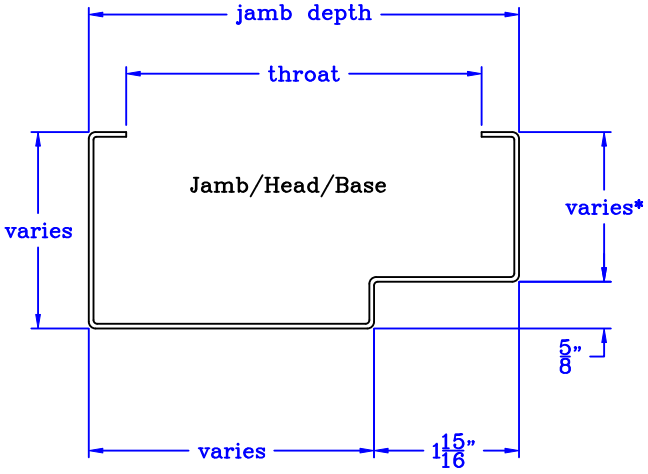


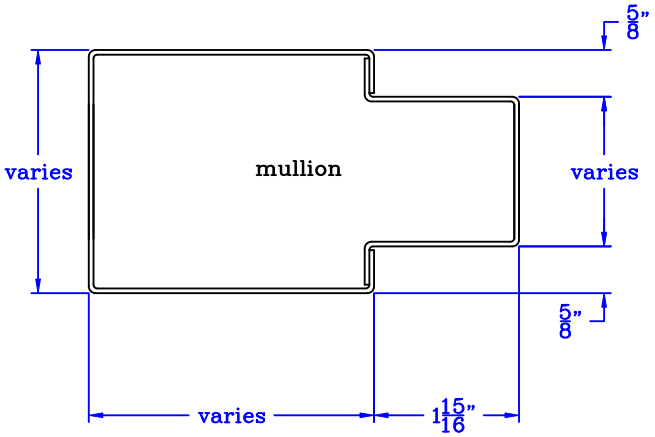


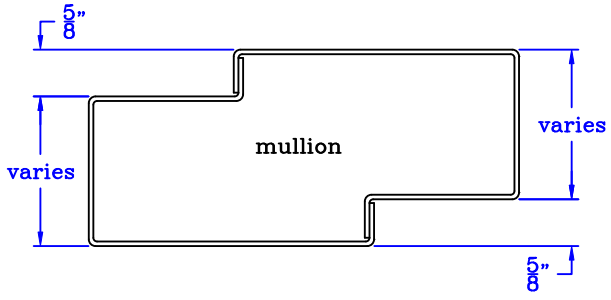
Rough opening for borrowed lite and for sidelite and transom: overall width - 2"
: overall height - 2"

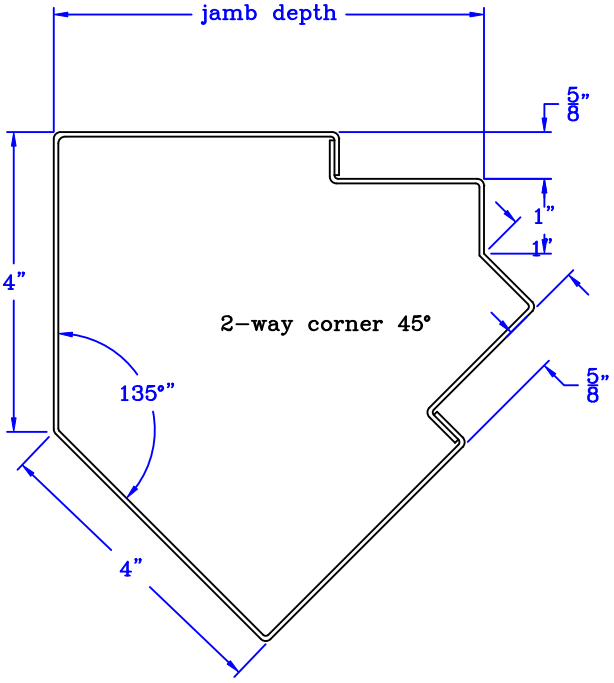
Glazing bead always on door side

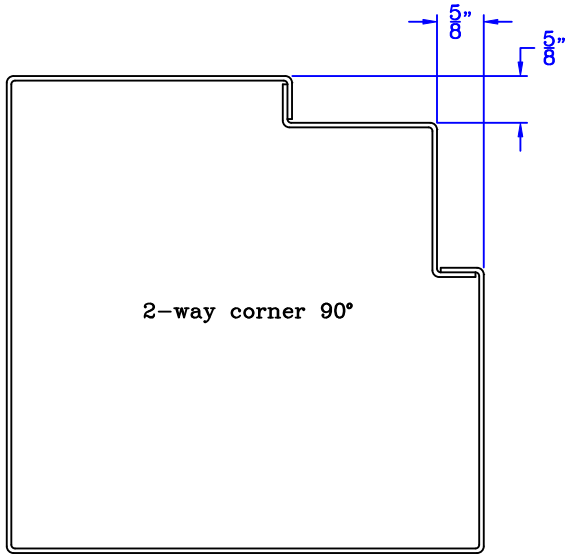
Single rabbet profile, S
Standard Series (SR)





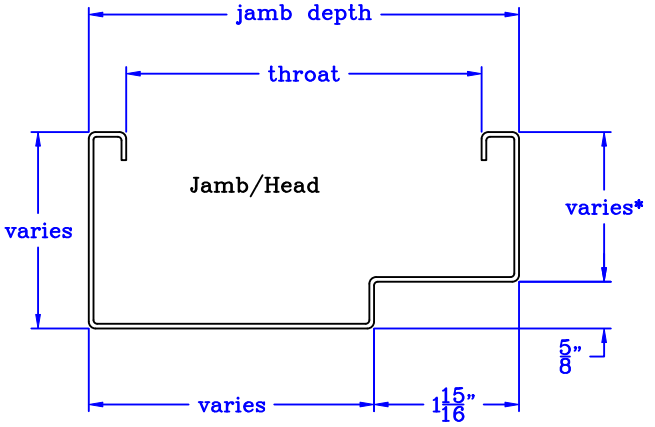


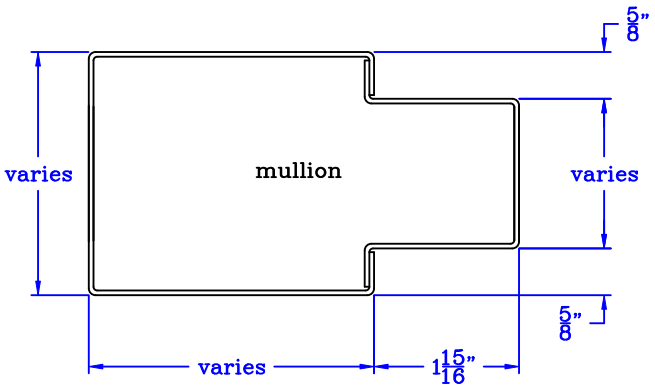


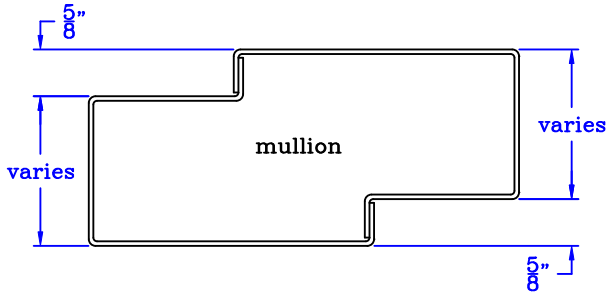


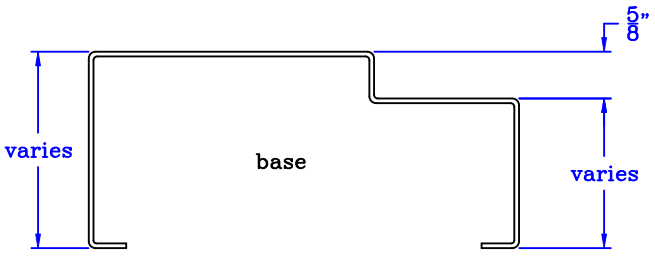
*S1 model : 2" face door side
S2 model : 1 3/8" face on door side
Minimum 2-5/8"JD
Glazing bead side per handing

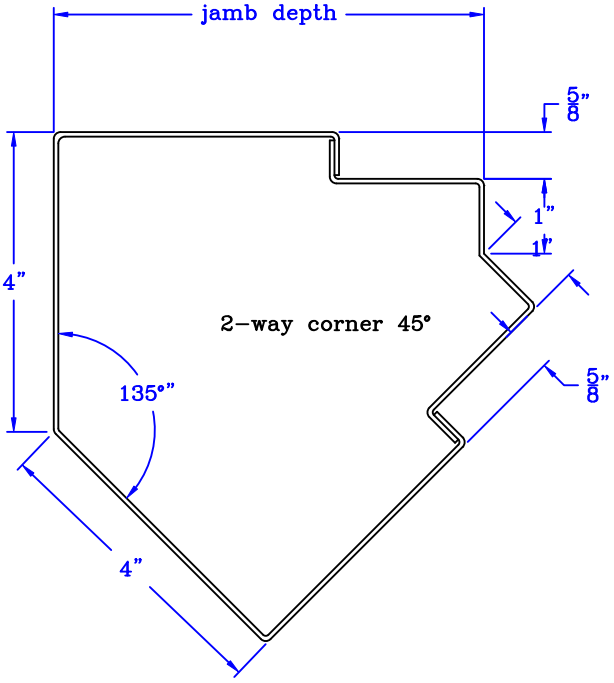
Single rabbet profile, S
Drywall/Pre-drywall Series (DW/DR)

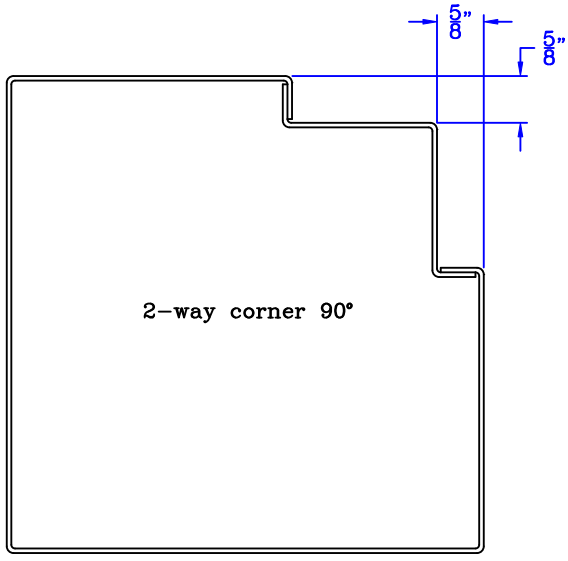






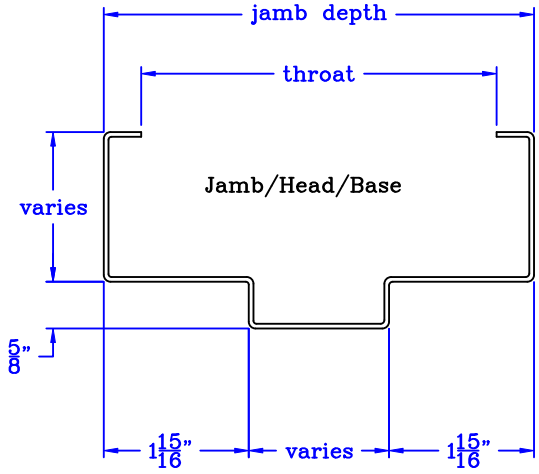


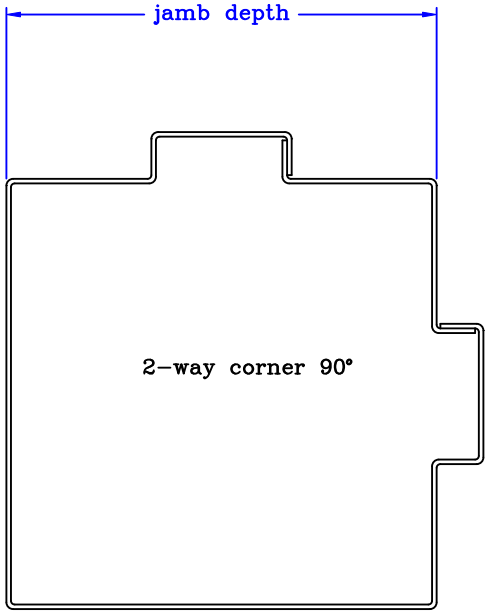


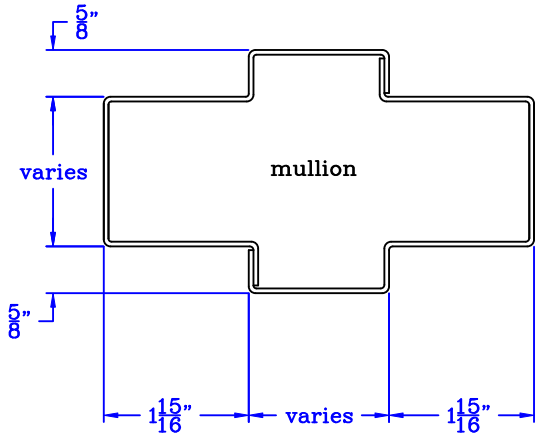


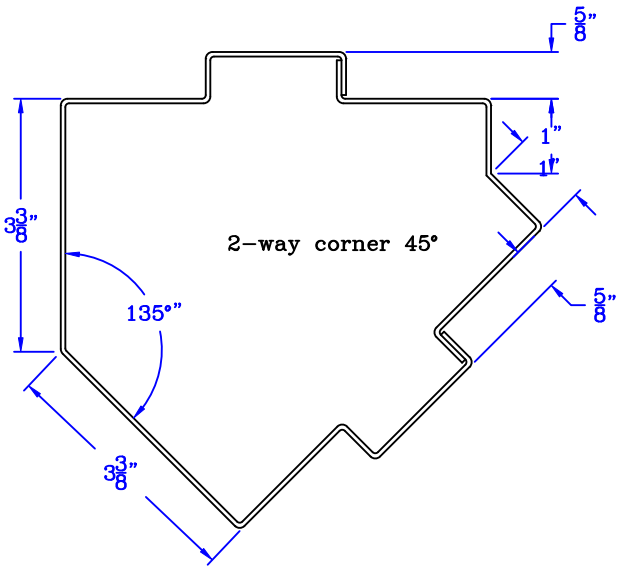
*S1 model : 2" face door side
S2 model : 1 3/8" face on door side
Minimum 2-5/8"JD
Glazing bead side per handing

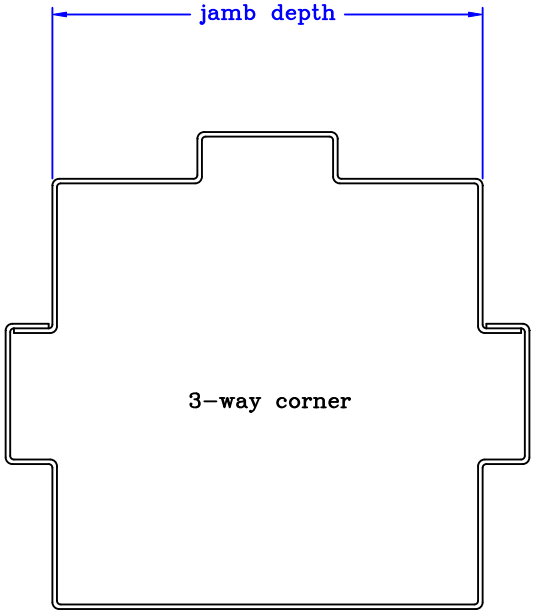
Double rabbet profile, D
Standard Series (SR)







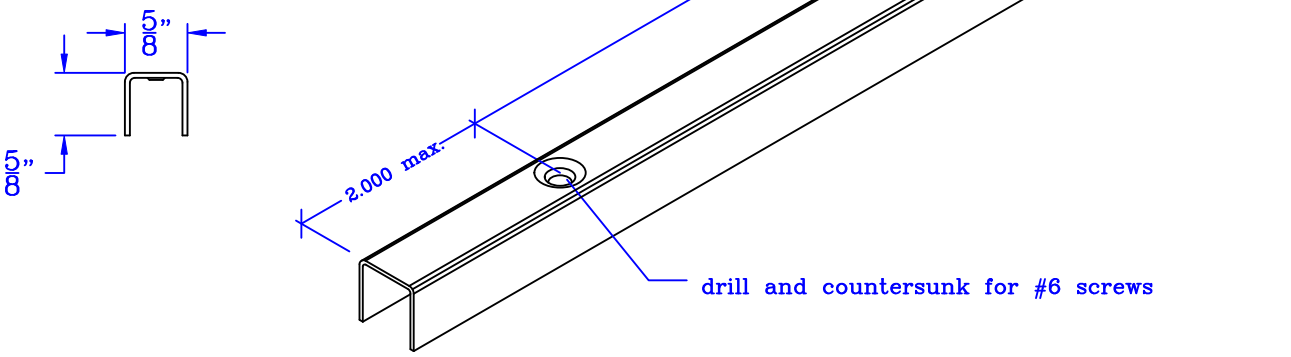




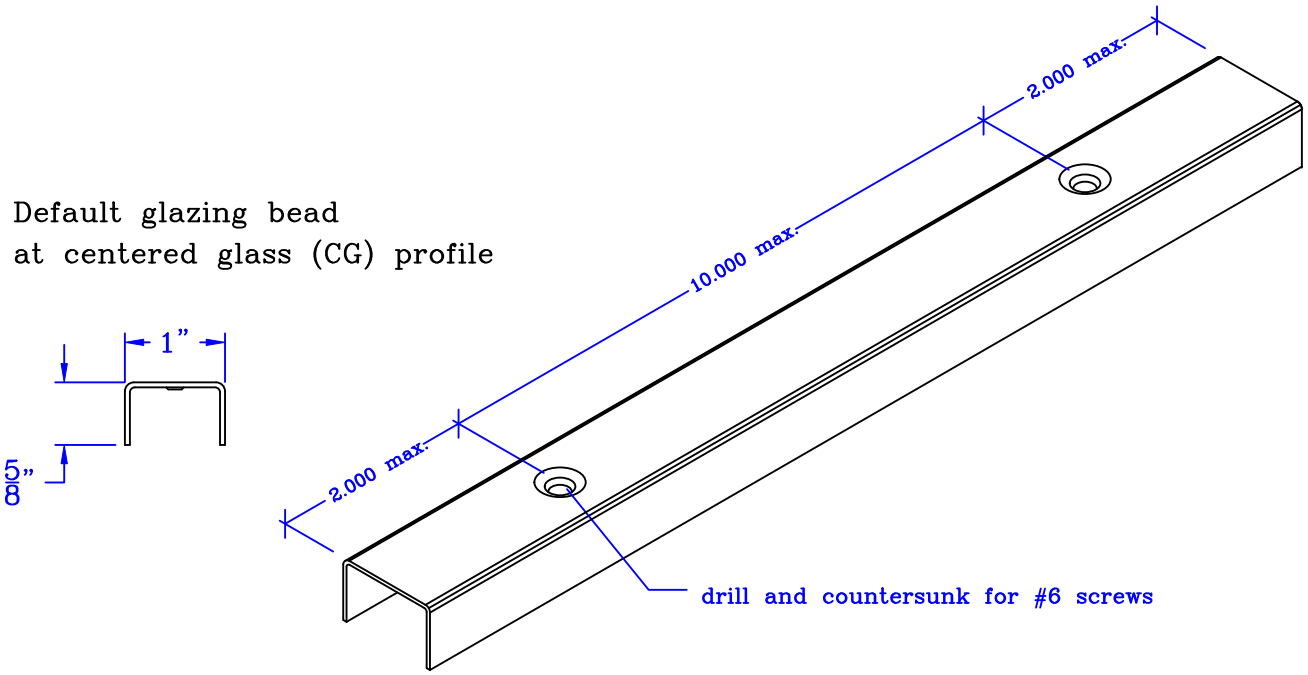
Glazing bead side per handing

Glazing bead

Default glazing bead



Default glazing bead
at centered glass (CG) profile



DE LA FONTAINE

OPTIONS

DE LA FONTAINE

OPTIONS – DOOR HARWARE OPTIONS PAGE

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OPTIONS – DOOR HARWARE OPTIONS PAGE

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OPTIONS – ENGINEERED DOOR OPTIONS PAGE

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OPTIONS – ENGINEERED DOOR OPTIONS PAGE

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OPTIONS – VISION KIT AND LOUVERS PAGE

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OPTIONS – VISION KIT AND LOUVERS PAGE

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OPTIONS – FRAME HARDWARE OPTIONS PAGE

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OPTIONS – FRAME HARDWARE OPTIONS PAGE

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OPTIONS – FRAME HARDWARE OPTIONS PAGE

Closers

Coordinator

DE LA FONTAINE

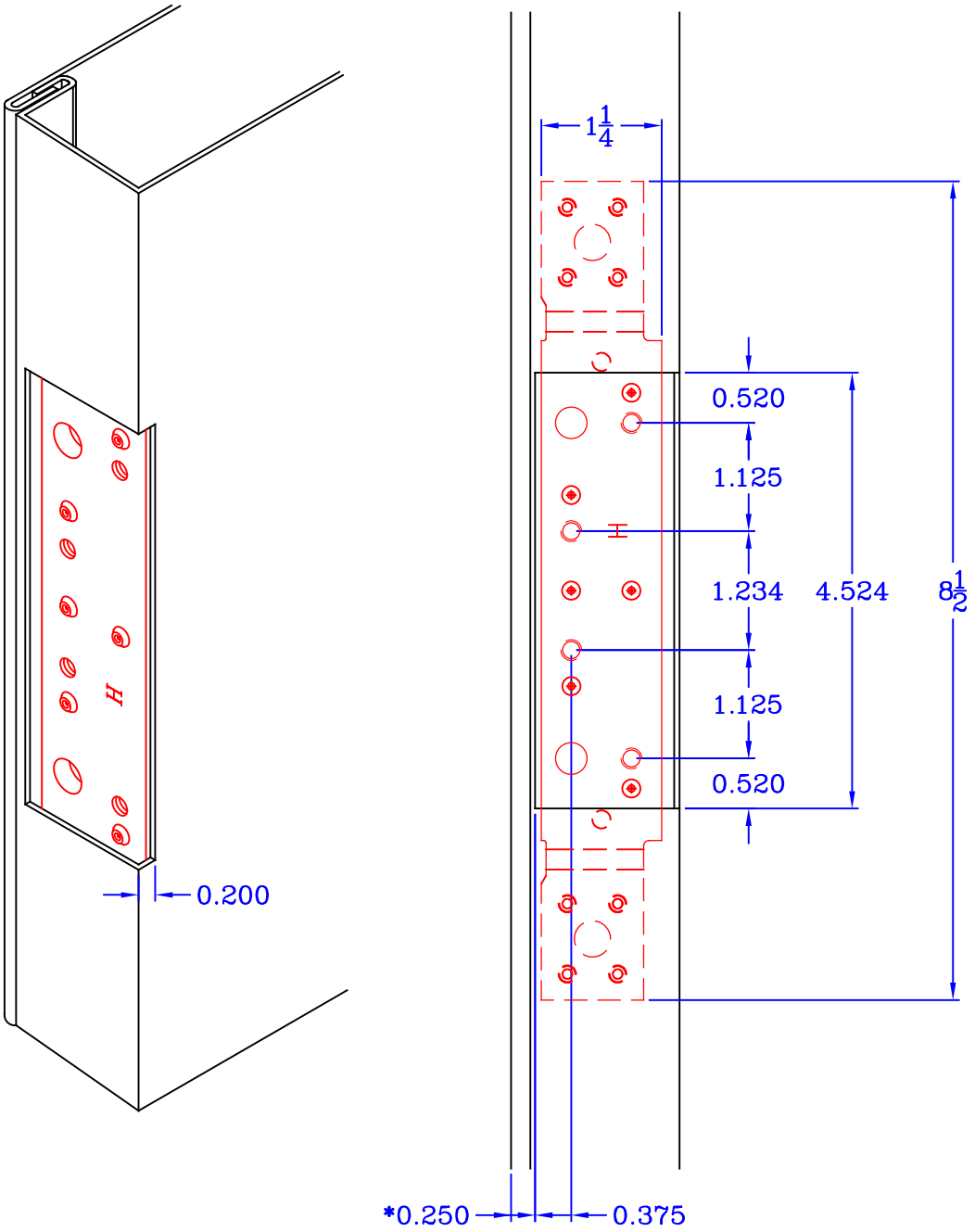
OPTIONS – ENGINEERED FRAME OPTIONS PAGE

DE LA FONTAINE

OPTIONS – ENGINEERED FRAME OPTIONS PAGE

4 1/2" standard weight hinge reinforcement (0.134), 7ga

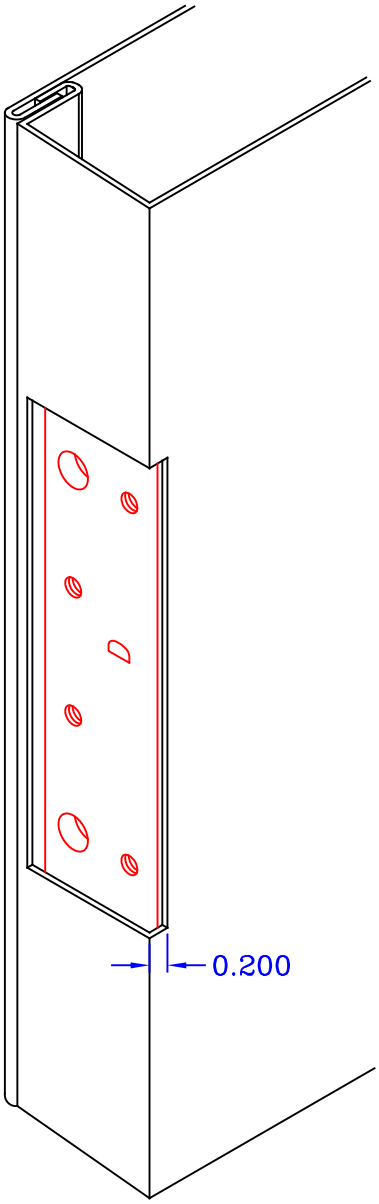
Projection welded

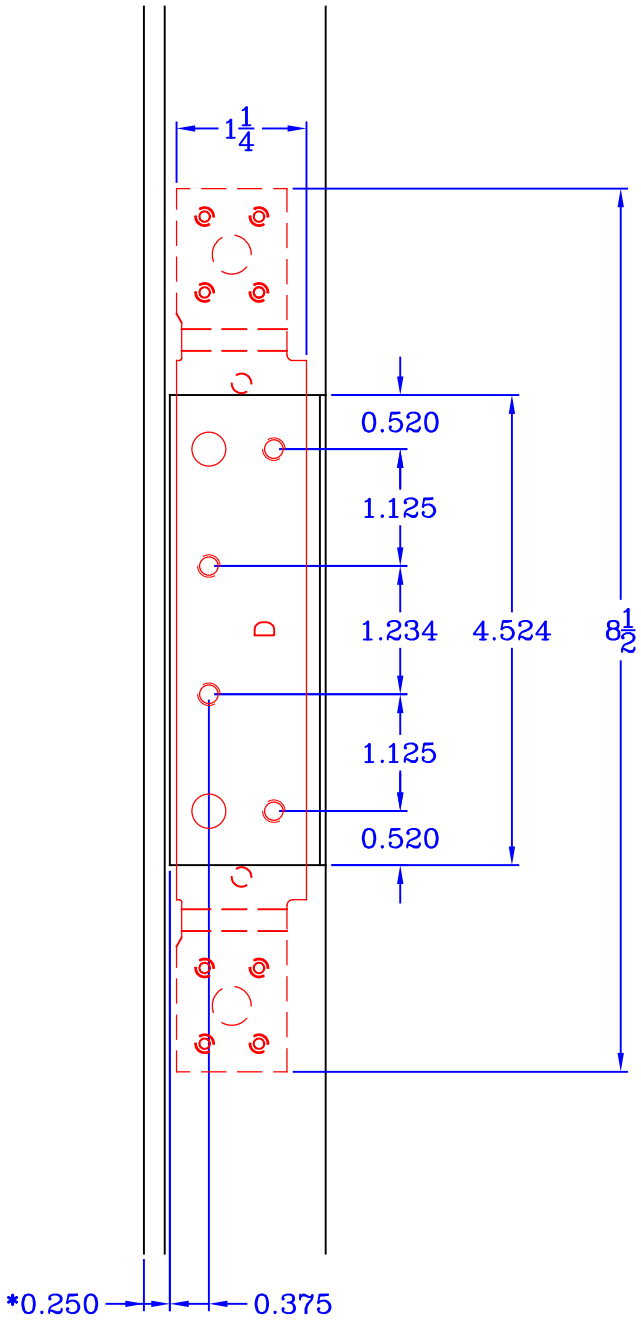


3/8" recommended backset on frame.
* Maybe greater for 16 and thicker gage door.
** Tested screw hold for 12-24: 1,200 lbf (per screw)

4 1/2" heavy weight hinge reinforcement (0.180), 7ga

Projection welded



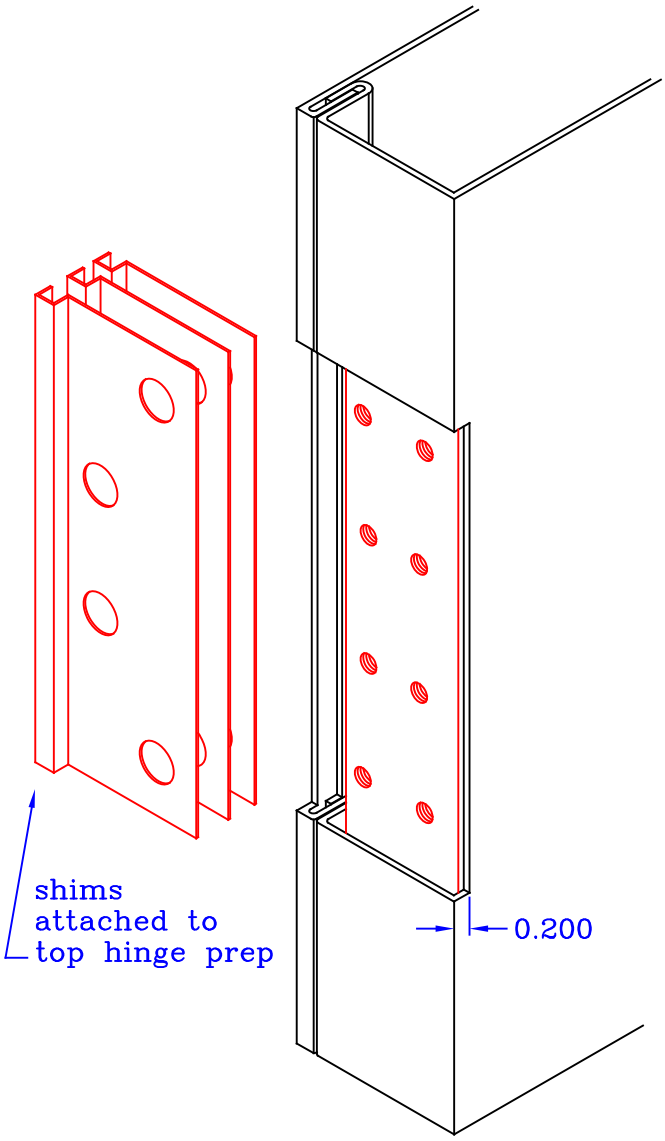


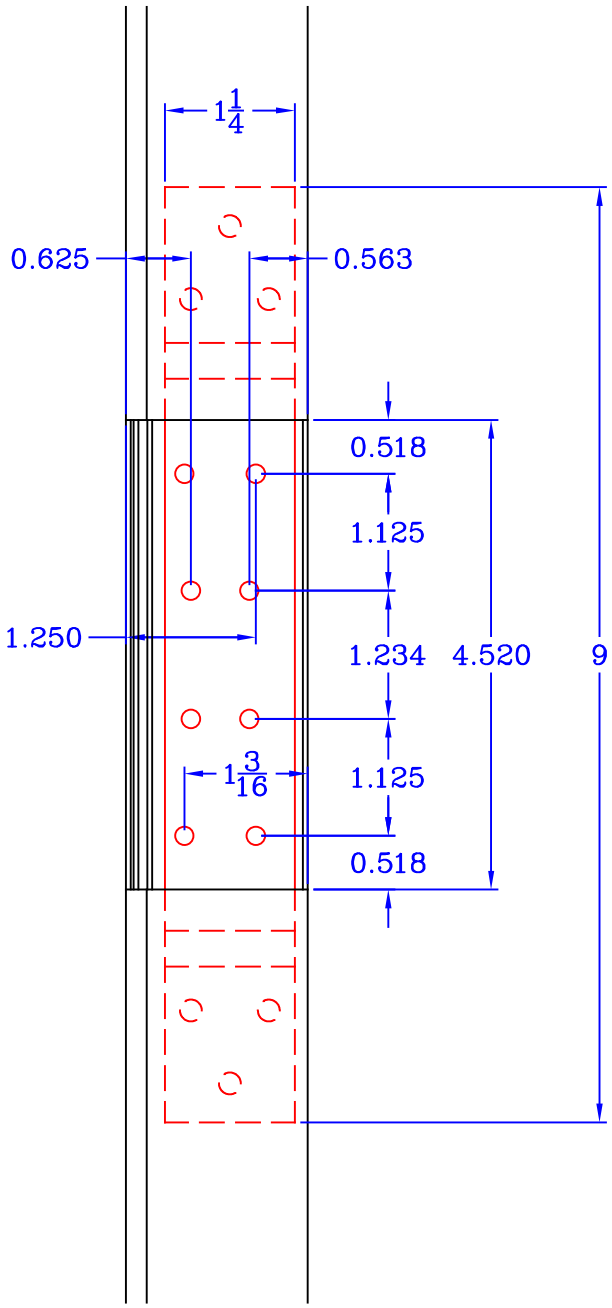
45H

3/8" recommended backset on frame.
* Maybe greater for 16 and thicker gage door.
** Tested screw hold for 12-24: 1,200 lbf (per screw)

4 1/2" reversible hinge reinforcement (0.134), 7ga

Projection welded





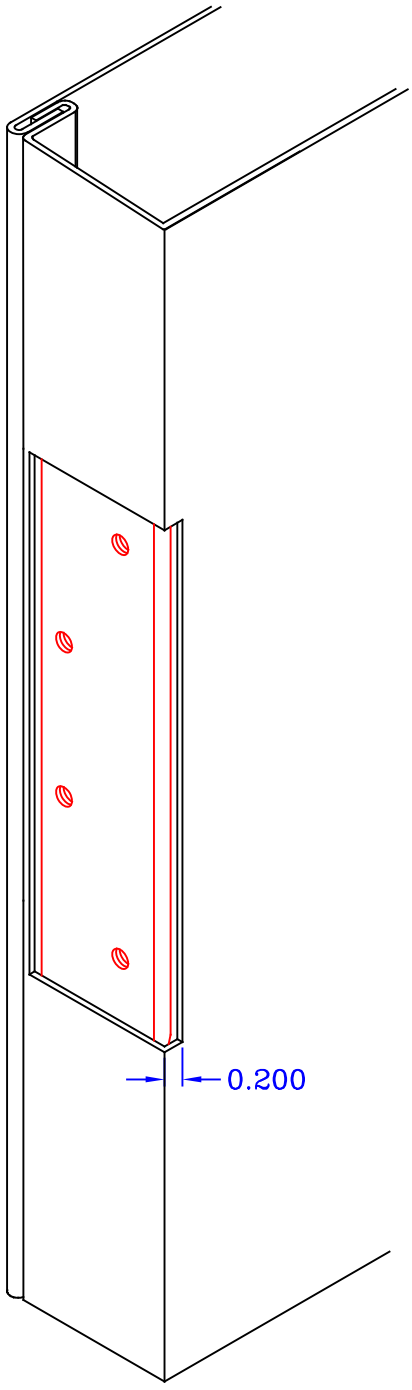
45R

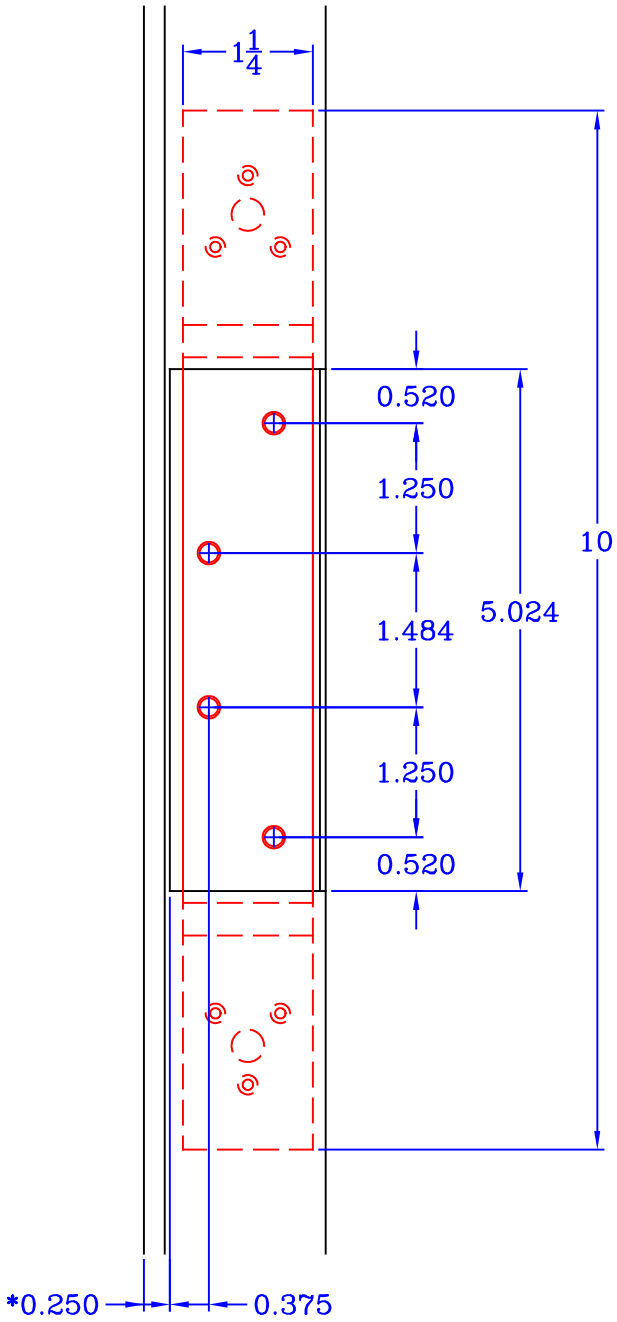
3/8" recommended backset on frame.

** Tested screw hold for 12-24: 1,200 lbf (per screw)

5" regular weight hinge reinforcement (0.146), 7ga

Projection welded

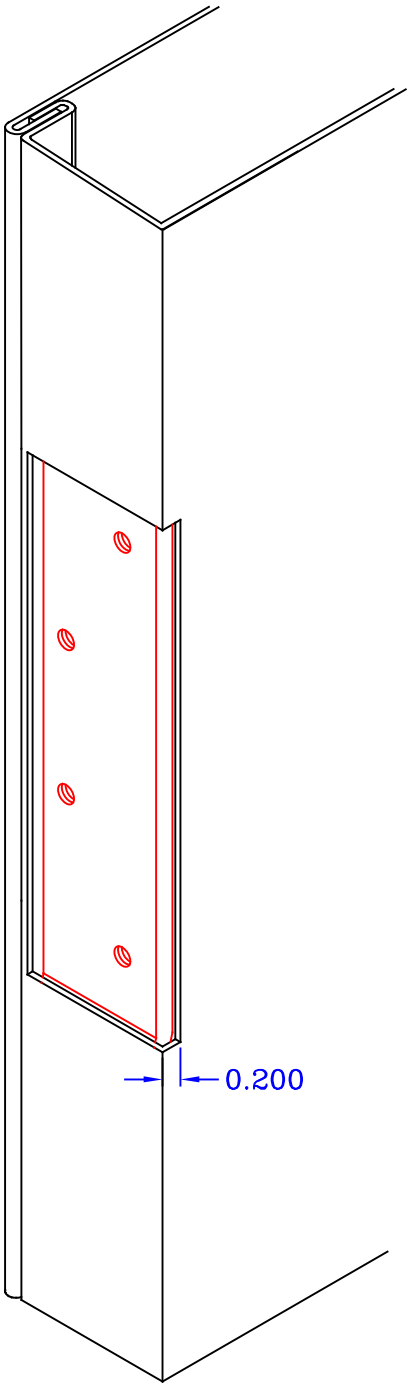


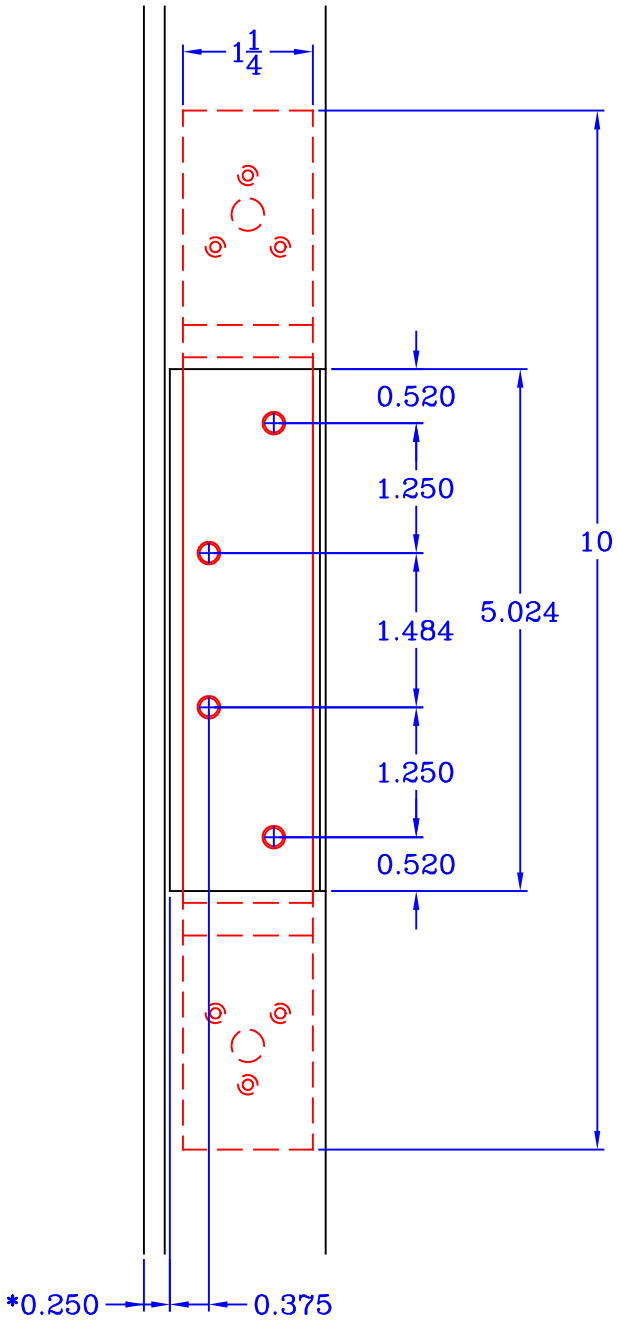


3/8" recommended backset on frame.
* Maybe greater for 16 and thicker gage door.

5" heavy weight hinge reinforcement (0.190), 7ga

Projection welded



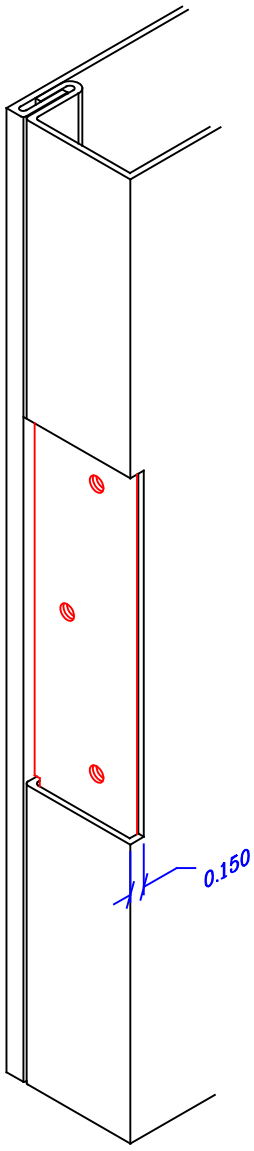


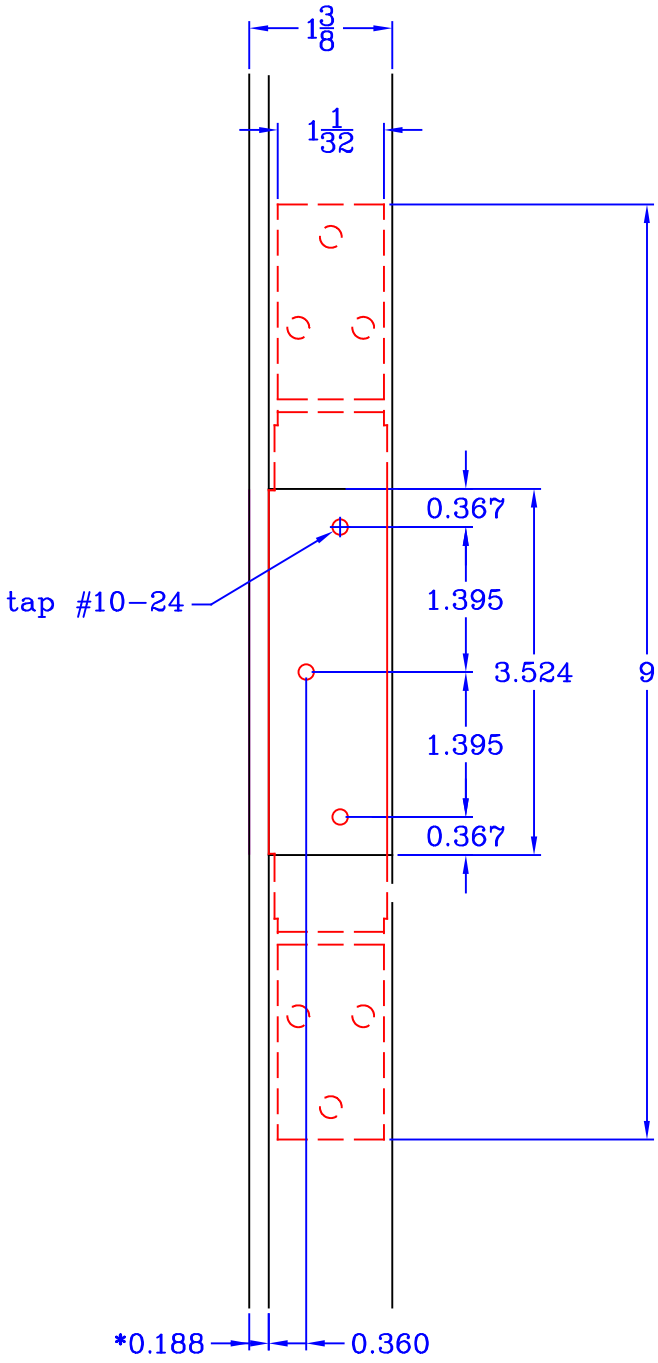
3/8" recommended backset on frame.

* Maybe greater for 16 and thicker gage door.

3 1/2" standard weight hinge reinforcement, 10ga

Projection welded

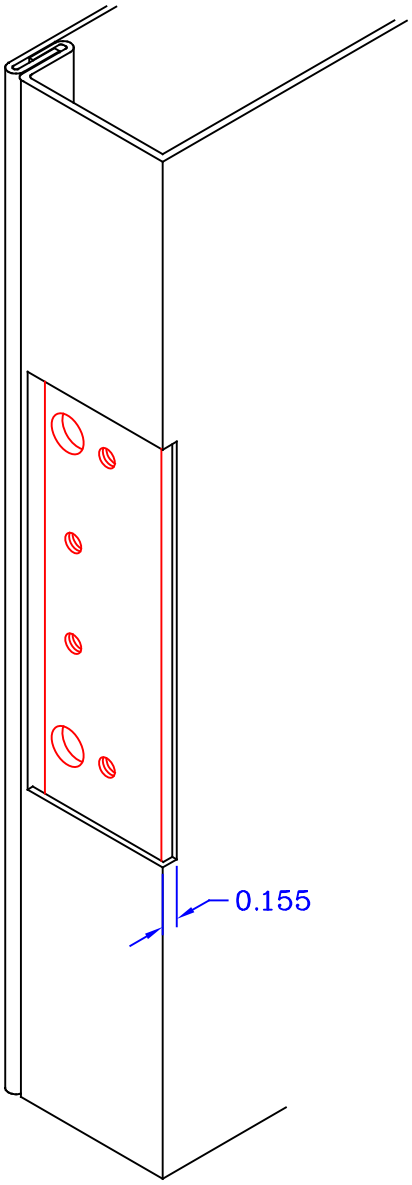


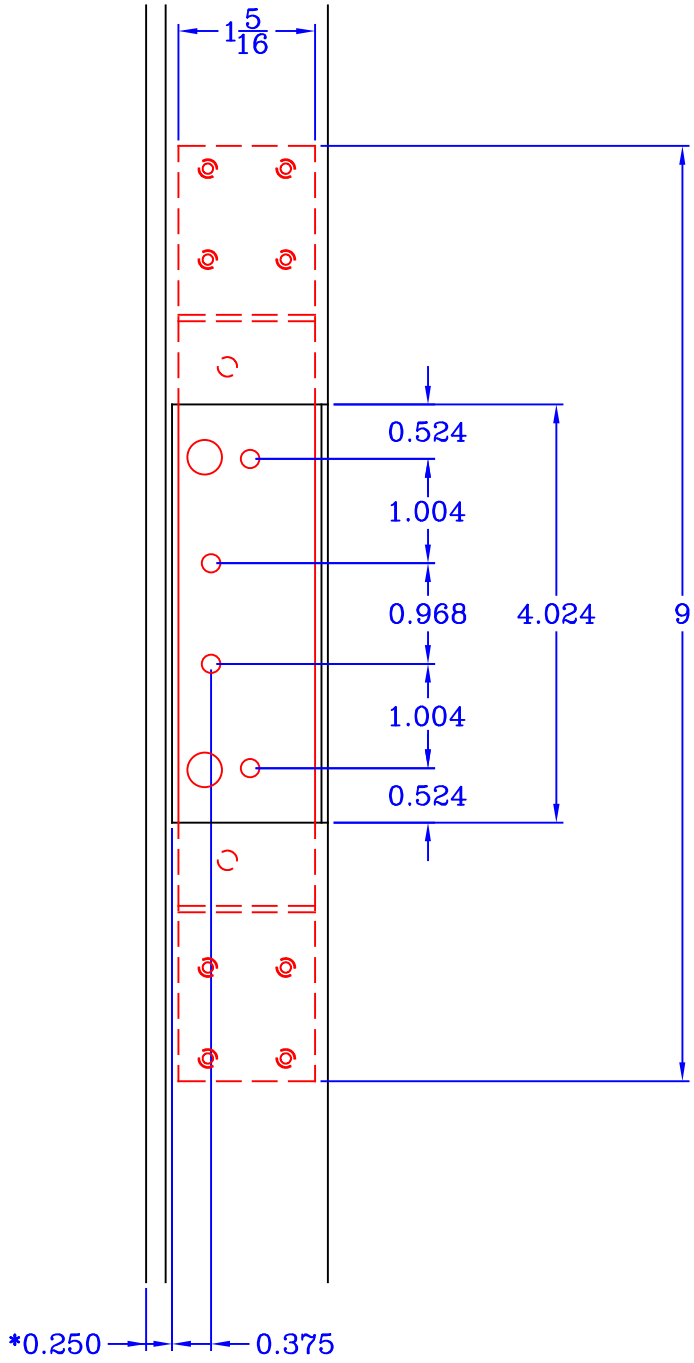


*5/16" recommended backset on frame.

4" regular weight hinge reinforcement , 10ga

Projection welded

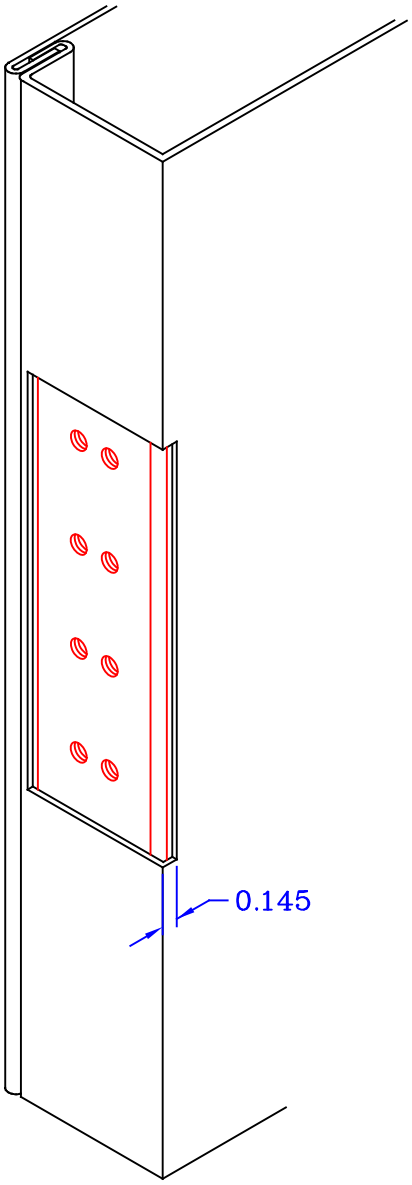


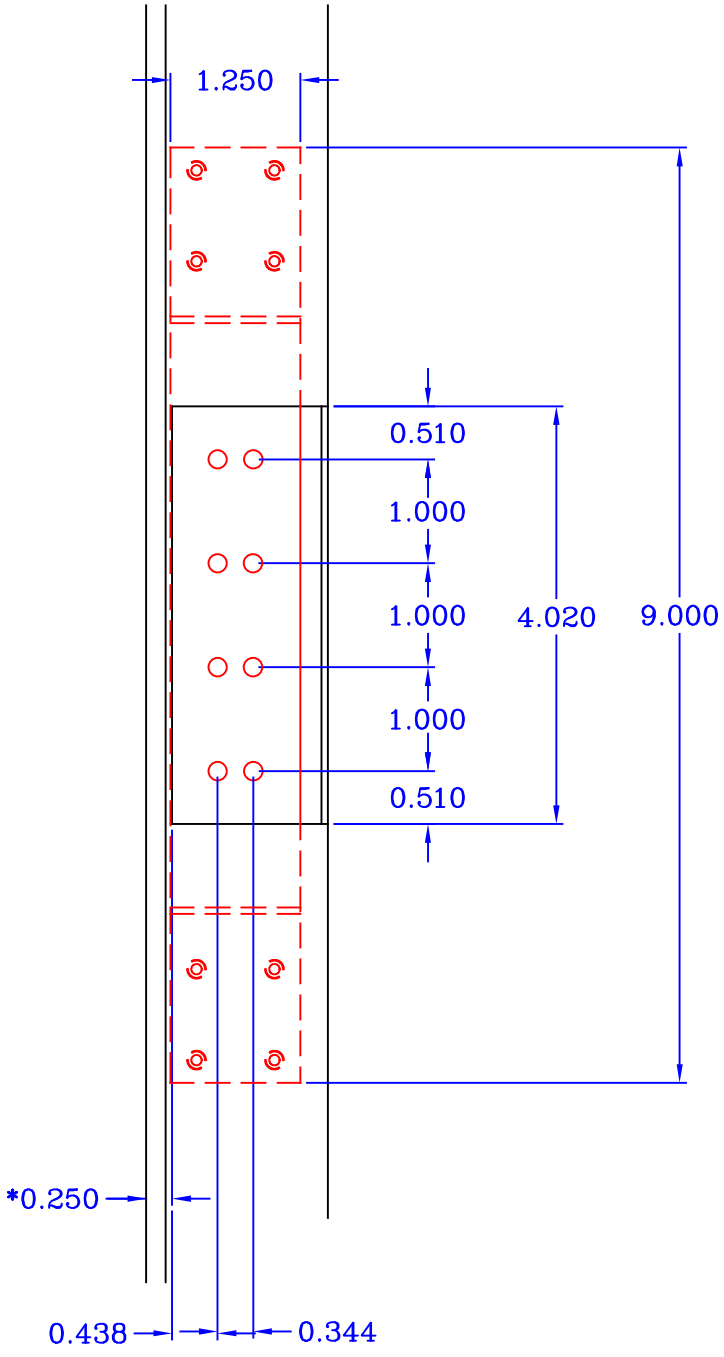


3/8" recommended backset on frame.
* Maybe greater for 16 and thicker gage door.

4" thin hinge reinforcement , 10ga

Projection welded

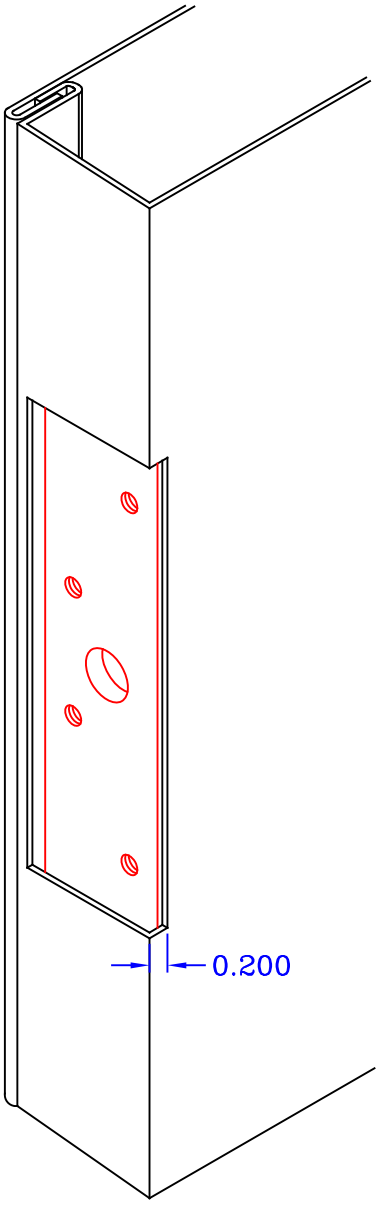


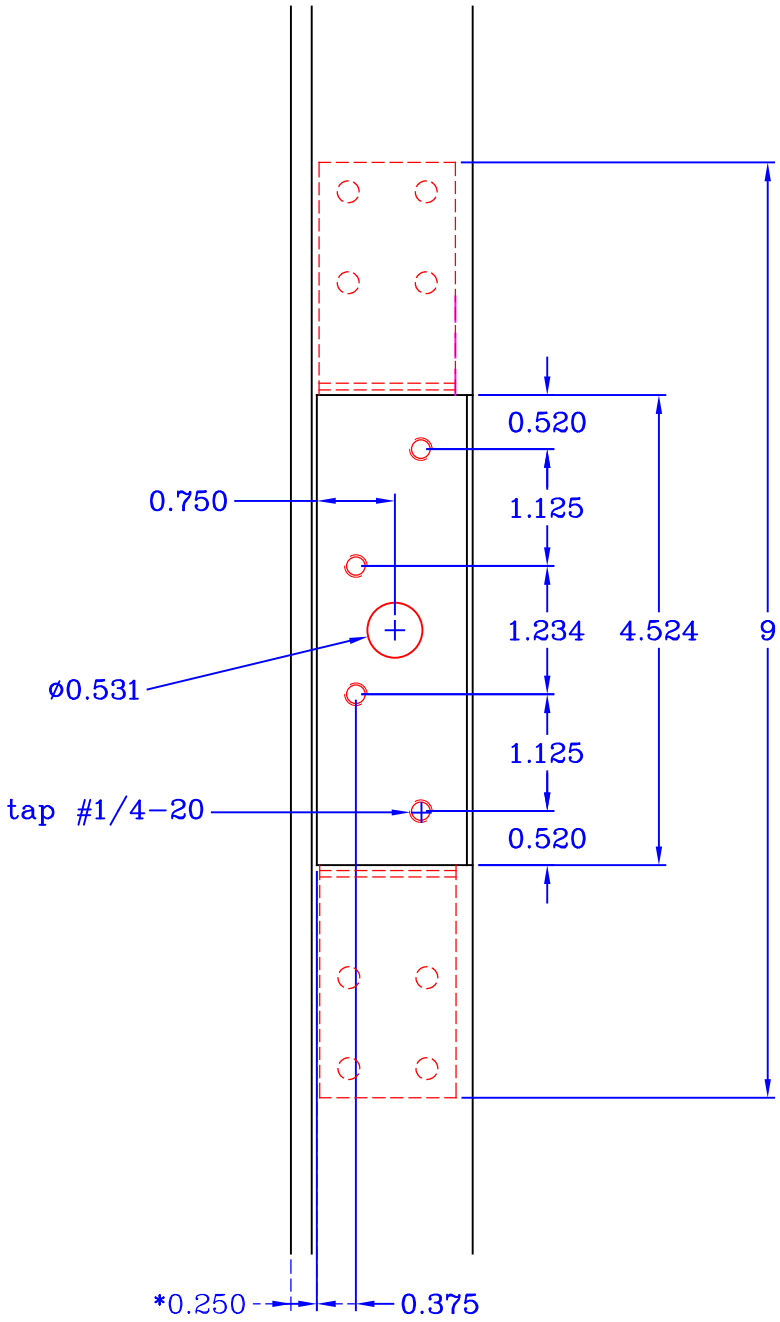


3/8" recommended backset on frame.
* Maybe greater for 16 and thicker gage door.

4 1/2" institutional hinge reinforcement (0.190), 7ga

Projection welded

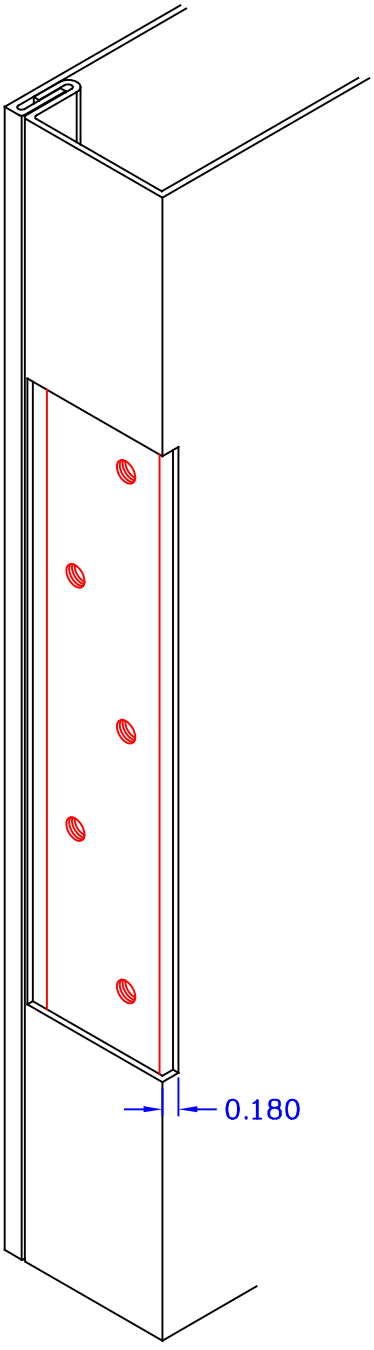


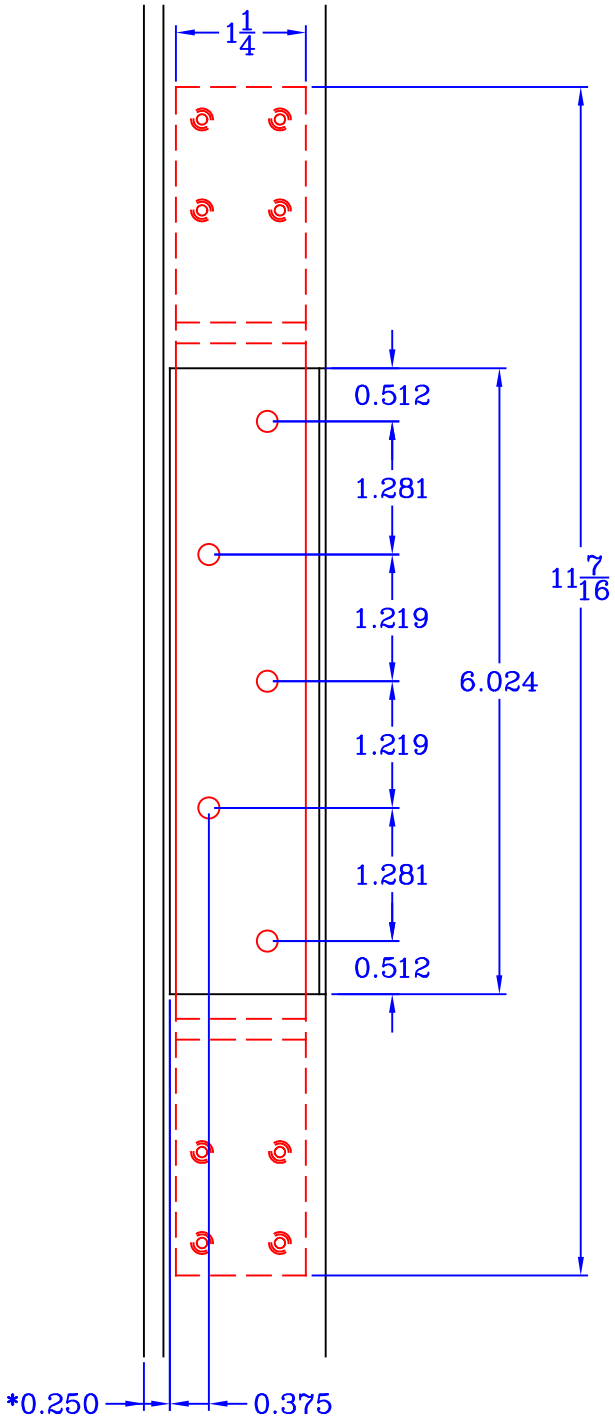


3/8" recommended backset on frame.
* Maybe greater for 16 and thicker gage door.

6" regular weight hinge reinforcement (0.160), 7ga

Projection welded

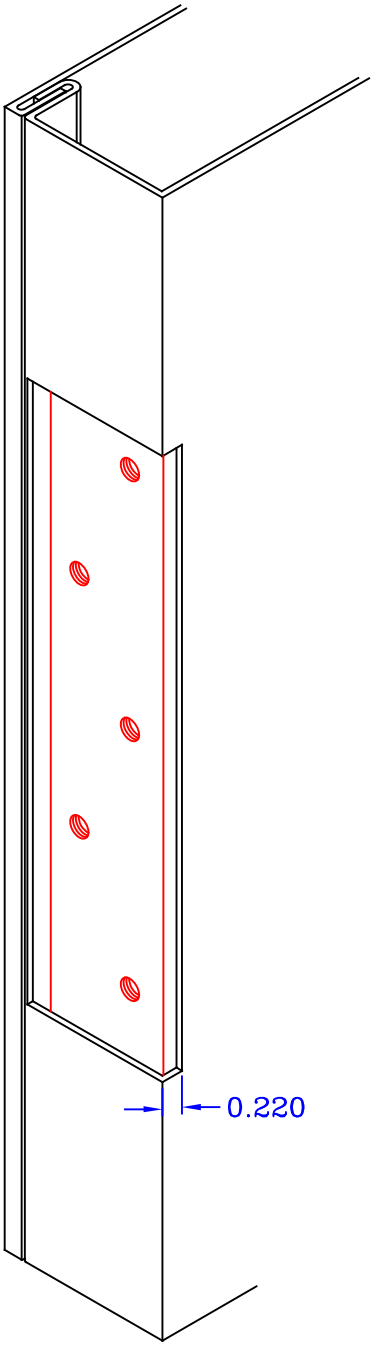


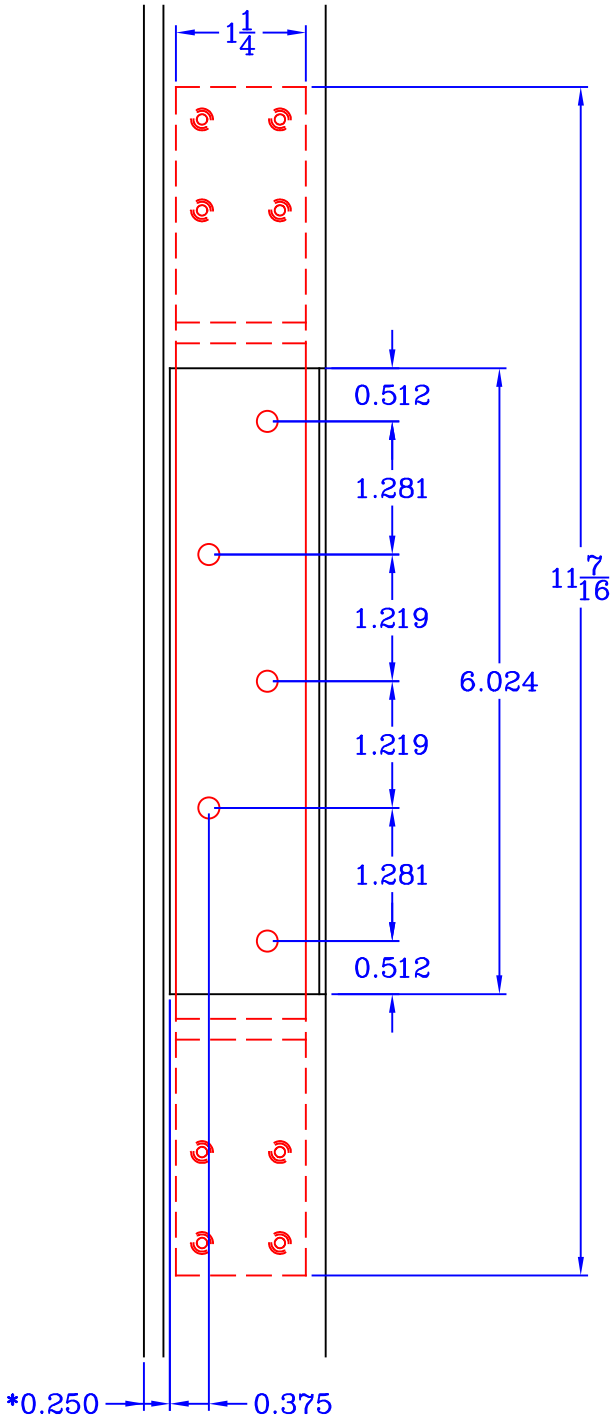


3/8" recommended backset on frame.
* Maybe greater for 16 and thicker gage door.

6" heavy weight hinge reinforcement (0.203), 7ga

Projection welded



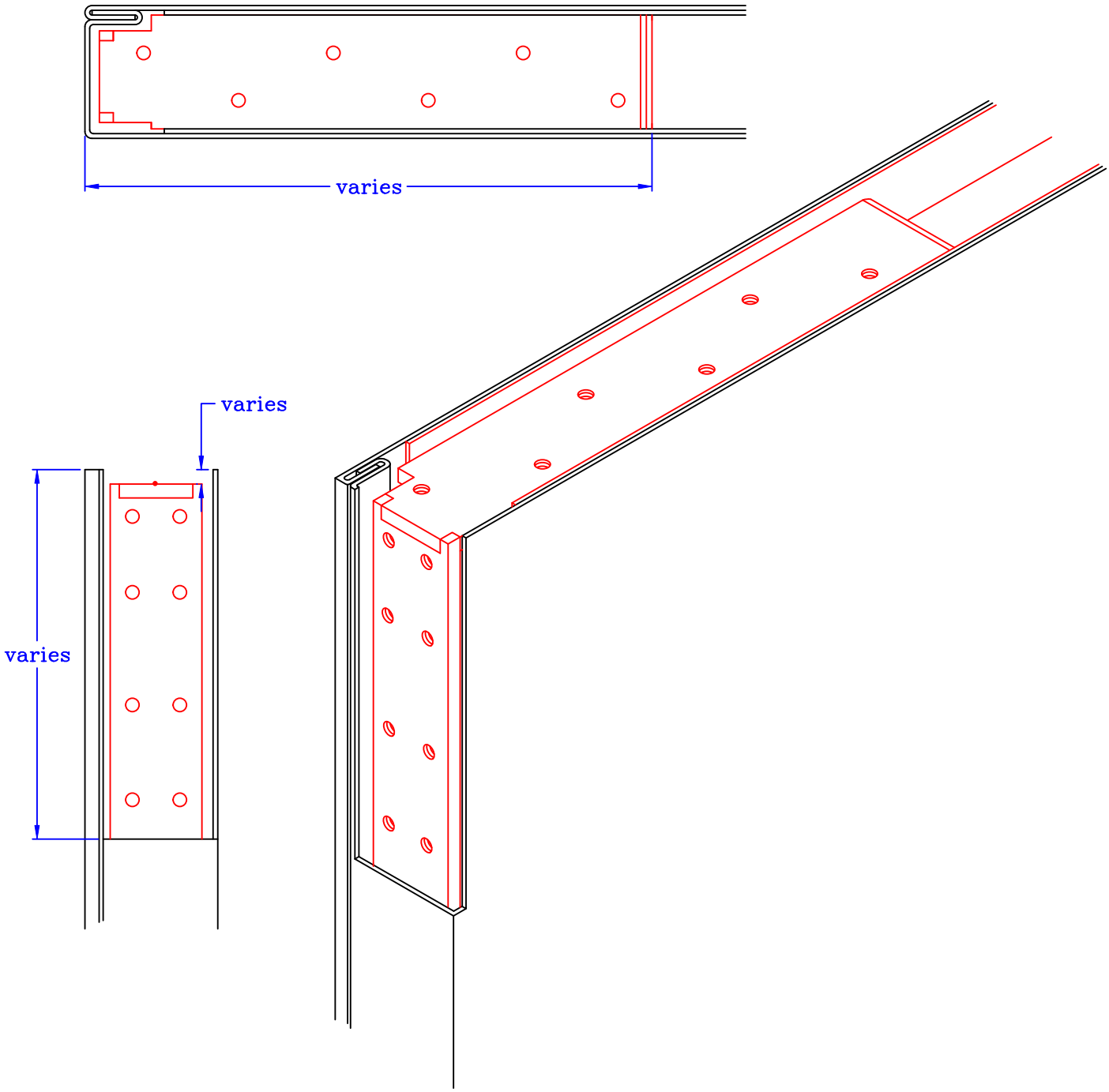


3/8" recommended backset on frame.

* Maybe greater for 16 and thicker gage door.

Prep for anchor hinge, 10ga

Projection welded

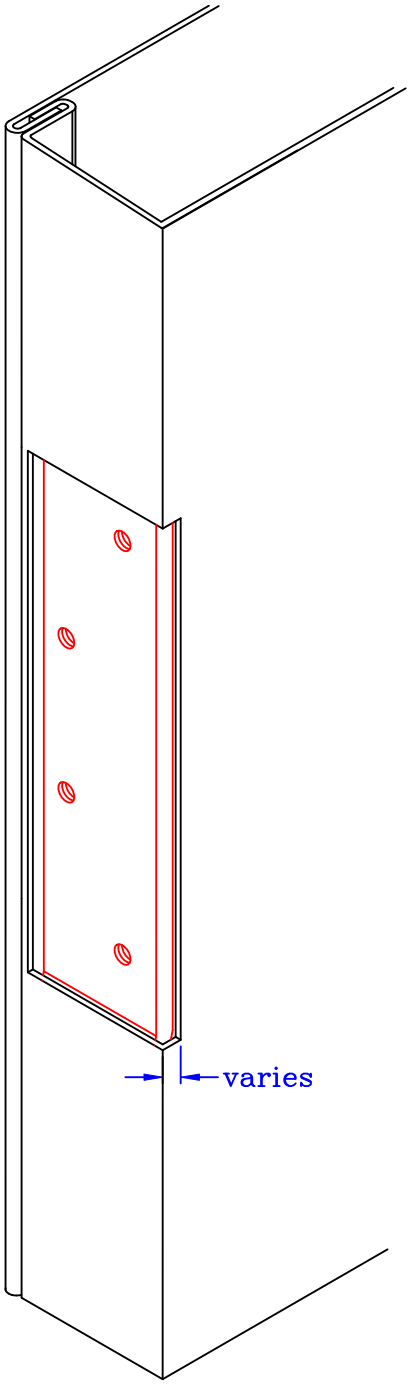


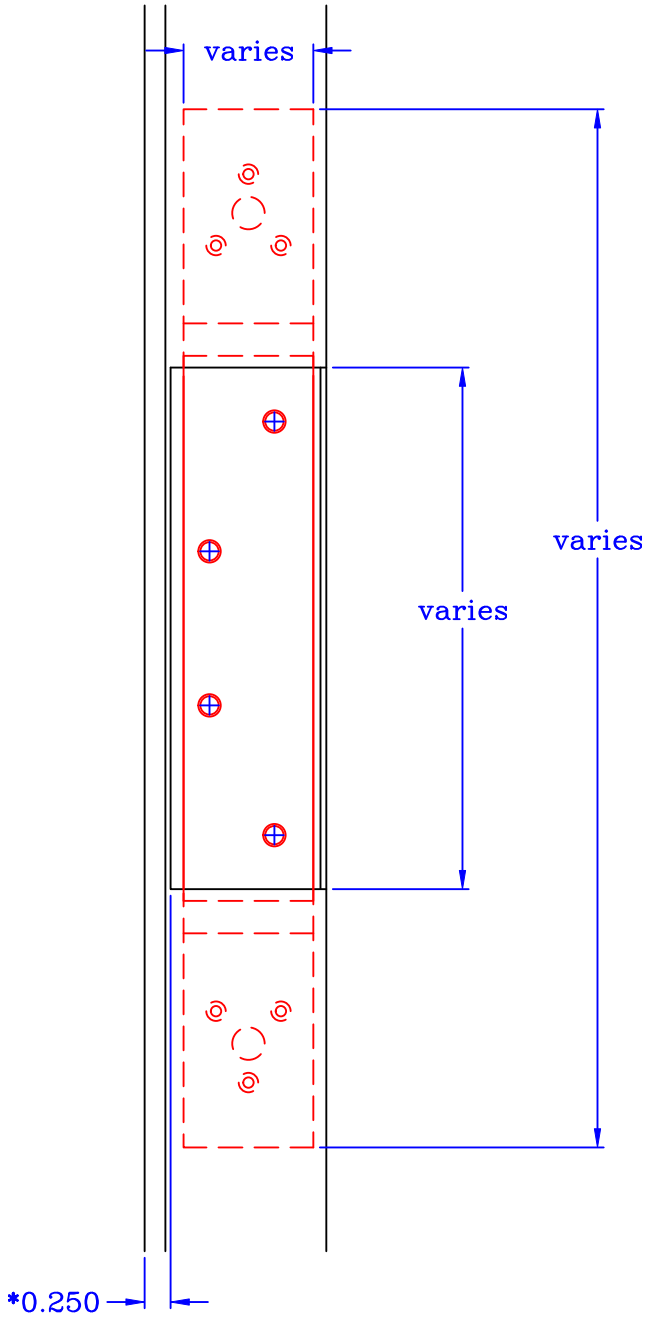
AH

* Hinge manufacturer's template to be provided

Double mortising of hinge reinforcement, 7ga

Projection welded



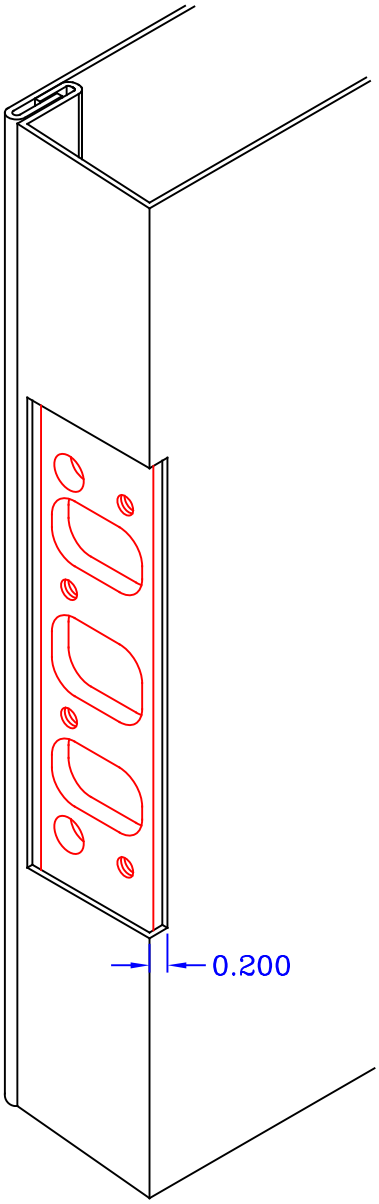


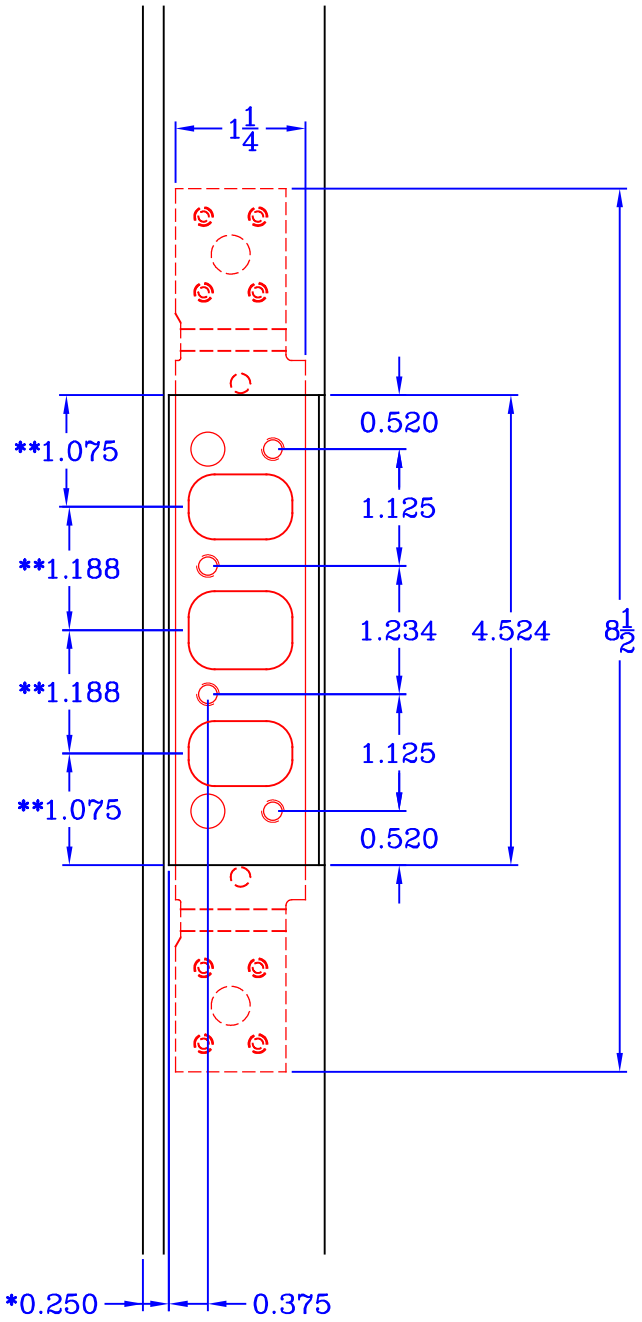
DBLM

3/8" recommended backset on frame.
* Maybe greater for 16 and thicker gage door.
Per butt hinge height, regular or Heavy-Duty

Prep. for electrical hinge, 7ga

Projection welded





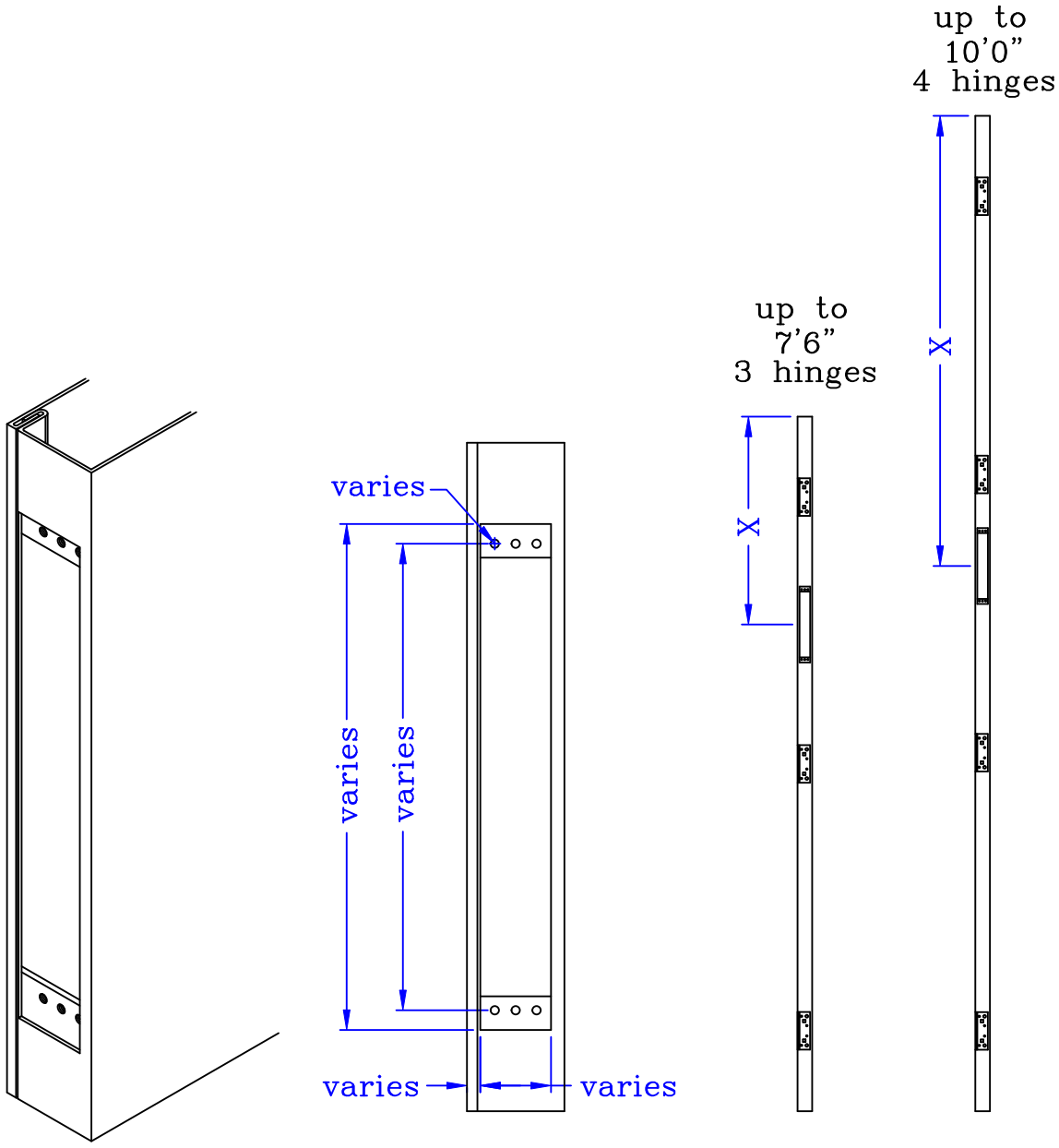
4 1/2" electric hinge prep. shown, also available for other heights.

* 3/8" recommended backset on frame. Maybe greater for 16 and thicker gage door.

** fits most of electric hinges, please verify toward model intented.

Prep. for electrical power transfer, 12ga

Projection welded

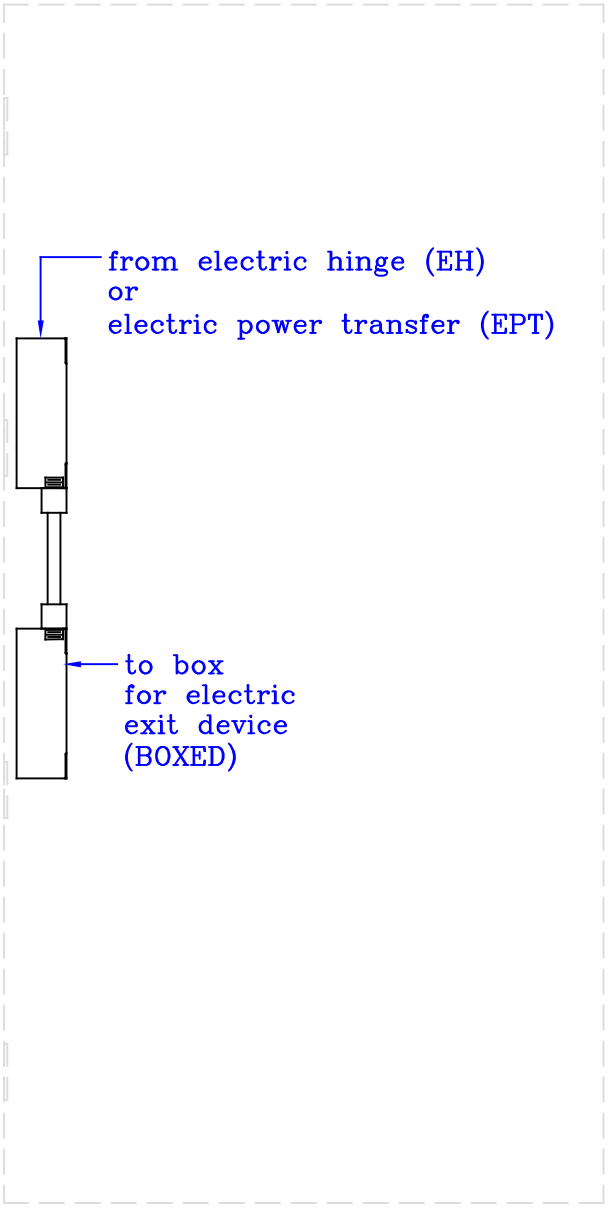


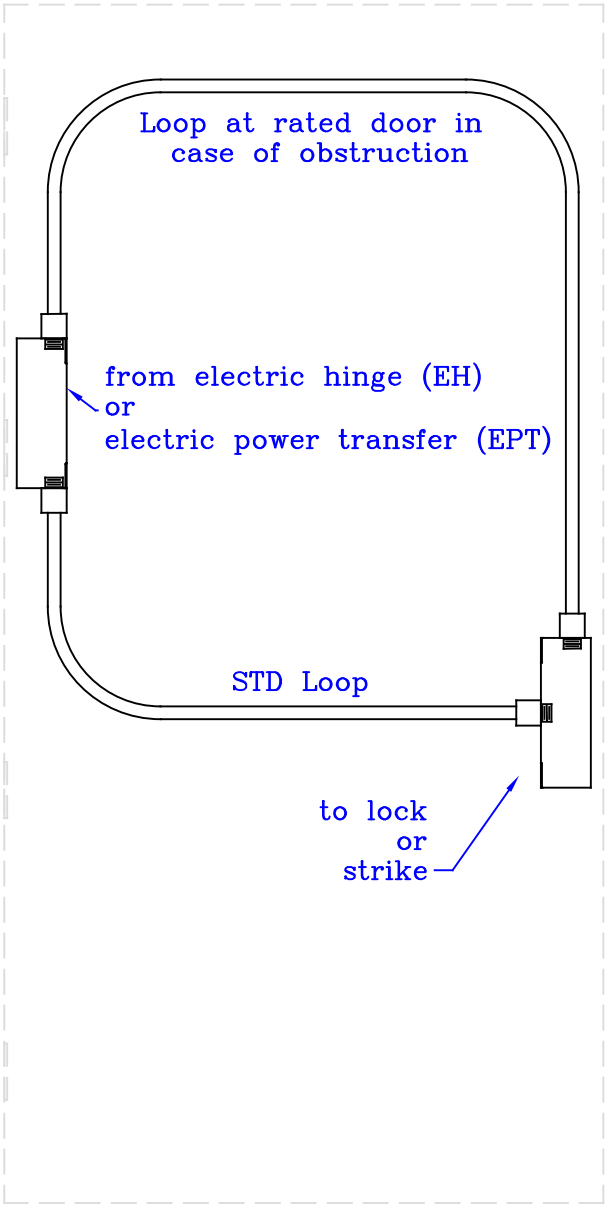
*manufacturer's template to be provided
**see page Q-1.2 for EPT location

EPT

Raceway for electrified hardware

3/4" interior diameter

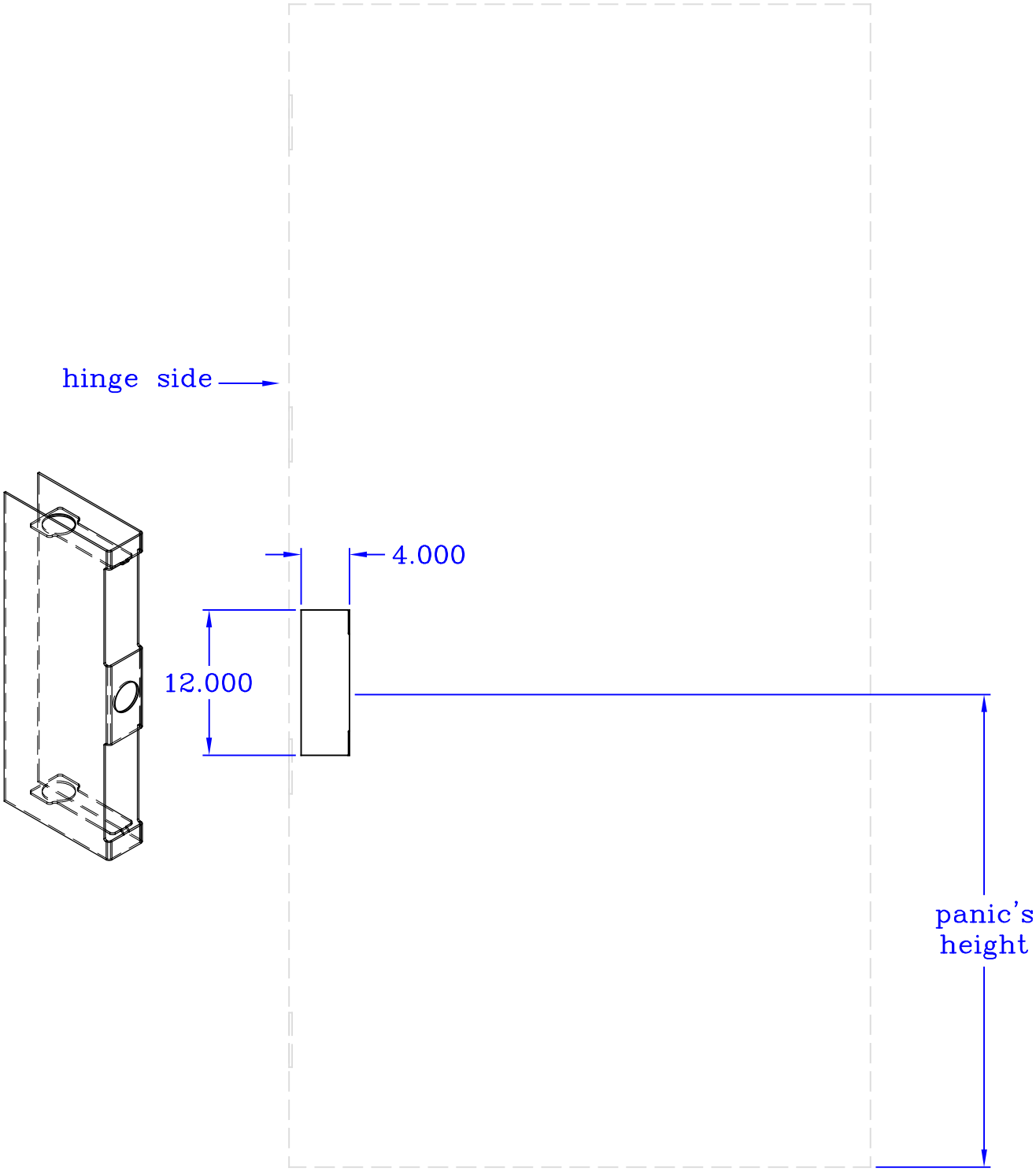




RACE

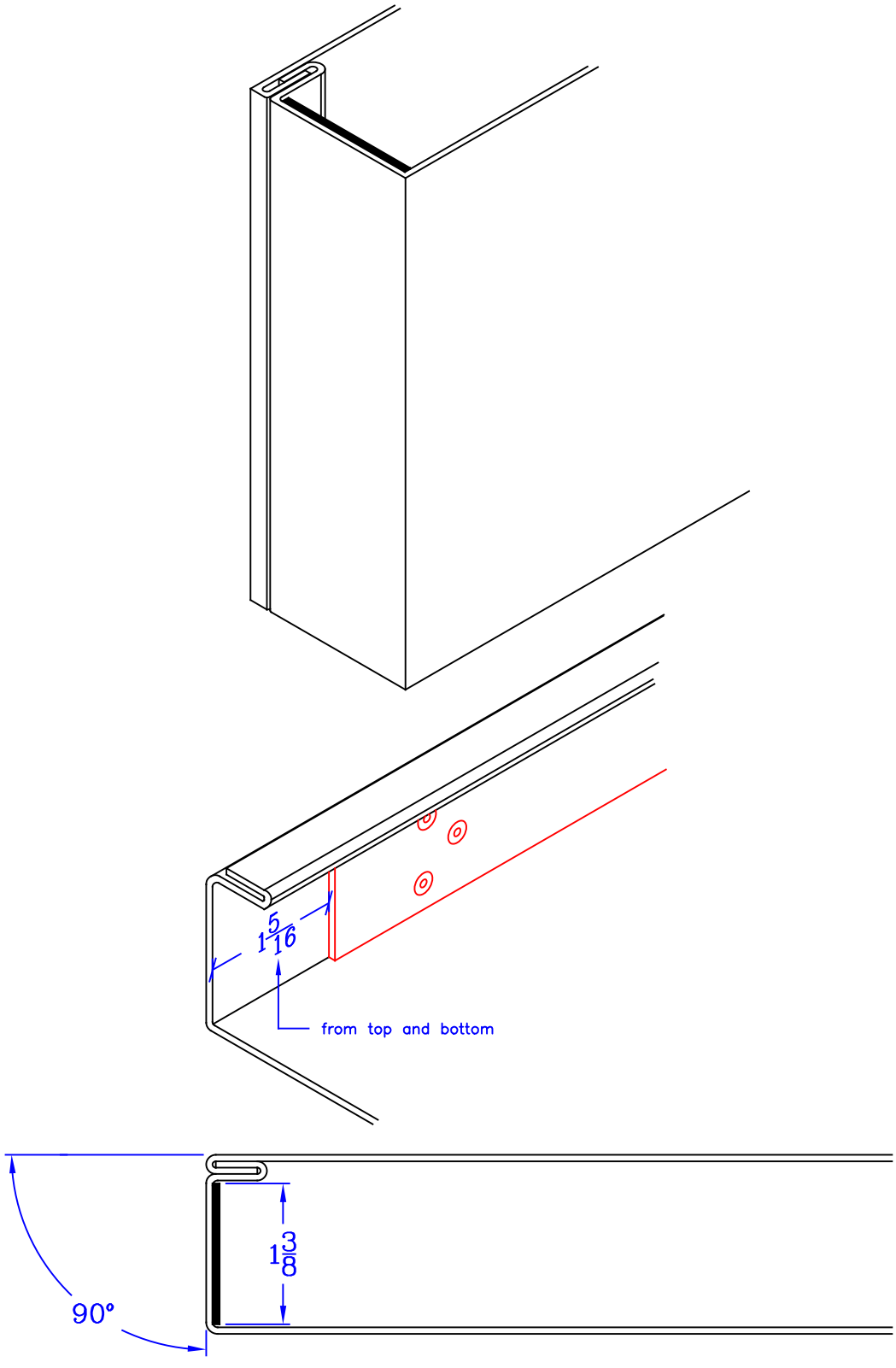
Wire in the raceway to pull electric connector through.

Box for electric exit device, 16ga



Concealed leaf continuous hinge reinforcement, 14ga

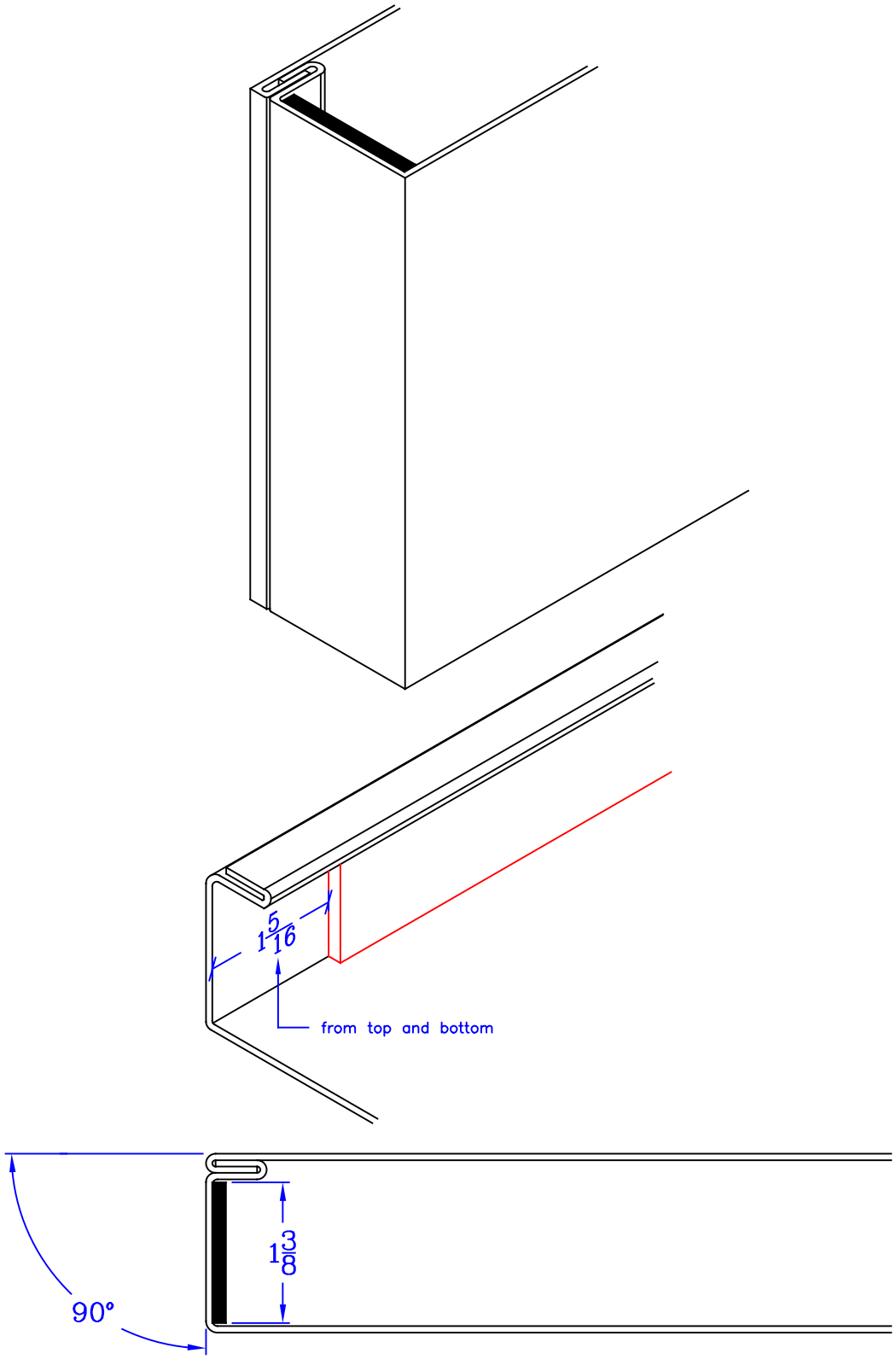
Projection welded



CCH

Concealed leaf continuous hinge reinforcement, 10ga

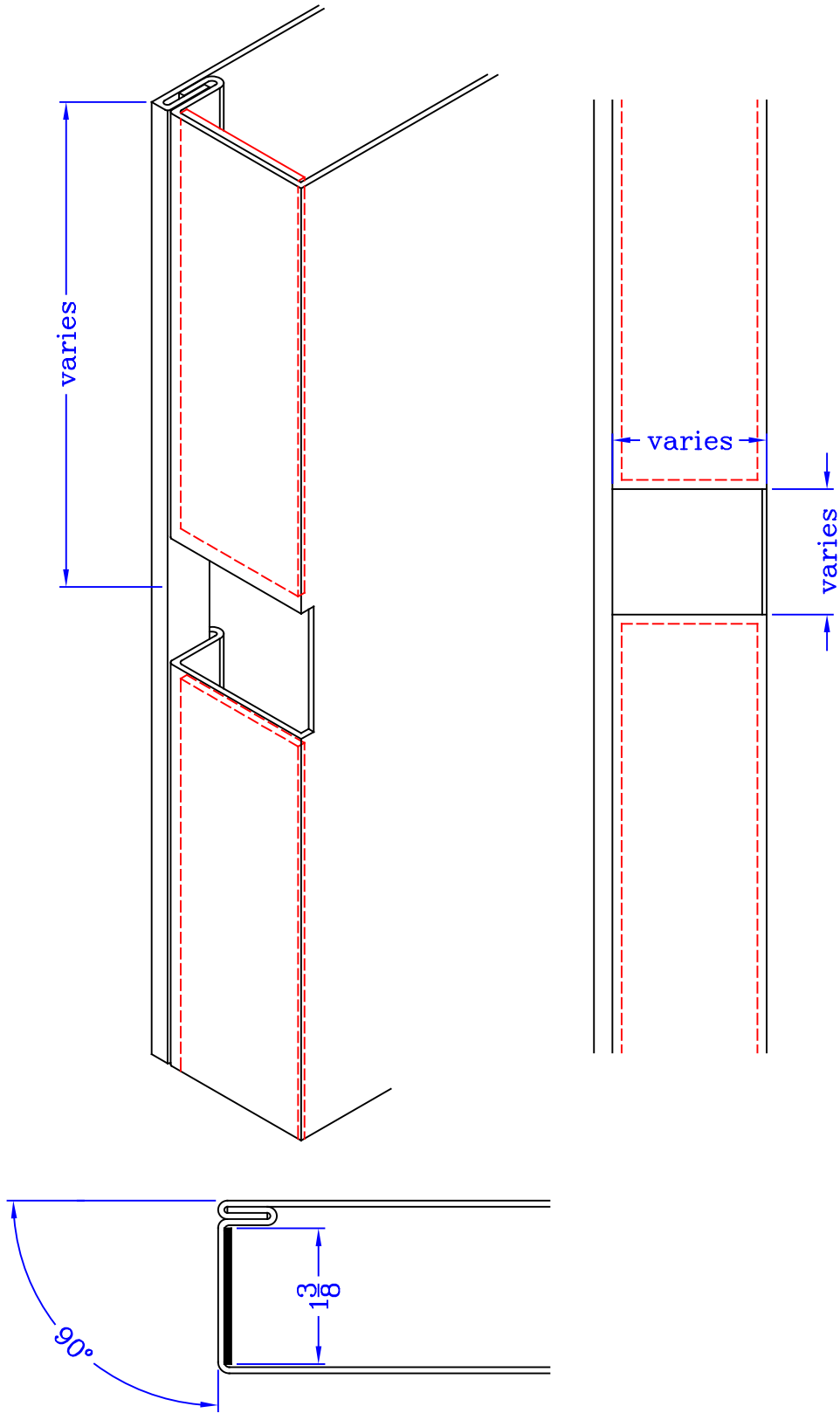
Plug welded



CCH10

Concealed leaf continuous electric hinge reinforcement, 14ga

Projection welded

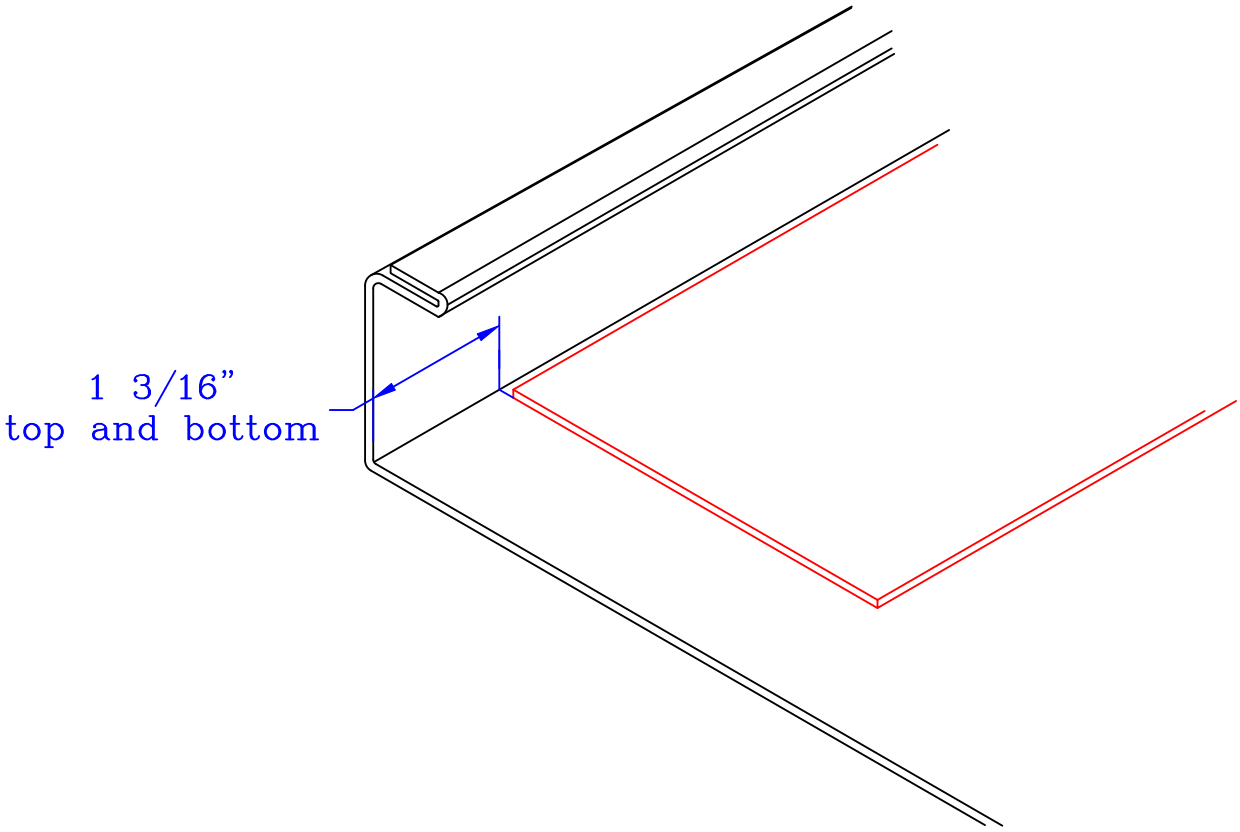


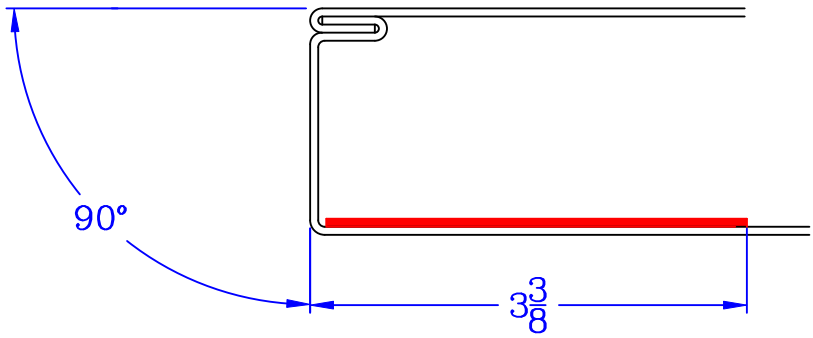
*manufacturer's template to be provided

CCEH

Surface continuous hinge reinforcement, 16ga

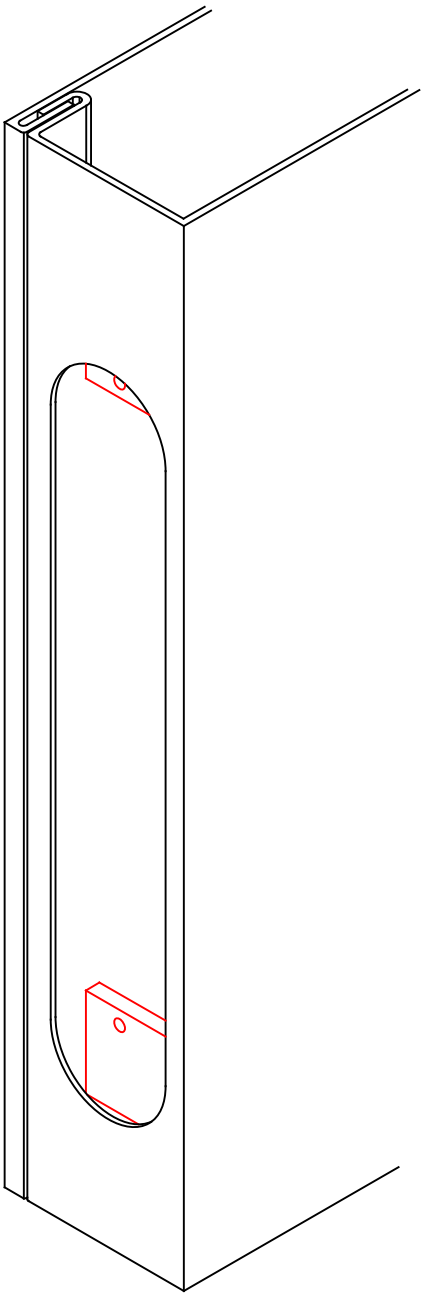
Cold fused

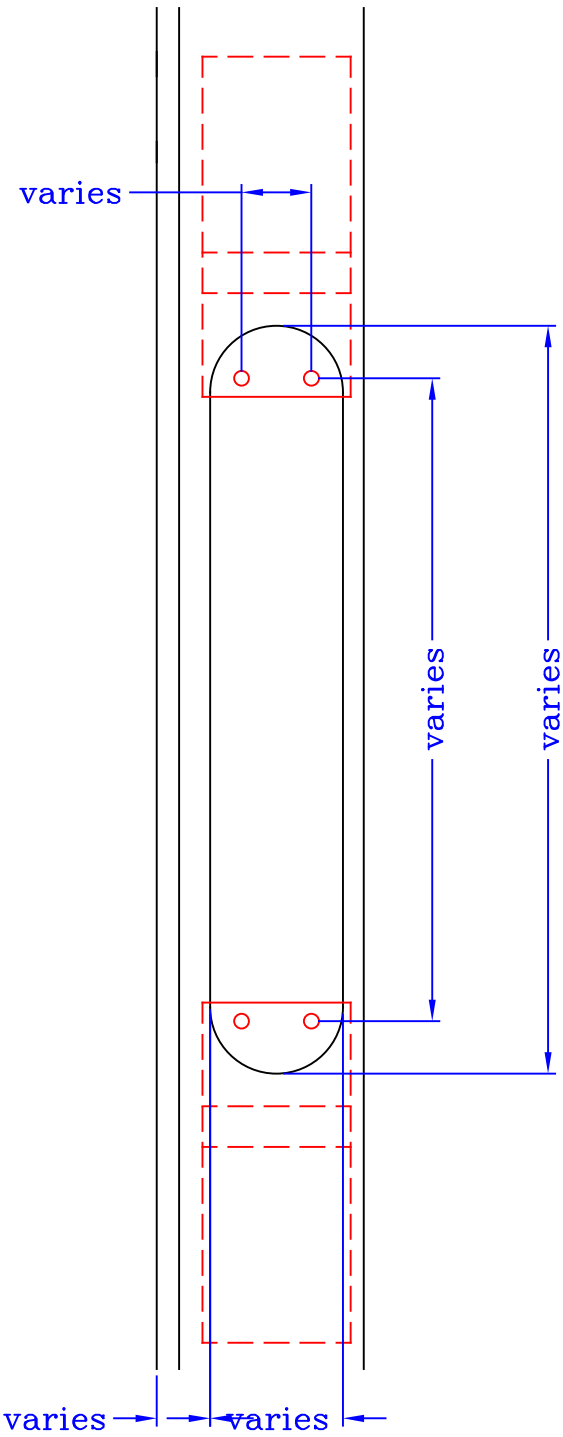




Invisible hinge reinforcement, 10ga

Projection welded

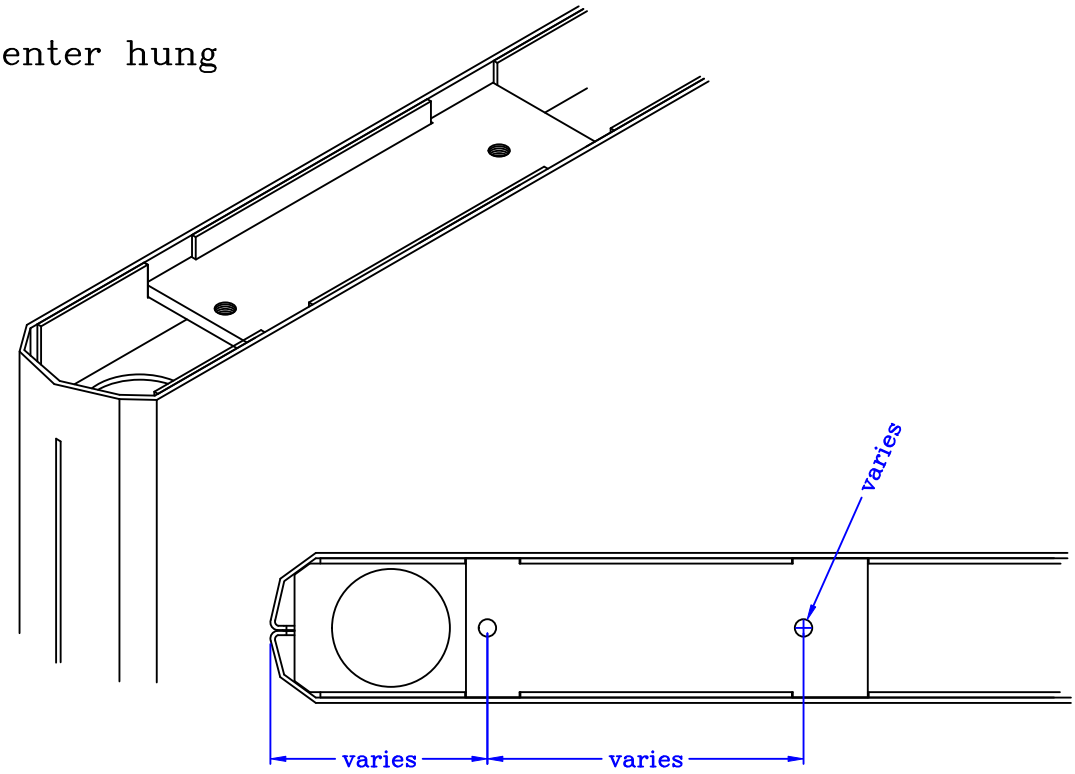




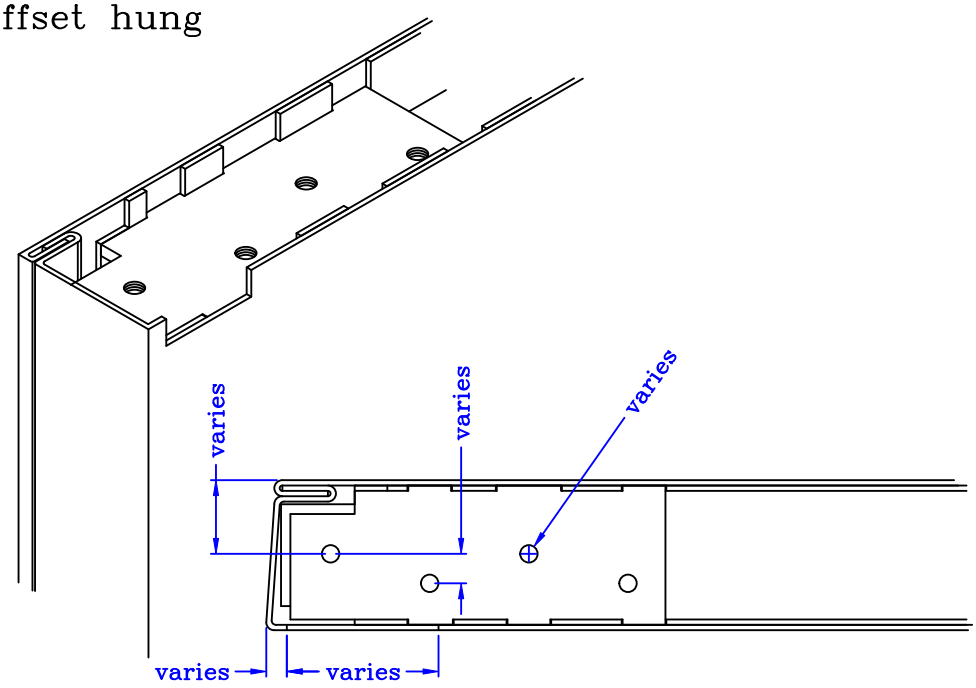
*manufacturer's template to be provided

Prep. for top pivot, 10ga

Center hung



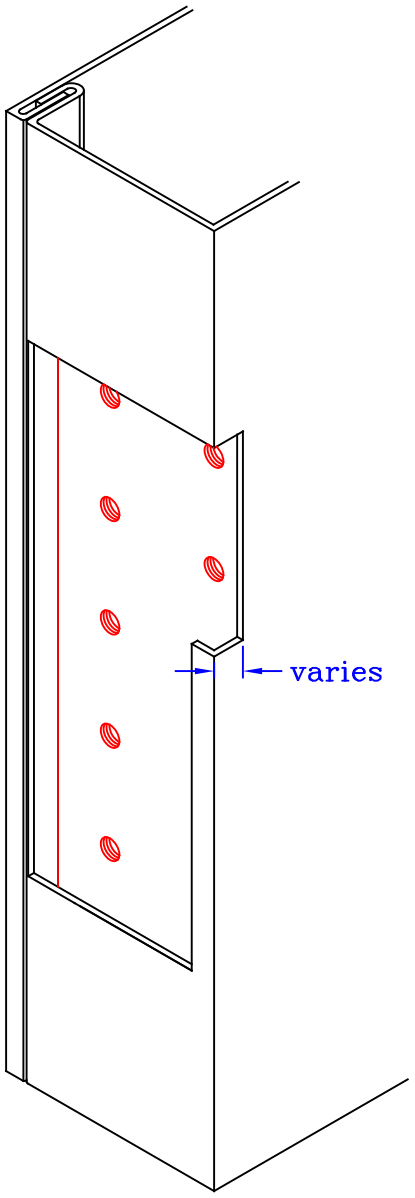
Offset hung

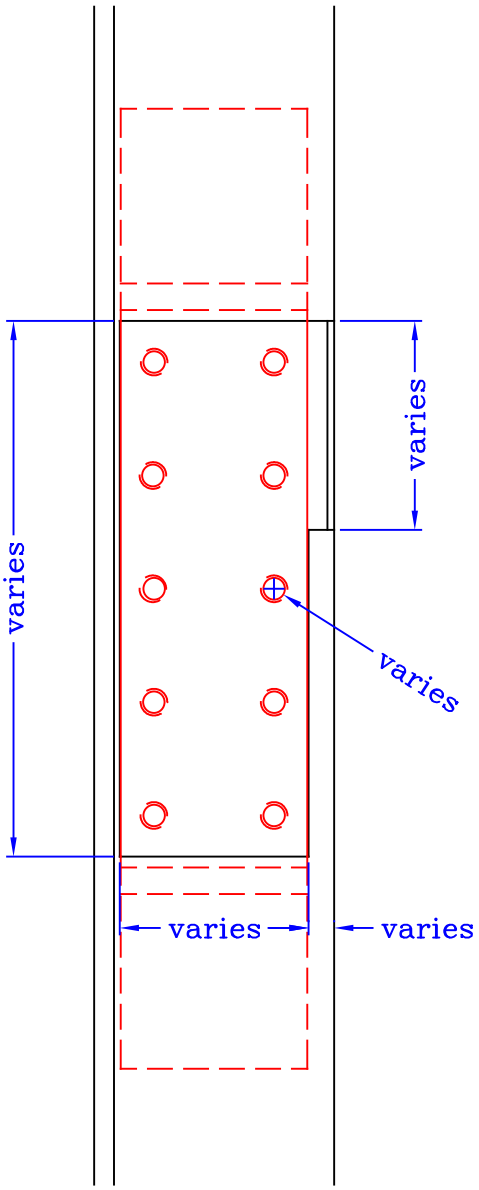


*manufacturer's template to be provided

Intermediate pivot prep., 10ga

Offset hung

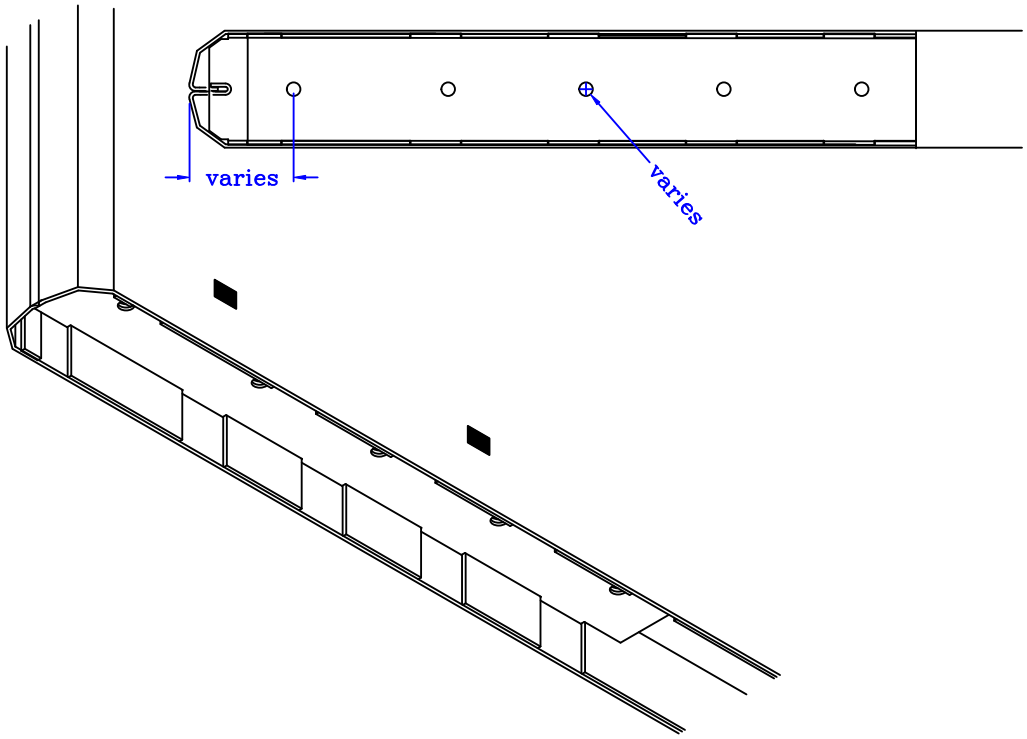




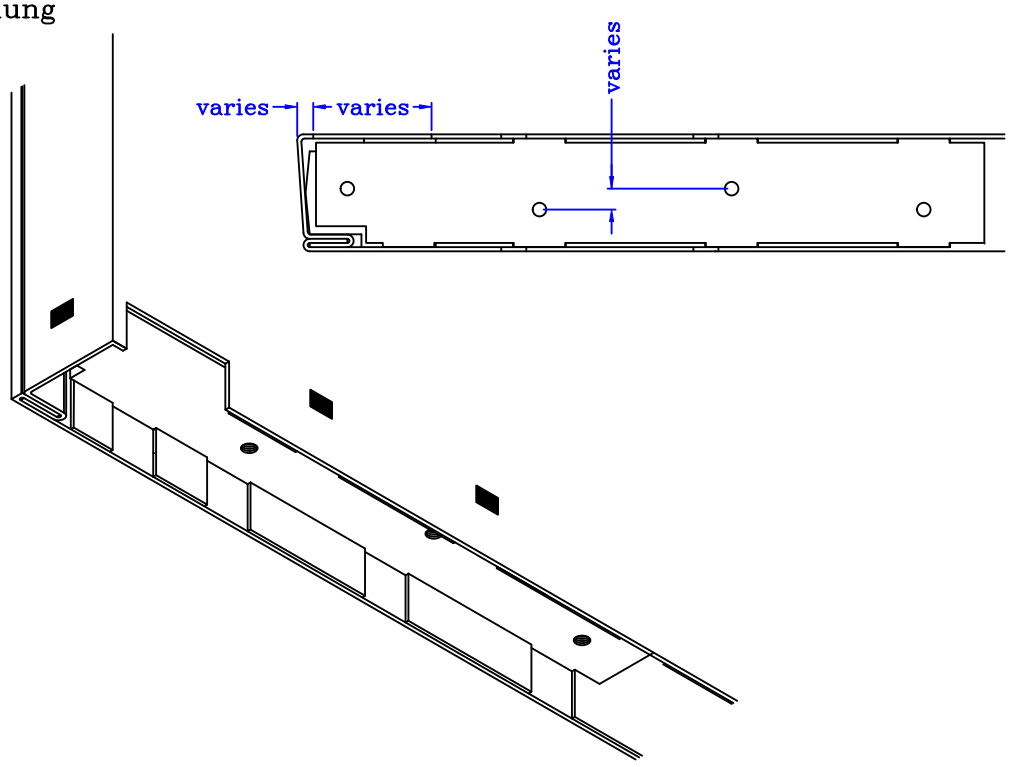
*manufacturer's template to be provided
Centered at mid height of opening up to 7'0"

Prep. for bottom pivot, 10ga

Center hung



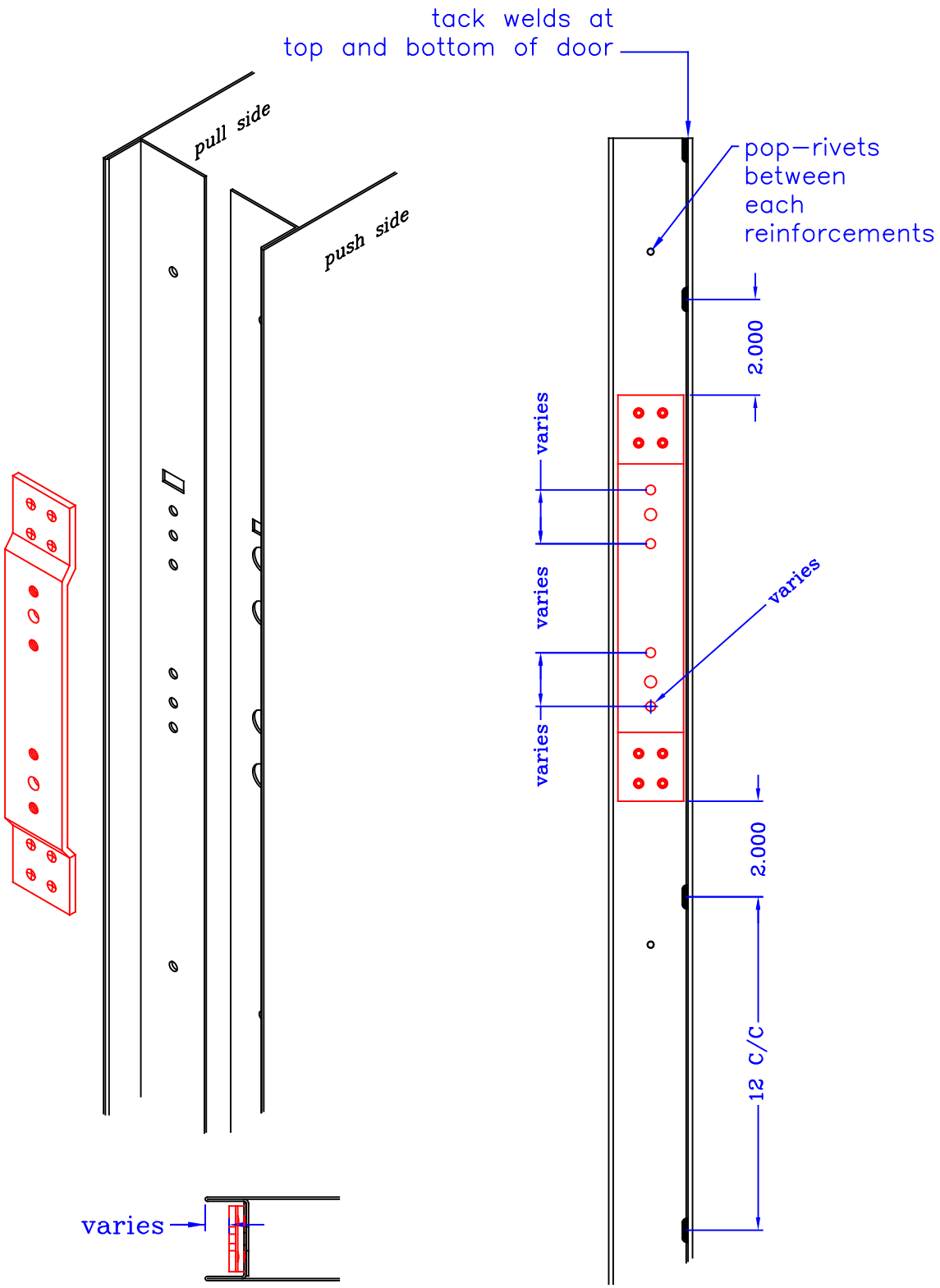
Offset hung



*manufacturer's template to be provided

Prep. for pocket pivot, 10ga

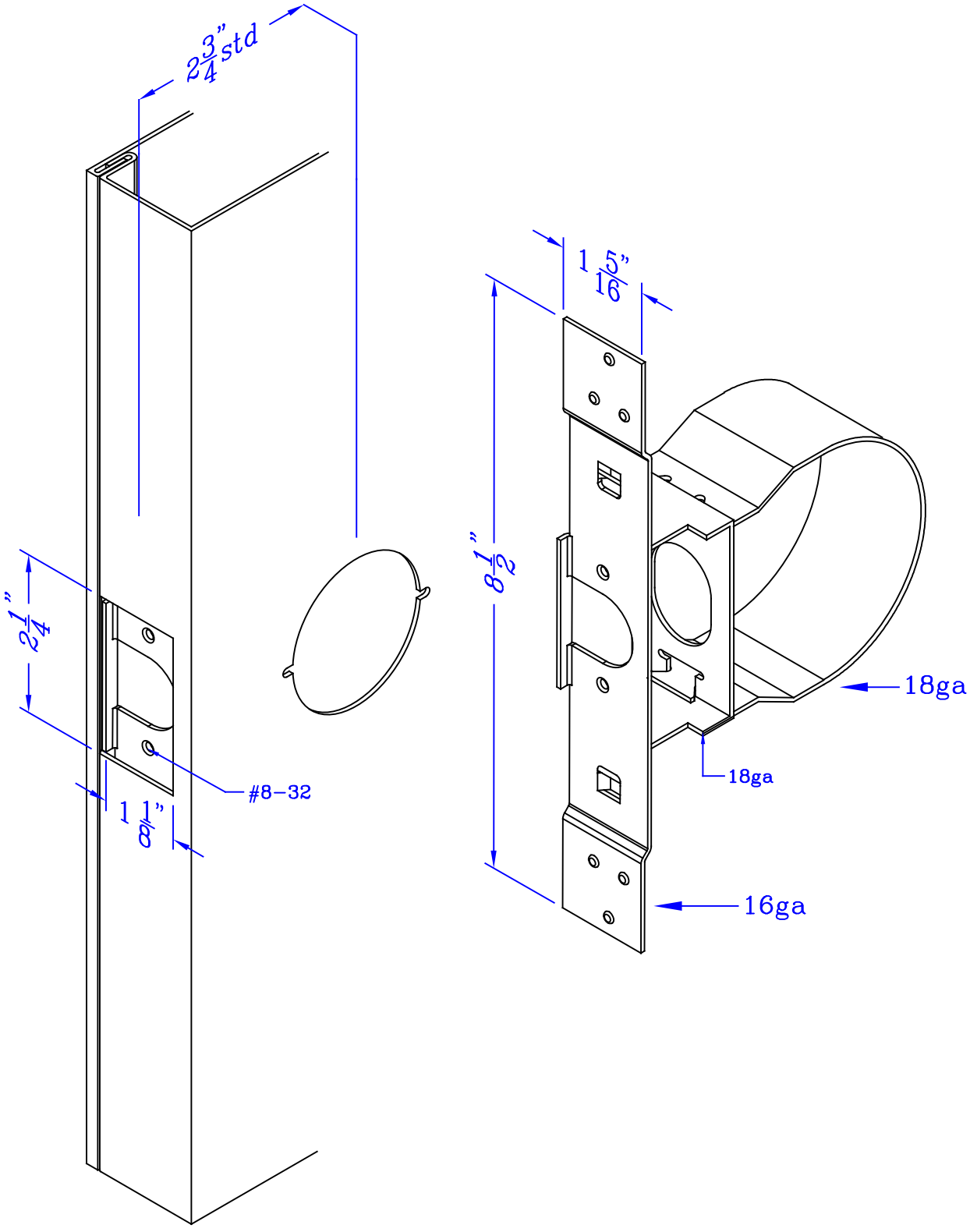
Projection welded



*manufacturer's template to be provided

Cylindrical lock reinforcement, 16ga

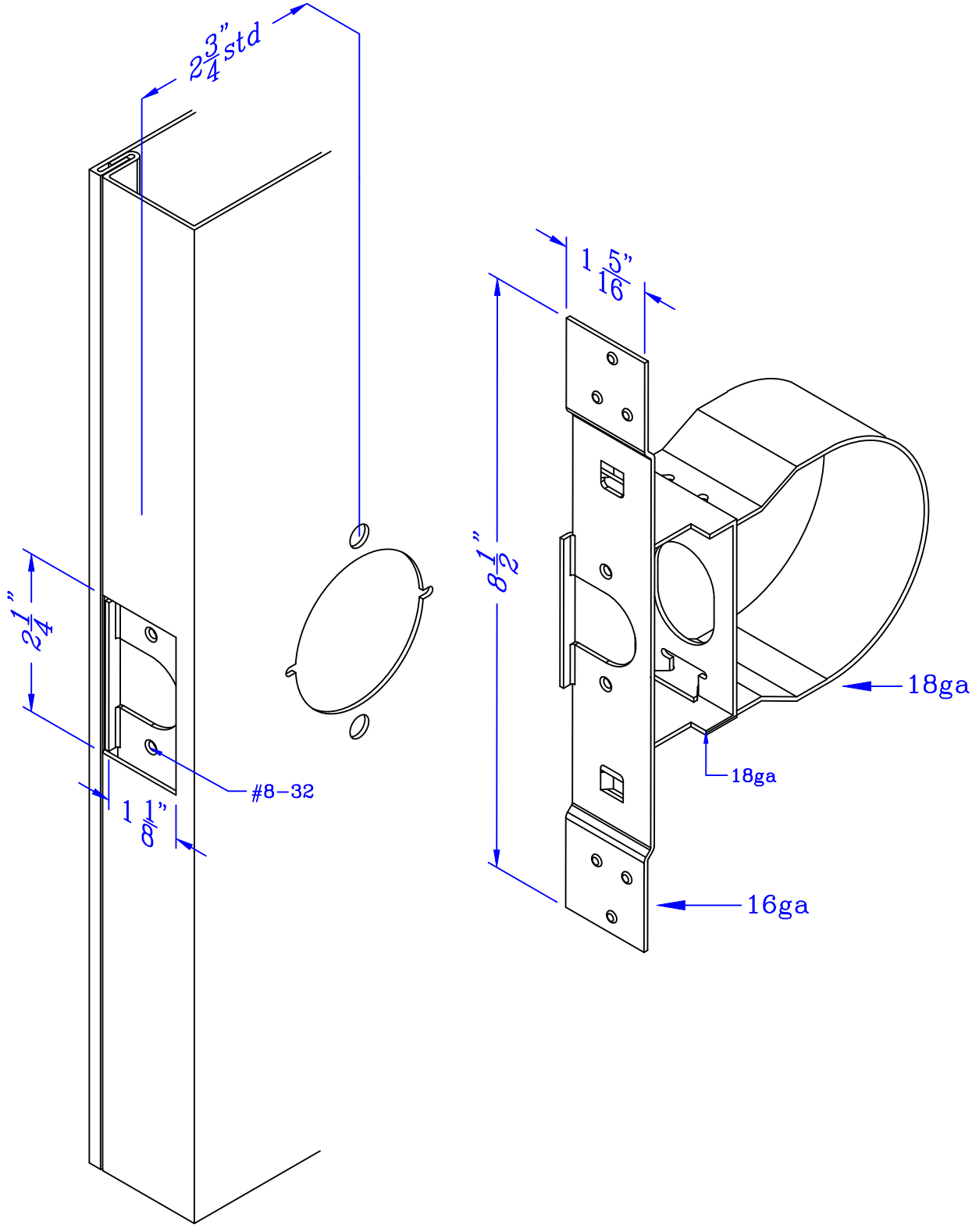
Projection welded



Centered latch. Tapped extruded holes per ANSI/SDI A250.6.

Cylindrical lock reinforcement, 16ga, with thru bolts*

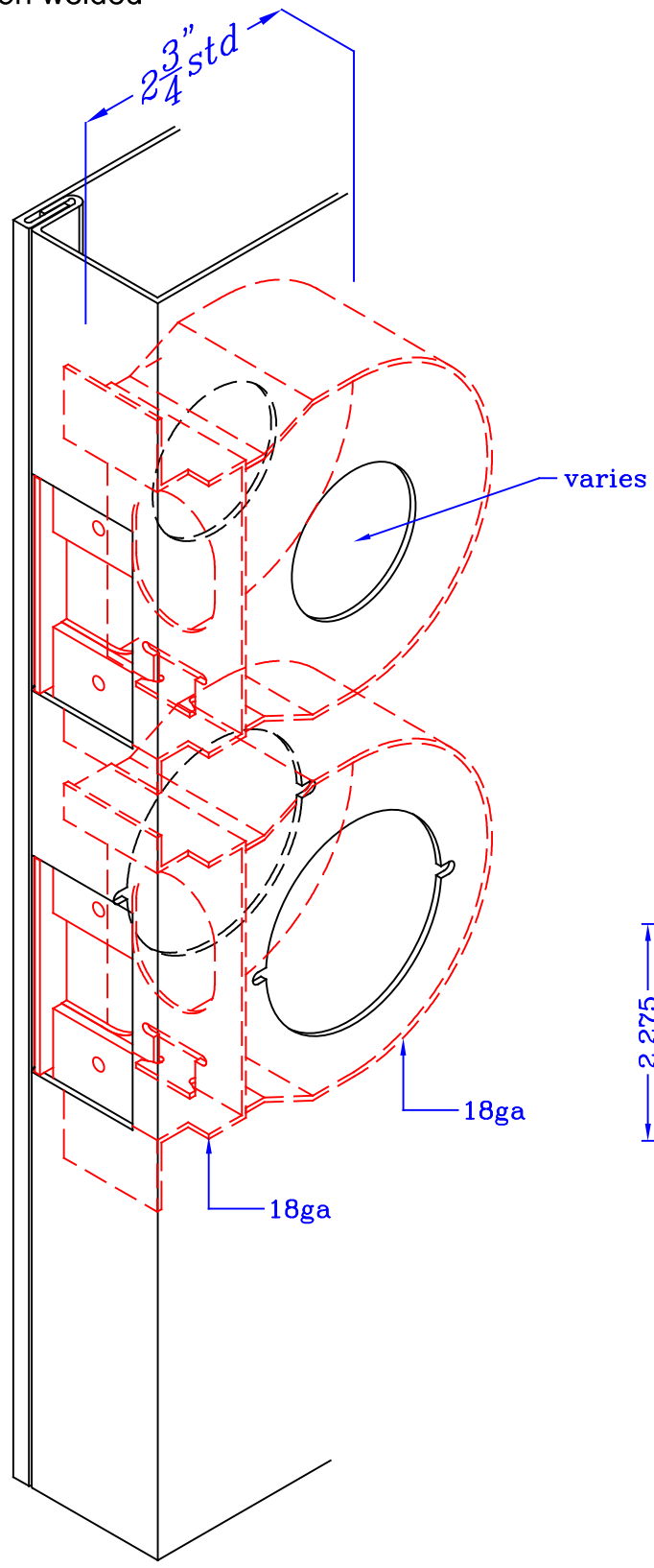
Projection welded

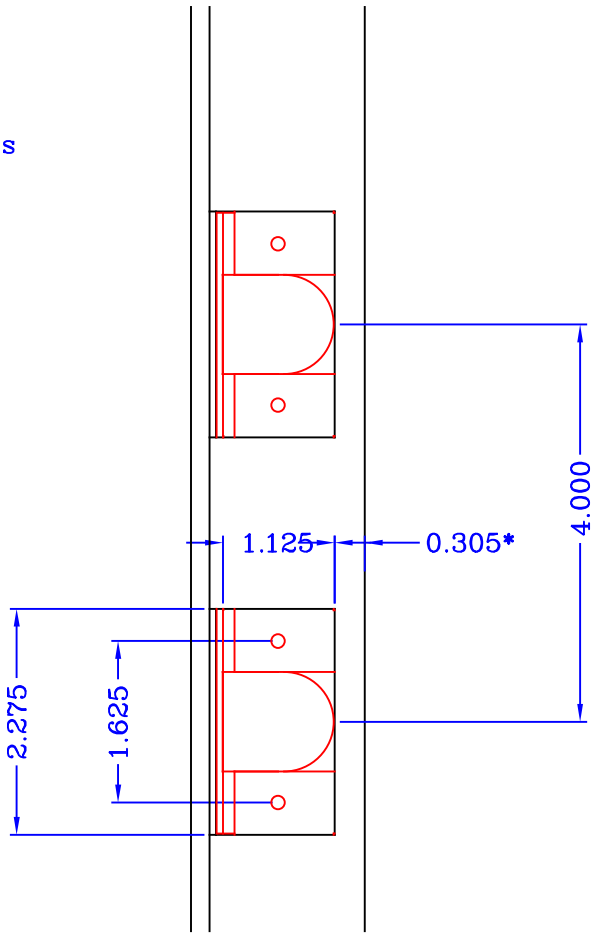


Centered latch. Tapped extruded holes per ANSI/SDI A250.6.
*manufacturer's template to be provided

Interconnected lock 4" C/C reinforcement (161TB+CYLDL), 12ga

Projection welded



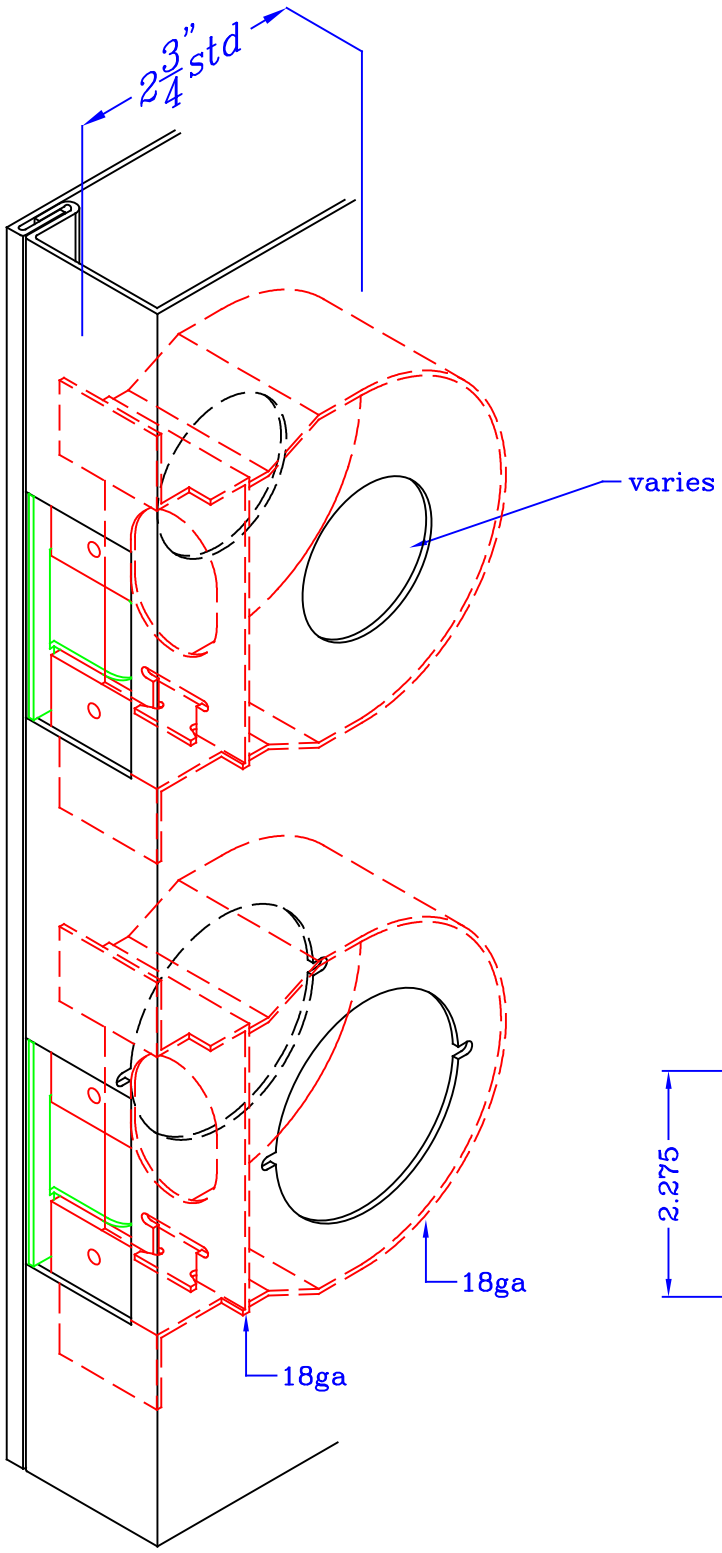


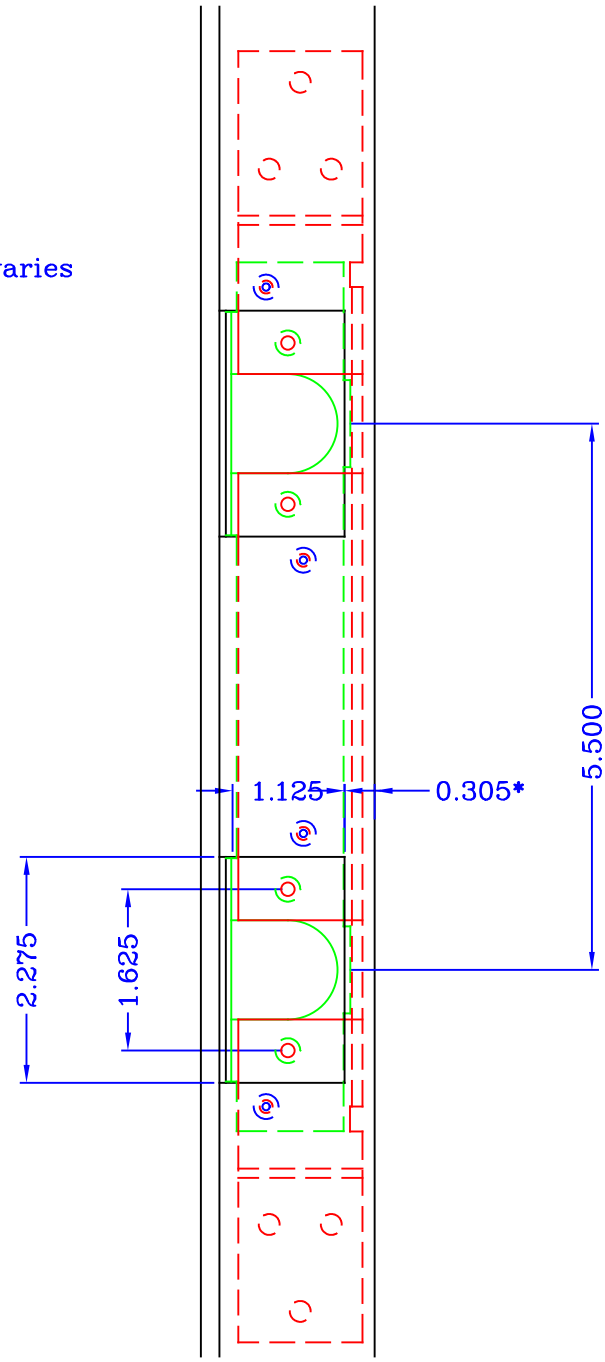
IL4

Centered latch. Tapped extruded holes per ANSI/SDI A250.6.
*Maybe greater for 16 and thicker gage door.

Interconnected lock 5 1/2" C/C reinforcement (161TB+CYLDL), 12ga

Projection welded



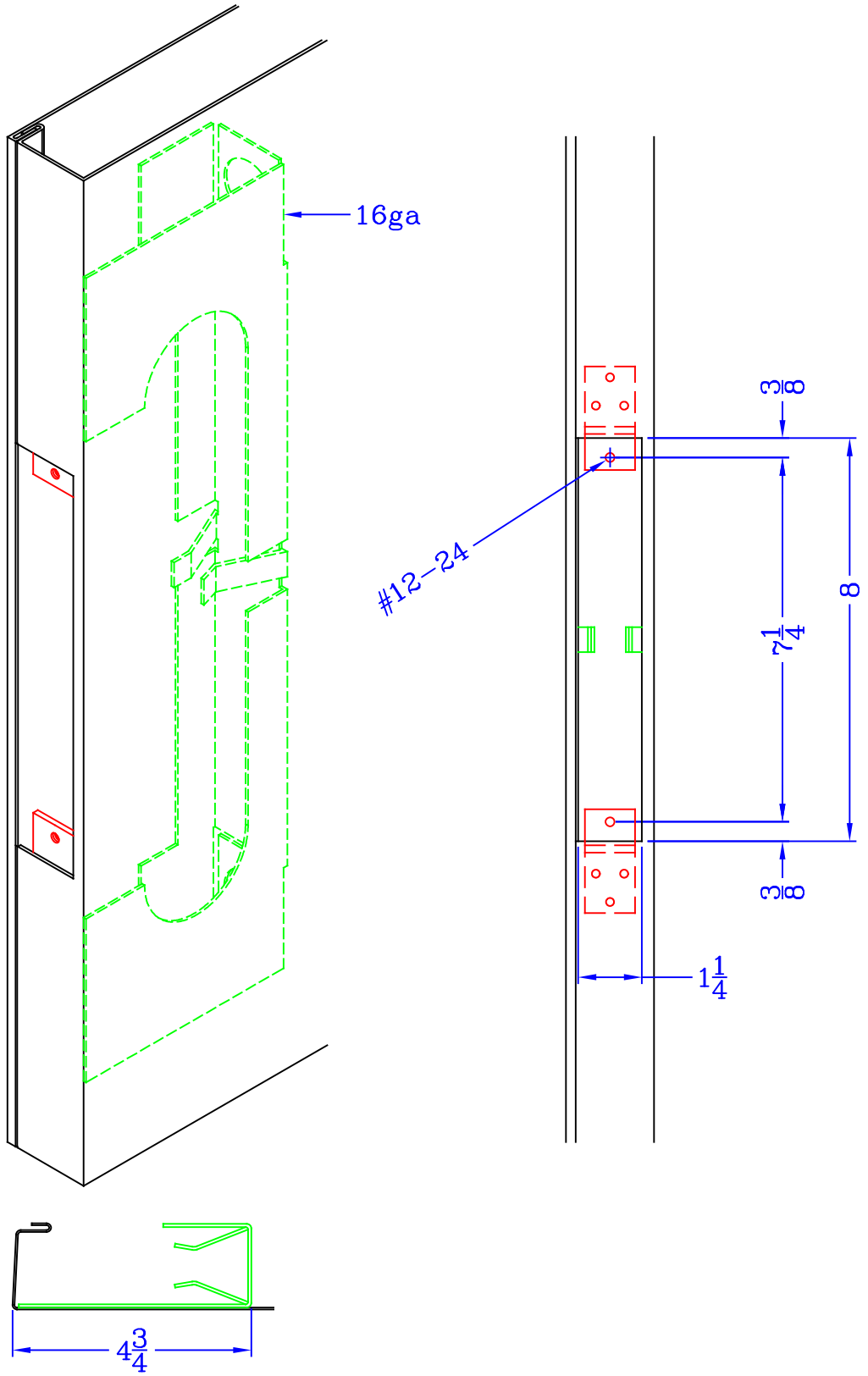


IL512

*Maybe greater for 16 and thicker gage door.

Mortise lock reinforcement, 12ga

Projection welded

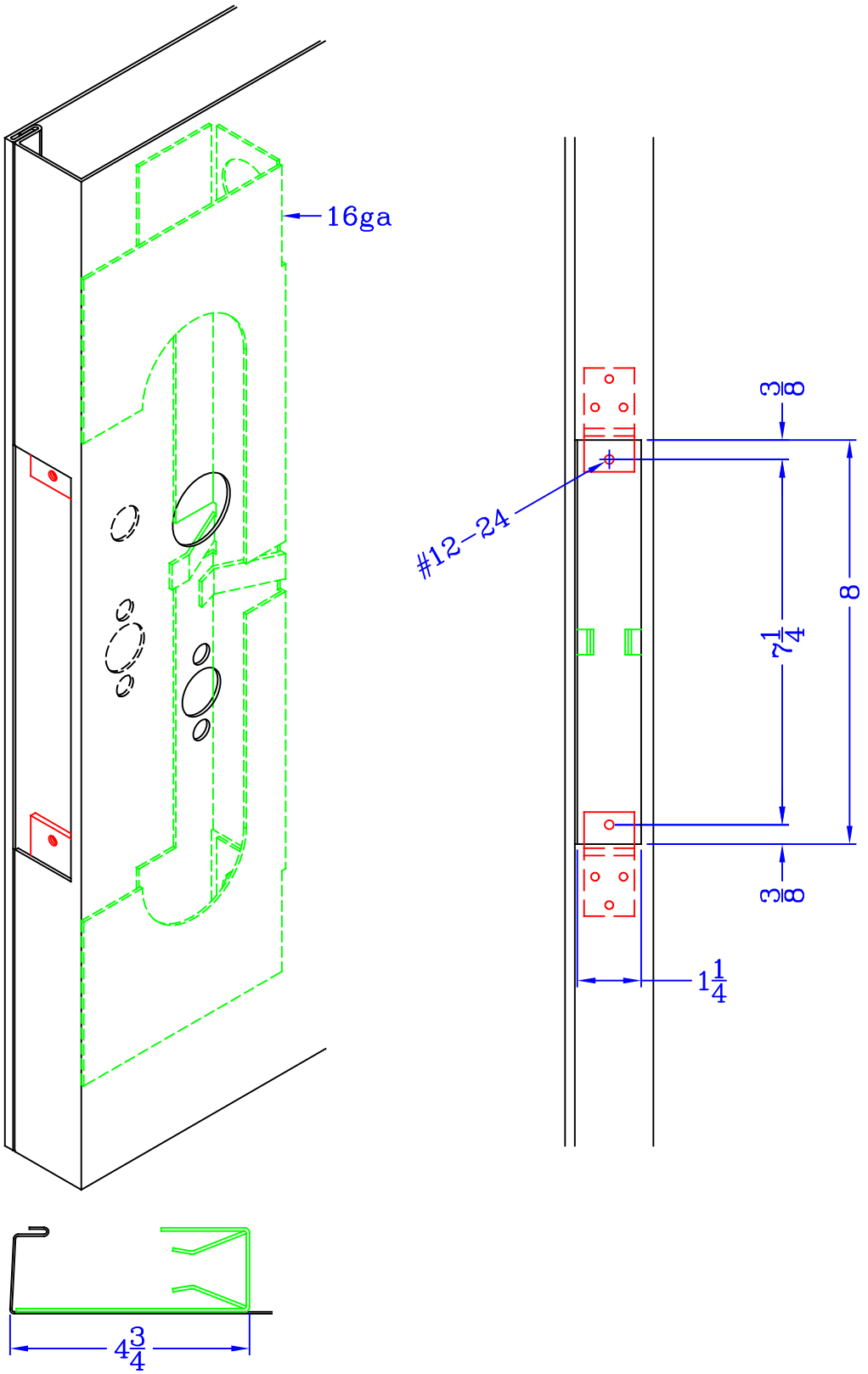


Per ANSI A156.13 specifications

86ED

Mortise lock reinforcement with function holes, 12ga

Projection welded

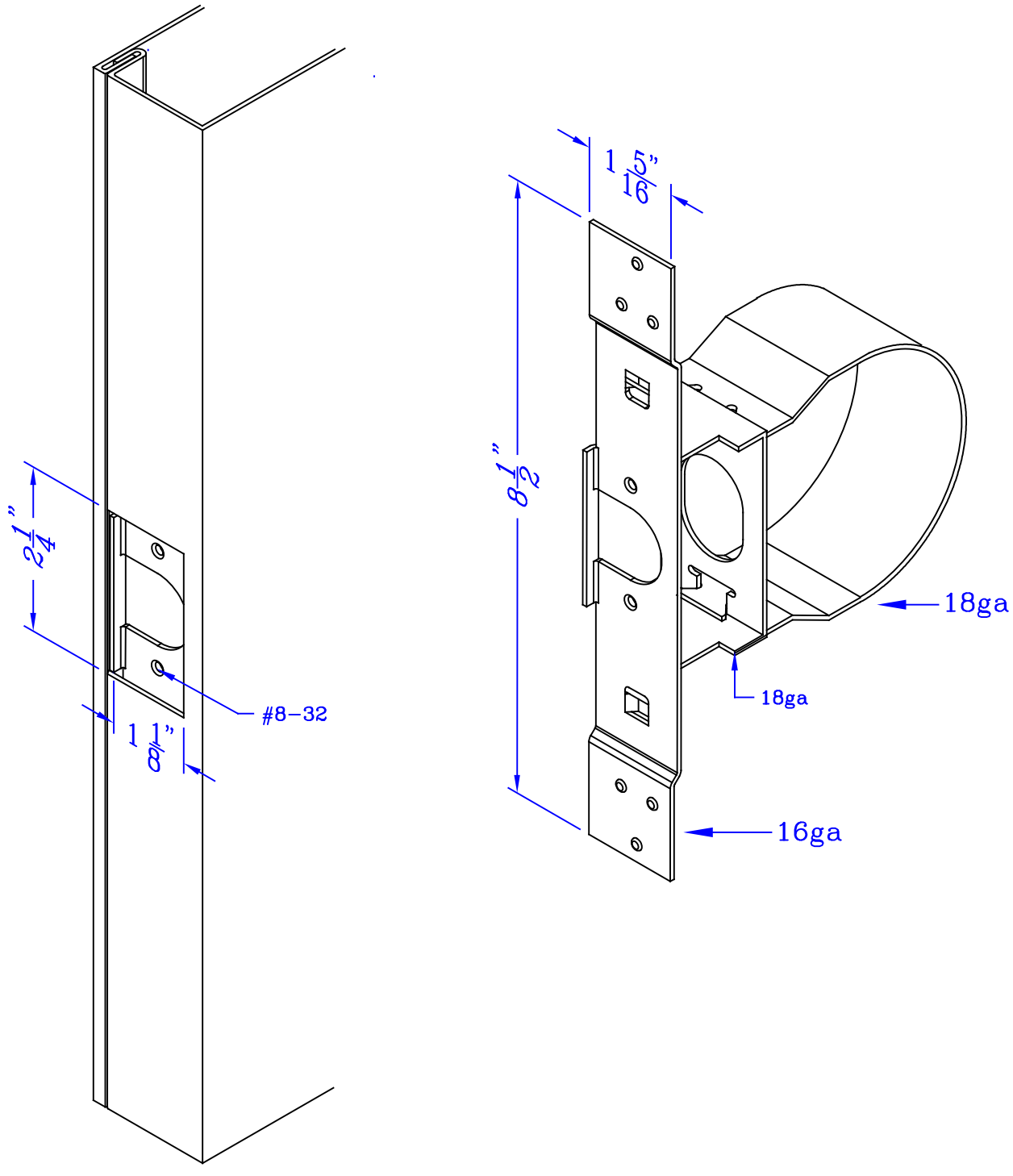


Per ANSI A156.13 specifications
Function holes: Manufacturer's template to be provided.

86FH

Digital lock prep, 12ga

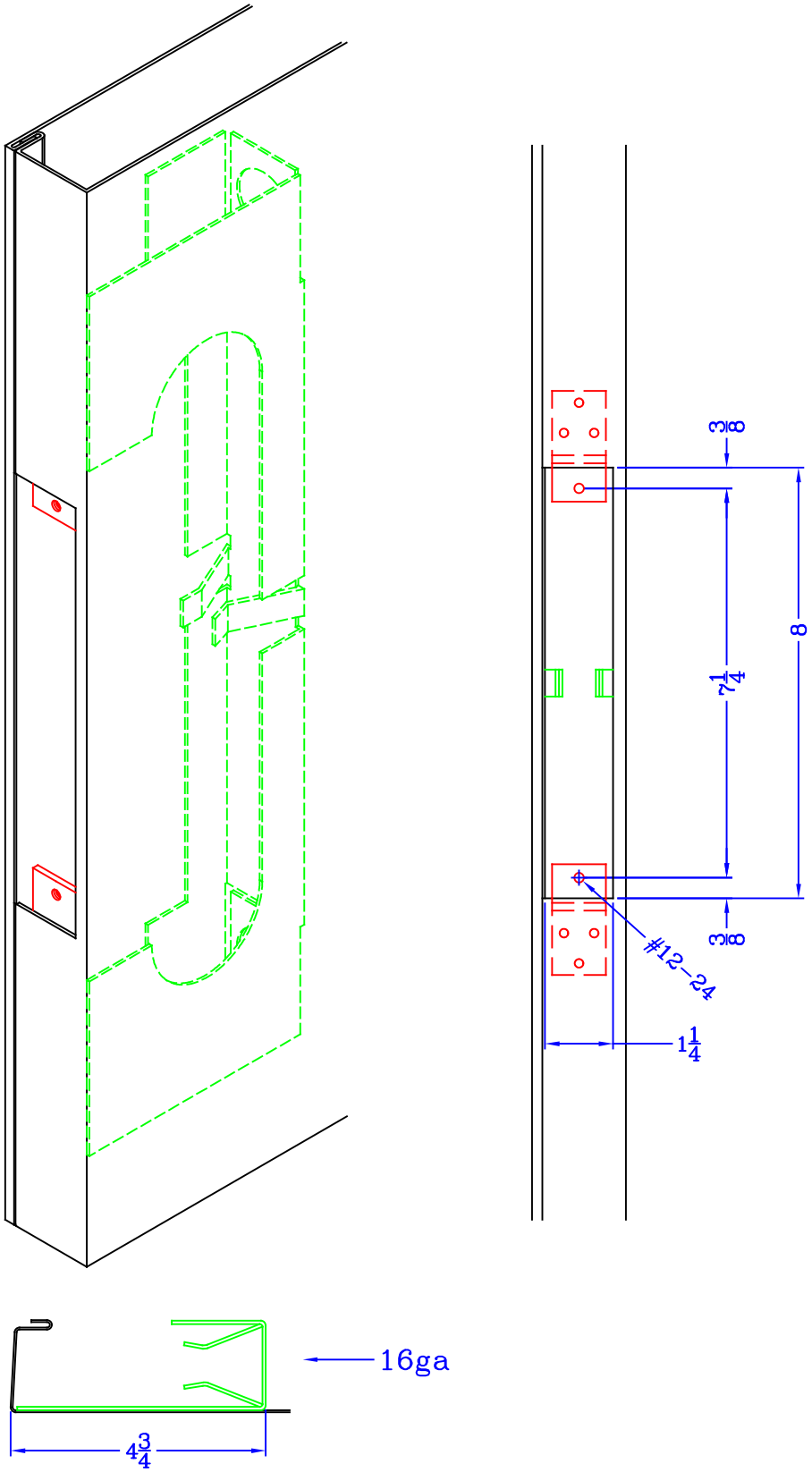
Projection welded



Tapped extruded holes per ANSI/SDI A250.6.
Function holes: Manufacturer's template to be provided.

Digital lock prep, 12ga

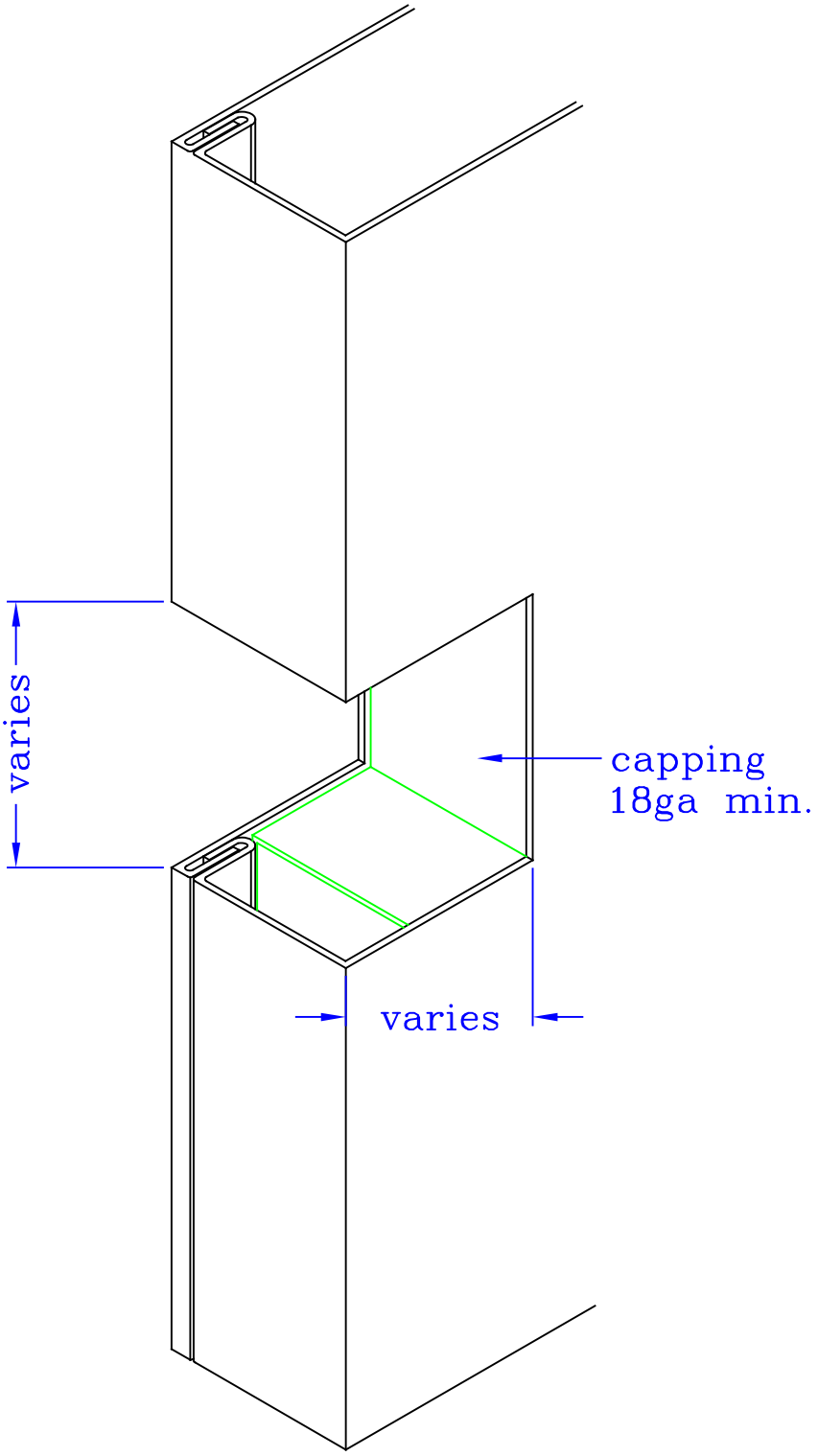
Projection welded



Function holes: Manufacturer's template to be provided.

DGL86

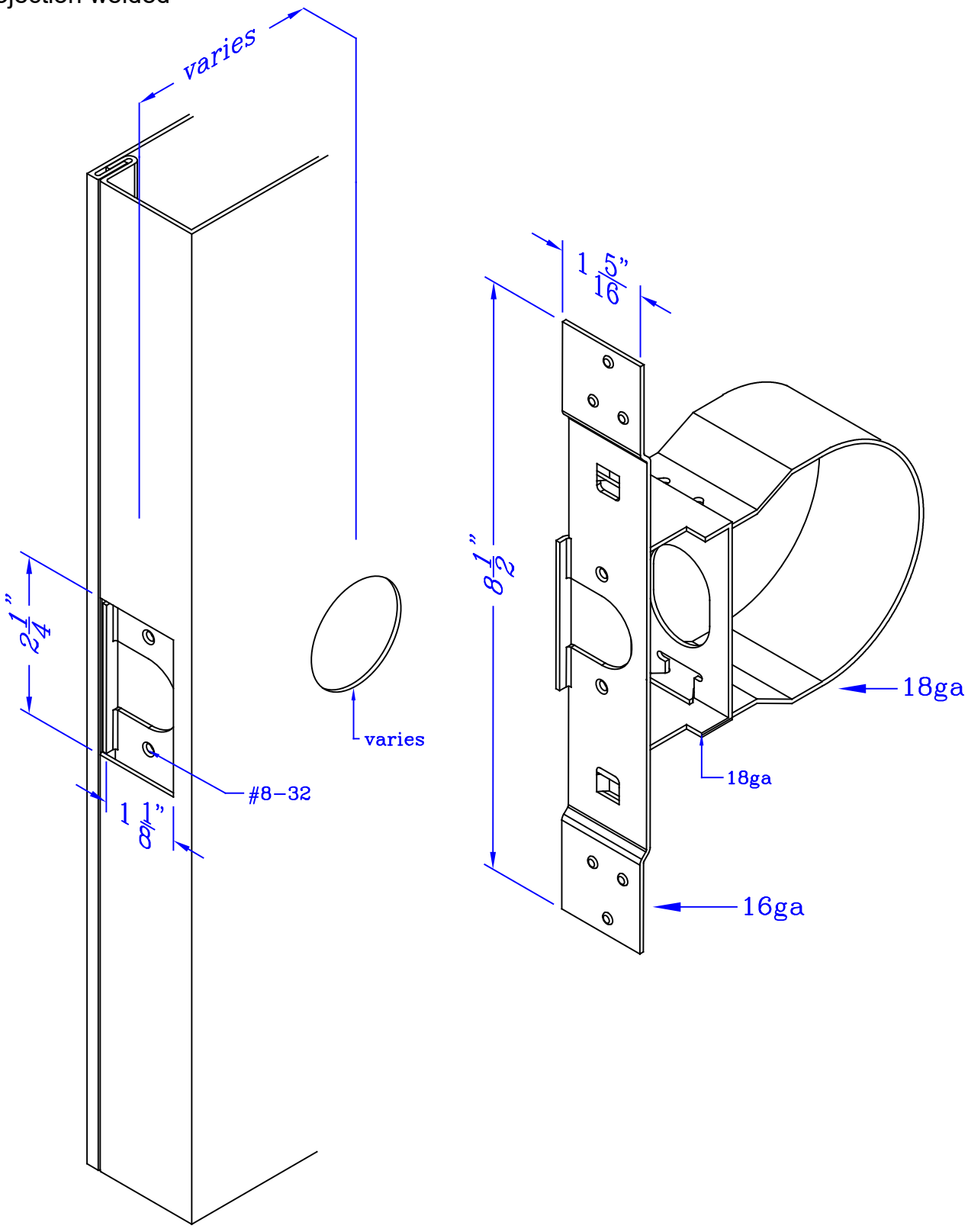
Pre-assembly lock reinforcement
Cold fused



*manufacturer's template to be provided

Cylindrical deadlock reinforcement, 16ga

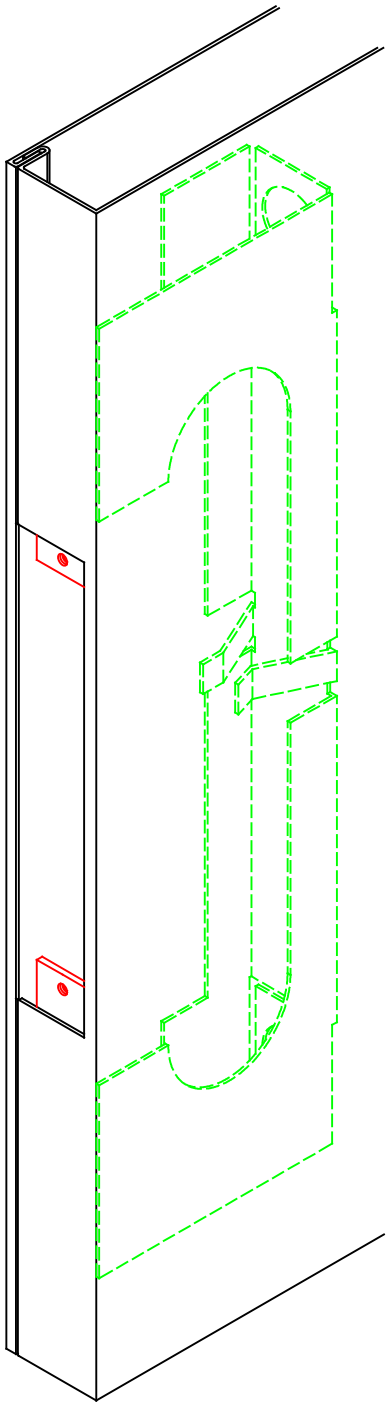
Projection welded

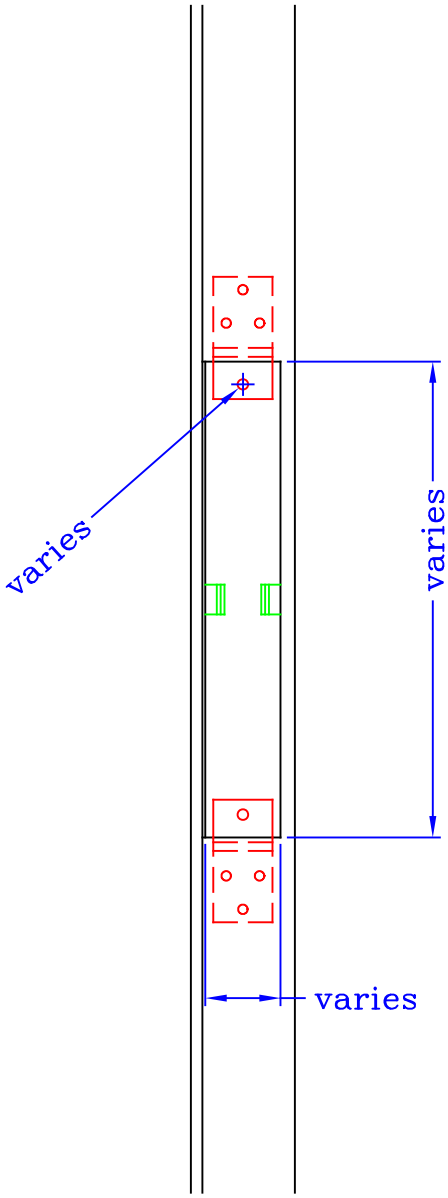


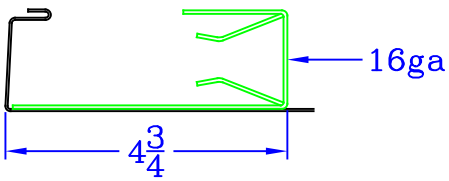
Centered latch. Tapped extruded holes per ANSI/SDI A250.6.
*manufacturer's template to be provided

Mortise deadlock reinforcement, 12ga

Projection welded



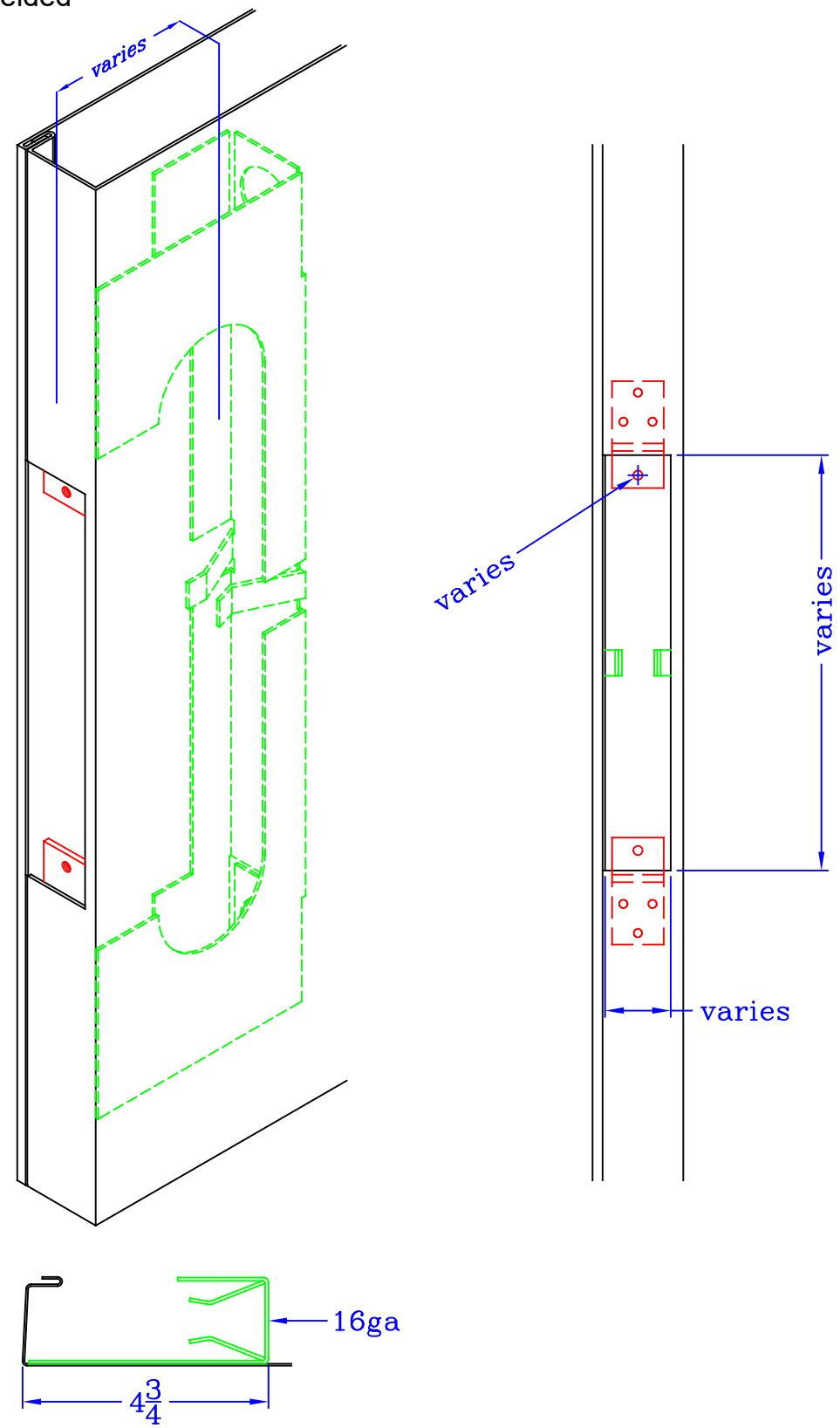




*manufacturer's template to be provided

Mortise deadlock reinforcement with function holes, 12ga

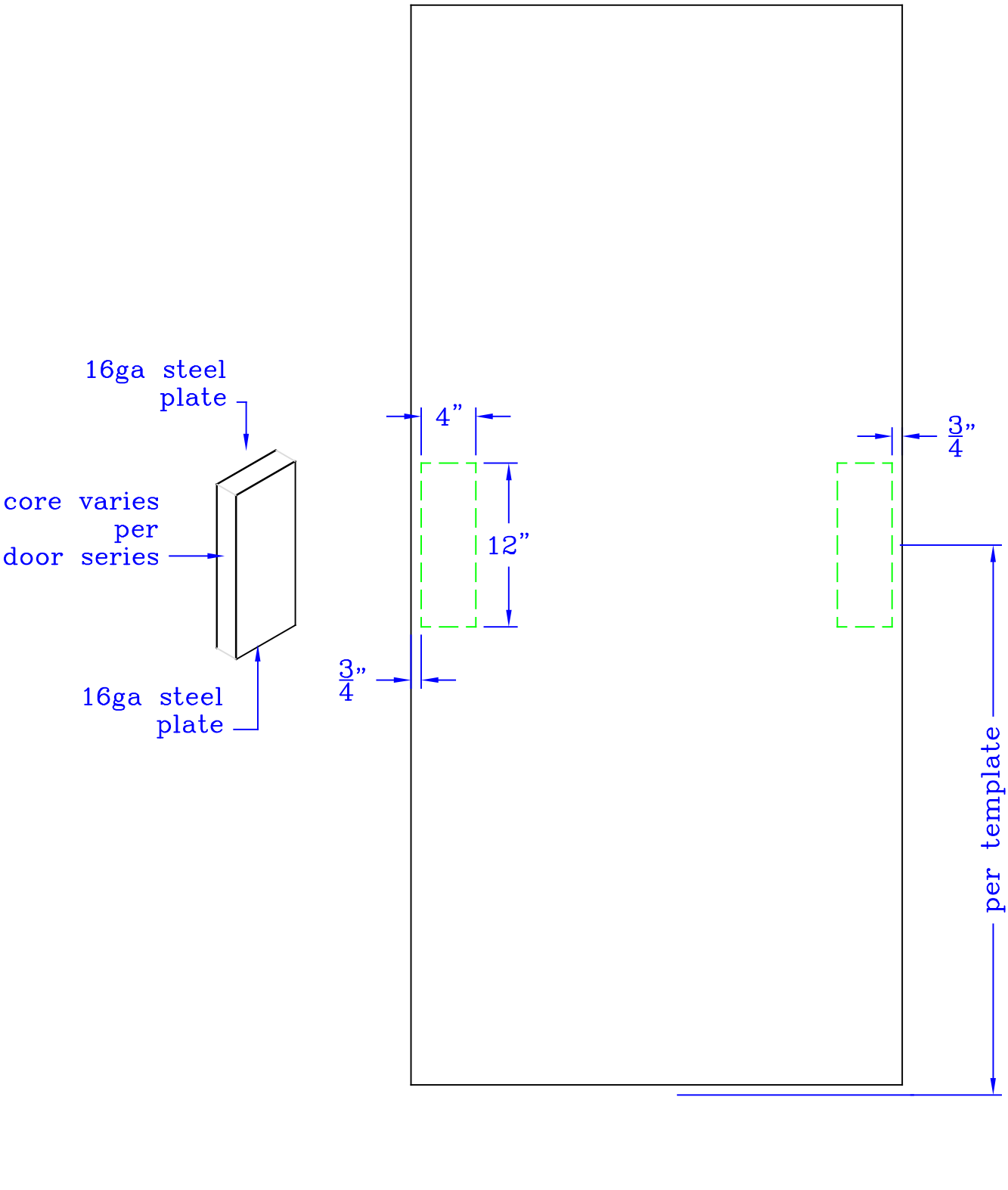
Projection welded



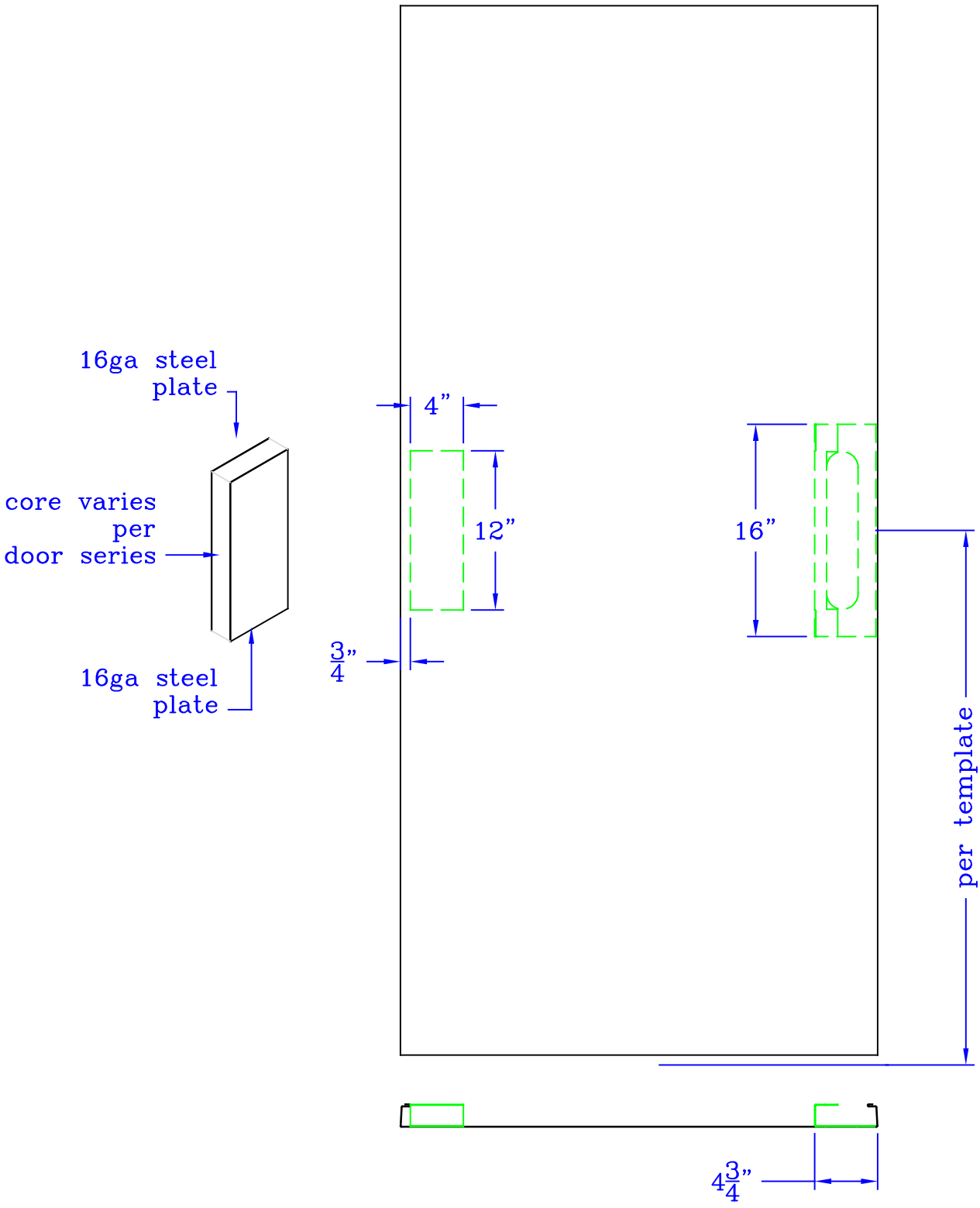
*manufacturer's template to be provided

MODDLFH

Rim exit device reinforcement
Cold fused



Rim exit device reinforcement with function holes
Cold fused

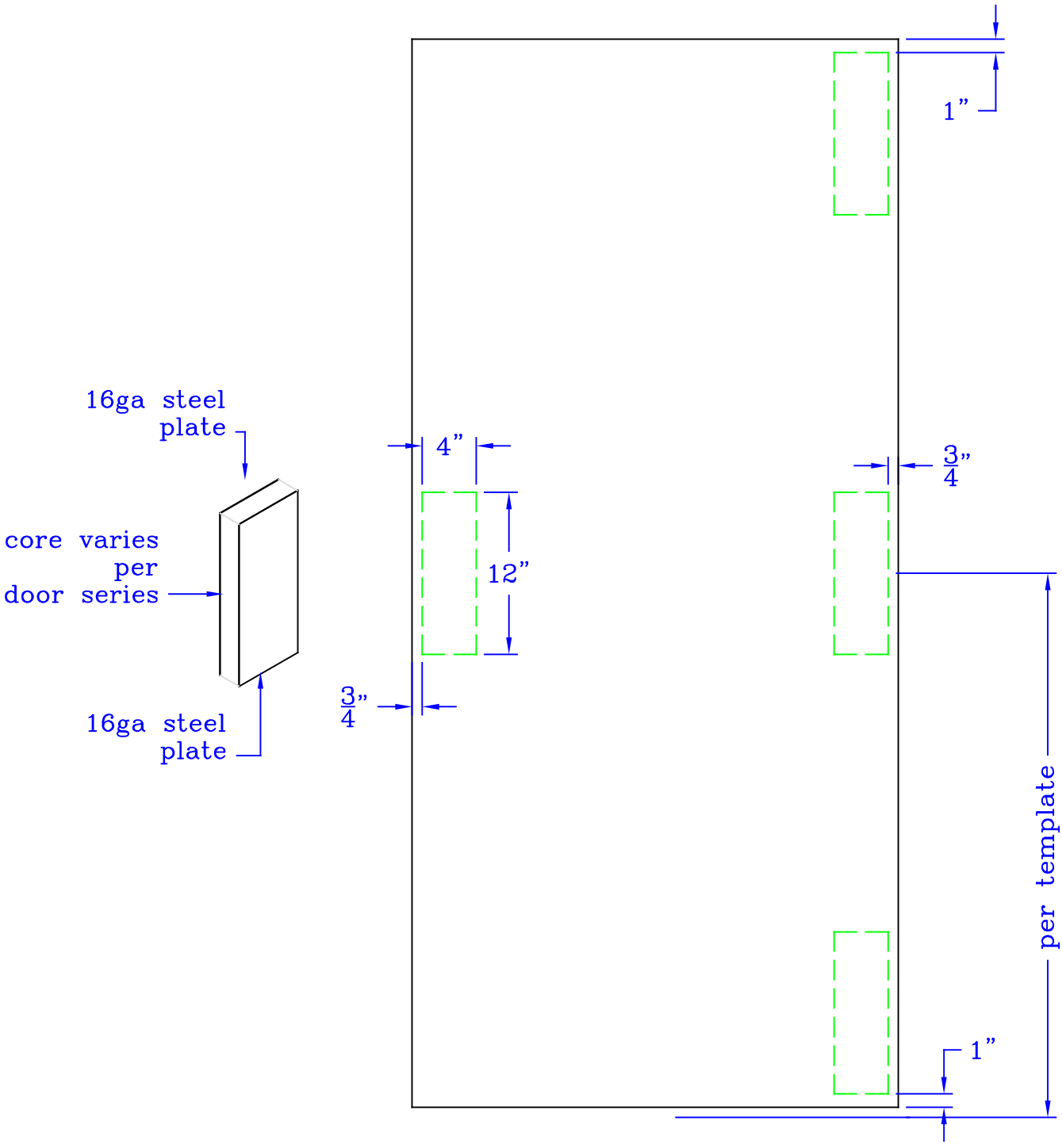


RIMFH

*manufacturer's template to be provided

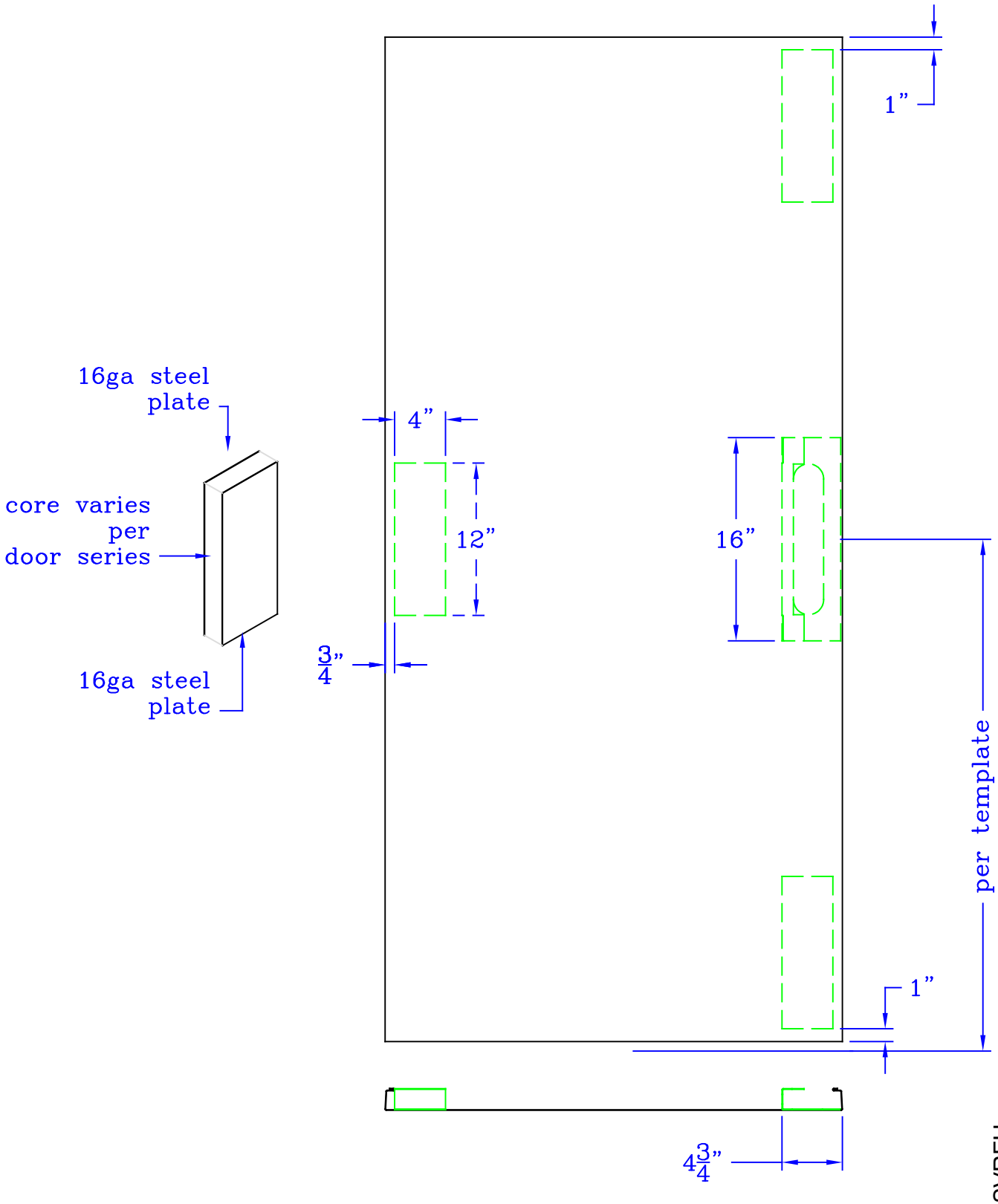
Surface vertical rod exit device reinforcement

Cold fused



SVR

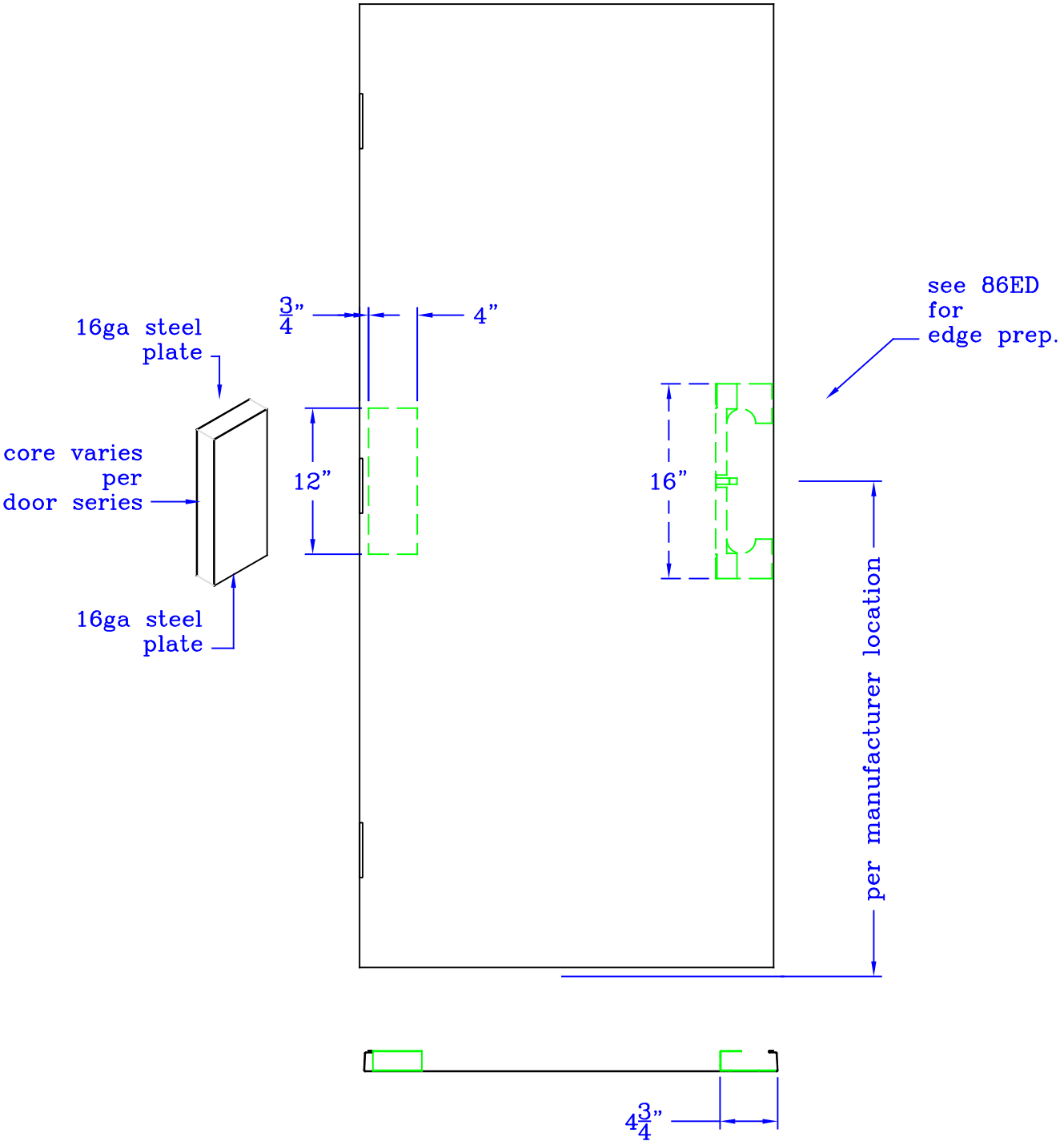
Surface vertical rod exit device reinforcement with function holes
Cold fused



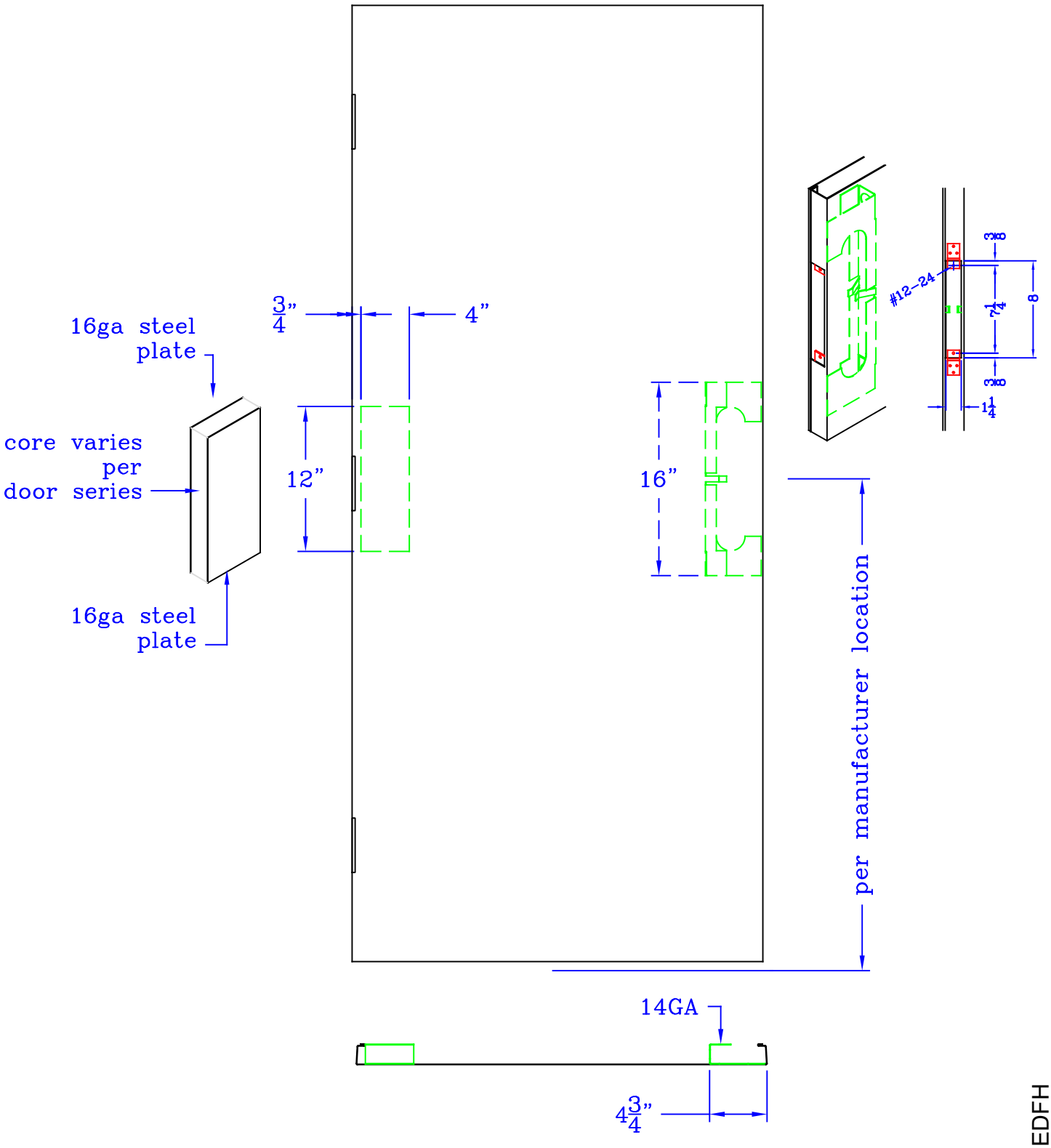
*manufacturer's template to be provided

Mortise exit device reinforcements

Cold fused



Mortise exit device reinforcements with function holes
Cold fused

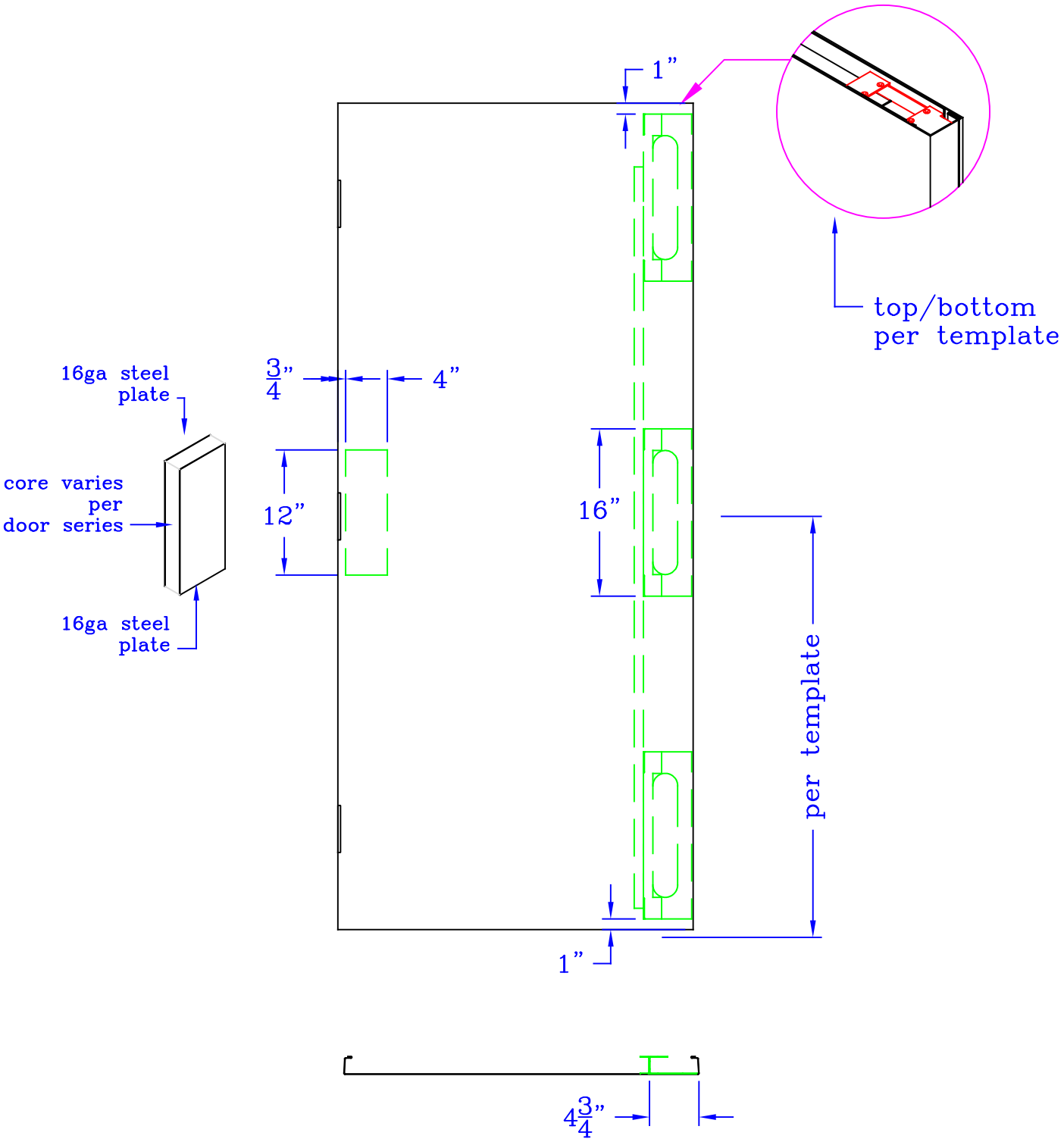


*manufacturer's template to be provided

MEDFH

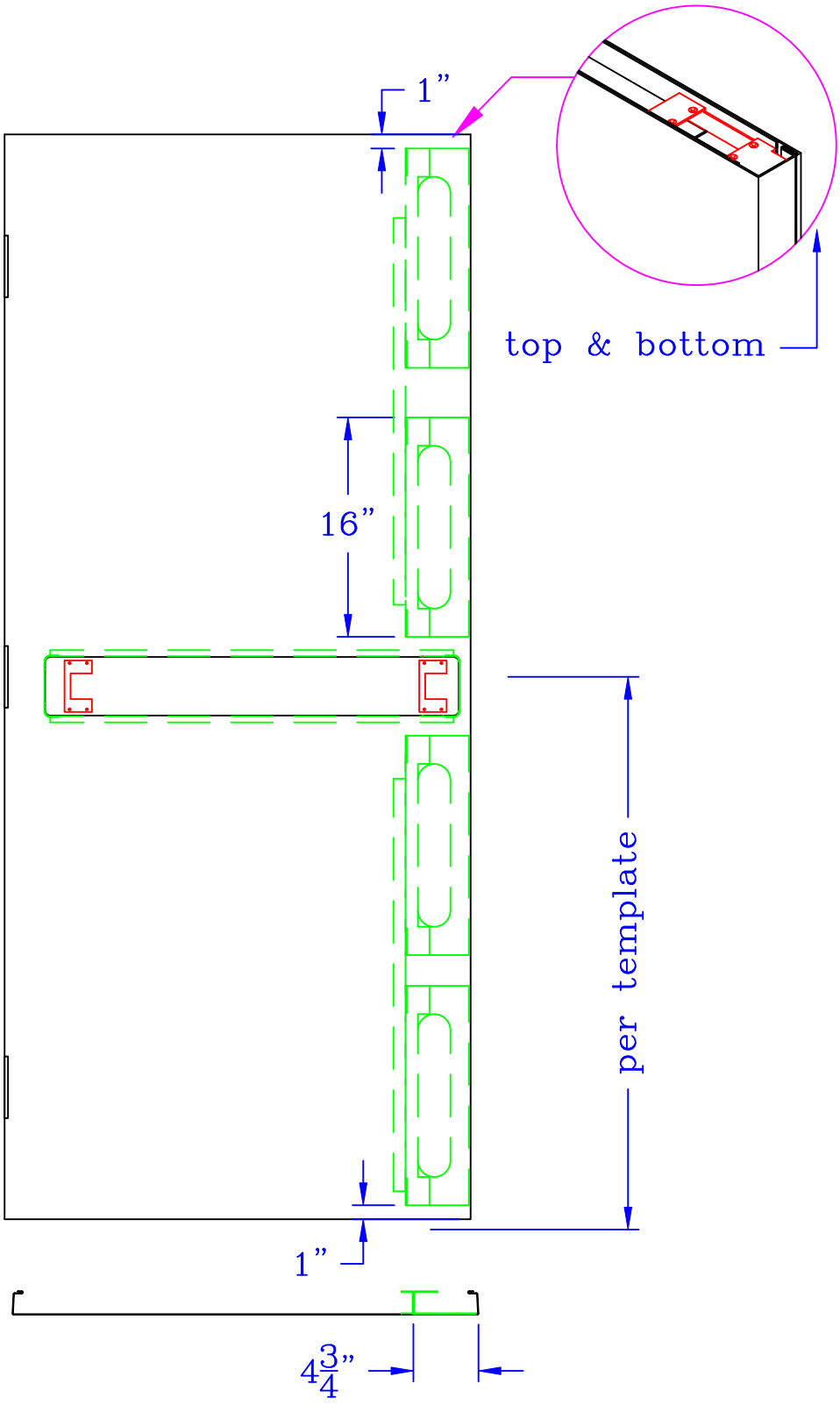
Concealed vertical rod exit device reinforcements

Cold fused



*manufacturer's template to be provided

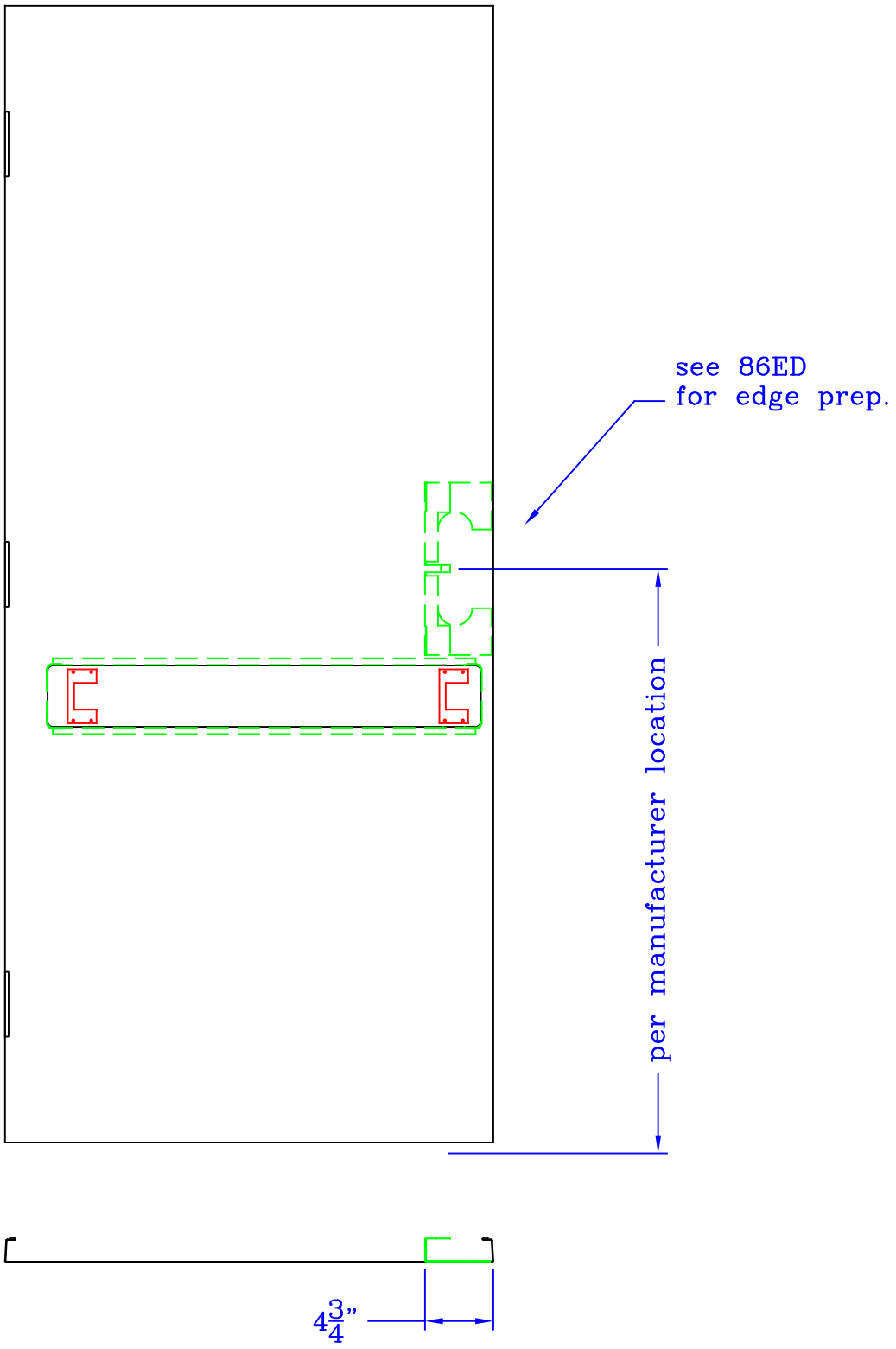
Inpact concealed vertical rod exit device reinforcements
Cold fused



* manufacturer's template to be provided

Inpact mortise exit device reinforcement

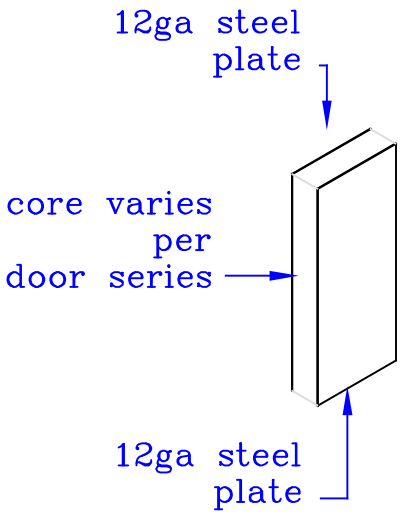
Cold fused

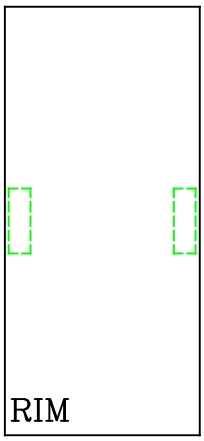


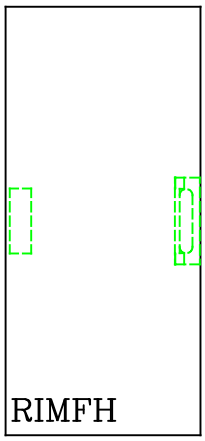
*manufacturer's template to be provided

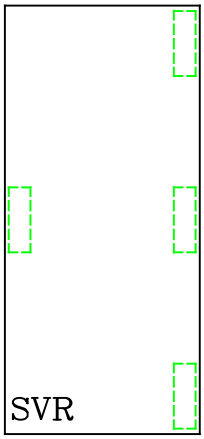
Exit device surface reinforcements, 12ga

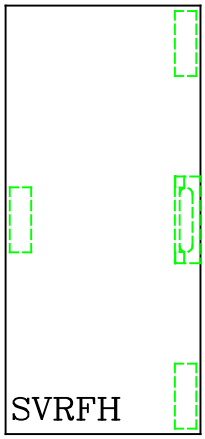
Cold fused

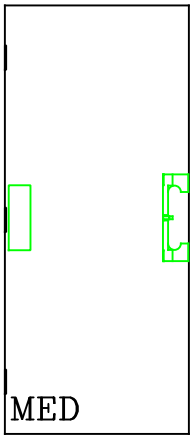


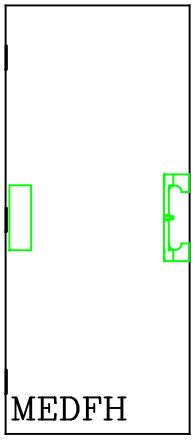






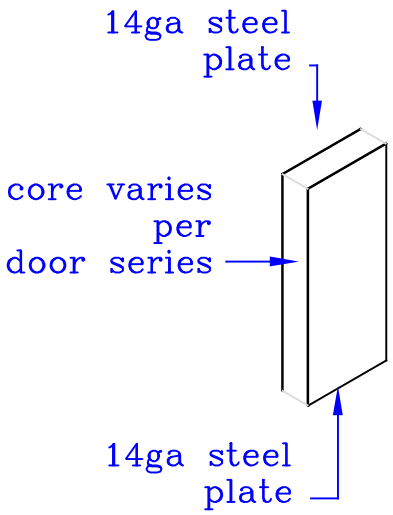


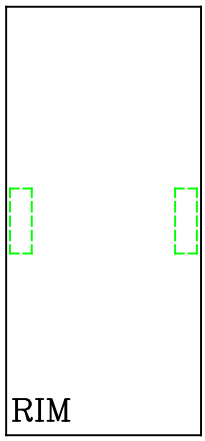


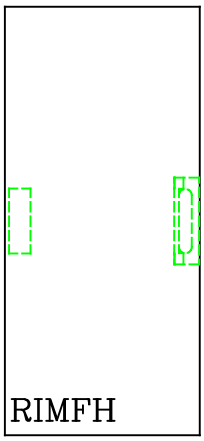


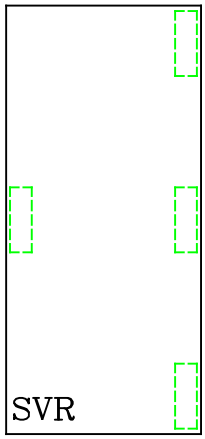
Exit device surface reinforcements, 14ga

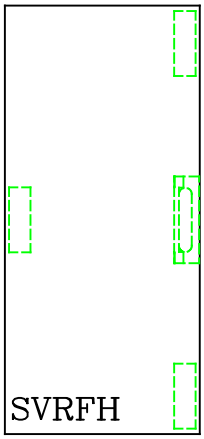
Cold fused

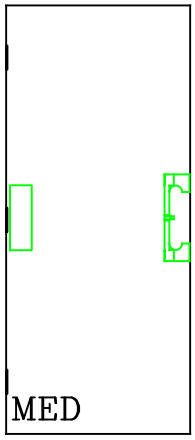


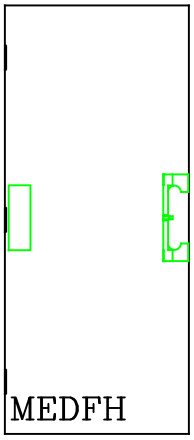






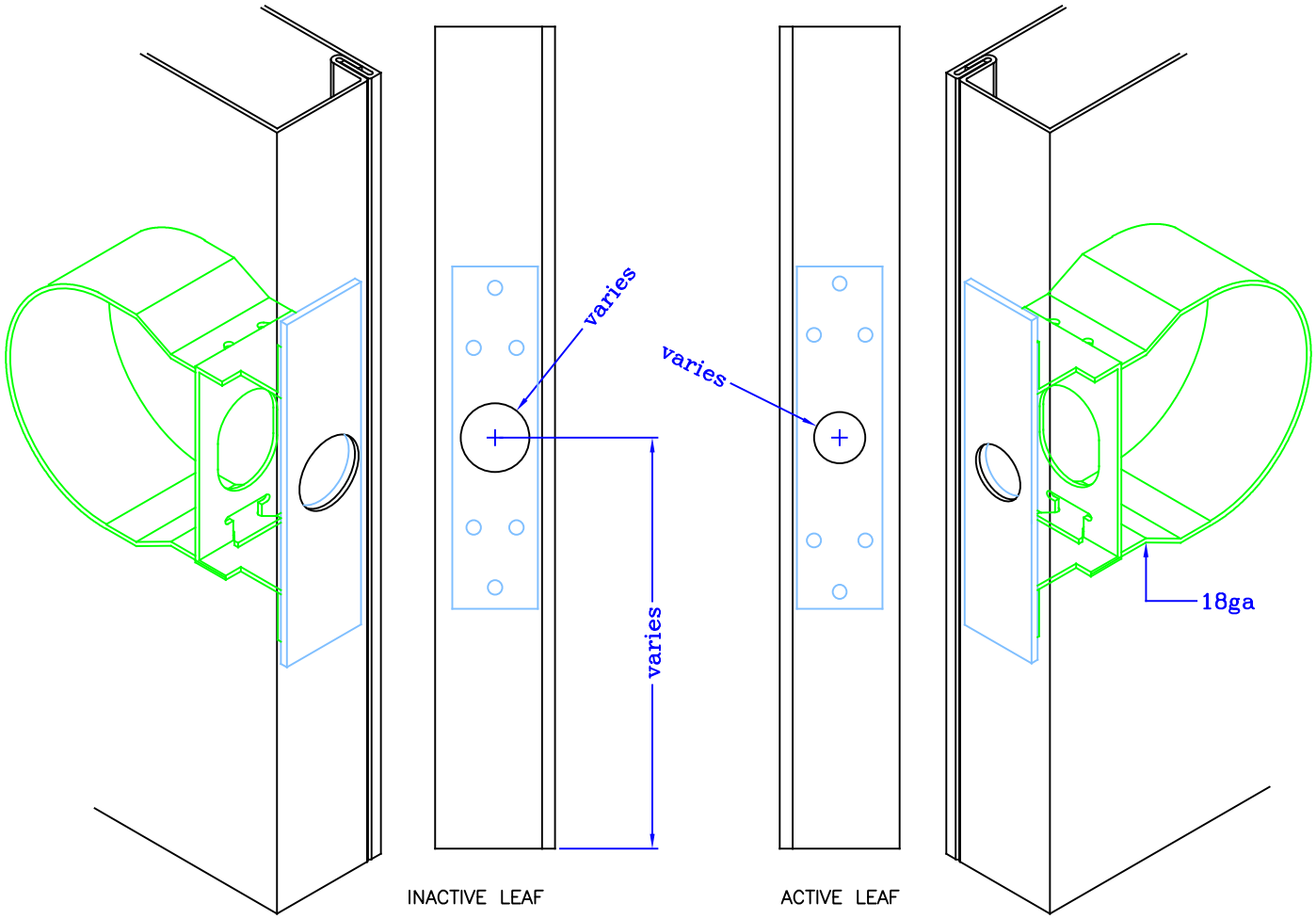






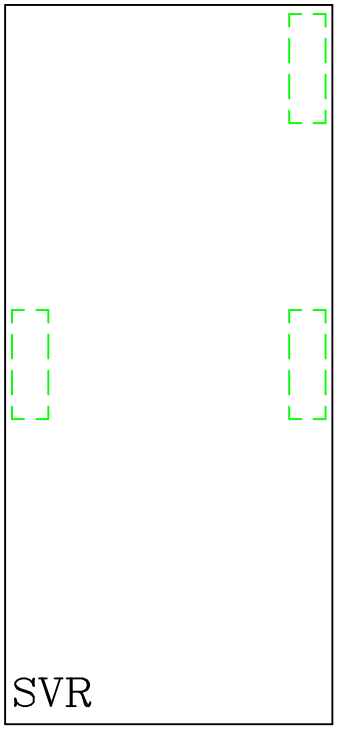
Auxilary fire latch, 12ga

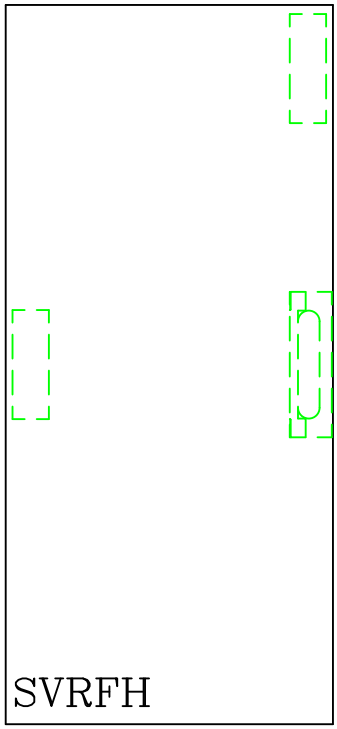
Projection welded

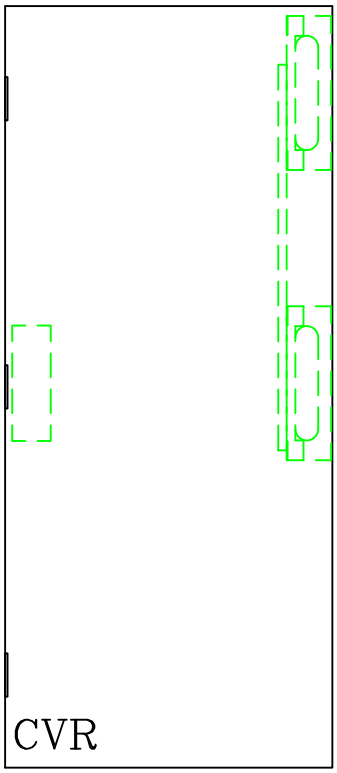


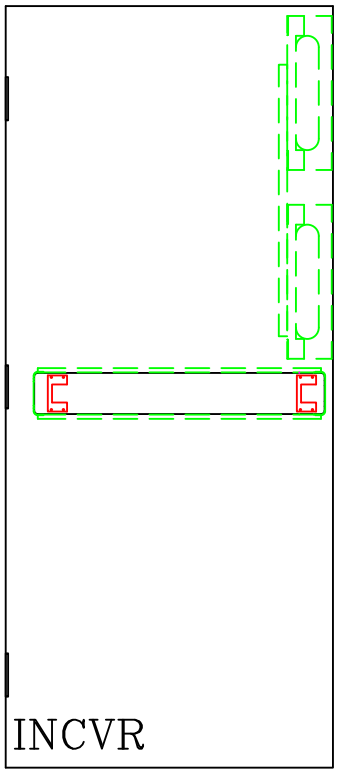
*manufacturer's template to be provided

Less bottom rod







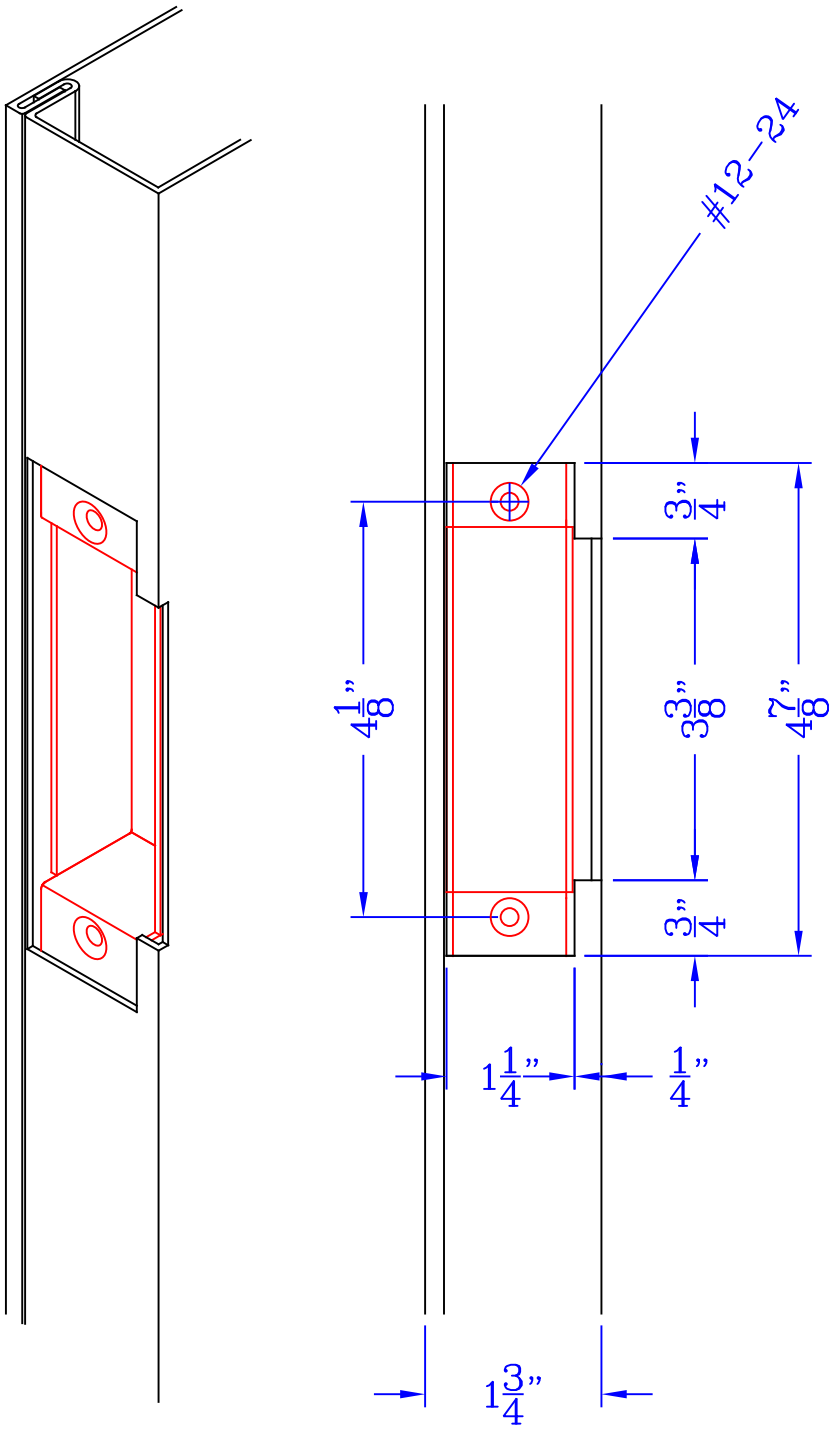


LBR

Less bottom rod prep, will require an auxiliary fire latch for rated door.

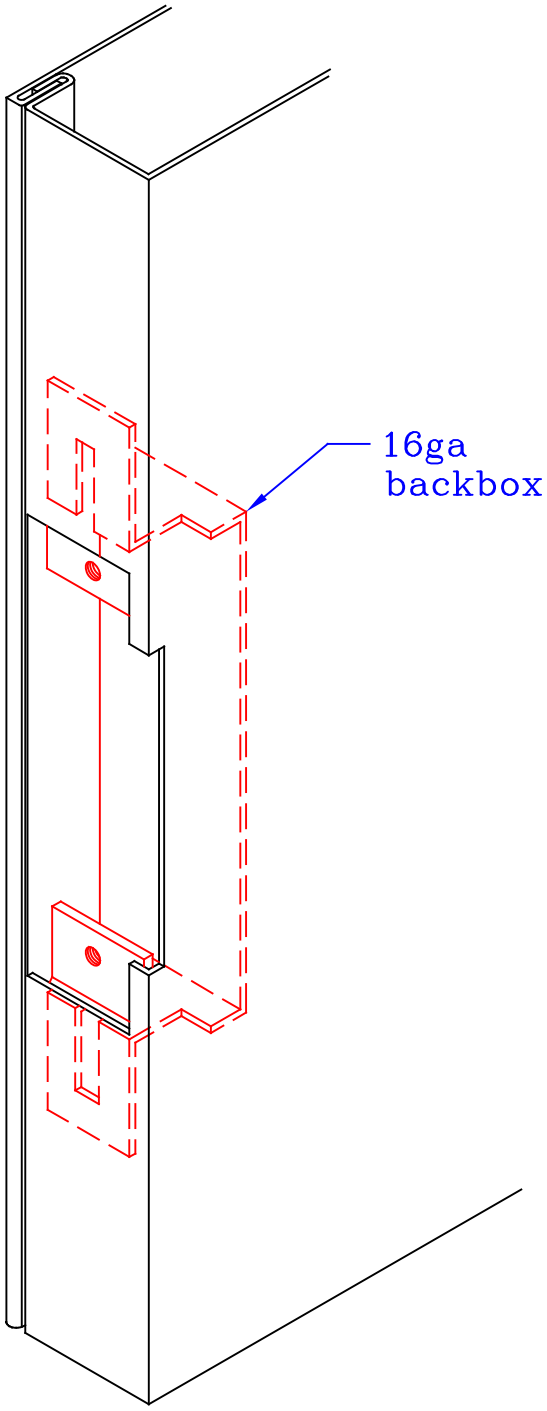
Standard ANSI 4 7/8" strike reinforcement,16ga

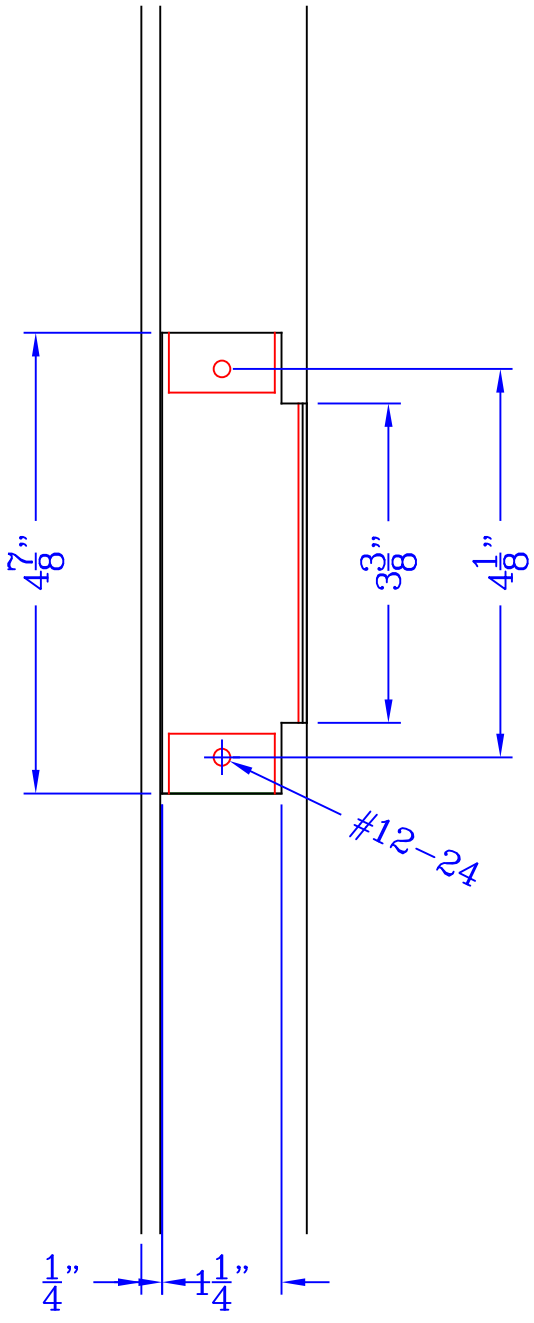
Projection welded



Tapped extruded holes per ANSI/SDI A250.6.

Standard ANSI 4 7/8" strike reinforcement, 12ga
Projection welded

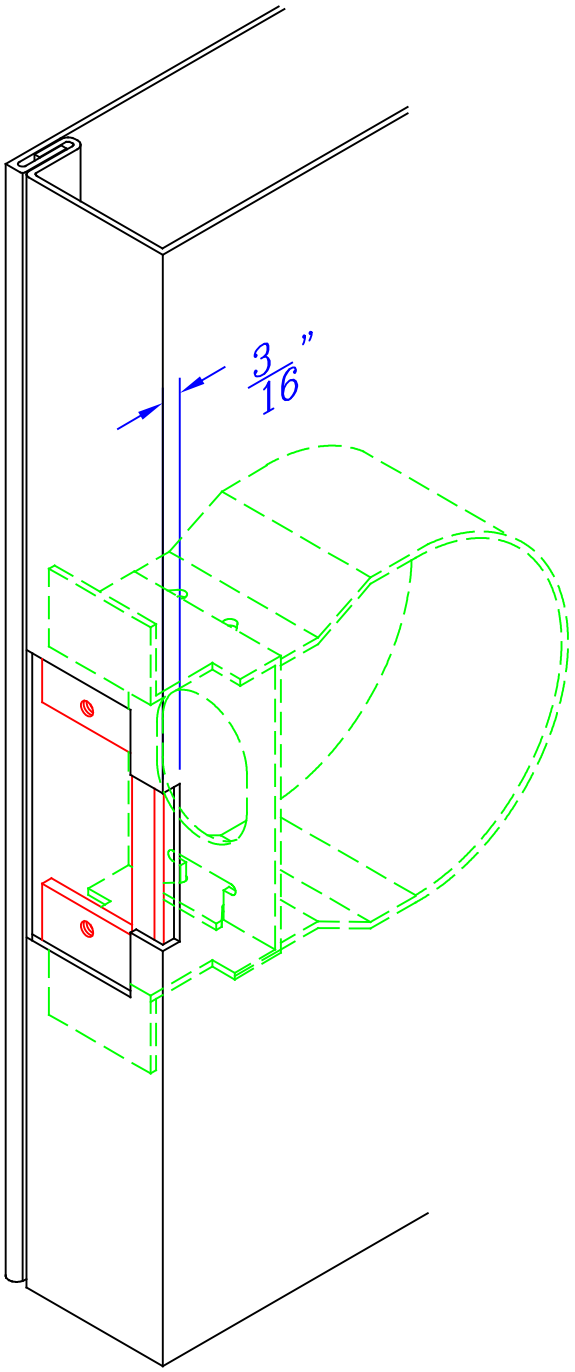


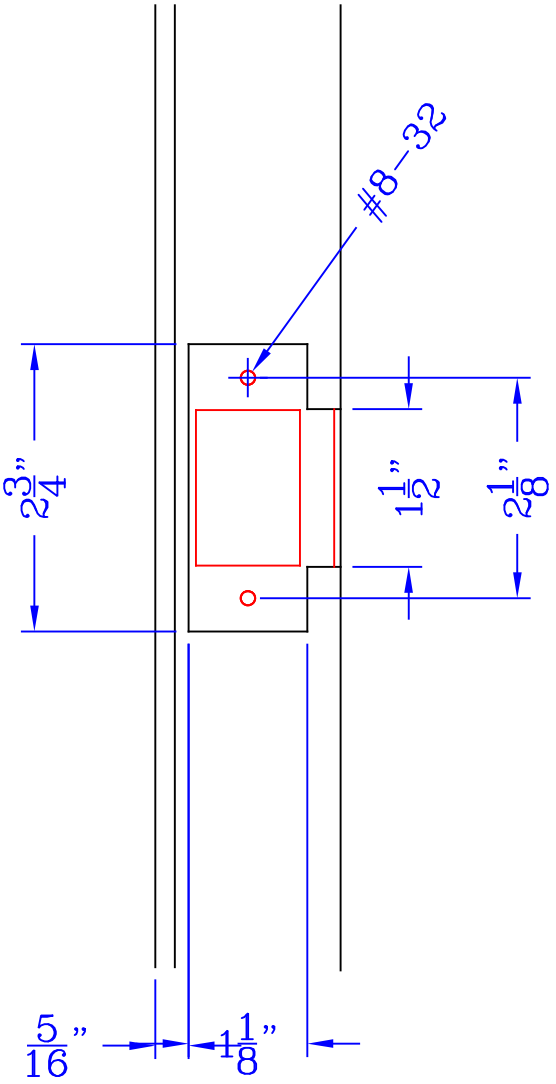


ASA12

Standard 2 3/4" "T" strike reinforcement, 12ga

Projection welded

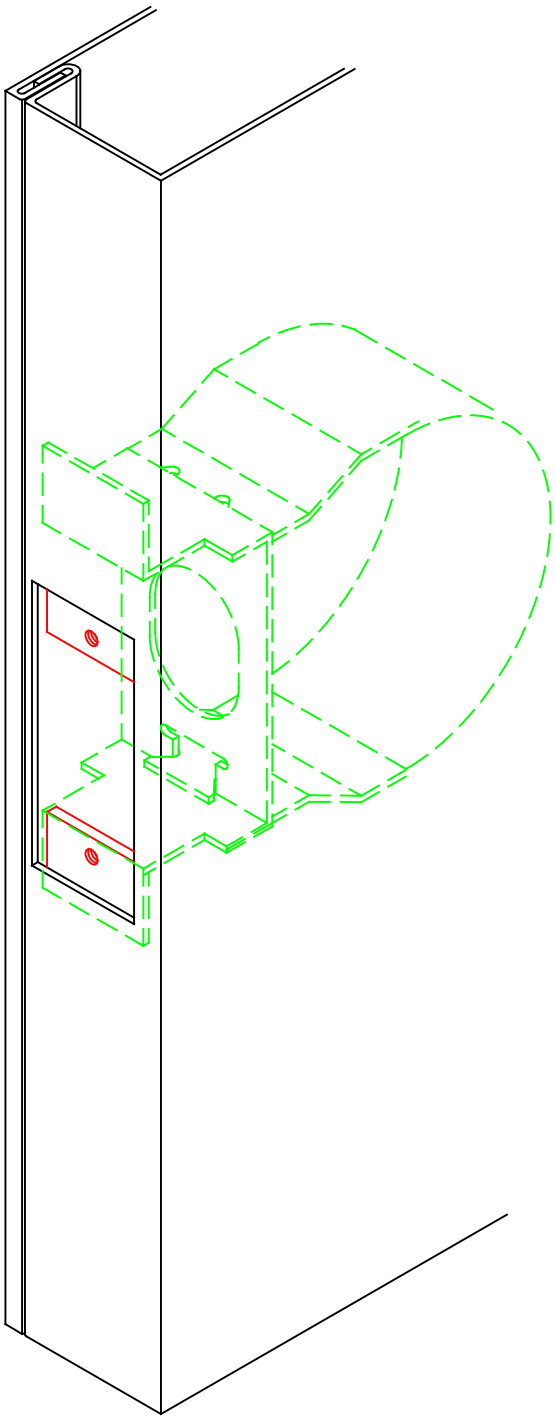


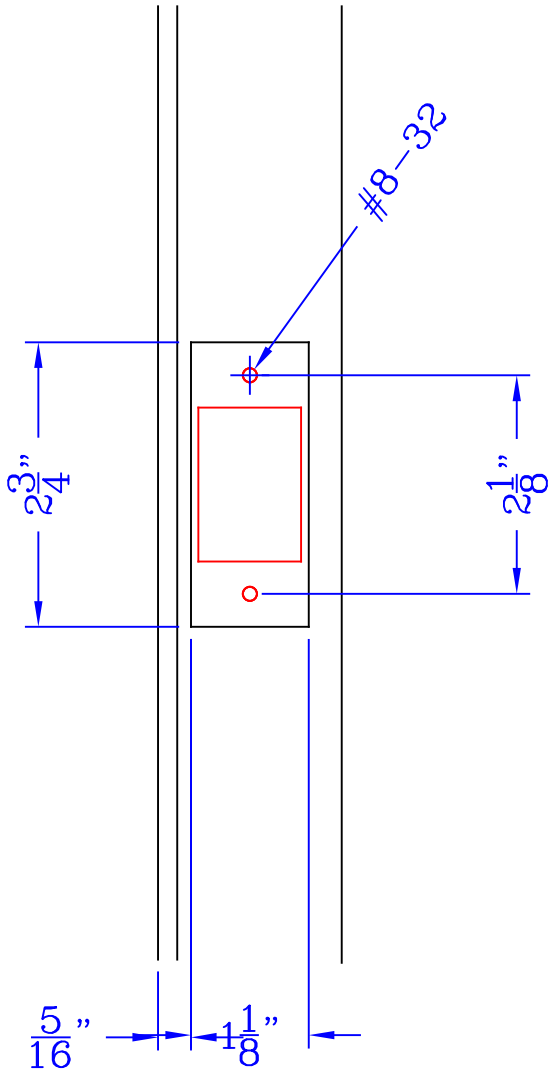


T

Cylindrical dead lock strike reinforcement, 12ga

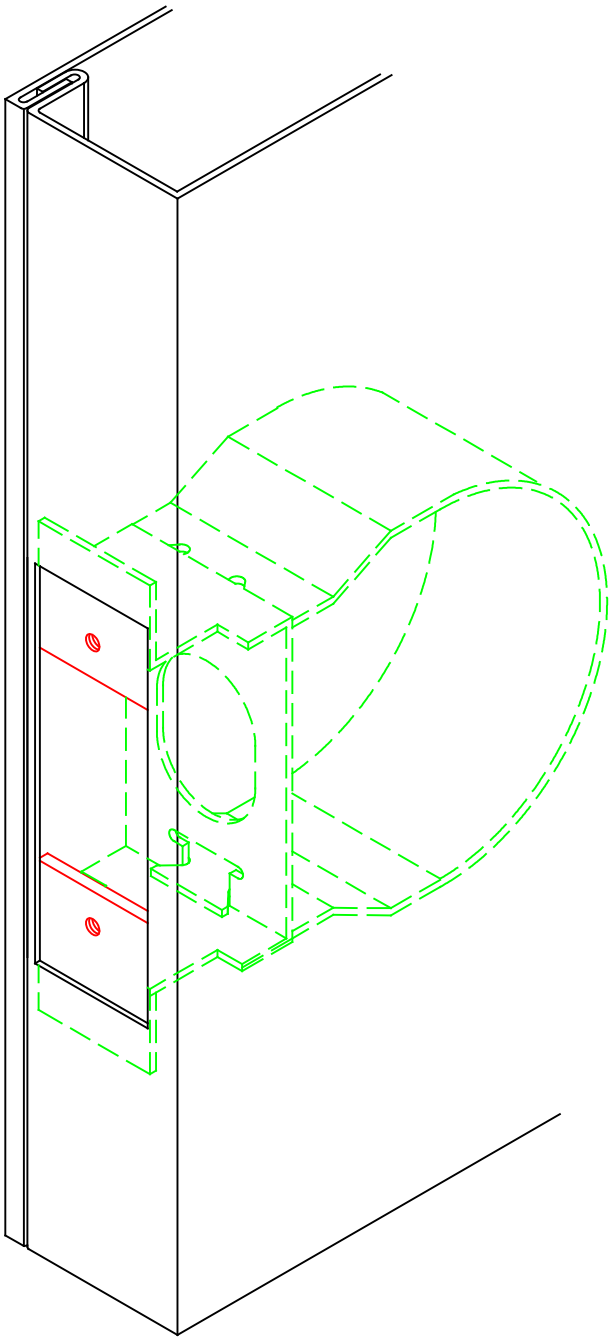
Projection welded

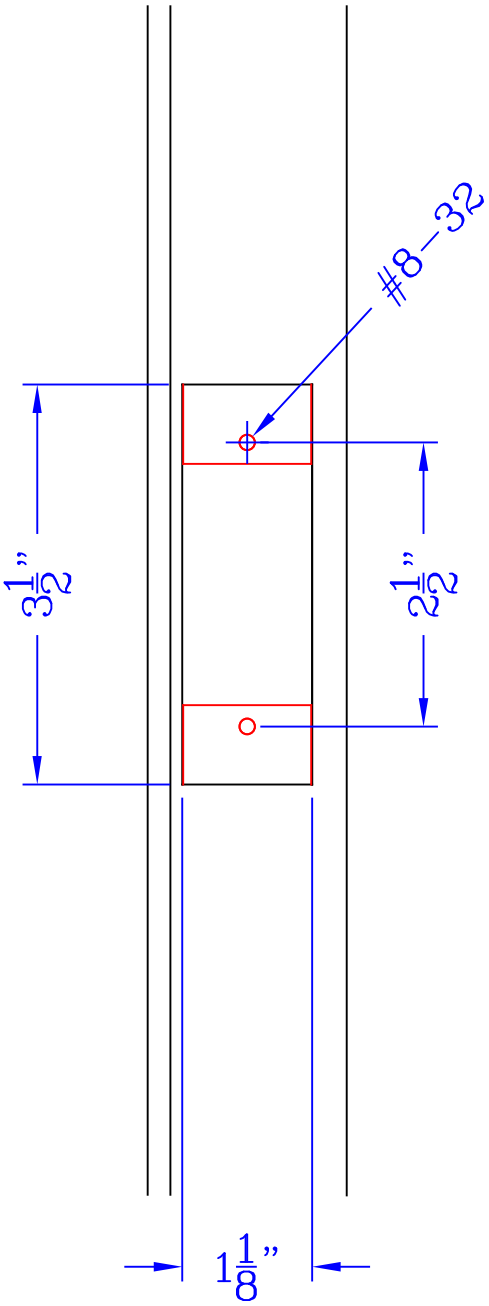




3 1/2" mortise dead lock strike reinforcement, 12ga

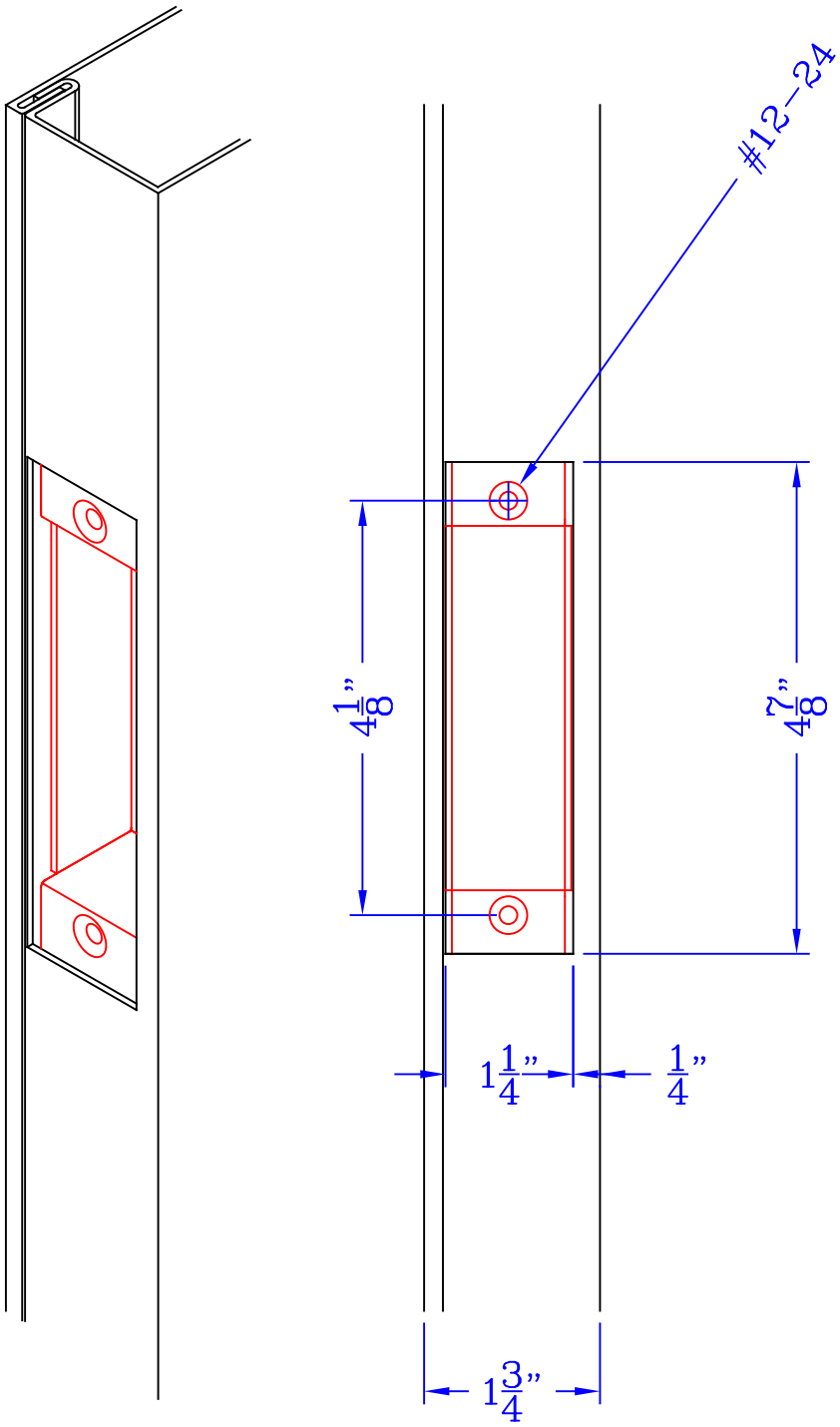
Projection welded





DL312M

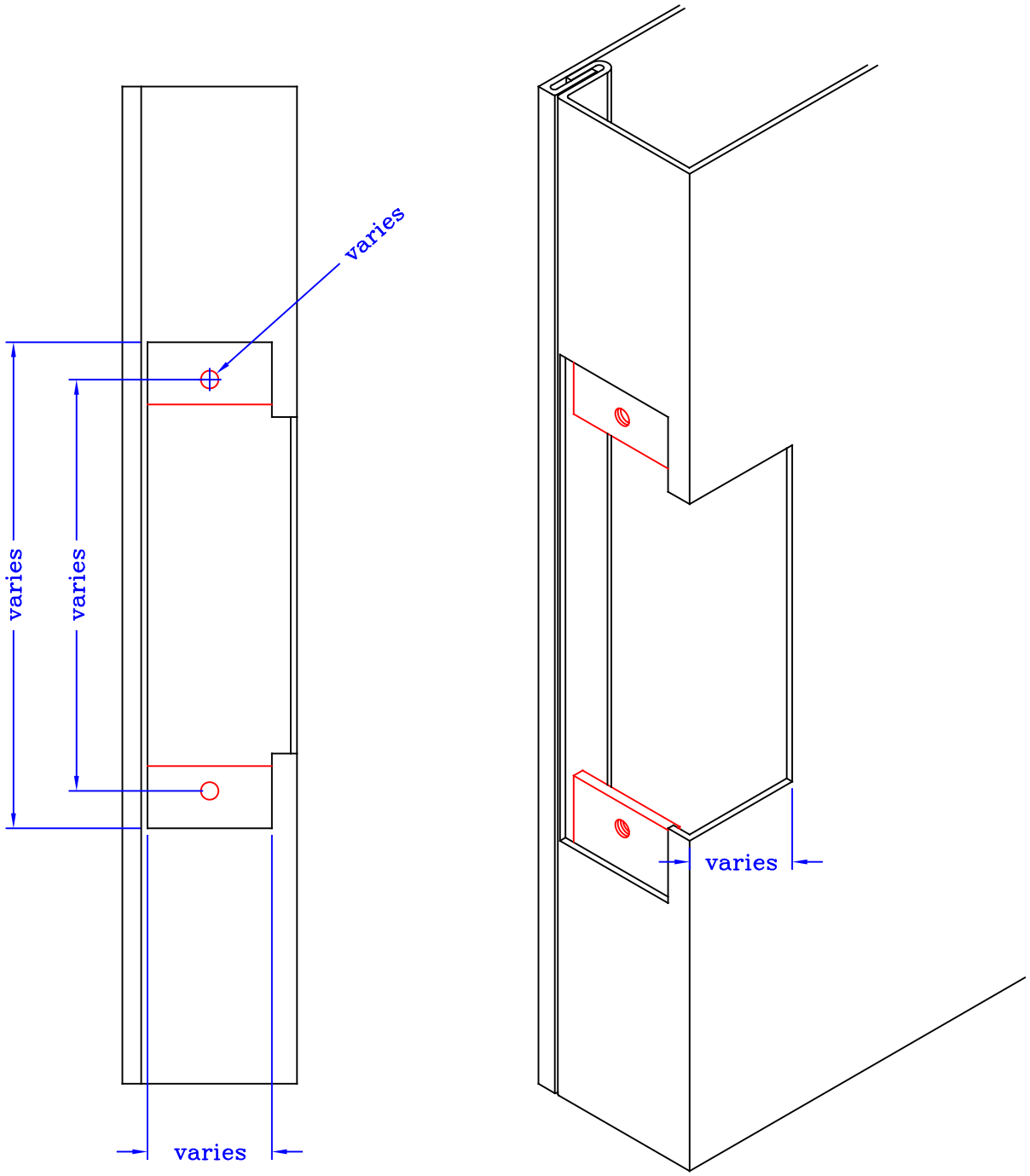
Standard ANSI 4 7/8" deadlock strike reinforcement,16ga
Projection welded



Tapped extruded holes per ANSI/SDI A250.6.

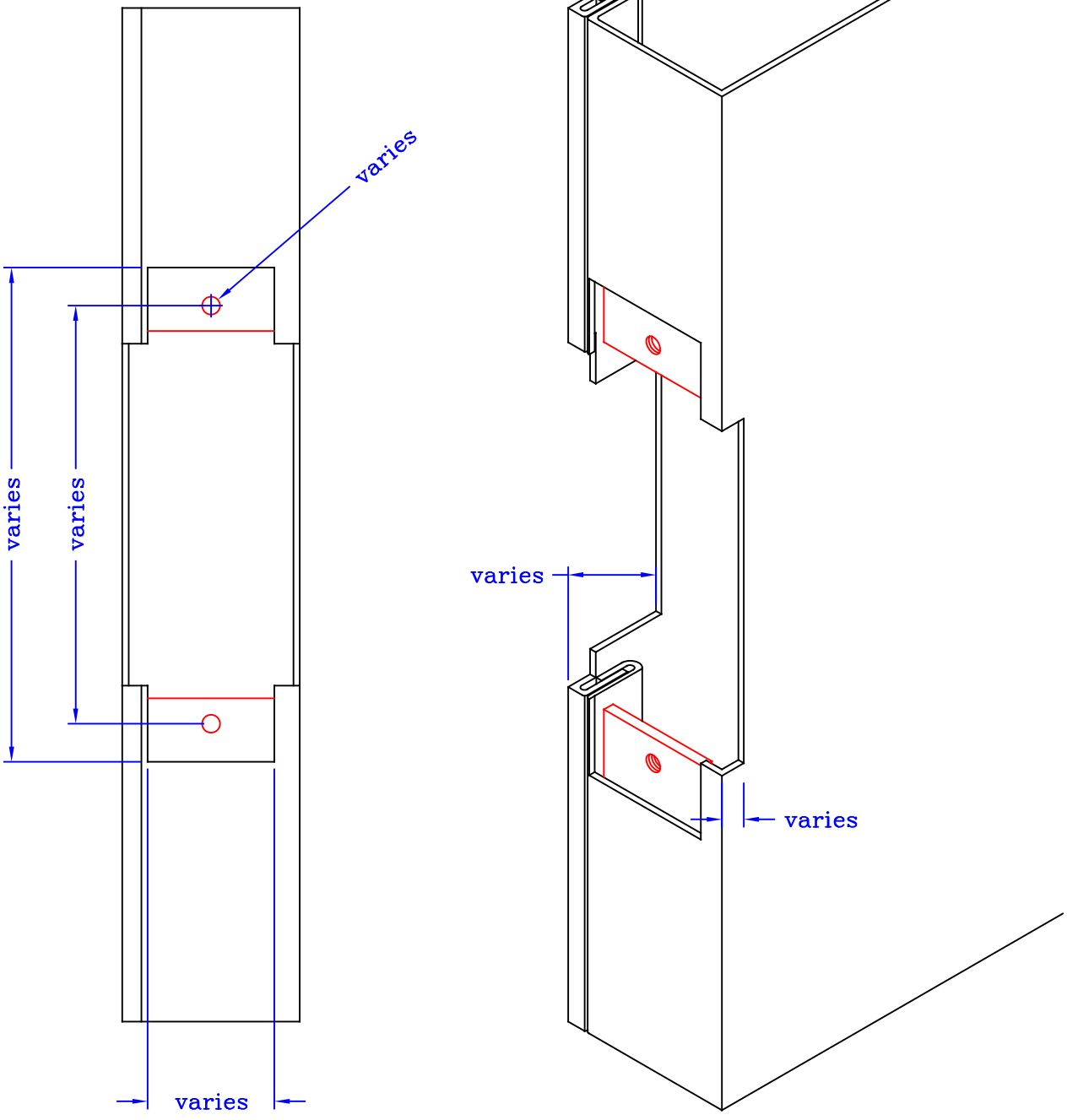
Prep. for electric strike, 12ga

Projection welded



*manufacturer's template to be provided

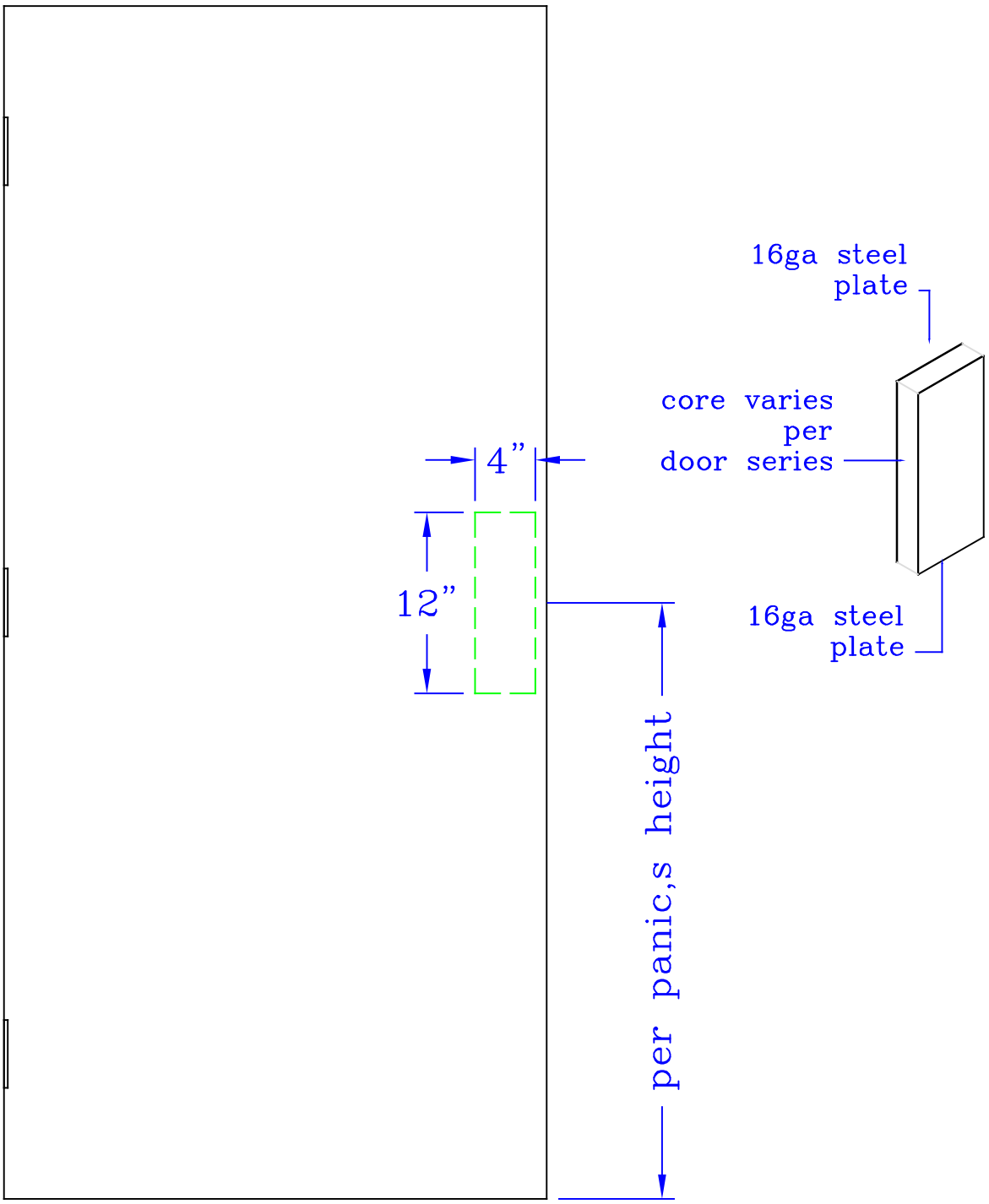
Prep. for open back strike, 12ga
Projection welded



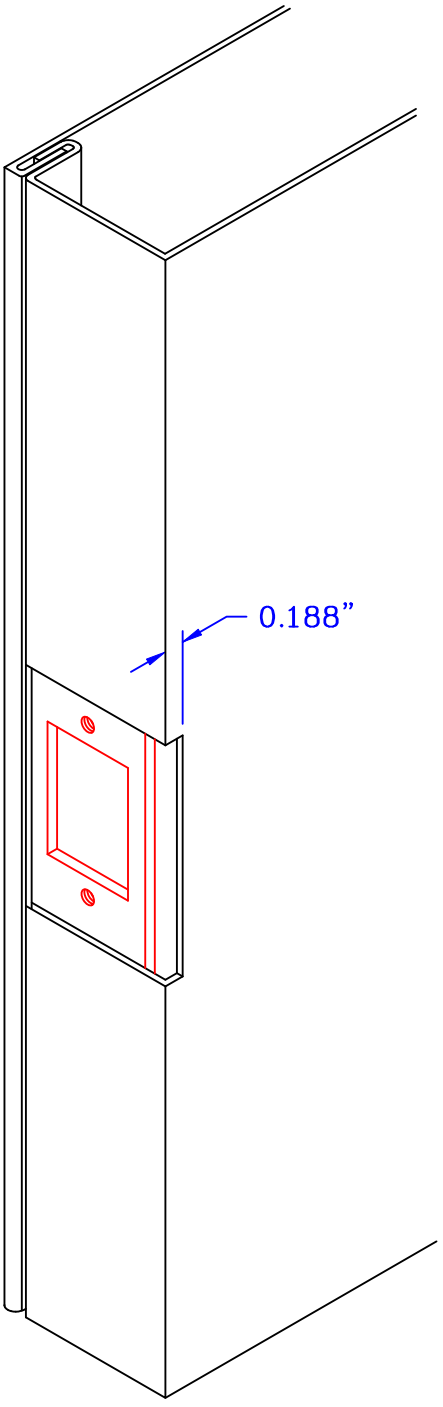
OBS

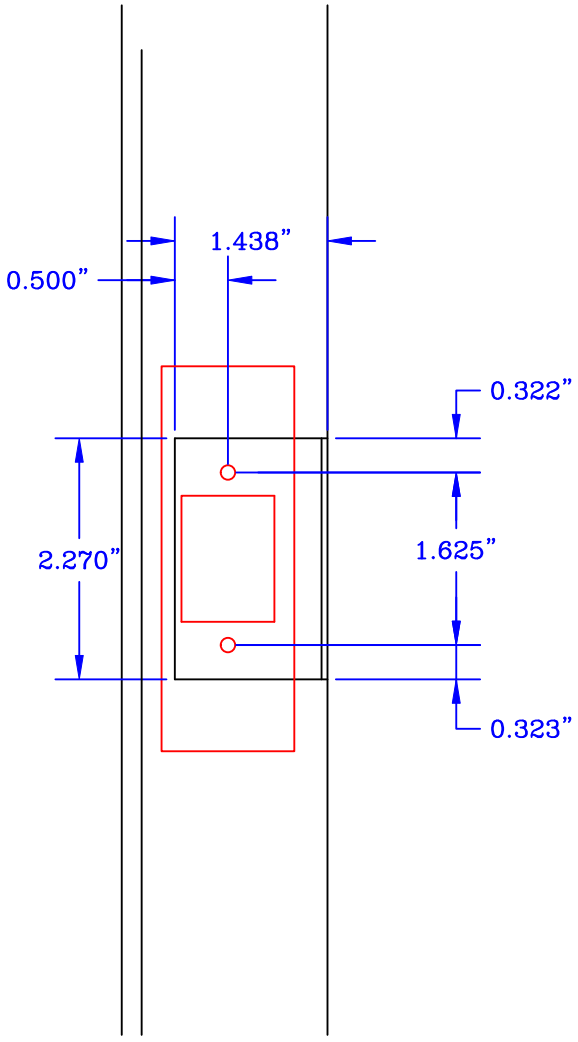
*manufacturer's template to be provided

Rim strike reinforcement, 16ga
Cold fused



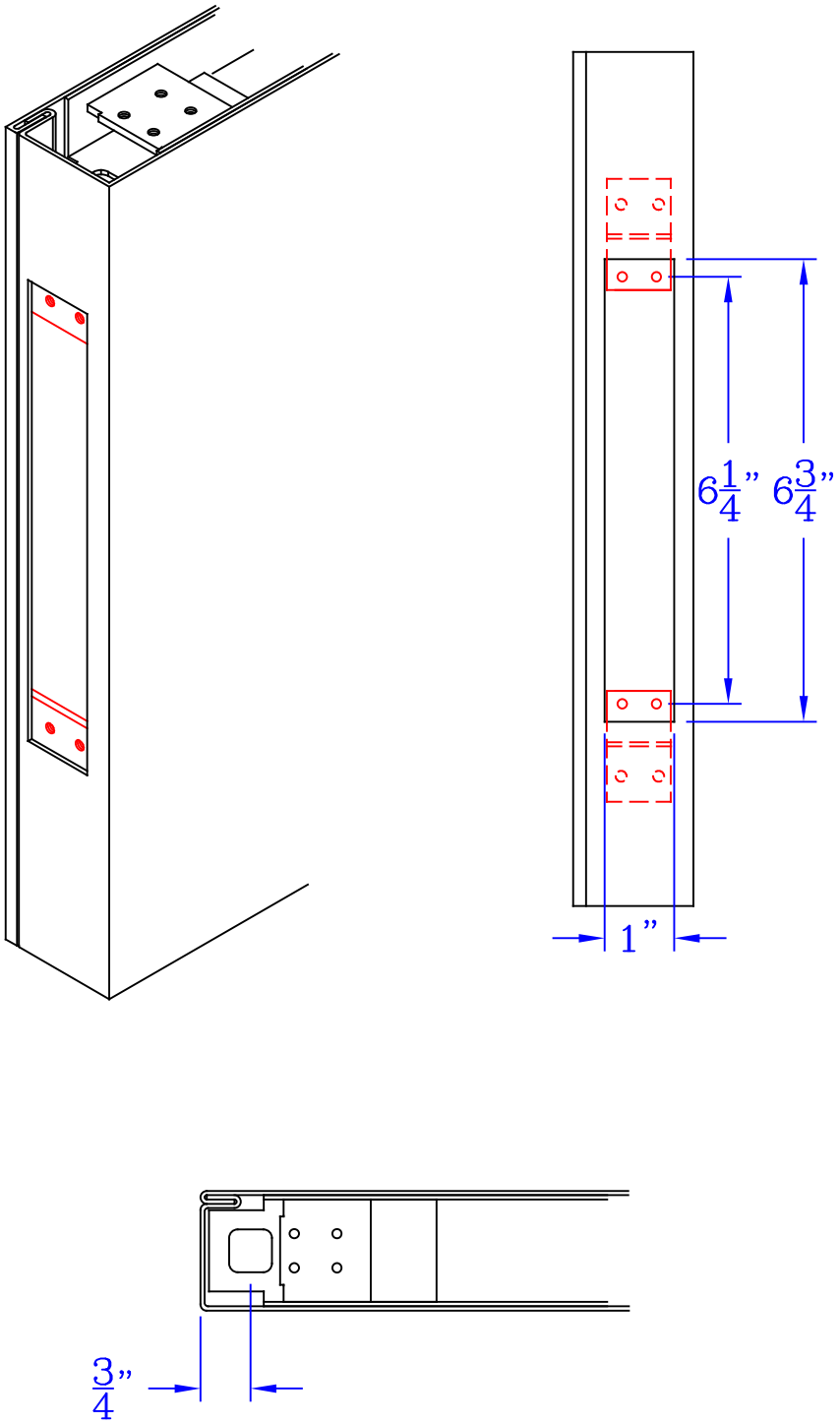
Full strike reinforcement, 12ga
Projection welded





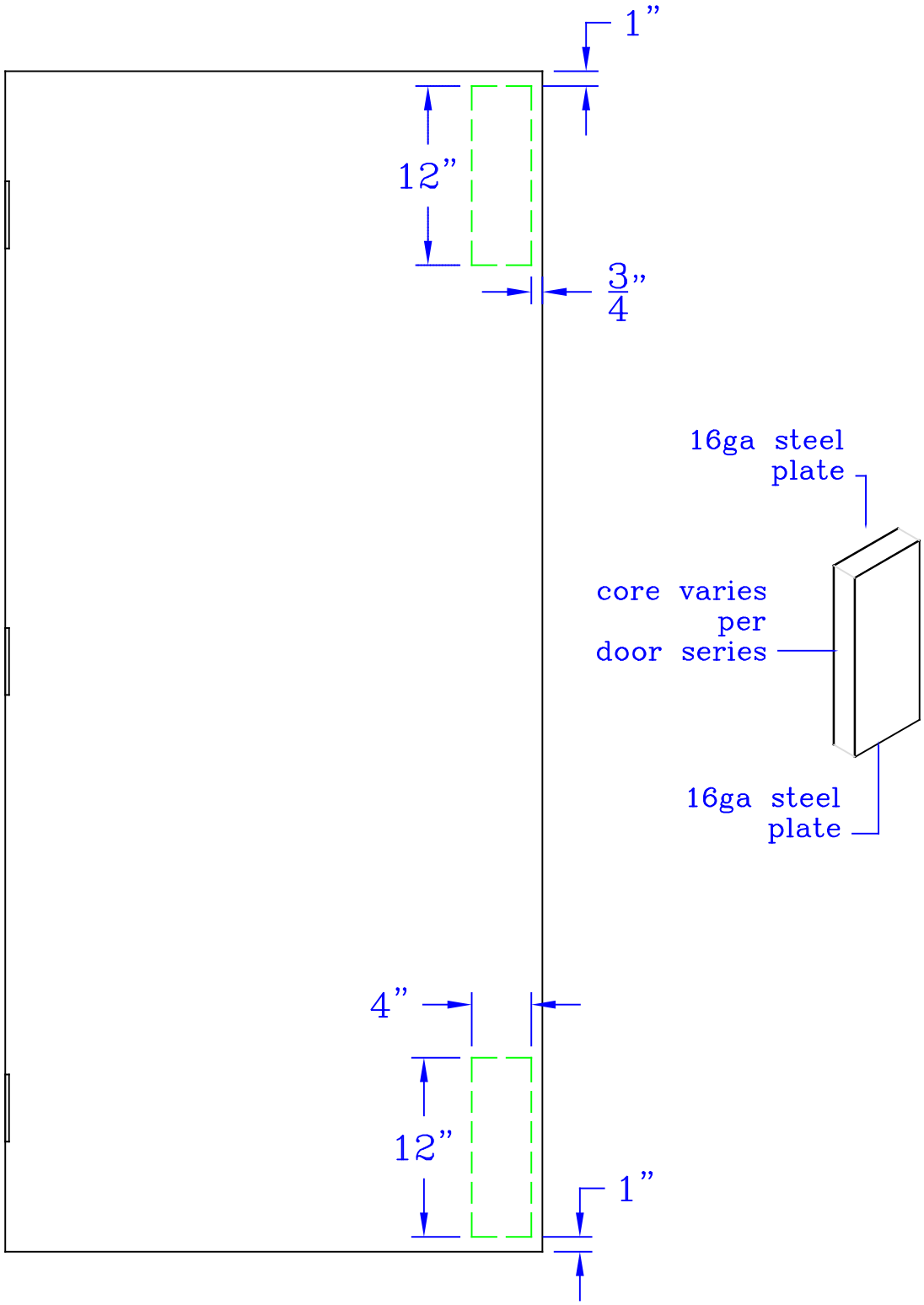
Ansi 156-16 flush bolt reinforcements, 12ga

Projection welded



Up to 8'0" top rod at 12", must specify if door over 8'0"

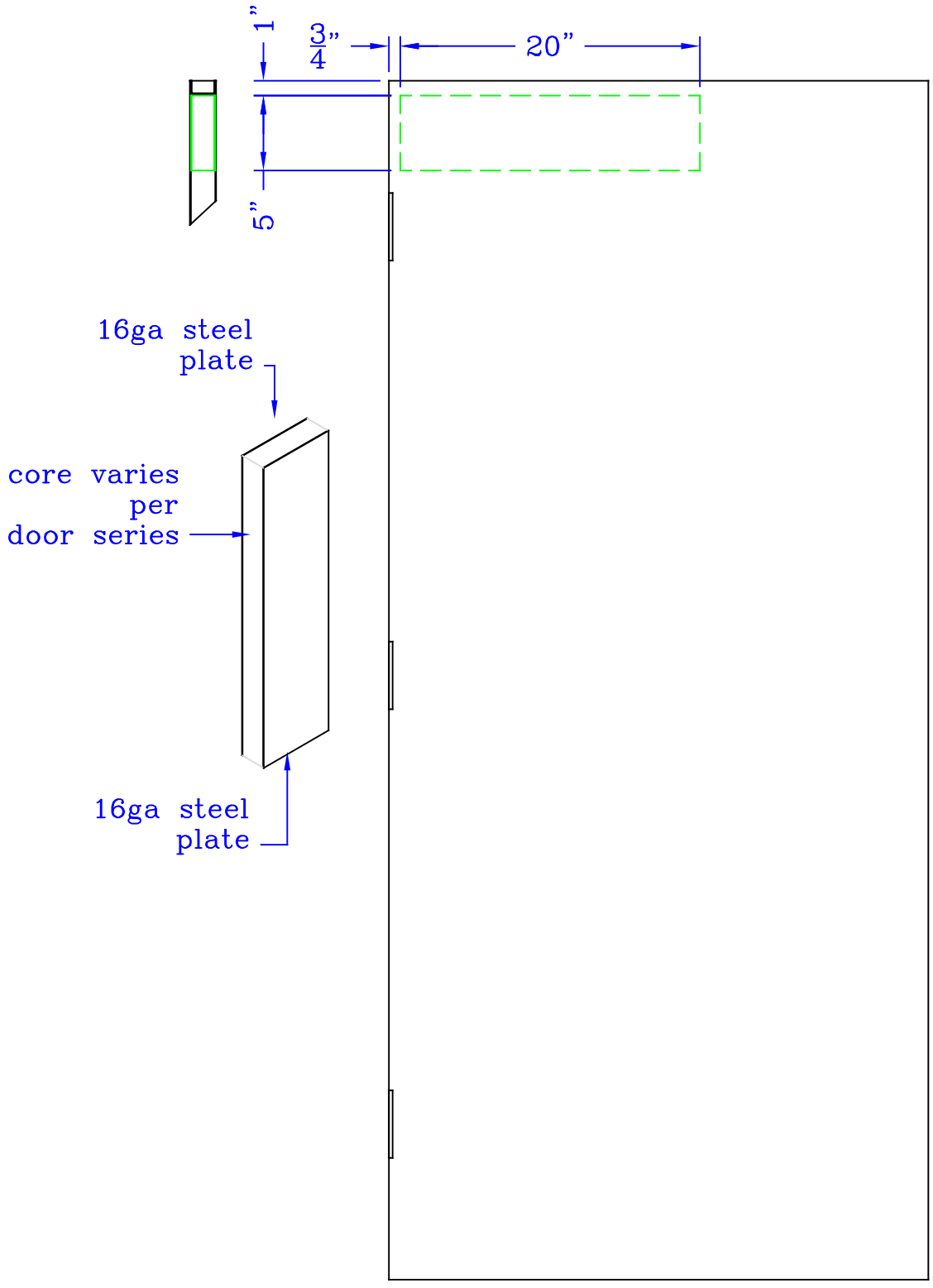
Surface bolt reinforcement, 16ga
Cold fused



SB

Standard closer reinforcement, 16ga

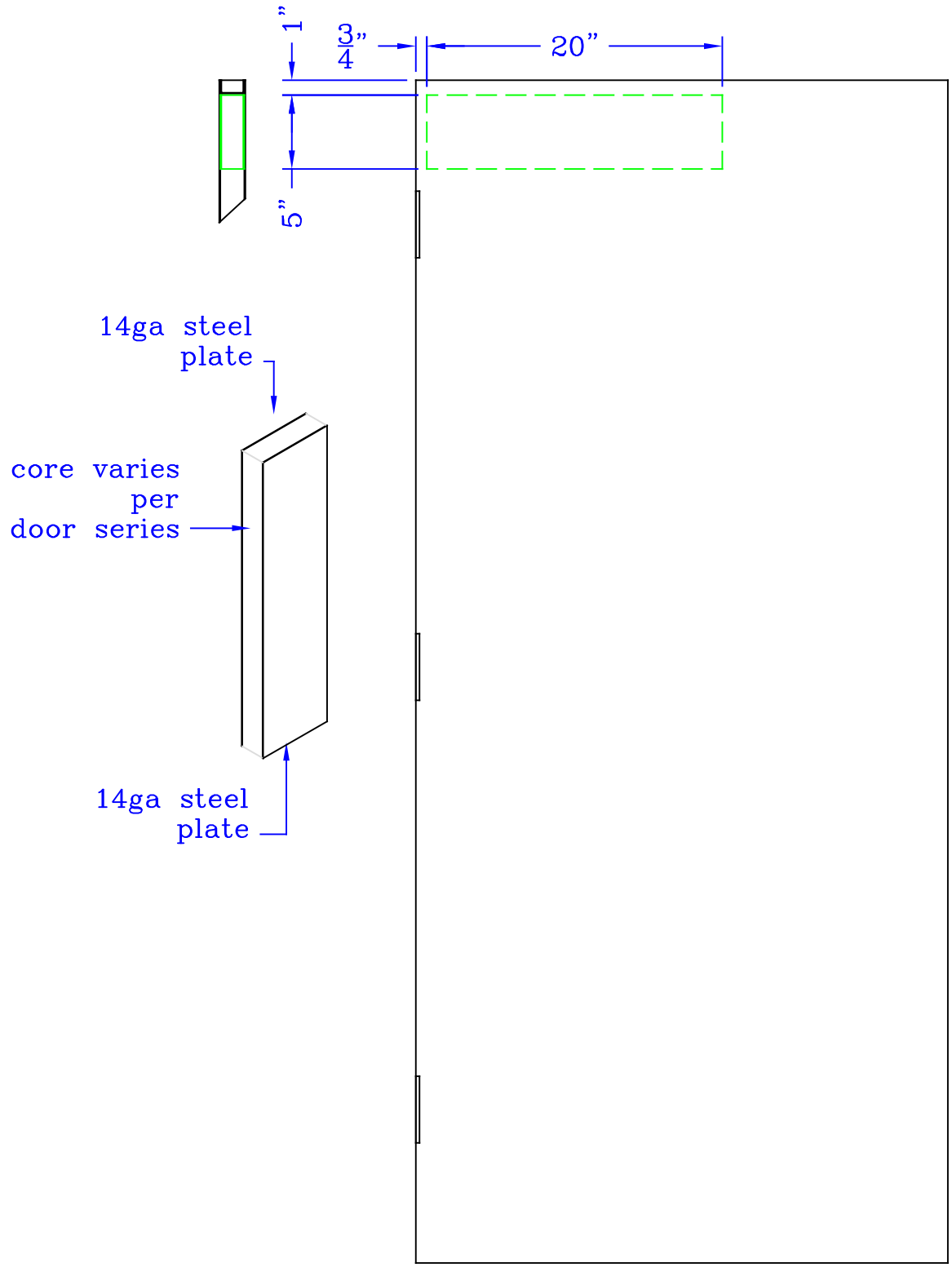
Cold fused



CL16

Standard closer reinforcement, 14ga

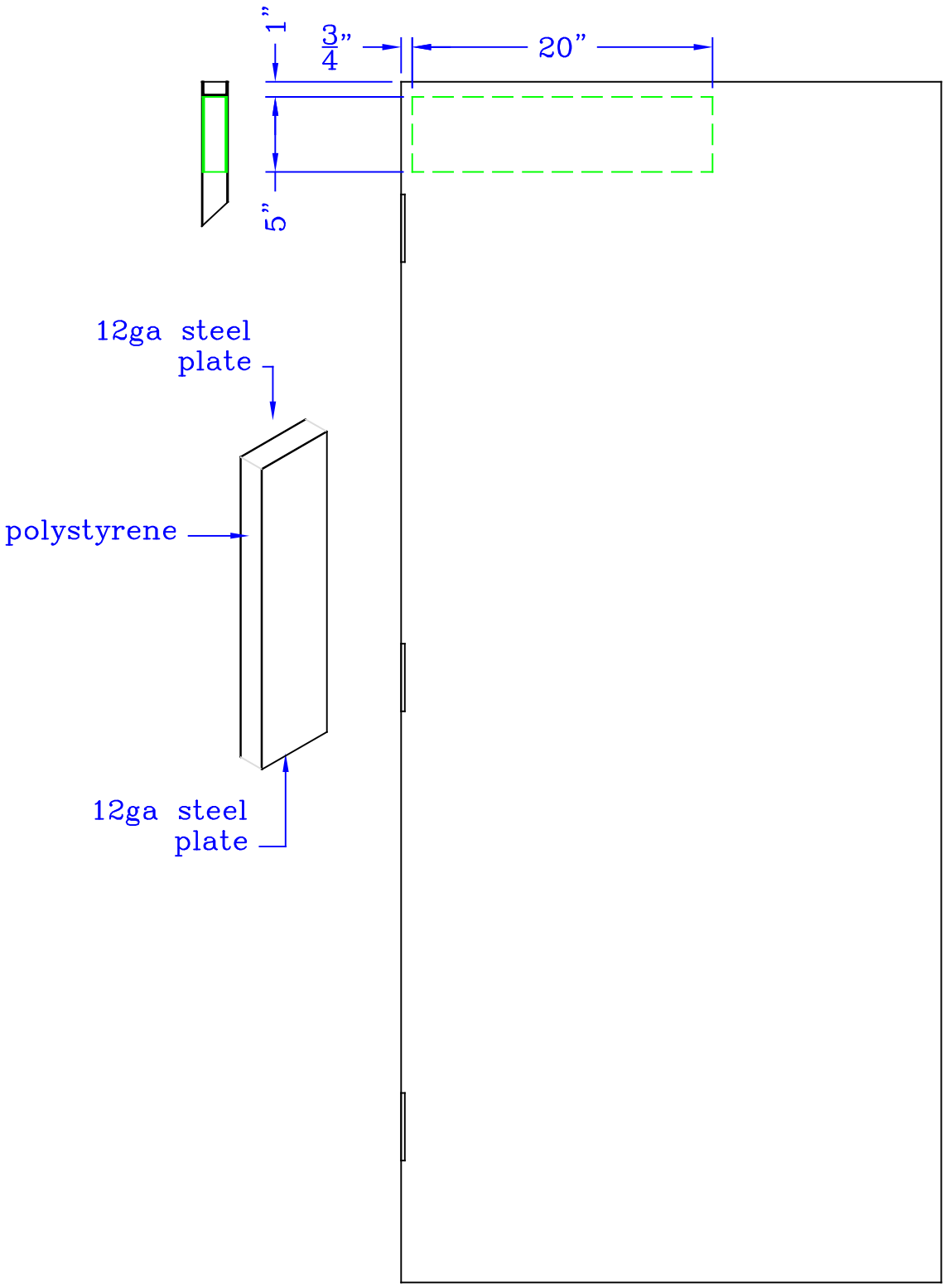
Cold fused



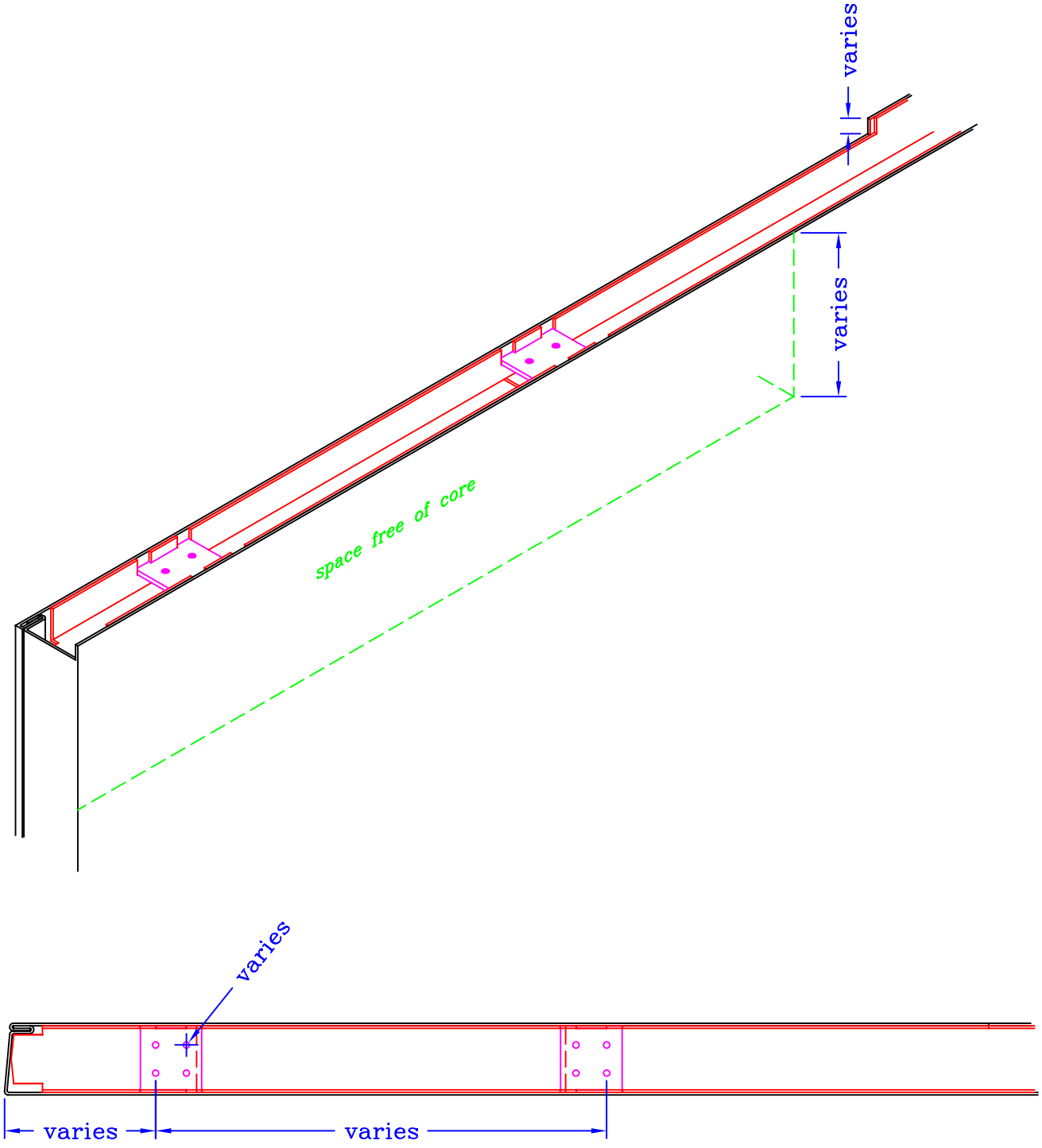
CL14

Standard closer reinforcement, 12ga

Cold fused

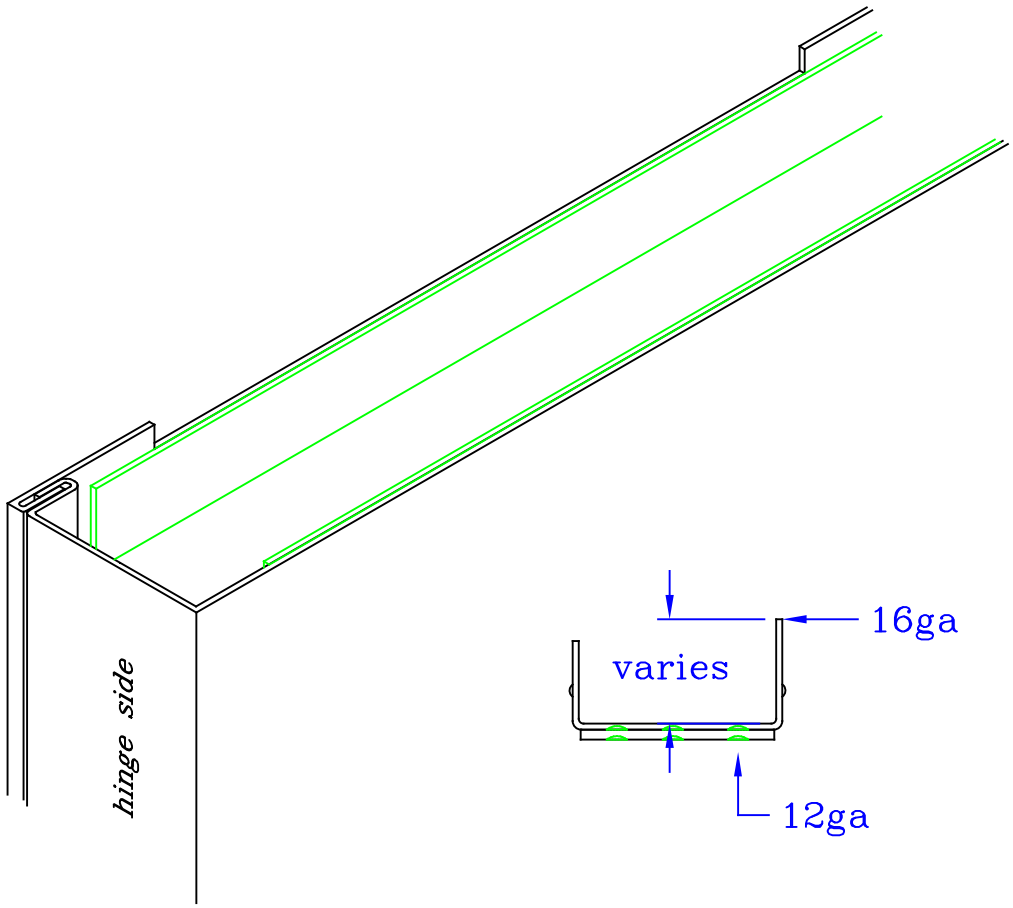


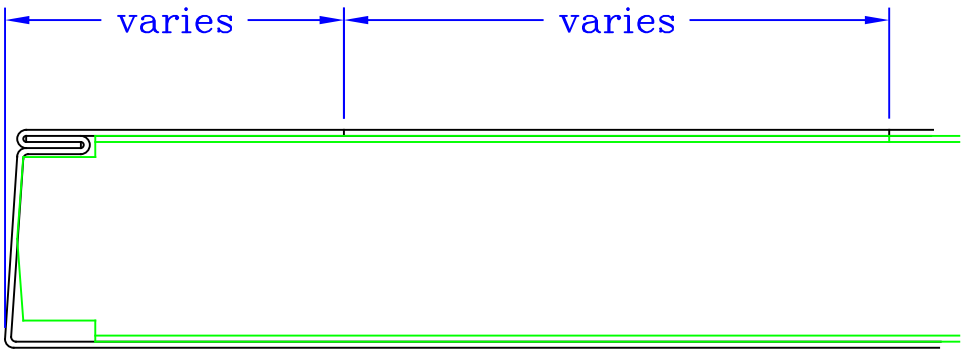
Concealed in door closer prep.,12ga



*manufacturer's template to be provided
Top cap options not available

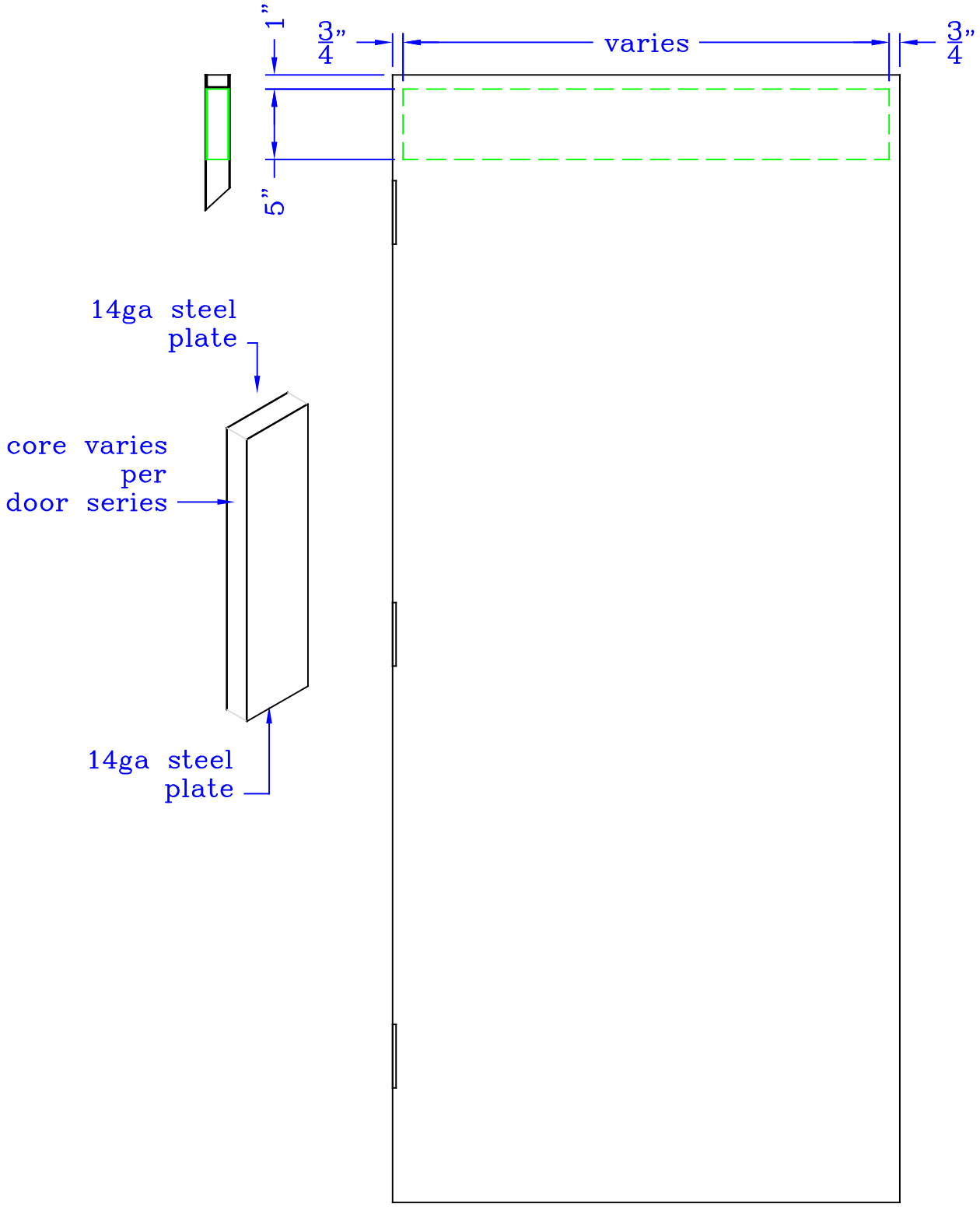
Prep. for concealed overhead stop





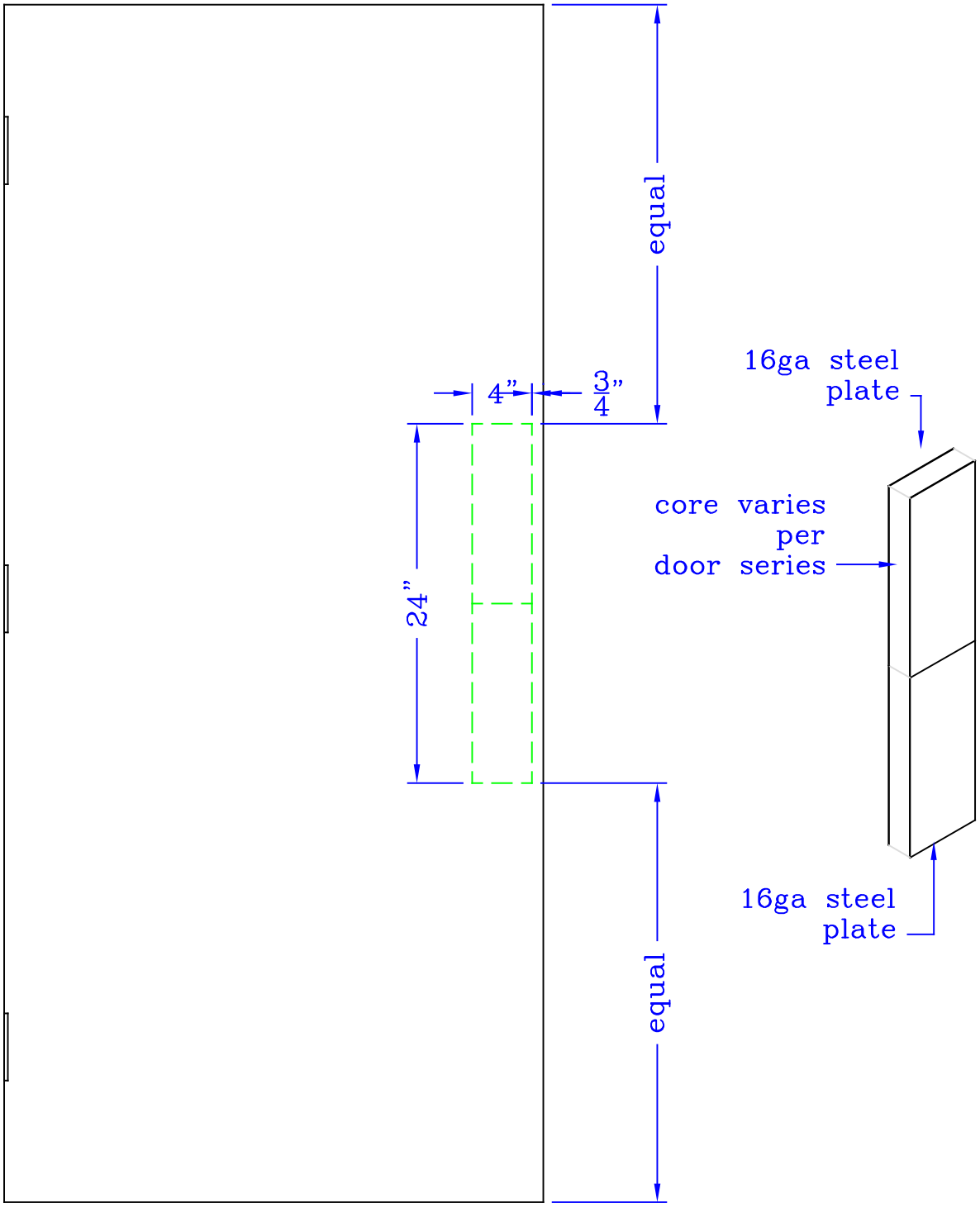
*manufacturer's template to be provided
Top cap options not available

Full width closer reinforcement, 14ga
Cold fused



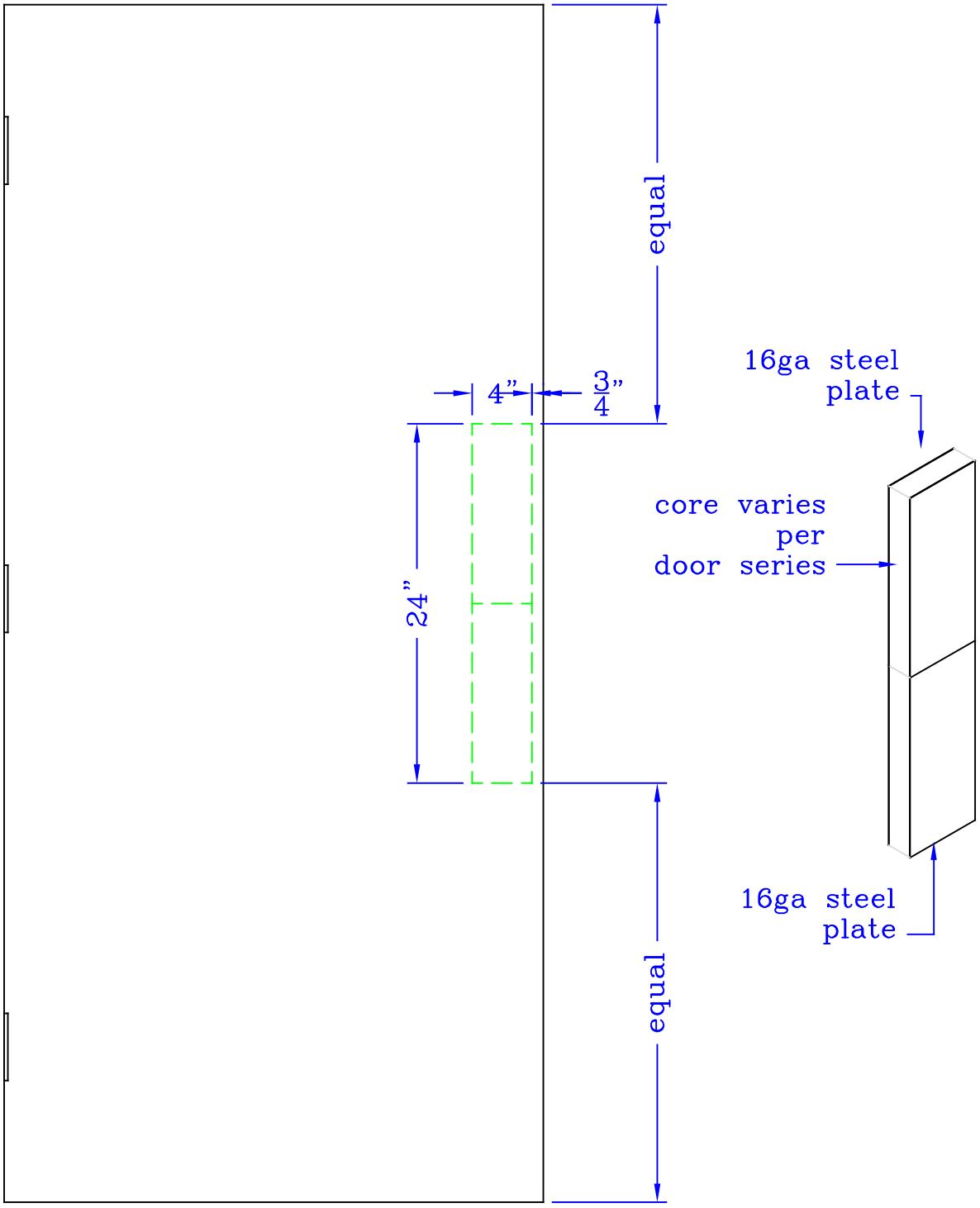
FWCR

Push and pull reinforcement, 16ga
Cold fused



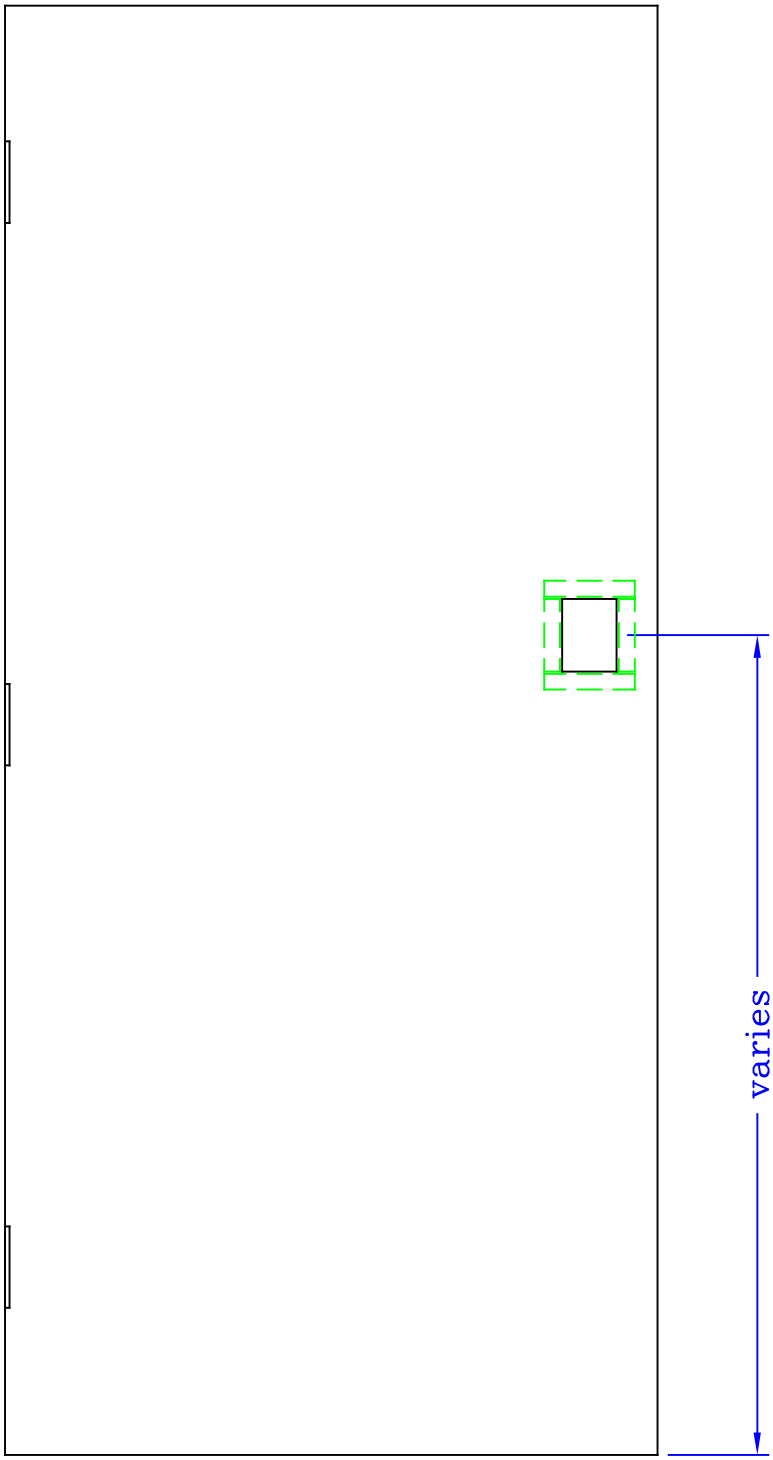
PP

Pull with grab bar reinforcement, 16ga
Cold fused



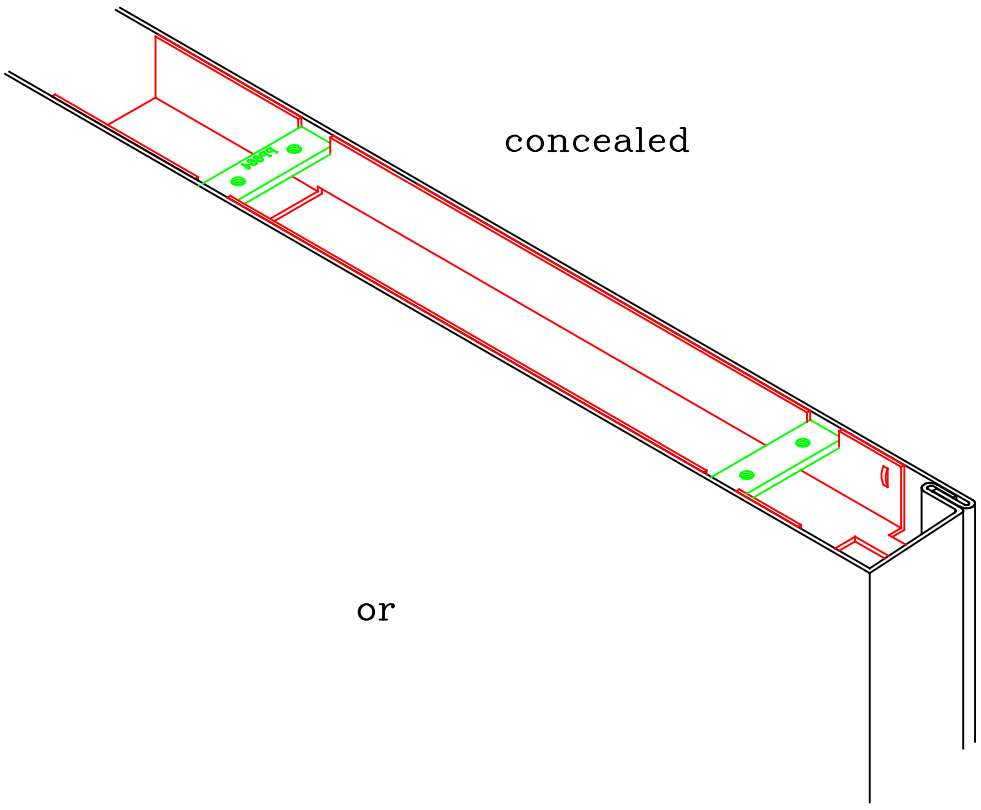
PGB

Flush pull with capping (push, pull or both sides), 18ga
Cold fused

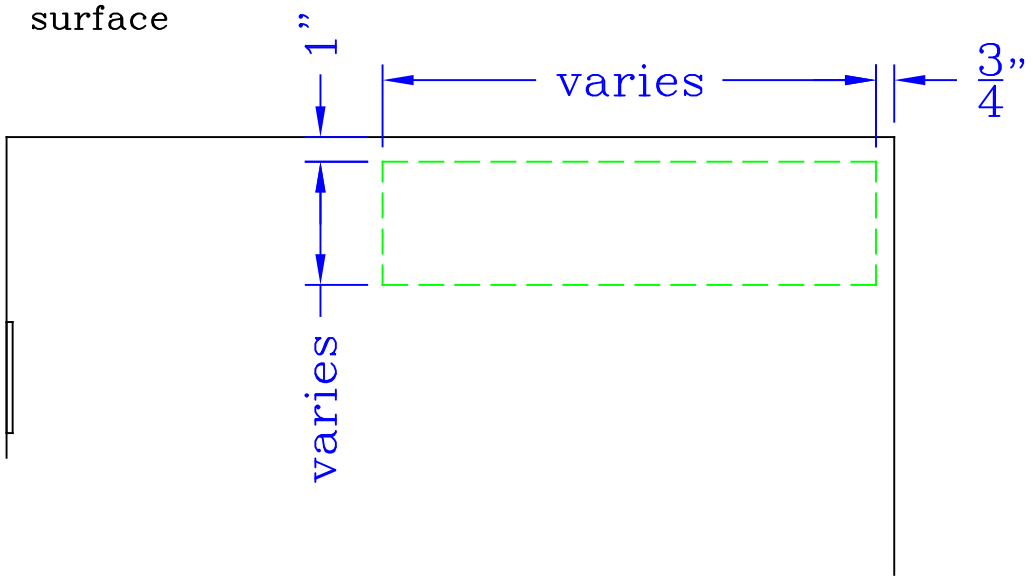


*manufacturer's template to be provided

Shearlock reinforcement



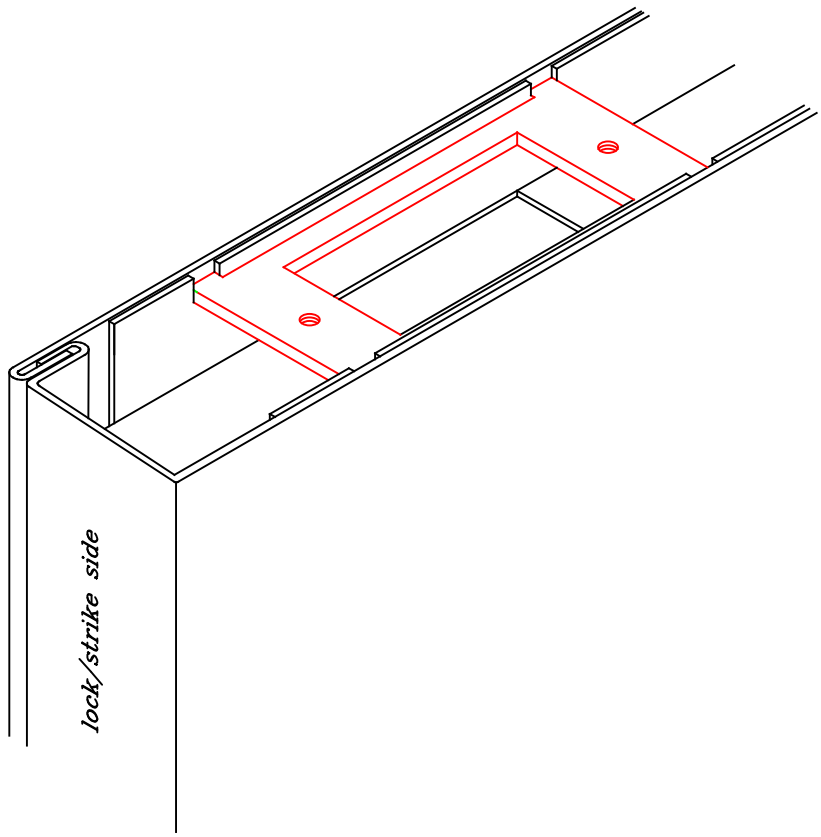
or

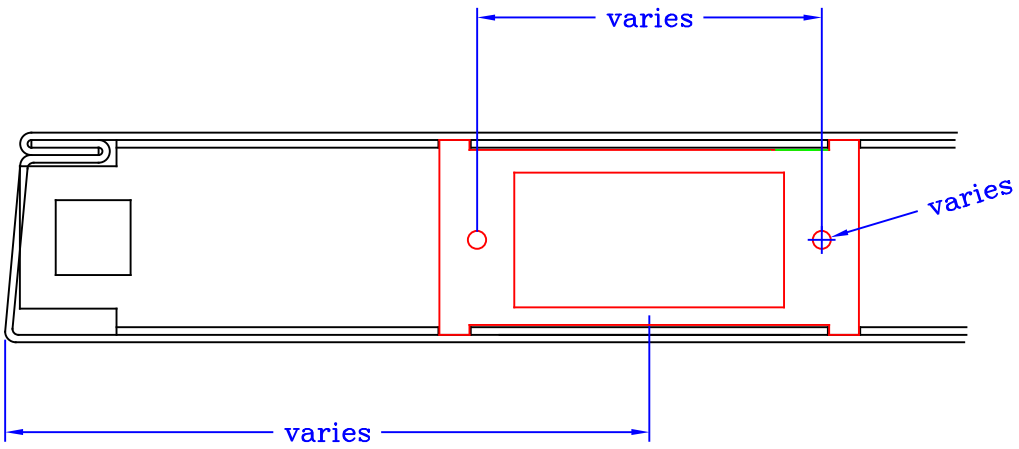


*manufacturer's template to be provided

Roller latch/catch prep., 12ga

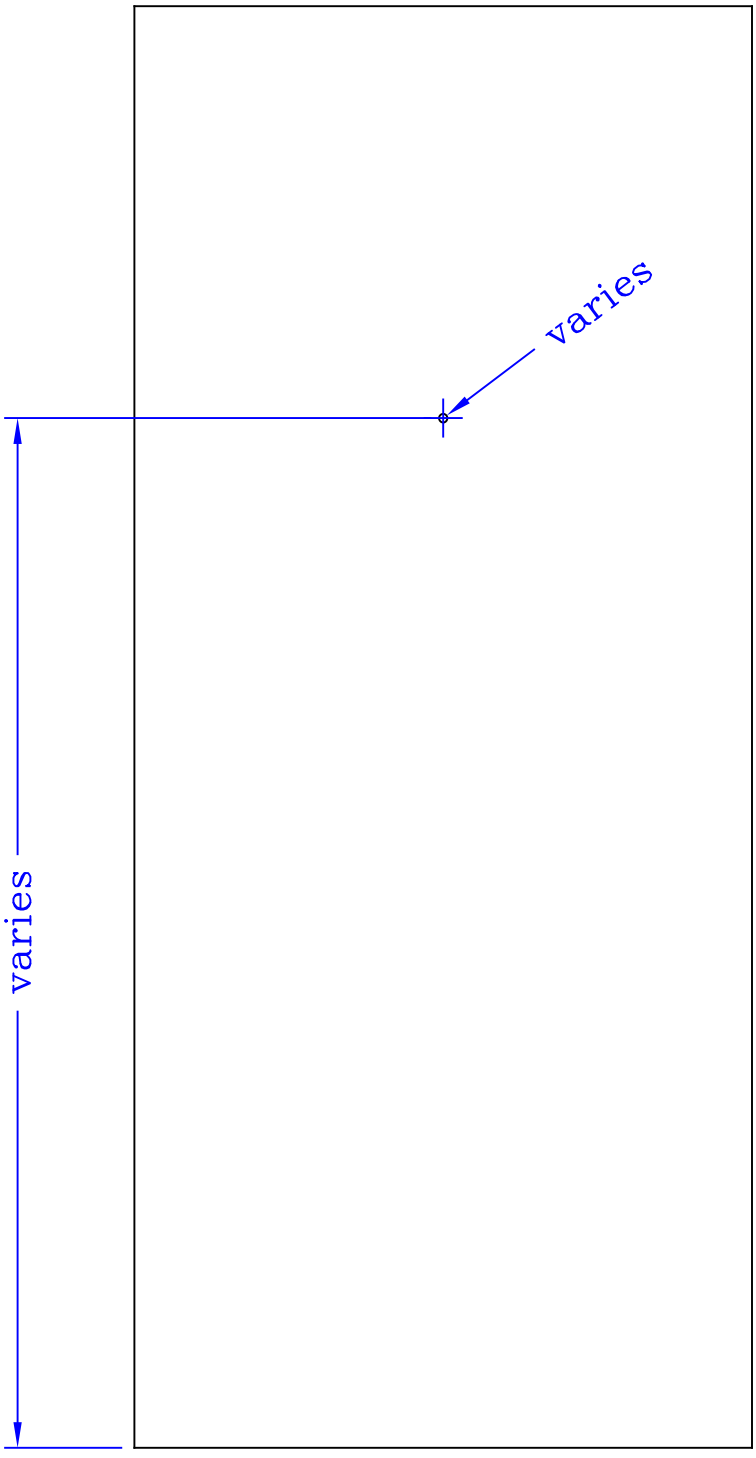
tack welded





*manufacturer's template to be provided

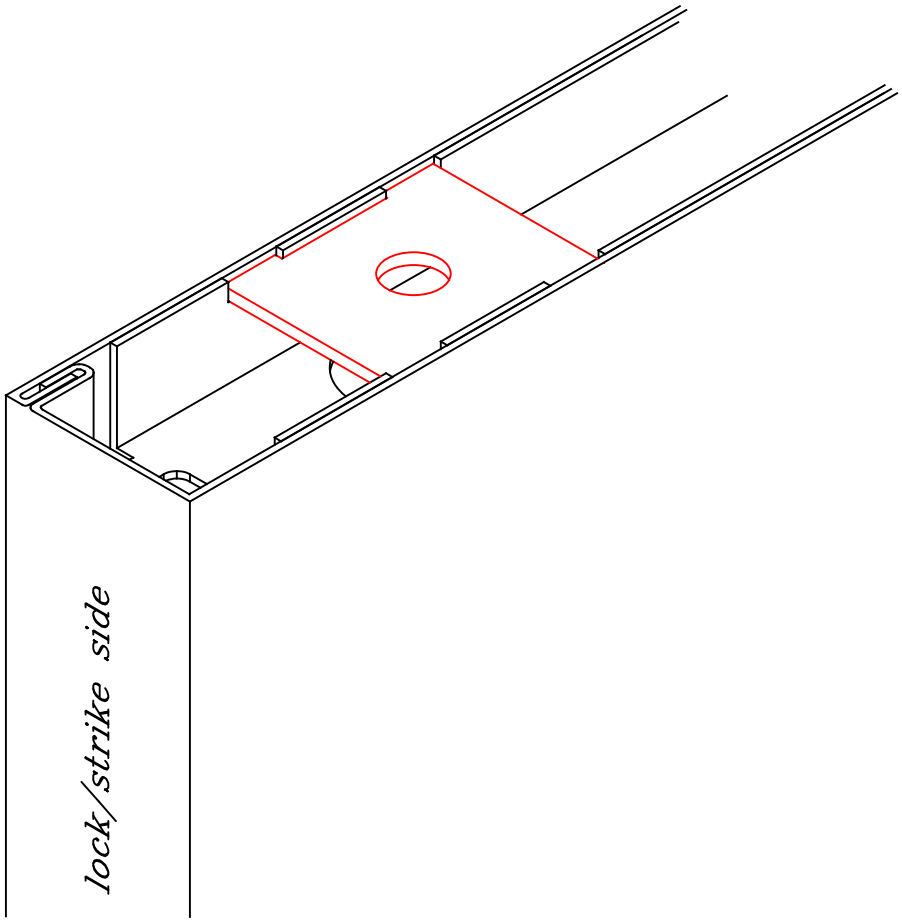
Hole for door viewer/peep hole

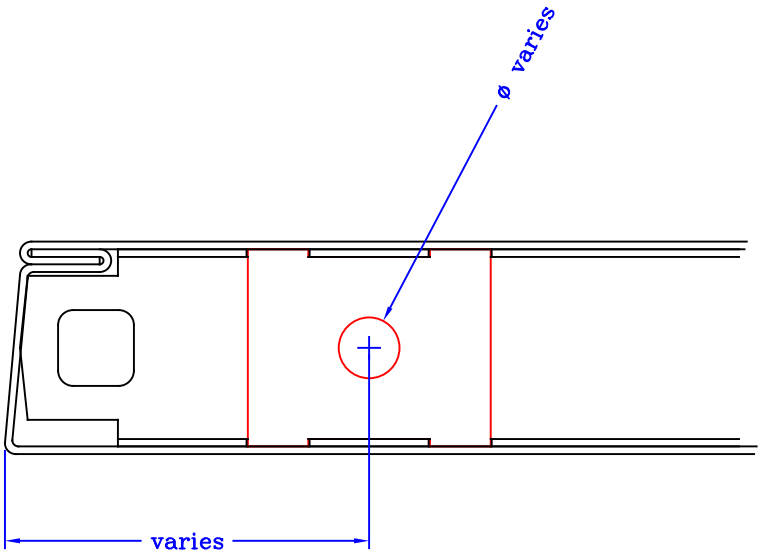


PEEP

*manufacturer's template to be provided.

Prep. for magnetic contact with reinforcement, 12ga

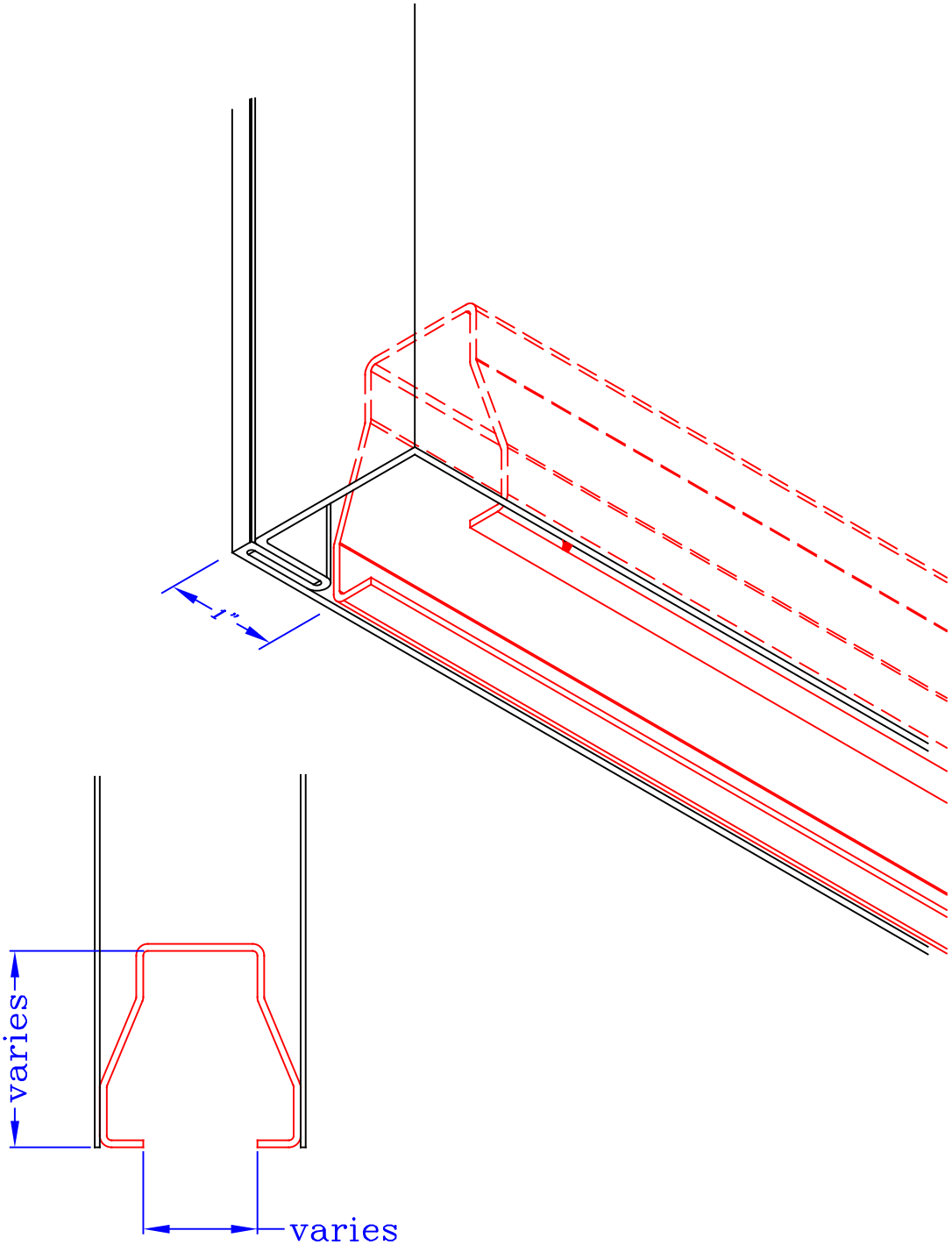




*manufacturer's template to be provided

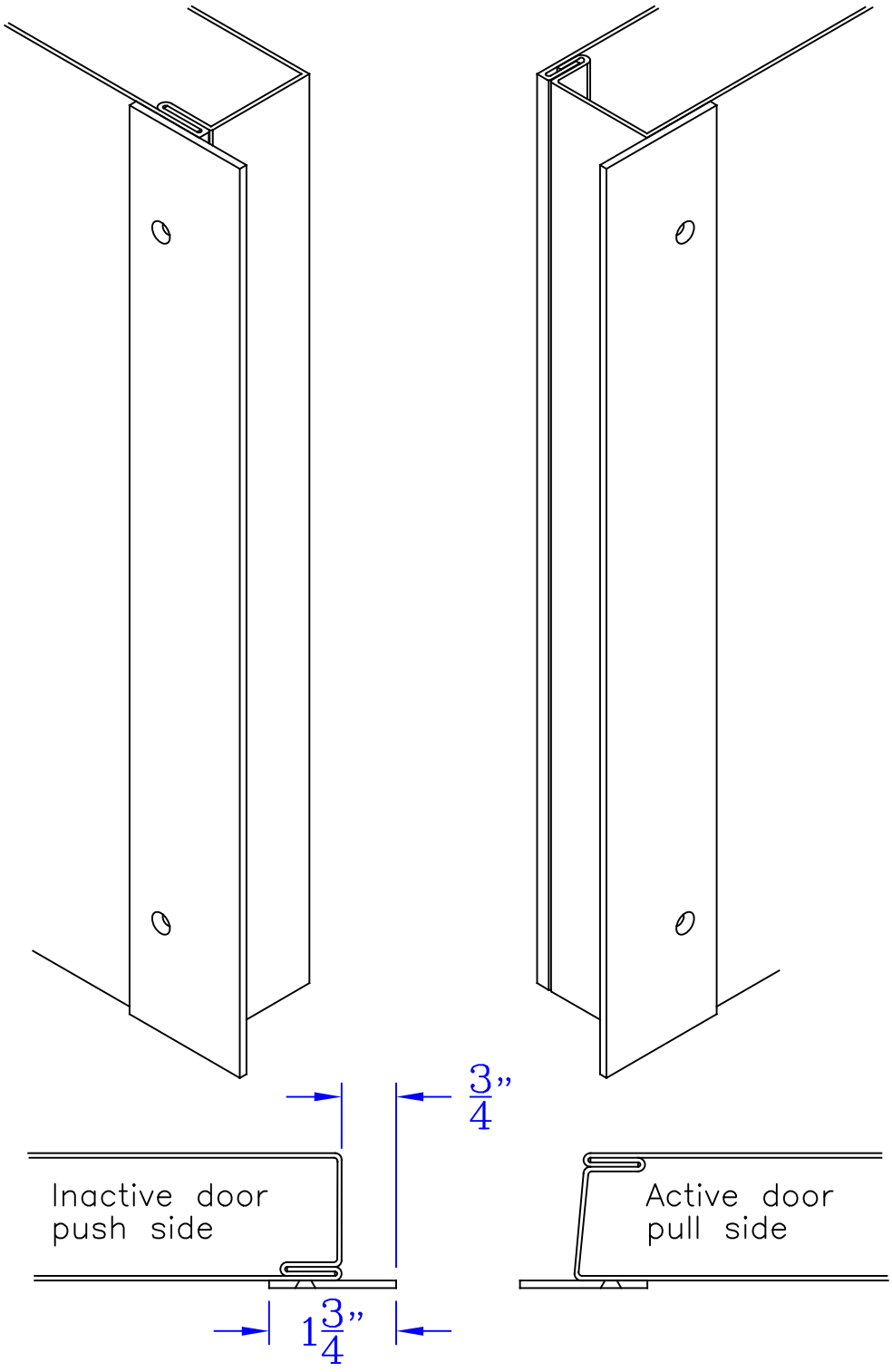
Prep. for automatic door bottom, 16ga

Tack welded



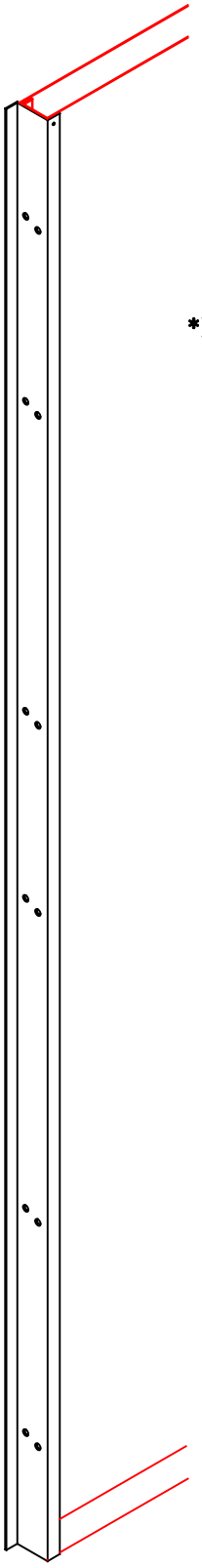
*manufacturer's template to be provided
** standard inverted channel for up to 7/8" high automatic door bottom

Flat bar astragal, 12ga



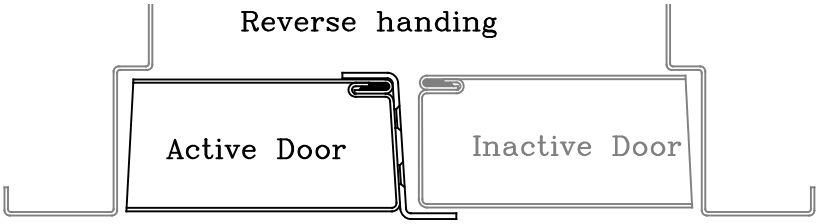
Available screwed or welded, see options SAS and WAS.

"Z" Astragal, 14ga

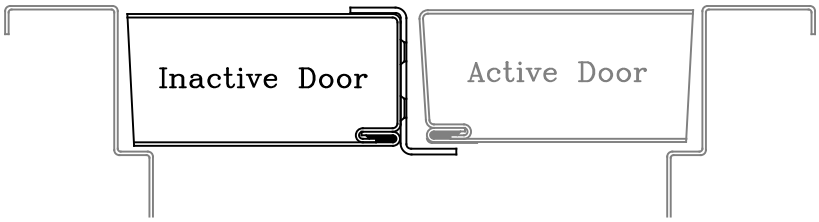


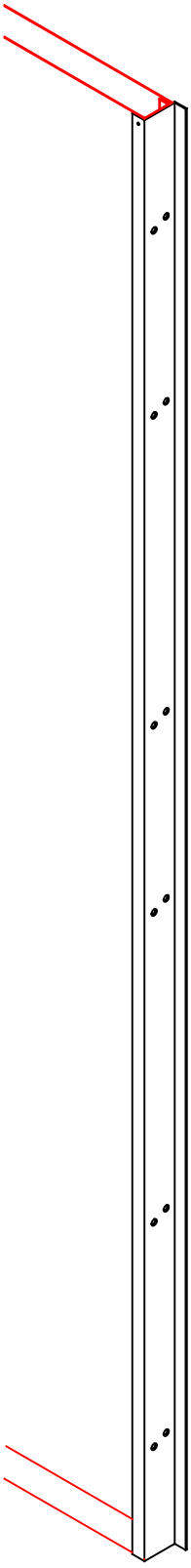
*Recommended installation but not limited to

Reverse handing



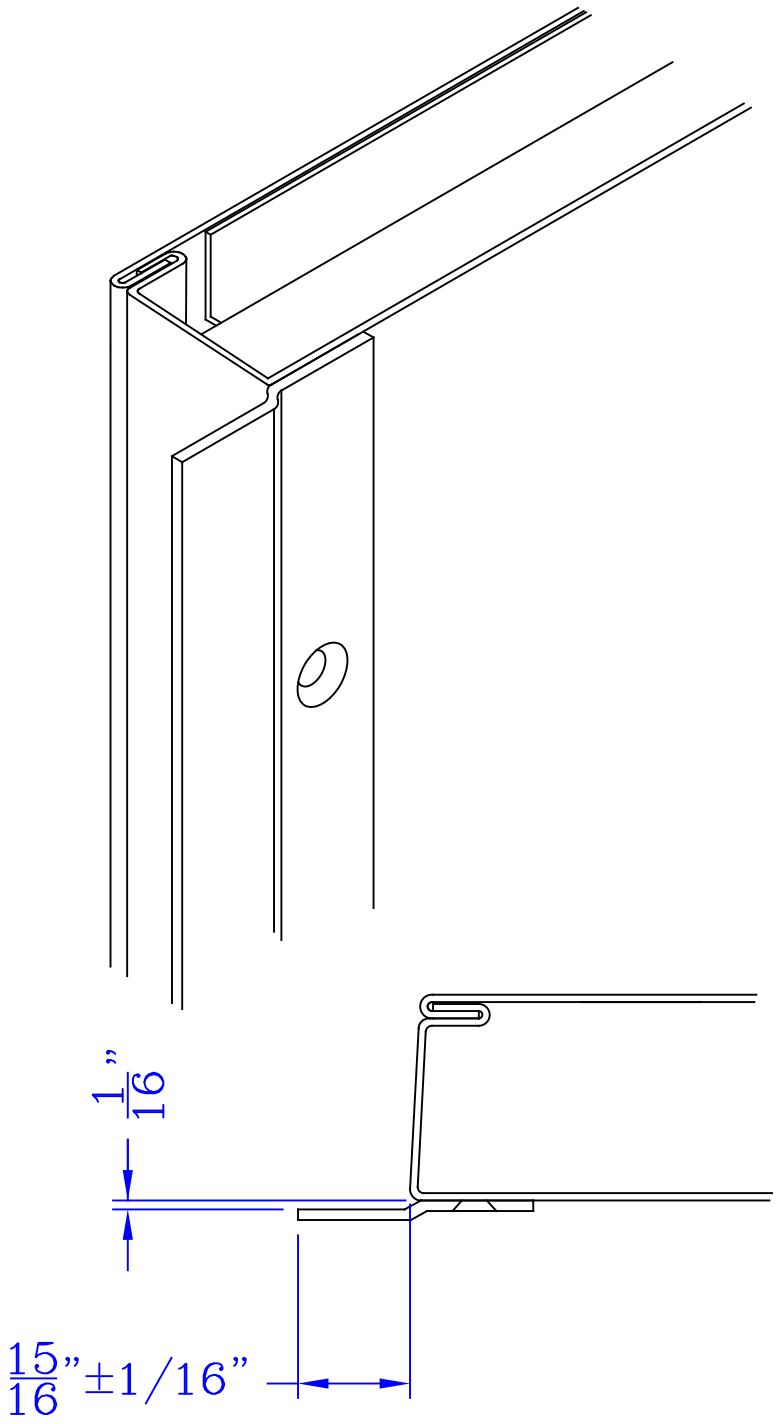
Regular handing





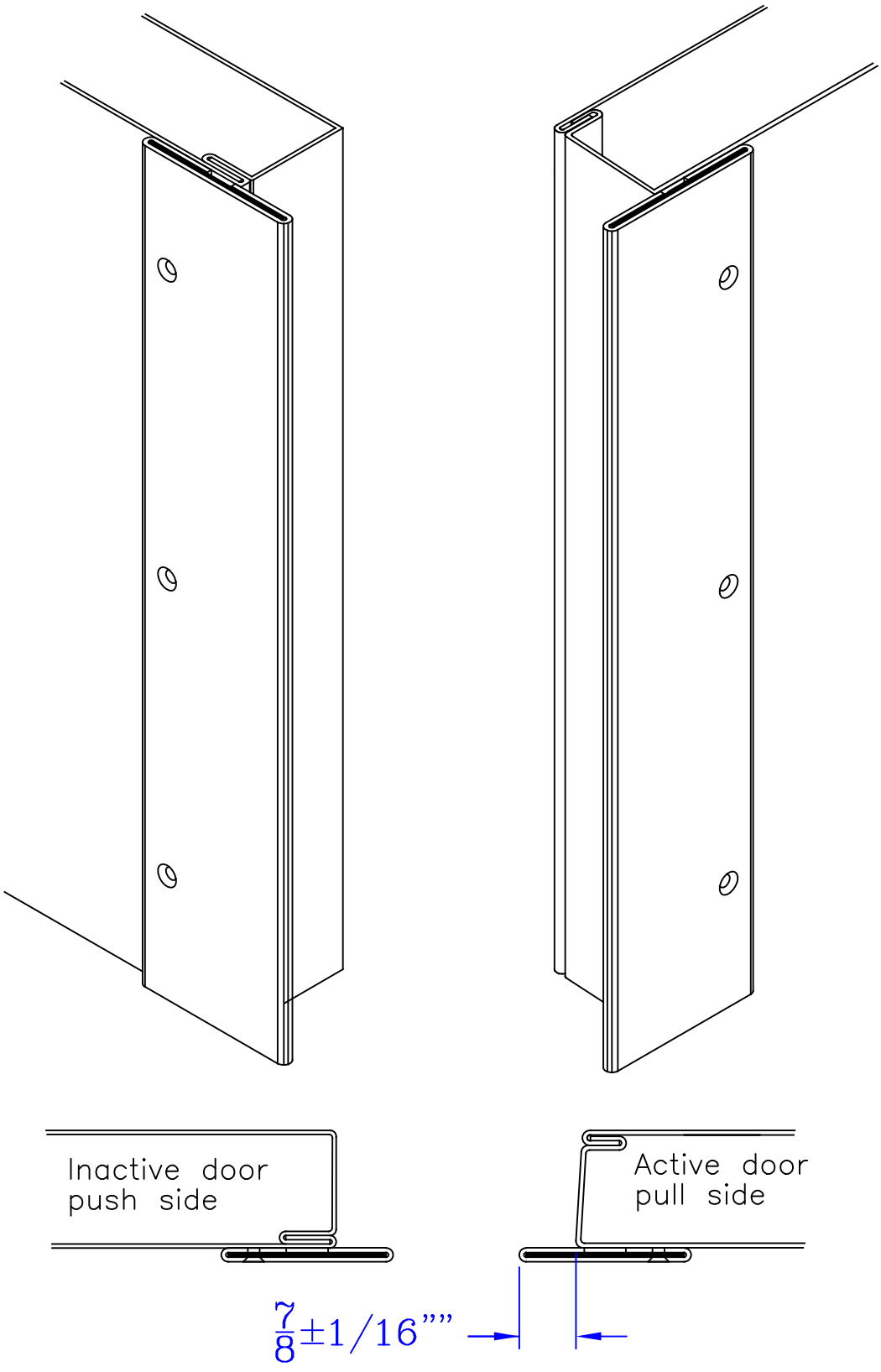
Available screwed or welded, see options SAS and WAS.
Minus 1/16" in door net width.

Deviated astragal for single leaf, 14ga



Available screwed or welded, see options SAS and WAS.

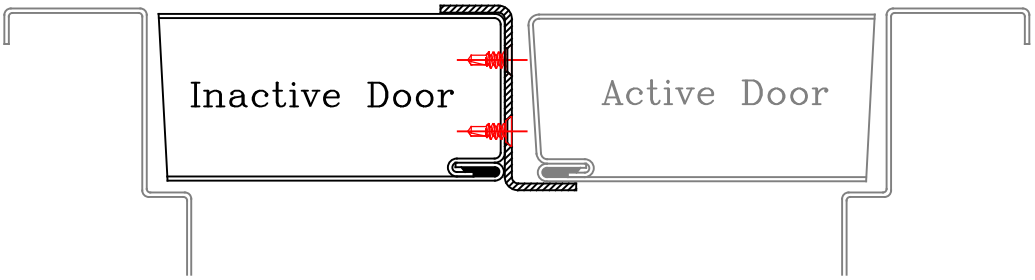
1/16" lead flat bar astragal, 16ga

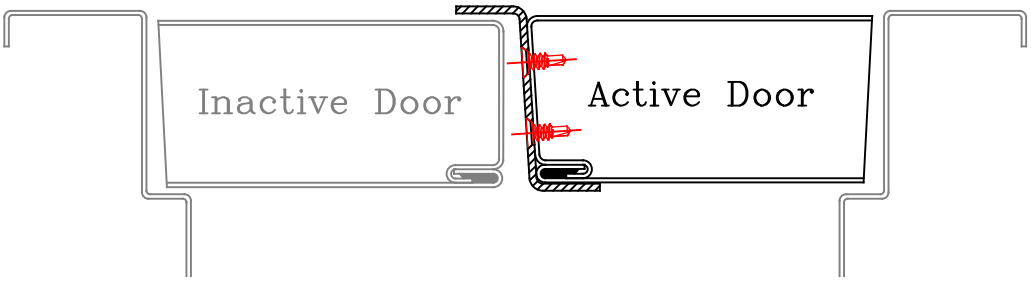


Available screwed or welded, see options SAS and WAS.

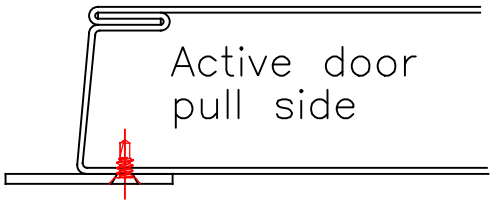
Screwed astragal

"Z" astragal

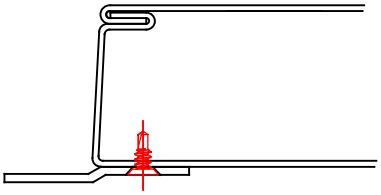




flat astragal



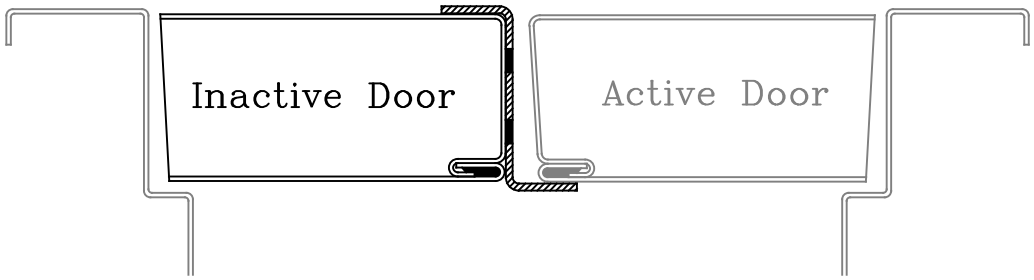
deviated astragal

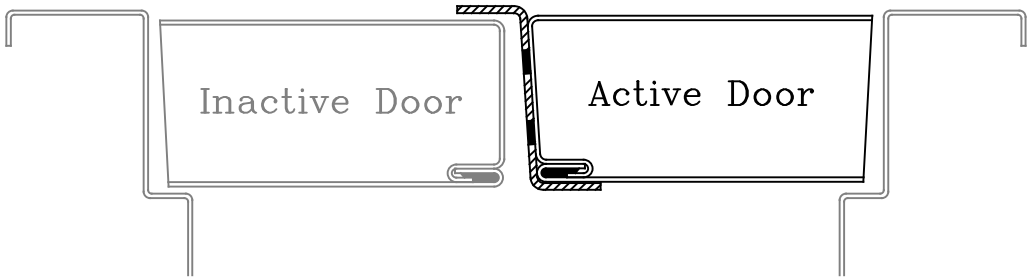


See item #00114 for screw detail

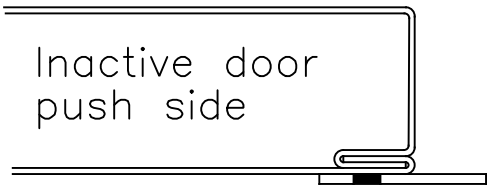
Extra for welded astragal to the door

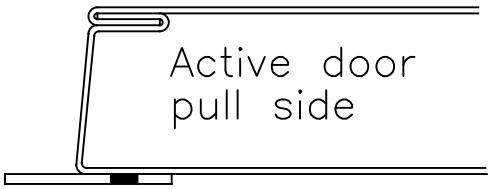
"Z" astragal



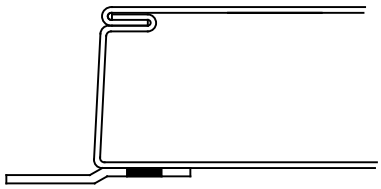


flat astragal

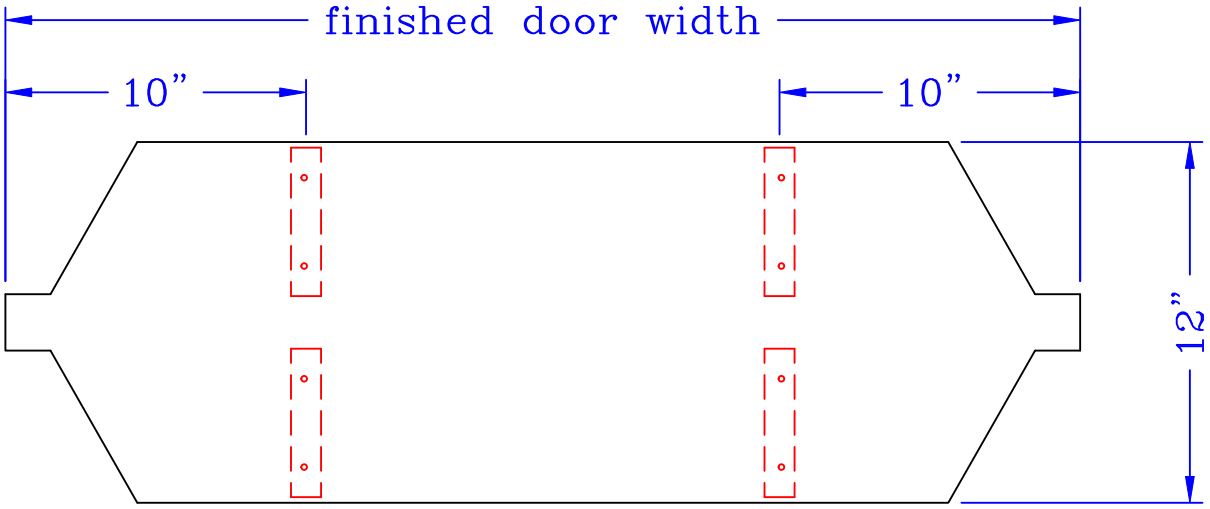


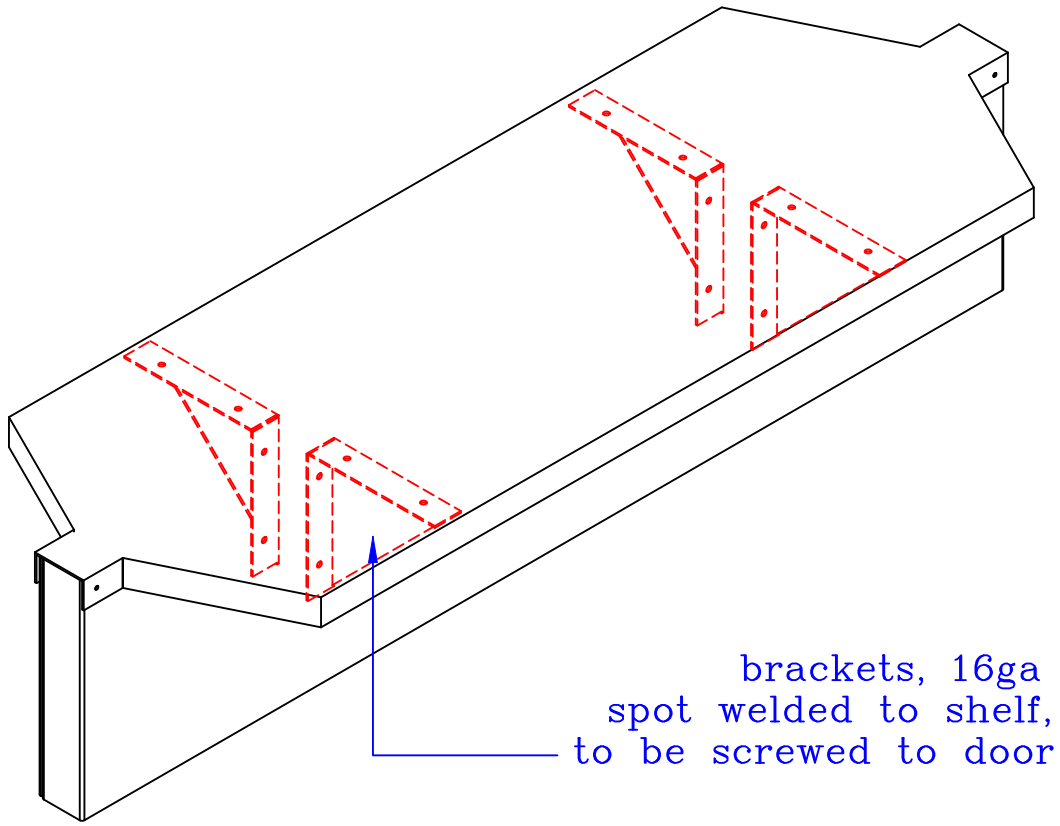


deviated astragal



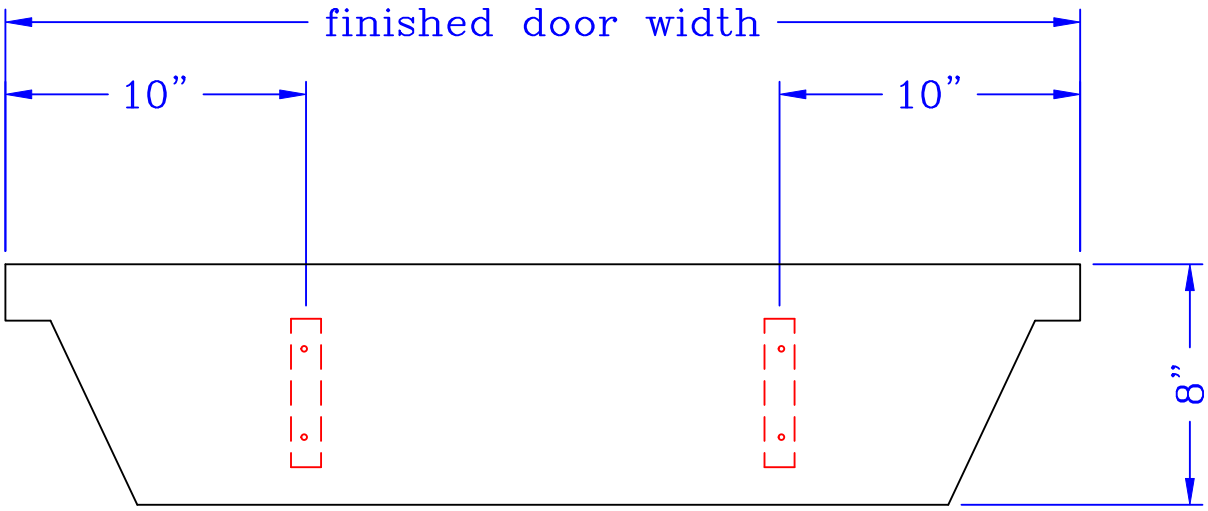
Full dutch door shelf
Shipped loose

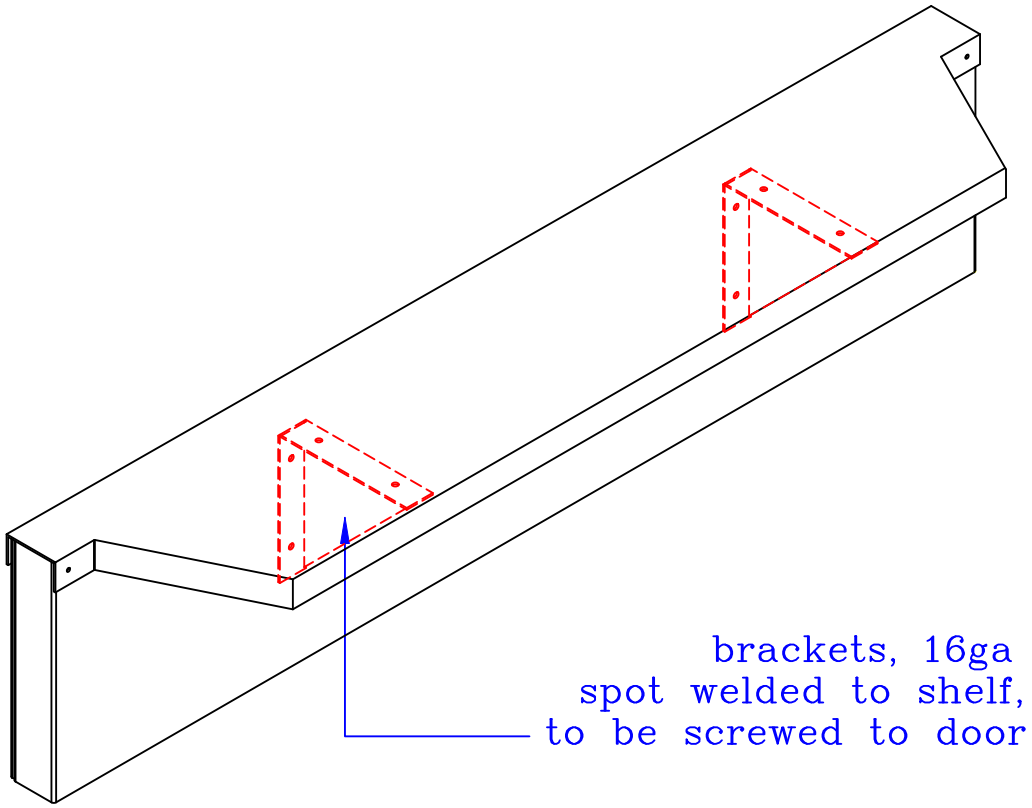




FDD

Half dutch door shelf
Shipped loose



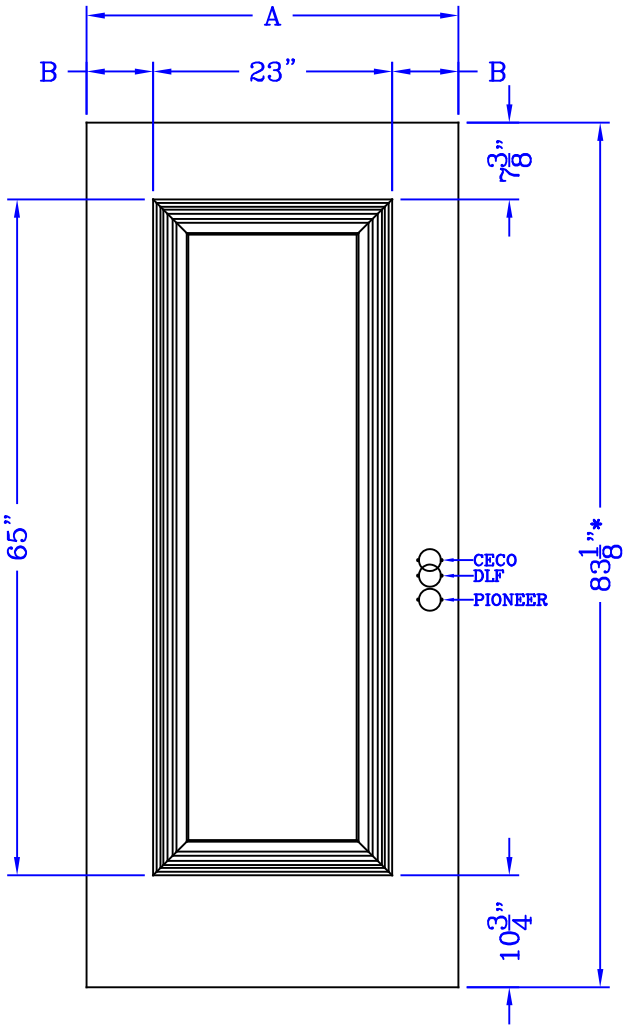


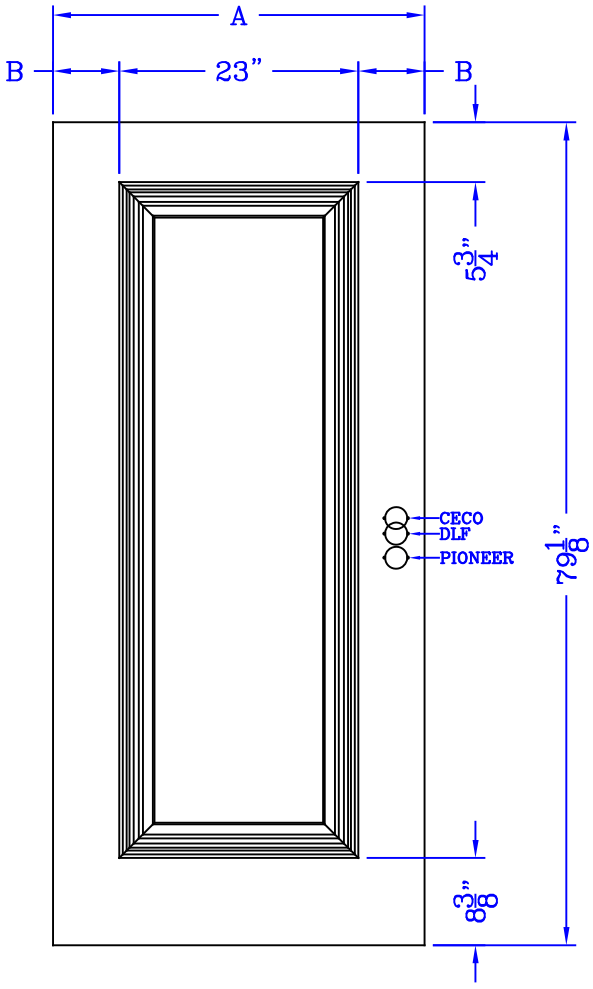
HDD

Model

One panel

Available 18ga, A40 only.

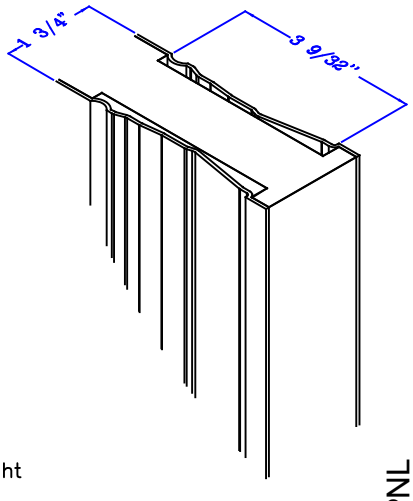




Nominal Dimension –A–	Net size Dimension –B–
□ 3’–4”	8 3/8
□ 3’–2”	7 3/8
3’–0”	6 3/8
2’–10”	5 3/8
2’–8”	4 3/8
2’–6”	3 3/8

*Maximum net height 83 1/8”

□ CW Door only

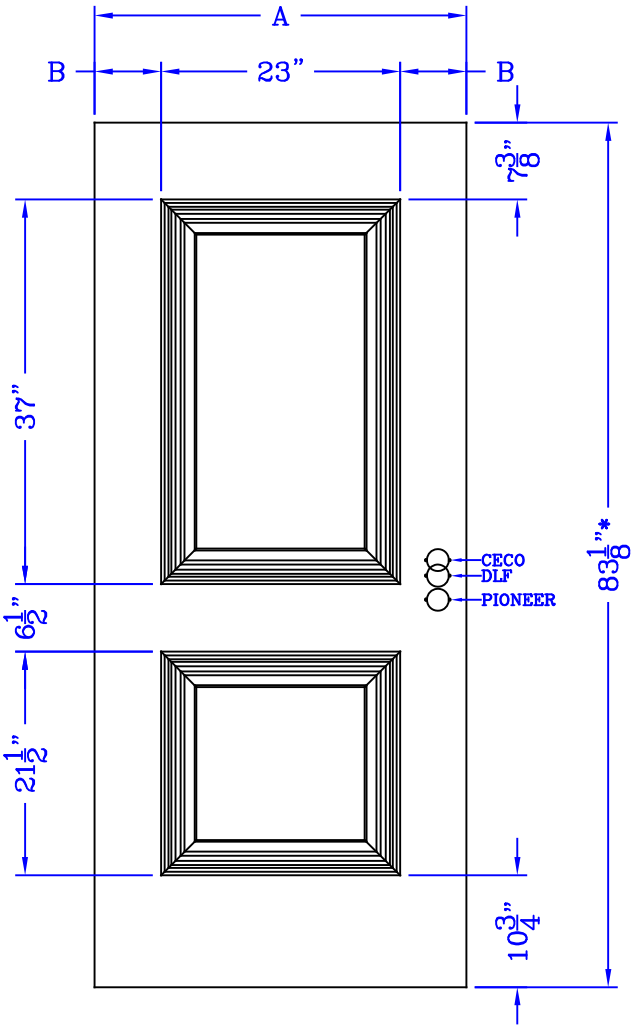


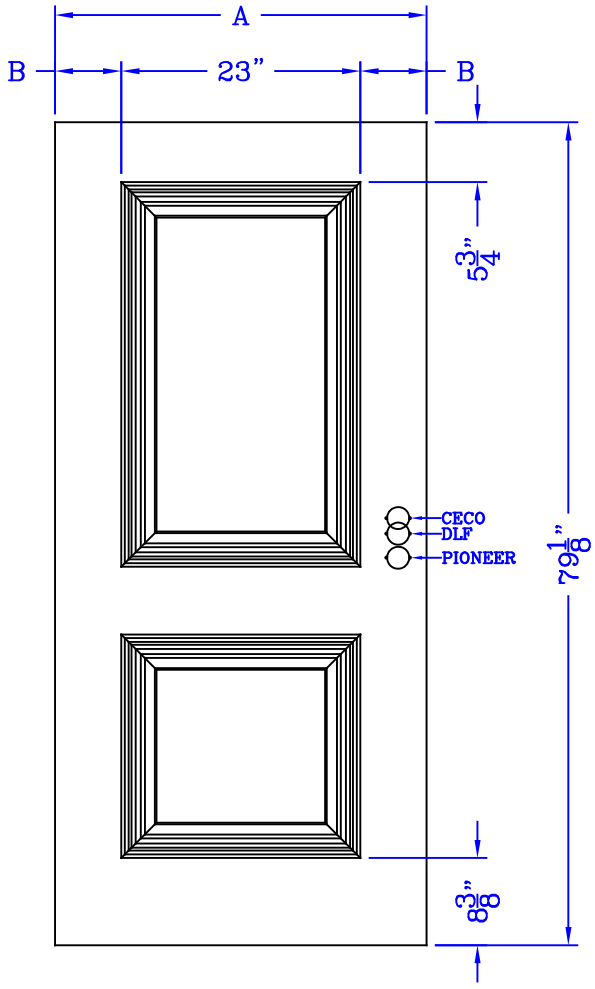
NOTES: Doors are available rated up to 3hrs, available with polystyrene core only.
: All hardware preps, including panic devices, will be located per commercial height and/or per manufacturer’s template, without consideration of aesthetic.
: will require an irregular backset at lock for 2’8” and 2’6” doors.

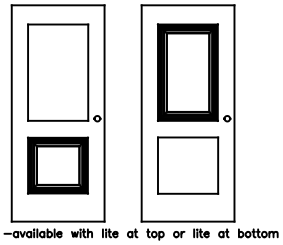
1PNL

Two panels

Available 18ga, A40 only.



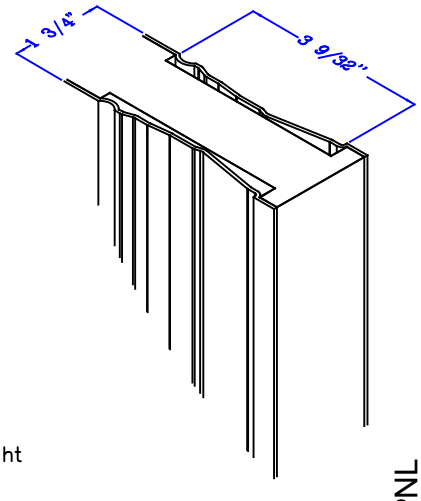




Nominal Dimension –A–	Net size Dimension –B–
□ 3’–4”	8 3/8
□ 3’–2”	7 3/8
3’–0”	6 3/8
2’–10”	5 3/8
2’–8”	4 3/8
2’–6”	3 3/8

*Maximum net height 83 1/8”

□ CW Door only

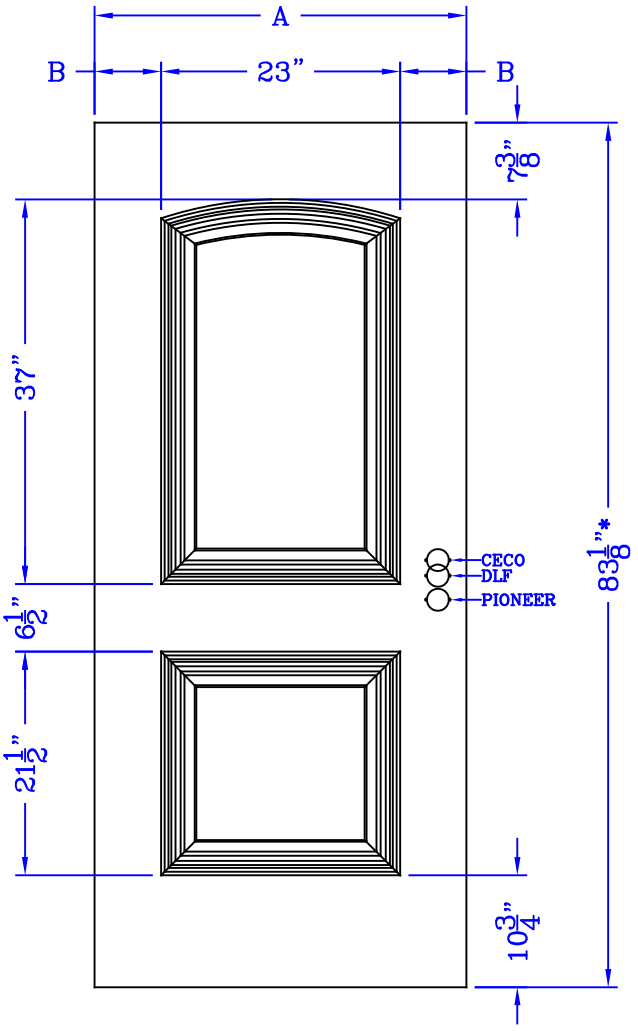


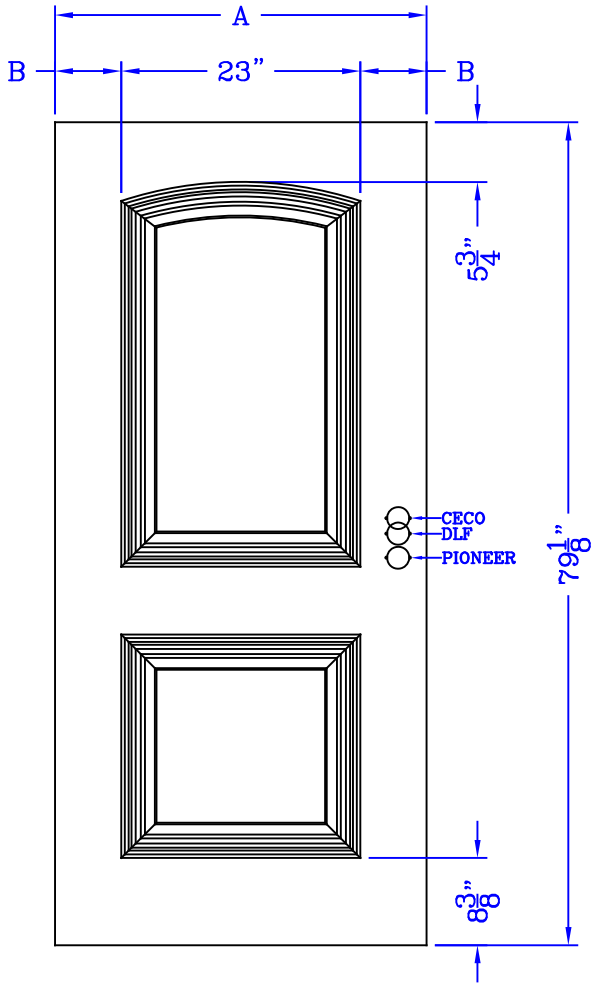
NOTES: Doors are available rated up to 3hrs, available with polystyrene core only.
: All hardware preps, including panic devices, will be located per commercial height and/or per manufacturer’s template, without consideration of aesthetic.
: will require an irregular backset at lock for 2’8” and 2’6” doors.
: cut out will be 1/2” higher and larger than dimensions shown of the panel

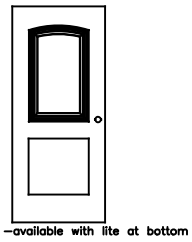
2PNL

Two panels soft arch

Available 18ga, A40 only.



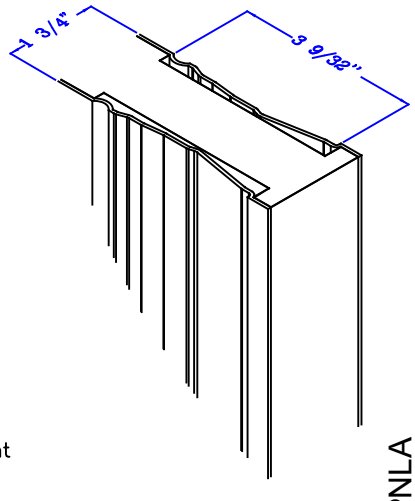




Nominal Dimension —A—	Net size Dimension —B—
□ 3’–4”	8 3/8
□ 3’–2”	7 3/8
3’–0”	6 3/8
2’–10”	5 3/8
2’–8”	4 3/8
2’–6”	3 3/8

*Maximum net height 83 1/8”

□ CW Door only



NOTES: Doors are available rated up to 3hrs, available with polystyrene core only.

: All hardware preps, including panic devices, will be located per commercial height and/or per manufacturer’s template, without consideration of aesthetic.

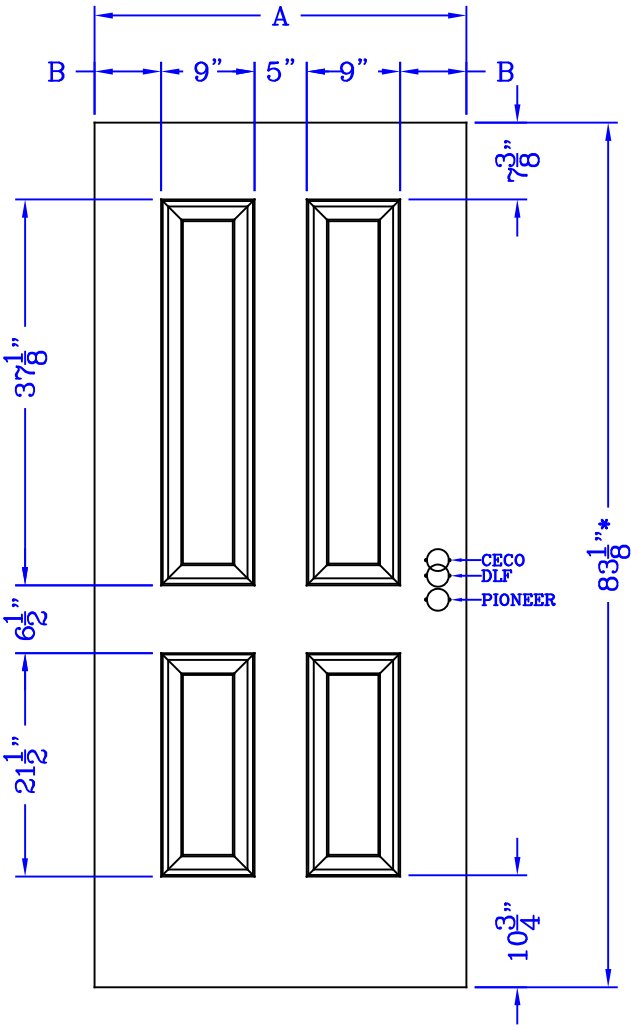
: will require an irregular backset at lock for 2’8” and 2’6” doors.

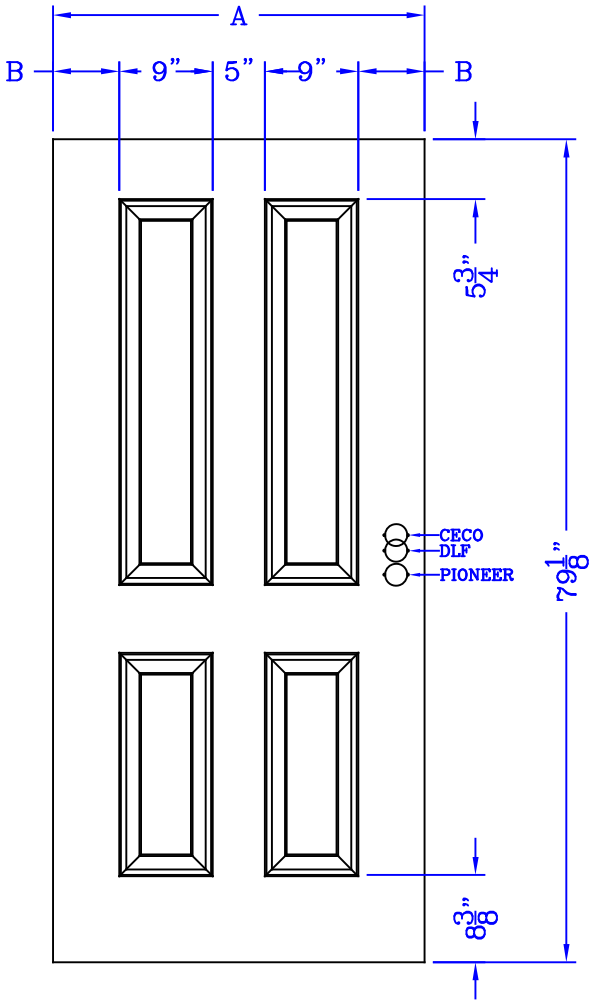
: cut out will be 1/2” higher and larger than dimensions shown of the panel

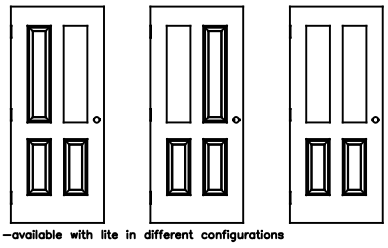
2PNLA

Four panels

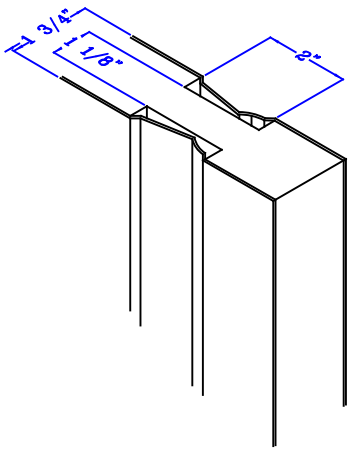
Available 18ga, A40 only.






—available with lite in different configurations

Nominal Dimension —A—	Net size Dimension —B—
□ 3’–4”	8 3/8
□ 3’–2”	7 3/8
3’–0”	6 3/8
2’–10”	5 3/8



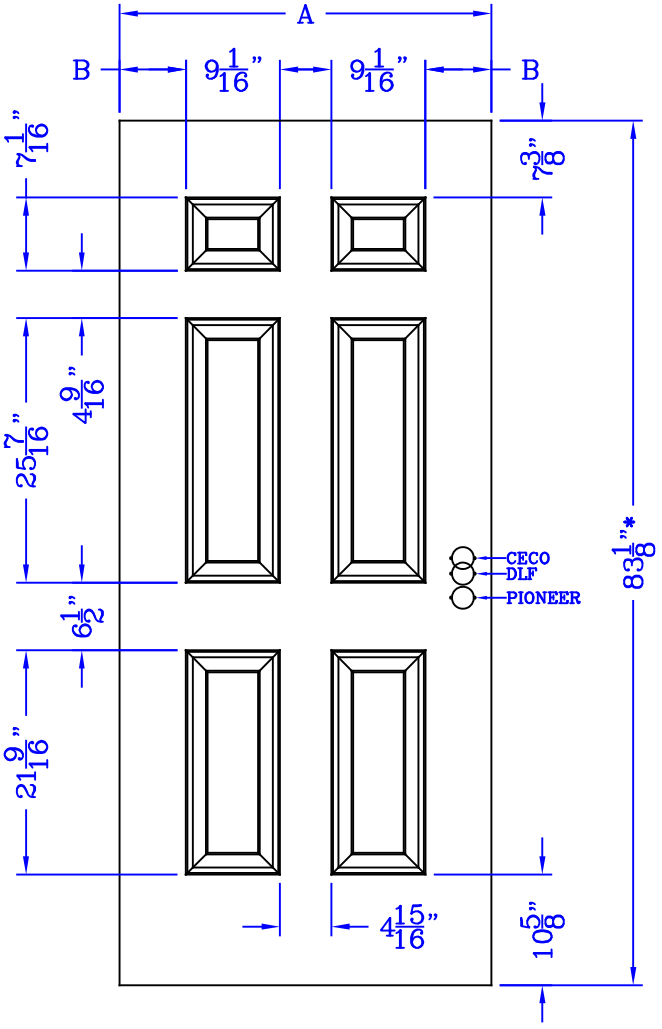
*Maximum net height 83 1/8”
□ CW Door only

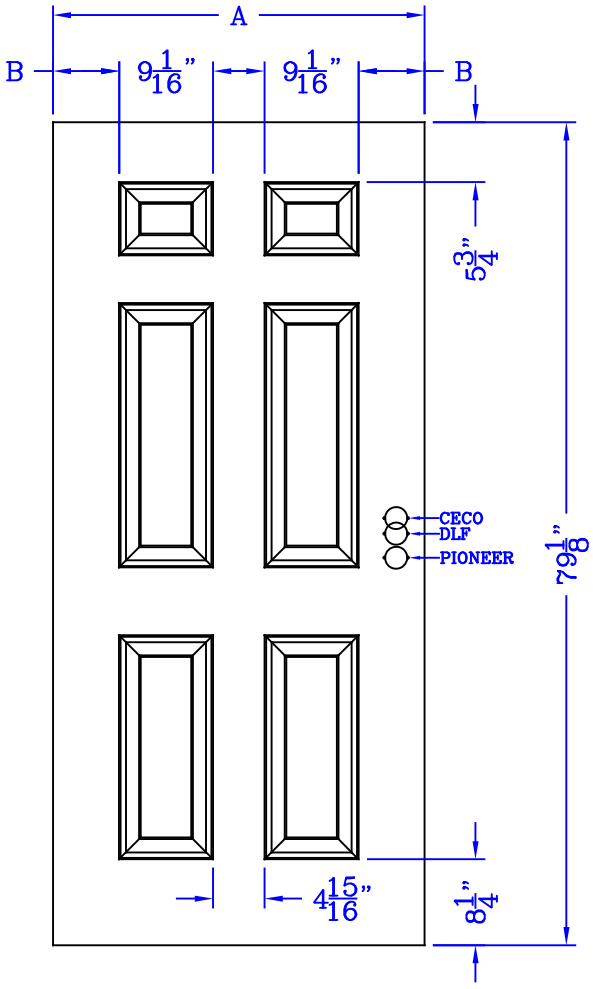
NOTES: Doors are available rated up to 3hrs, available with polystyrene core only.
: All hardware preps, including panic devices, will be located per commercial height and/or per manufacturer’s template, without consideration of aesthetic.
: cut out will be 1/2” higher and larger than dimensions shown of the panel

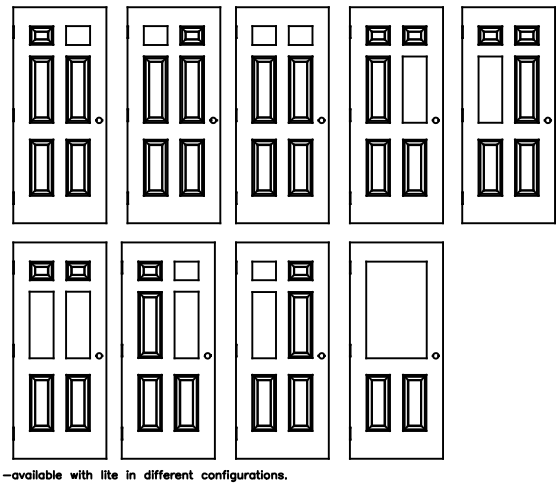
4PNL

Six panels

Available 18ga, A40 only.

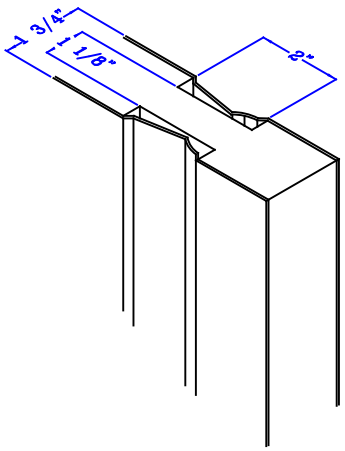






—available with lite in different configurations.

Nominal Dimension —A—	Net size Dimension —B—
□ 3'–4"	8 11/32
□ 3'–2"	7 11/32
3'–0"	6 11/32
2'–10"	5 11/32



*Maximum net height 83 1/8"

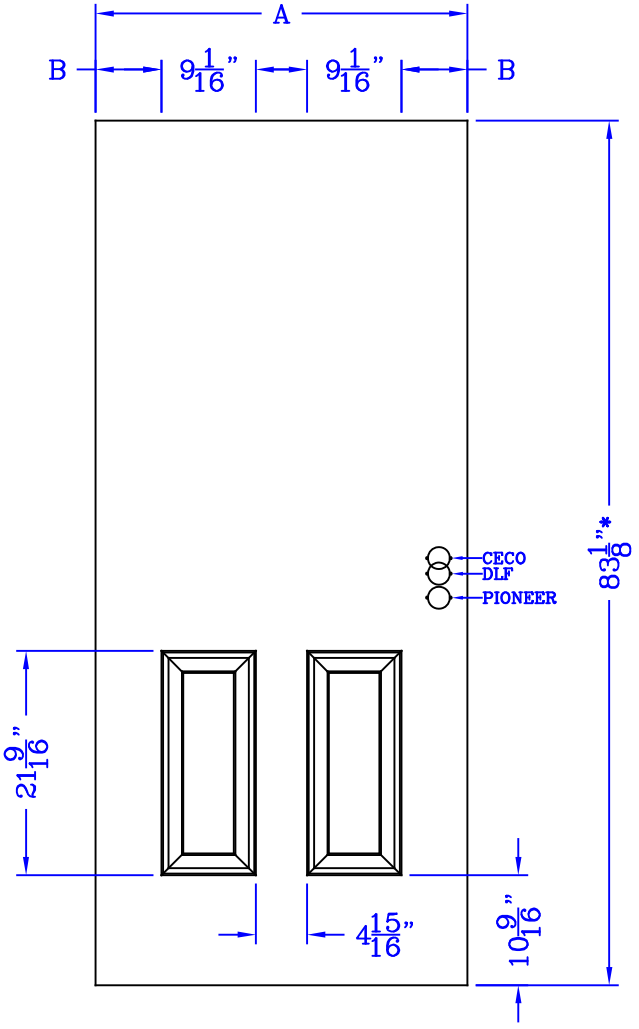
□ CW Door only

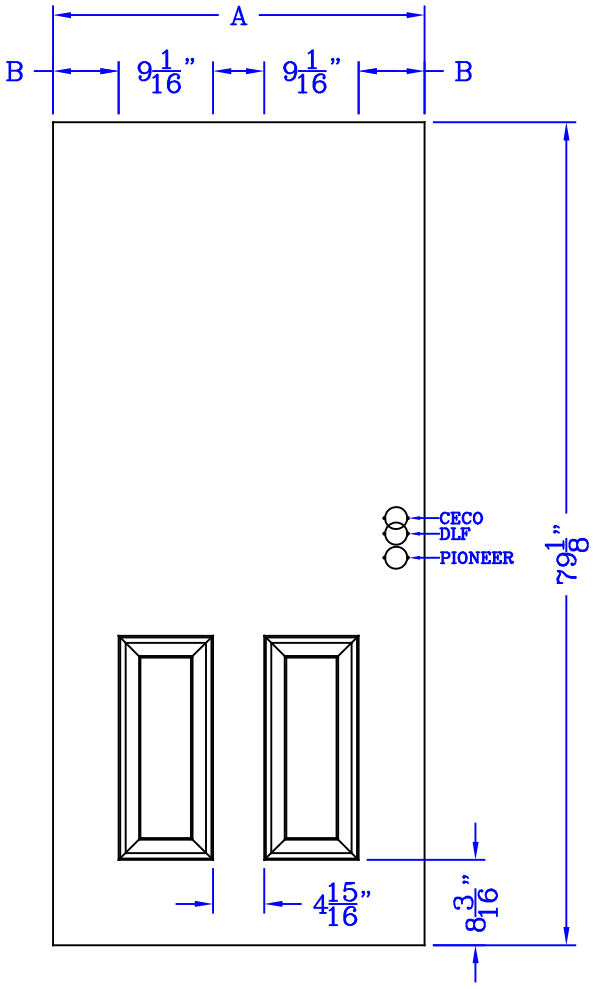
NOTES: Doors are available rated up to 3hrs, available with polystyrene core only.
: All hardware preps, including panic devices, will be located per commercial height and/or per manufacturer's template, without consideration of aesthetic.
: cut out will be 1/2" higher and larger than dimensions shown of the panel

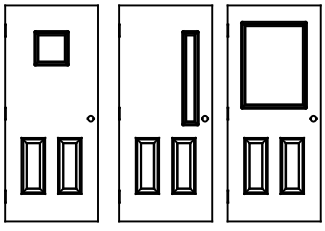
6PNL

Flush with 2 panels at bottom

Available 18ga, A40 only.





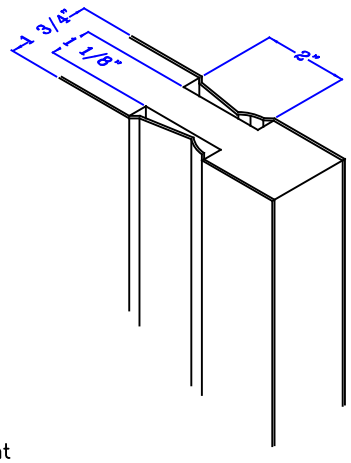


with regular vision, narrow lite of half glass lite kit.

Nominal Dimension –A–	Net size Dimension –B–
□ 3'–4"	8 11/32
□ 3'–2"	7 11/32
3'–0"	6 11/32
2'–10"	5 11/32
2'–8"	4 11/32
2'–6"	3 11/32

*Maximum net height 83 1/8"

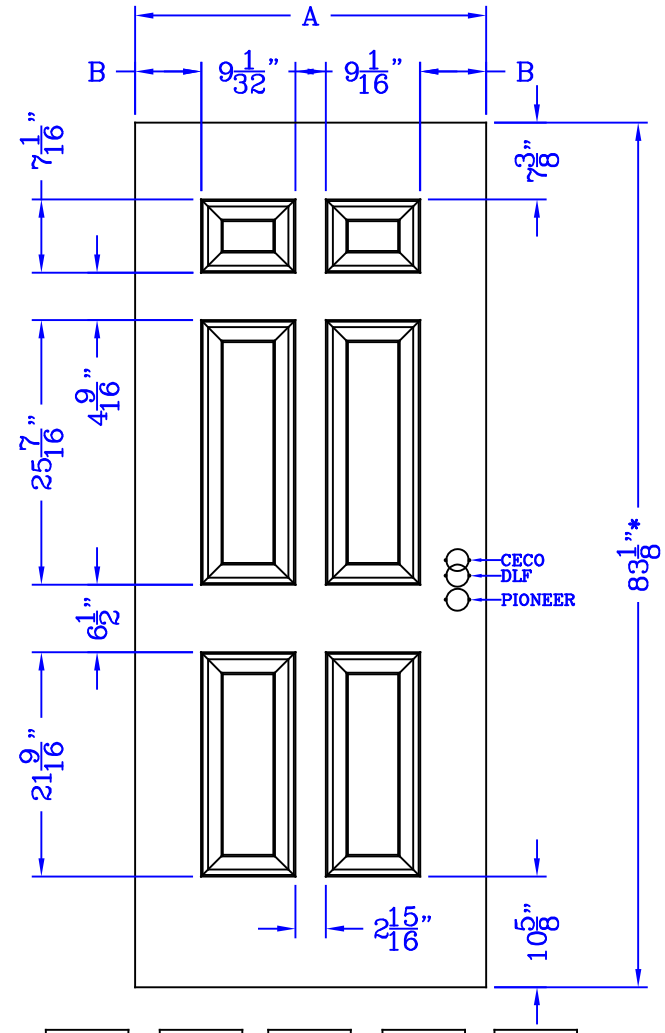
□ CW Door only

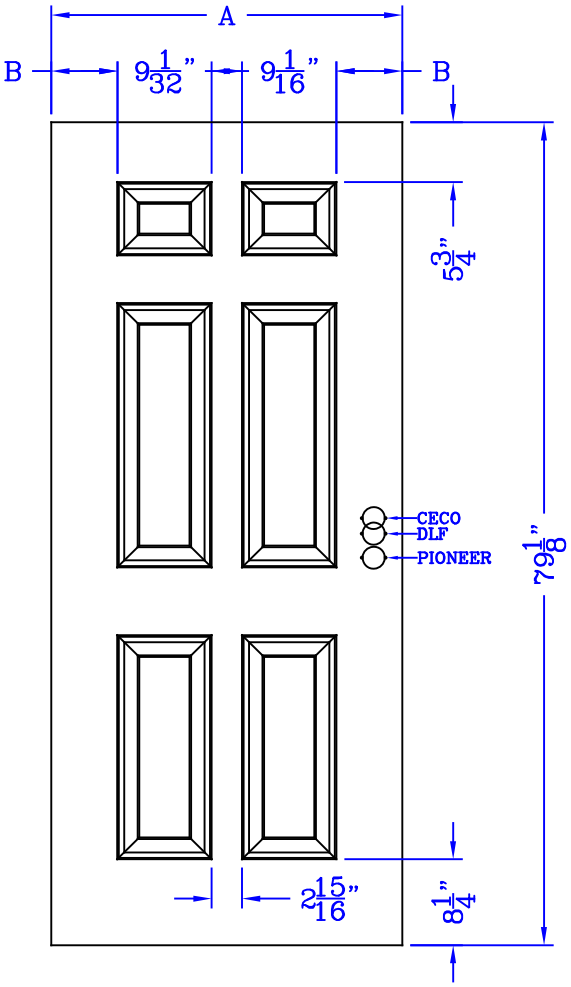


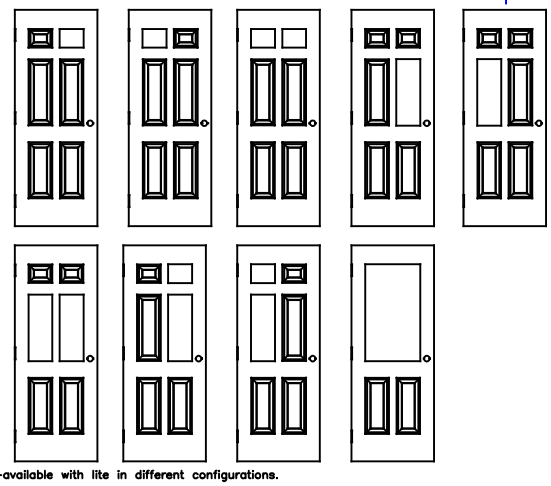
NOTES: Doors are available rated up to 3hrs, available with polystyrene core only.
: All hardware preps, including panic devices, will be located per commercial height and/or per manufacturer's template, without consideration of aesthetic.
: will require an irregular backset at lock for 2'8" and 2'6" doors.
: cut out will be 1/2" higher and larger than dimensions shown of the panel

Narrow six panels

Available 18ga, A40 only.

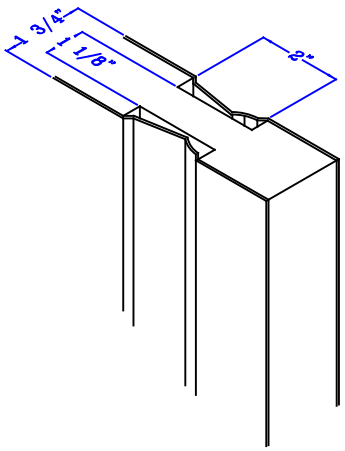






–available with lite in different configurations.

Nominal Dimension –A–	Net size Dimension –B–
2'–8"	5 11/32
2'–6"	4 11/32

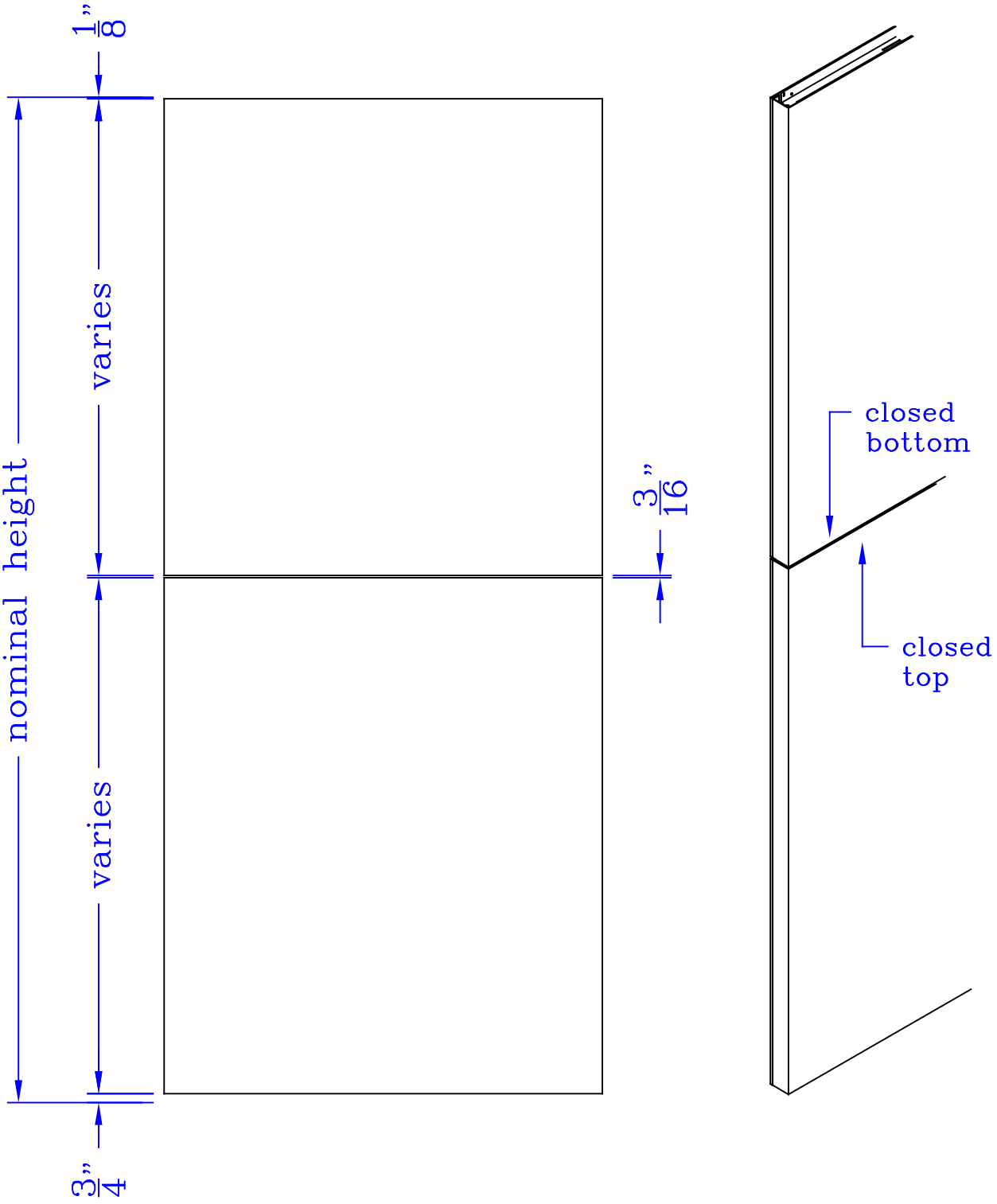


*Maximum net height 83 1/8"

NOTES: Doors are available rated up to 3hrs, available with polystyrene core only.
: All hardware preps, including panic devices, will be located per commercial height and/or per manufacturer's template, without consideration of aesthetic.
: cut out will be 1/2" higher and larger than dimensions shown of the panel

N6PNL

Dutch door (shelf not included)

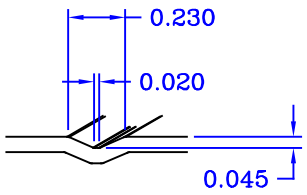


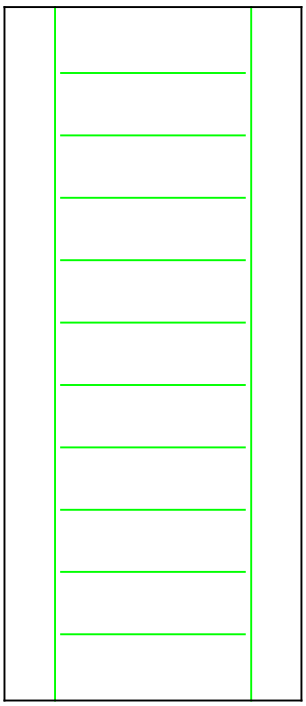
See FDD and HDD for details on our shelves.

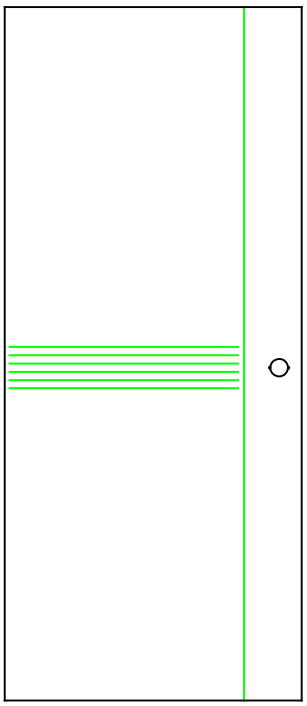
Custom embossed door

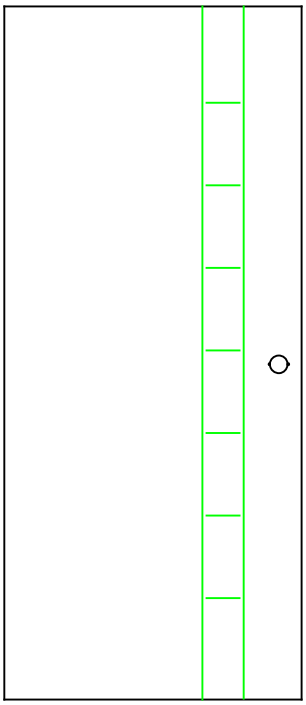
Available in 18 or 16ga, in A40 or A60 or stainless steel

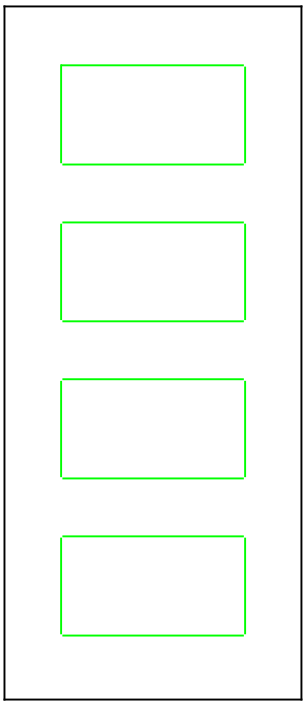
V– type

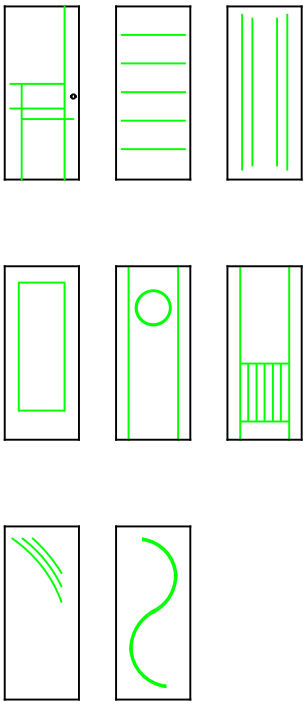












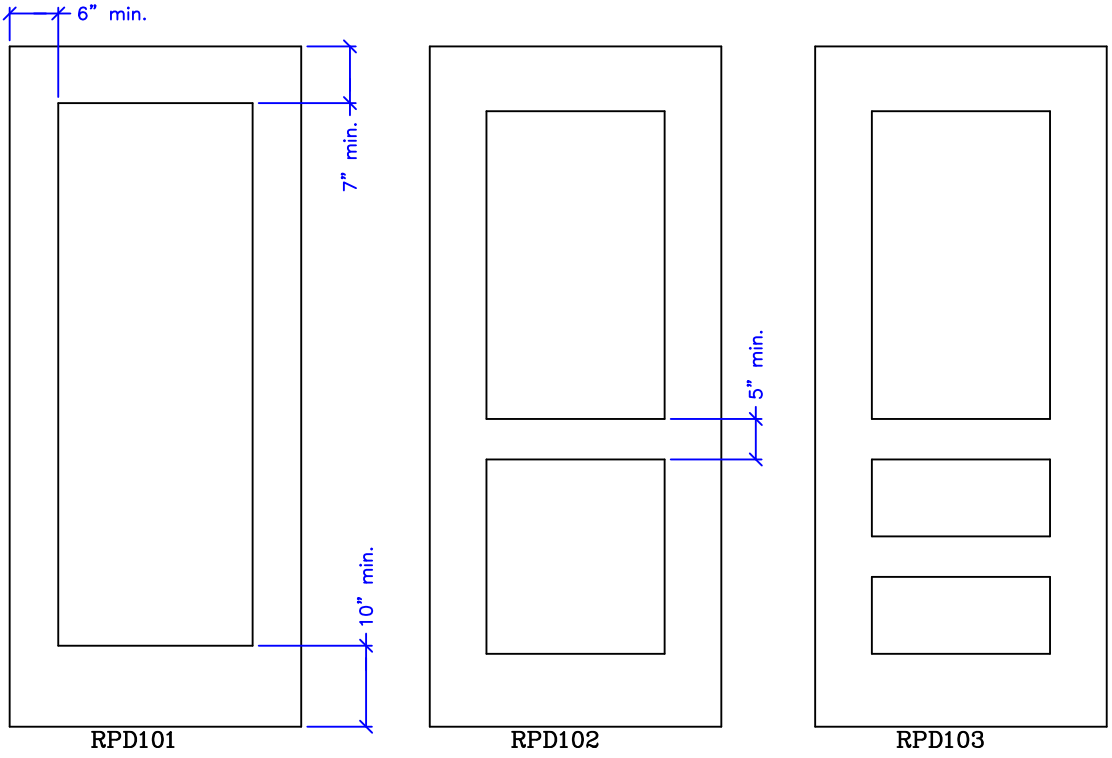
Other custom embossing available

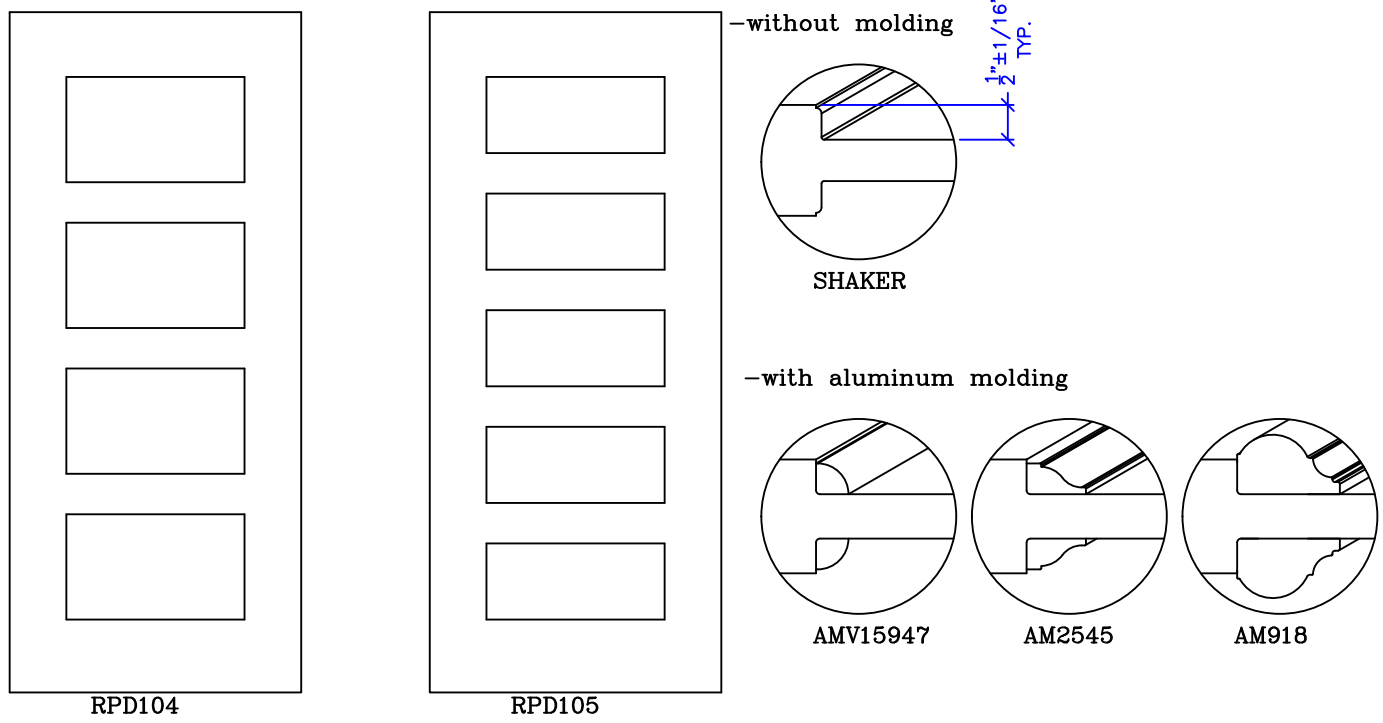
CED

Maximum 4'0" door width

Recessed panel door

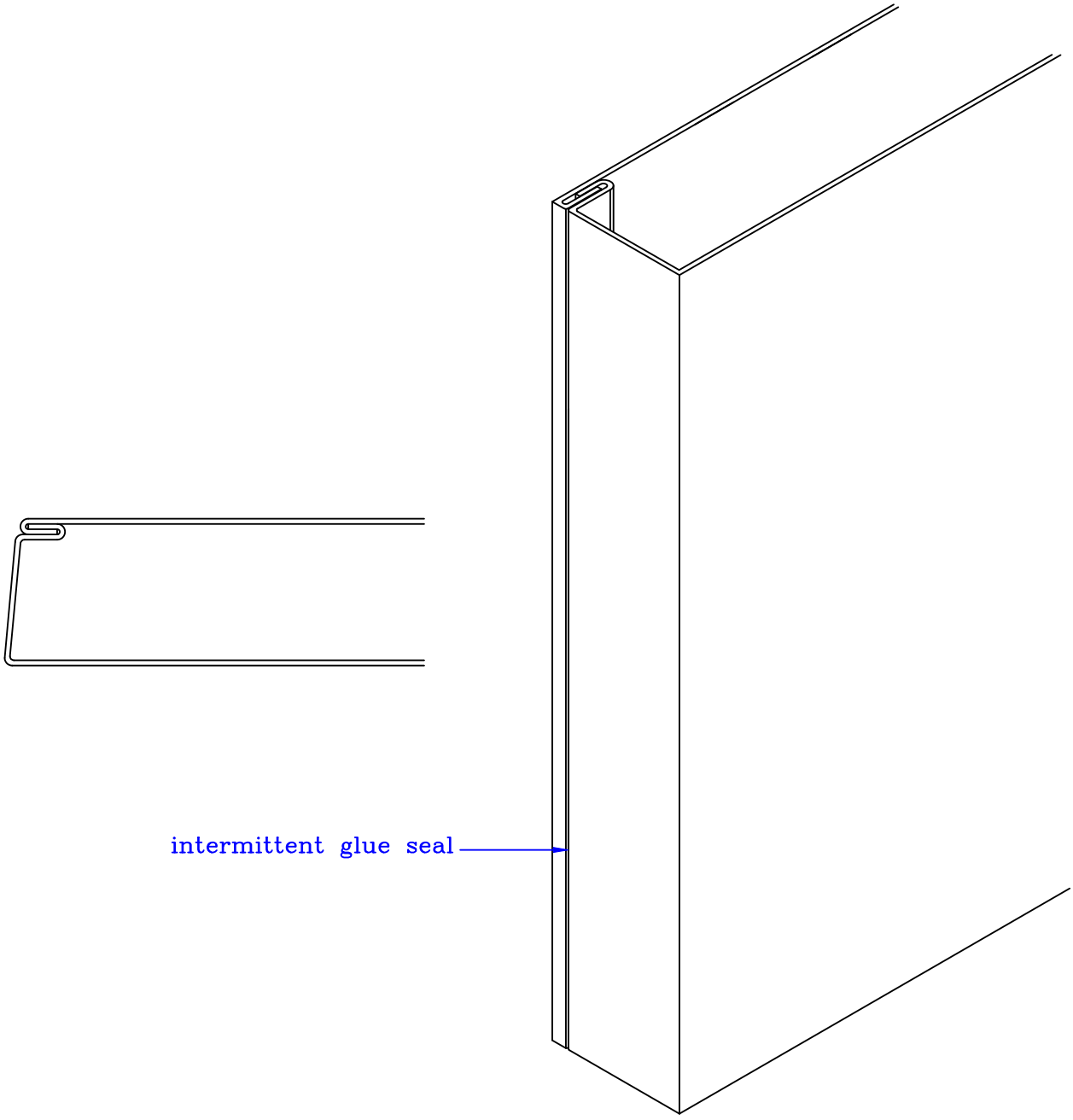
Available in 18, 16 or 14ga, in A40 or A60. 18ga panels.





All dimensions from nominal opening
Available only for 1 ¾" door

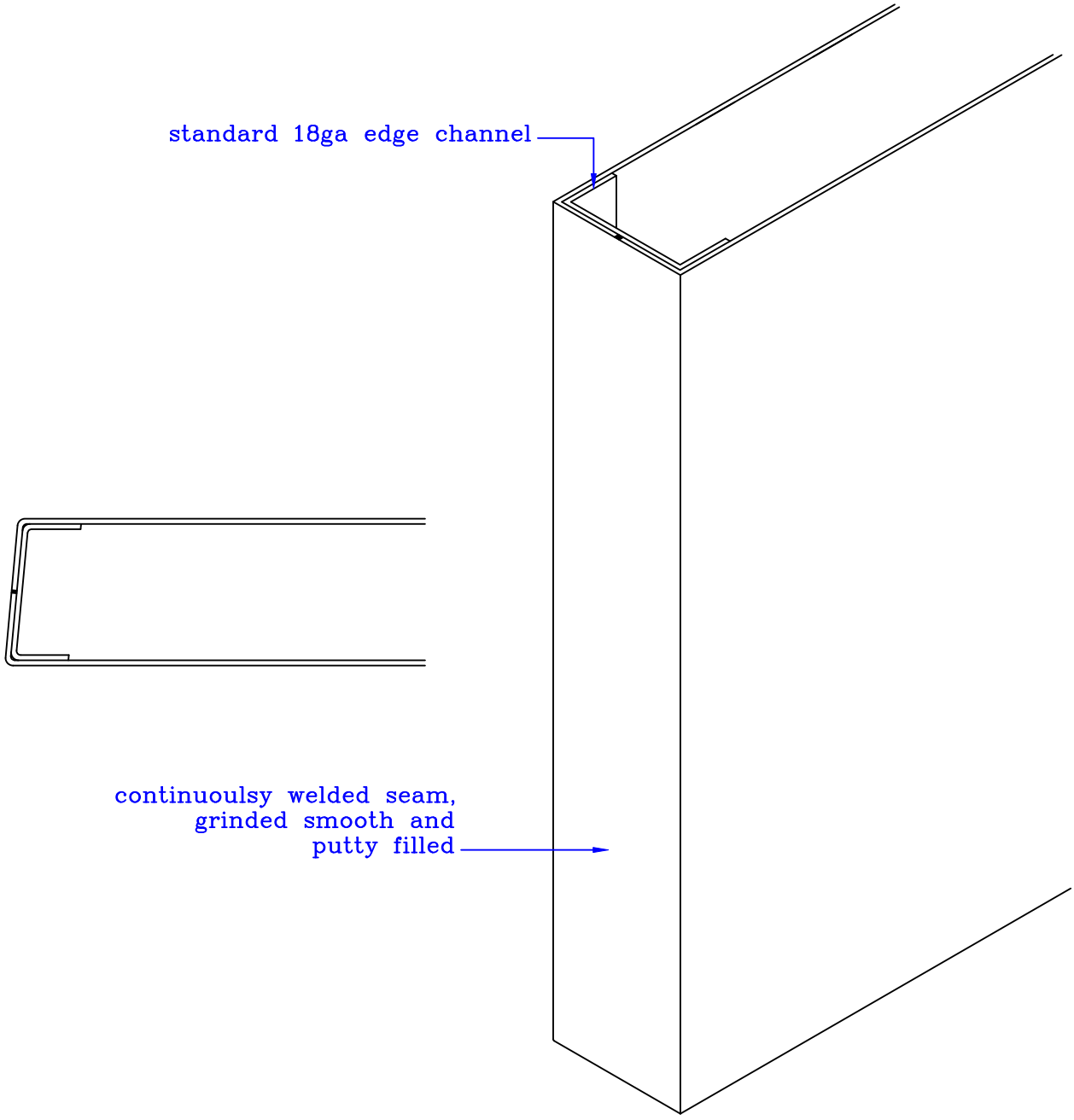
Standard lock seam edge



PA

Available for beveled or square see options BEVH, BEVL, SQH & SQL

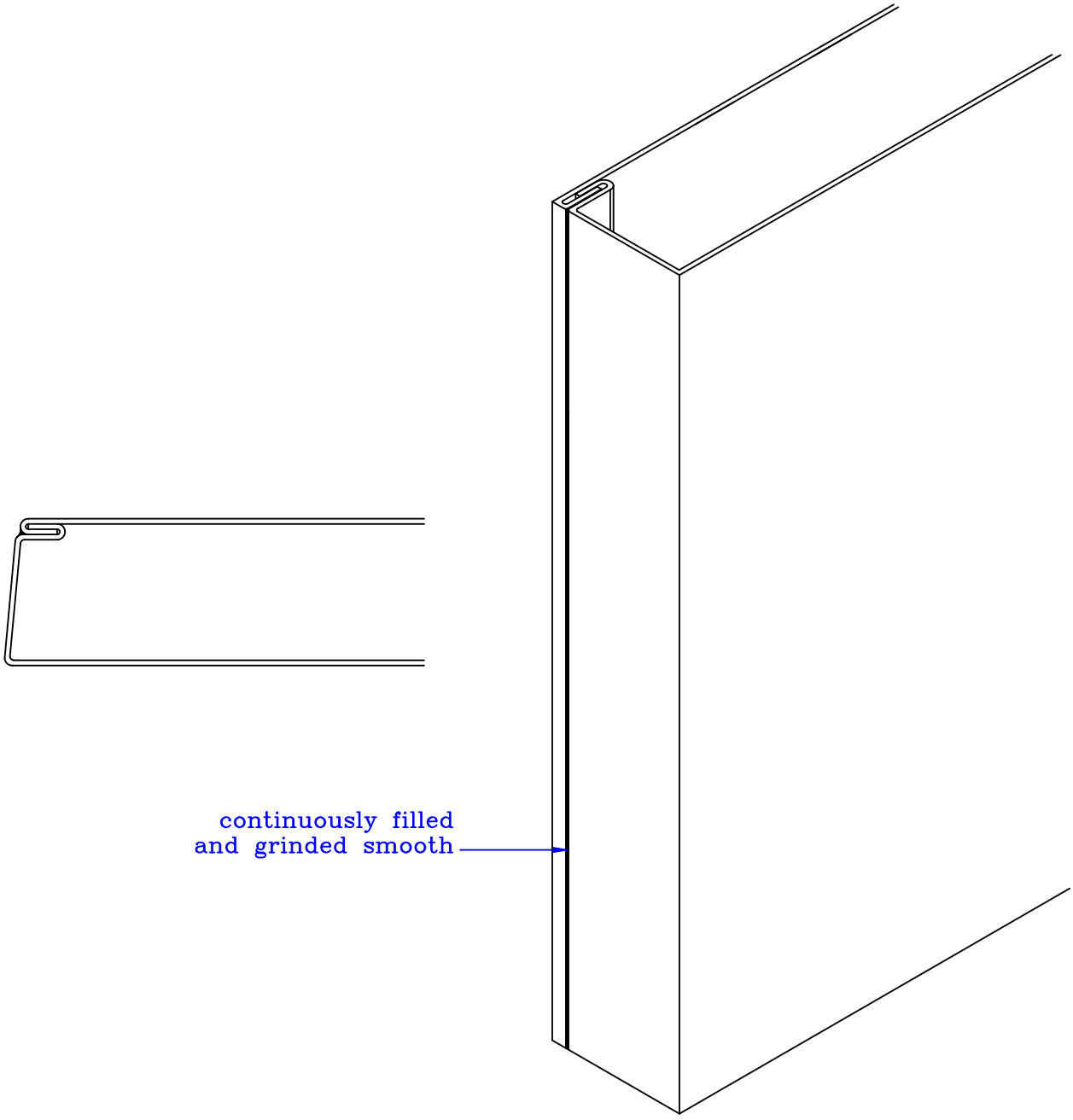
Continuously welded seamless



CW

Available for beveled or square see options BEVH, BEVL, SQH & SQL

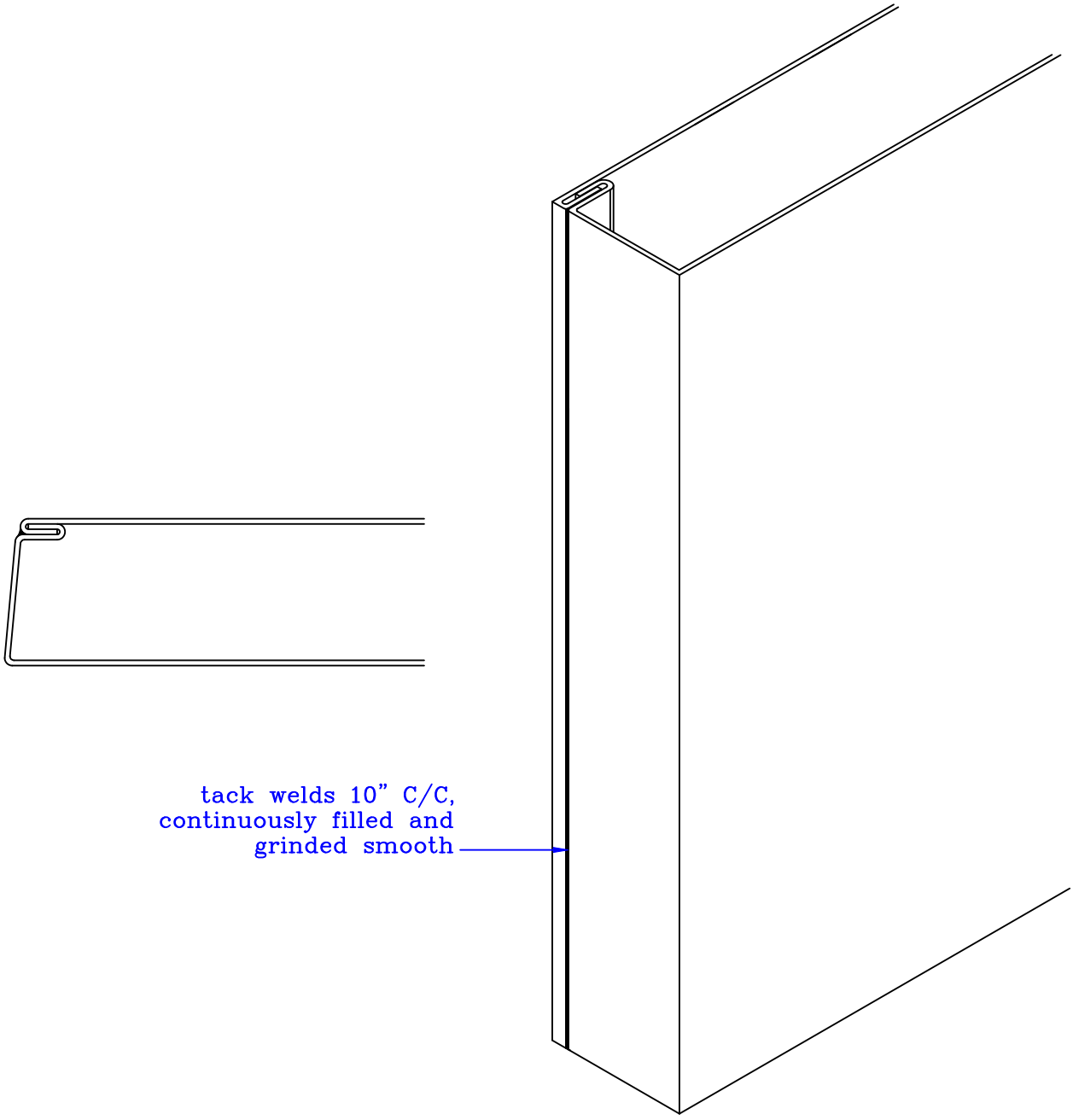
Lock seam edge filled seamless



PAF

Available for beveled or square edge doors

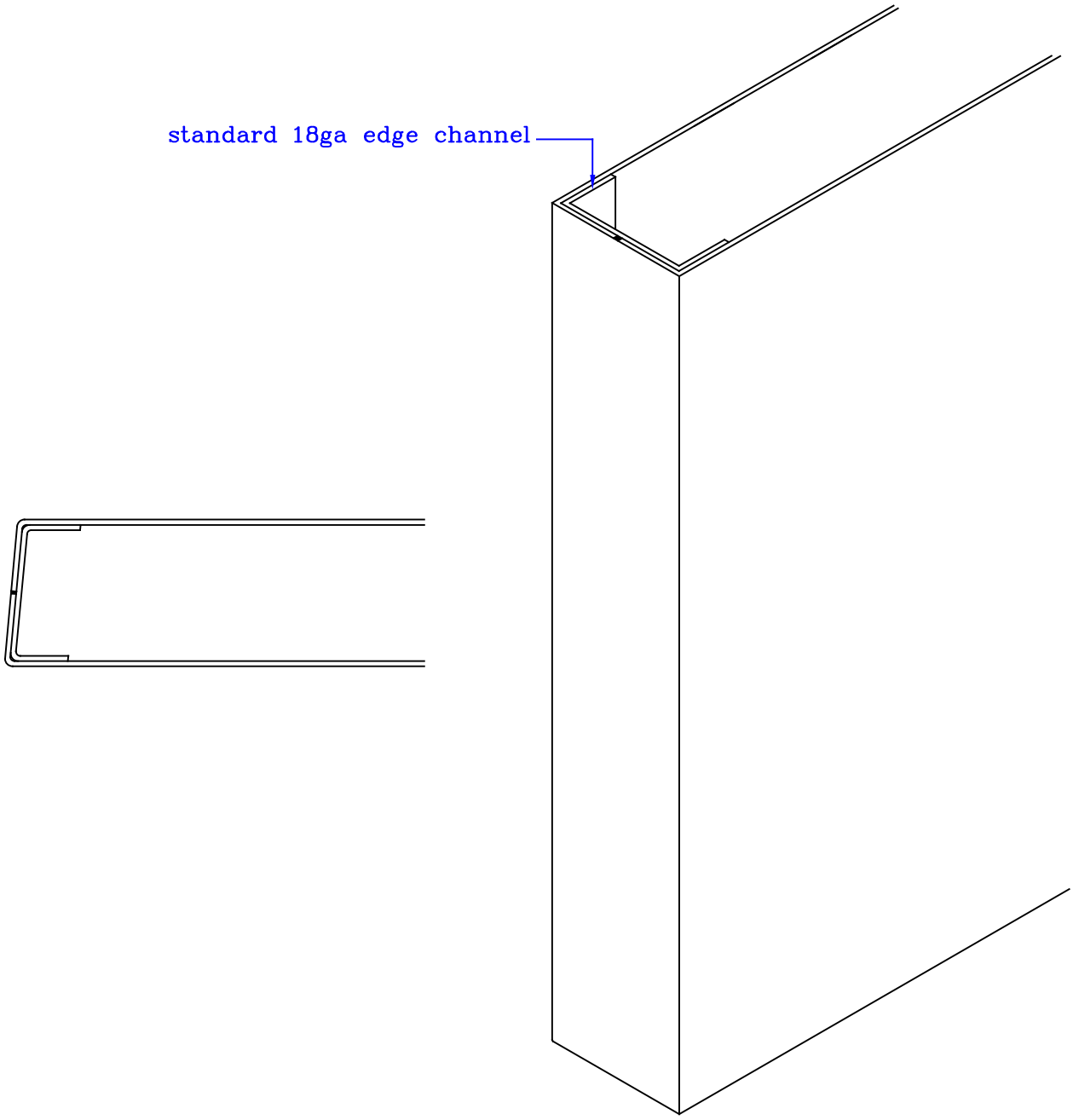
Lock seam edge tack welded and filled seamless



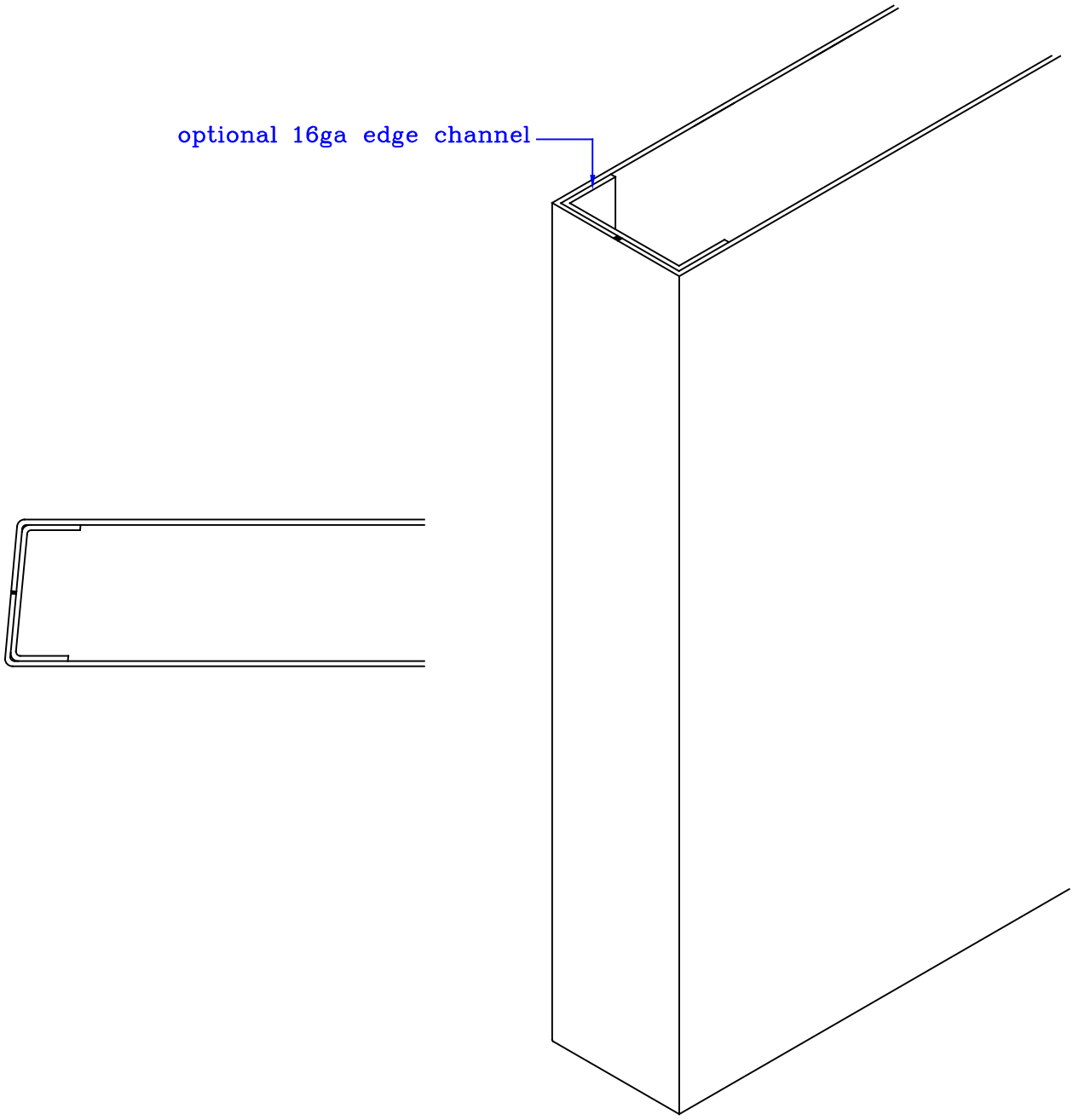
TWPF

Available for beveled or square edge doors

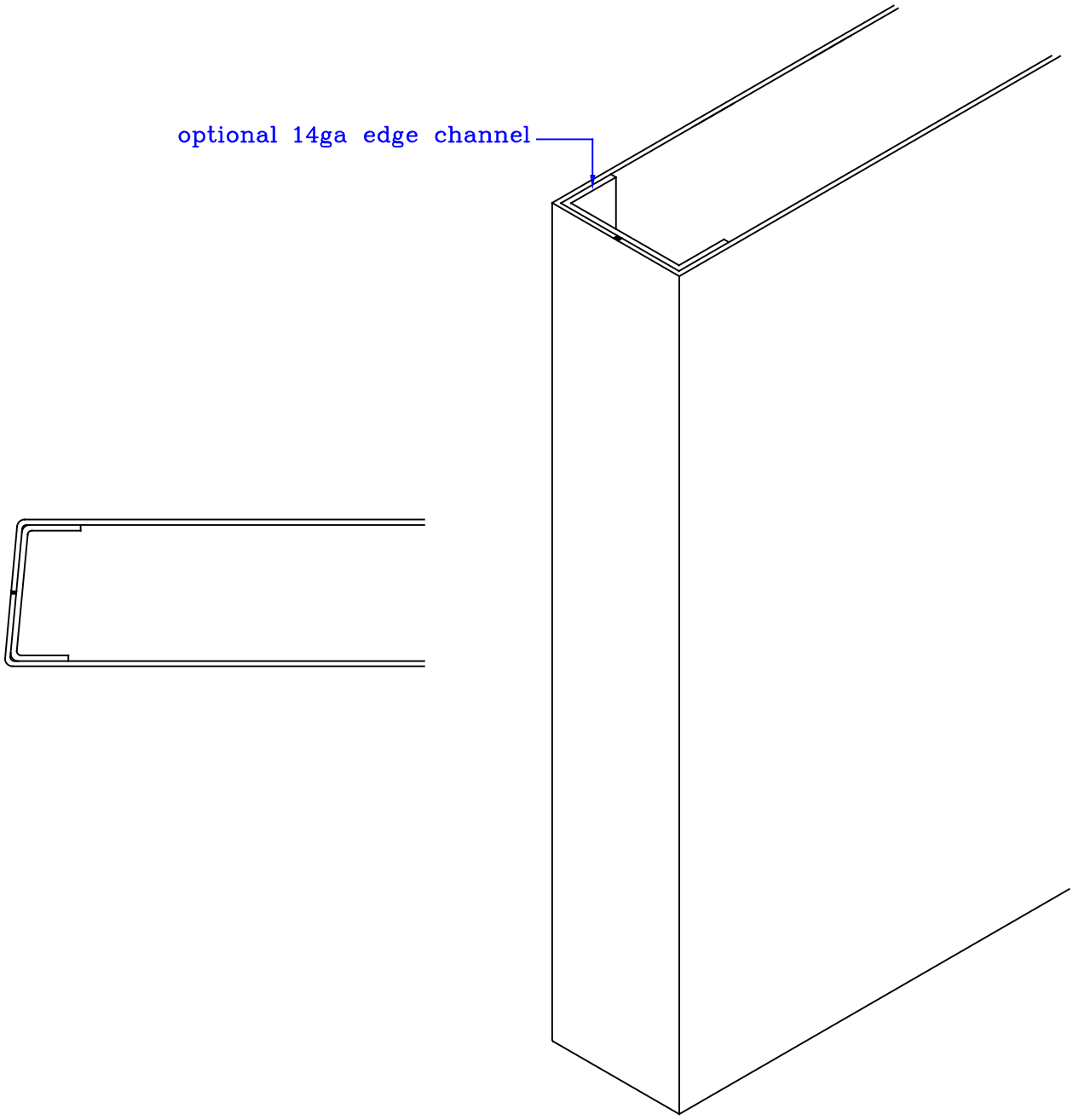
18ga edge channel



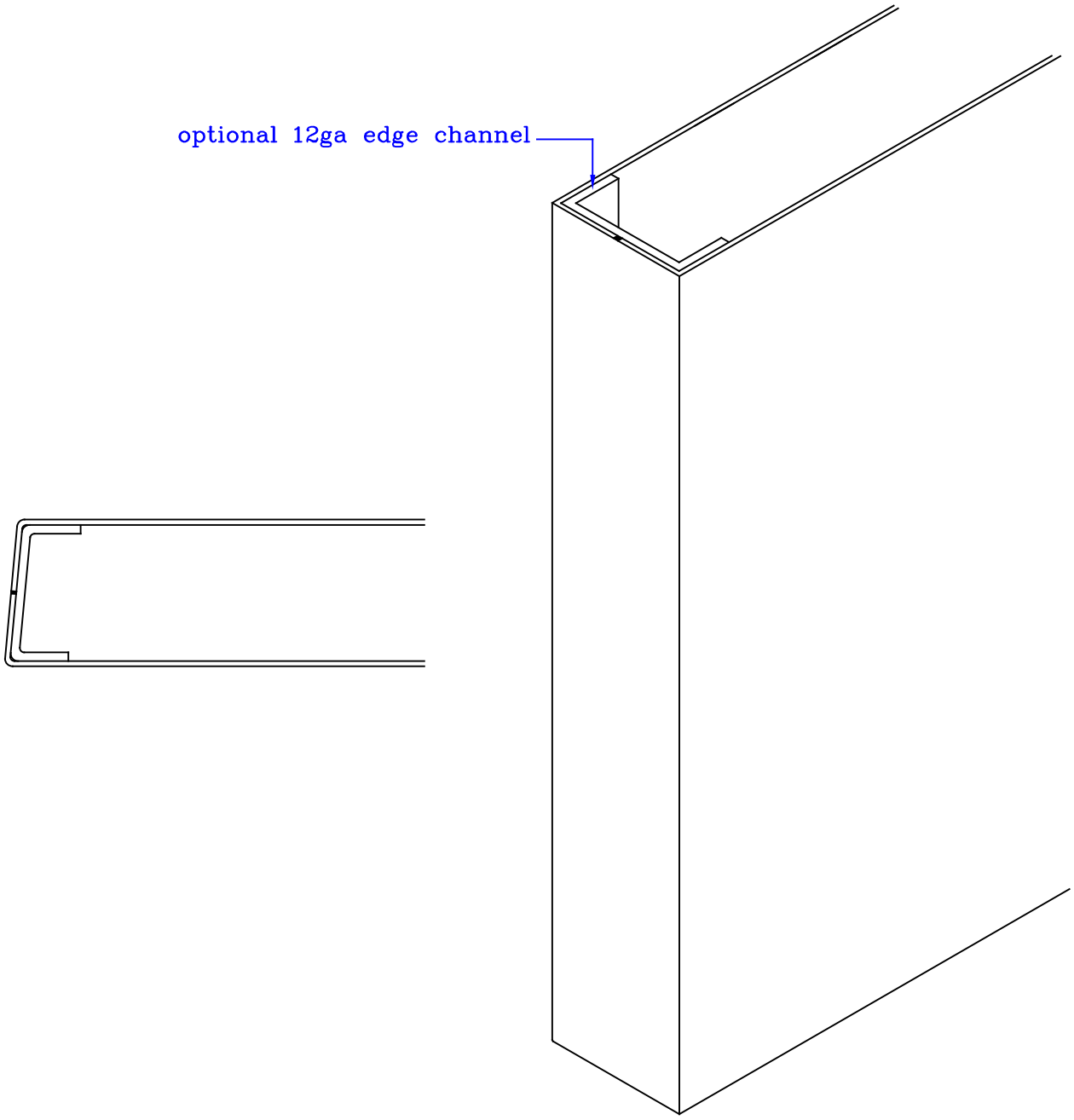
16ga edge channel



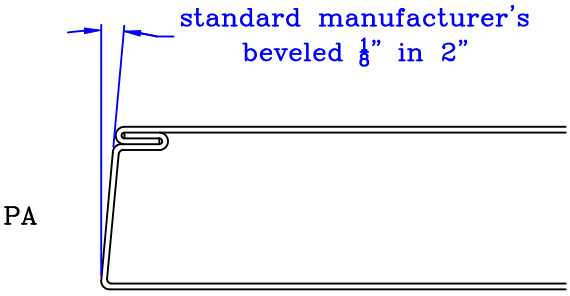
14ga edge channel



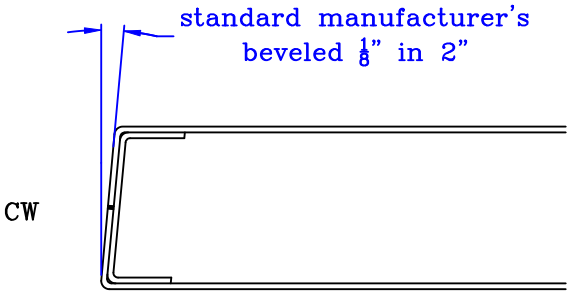
12ga edge channel



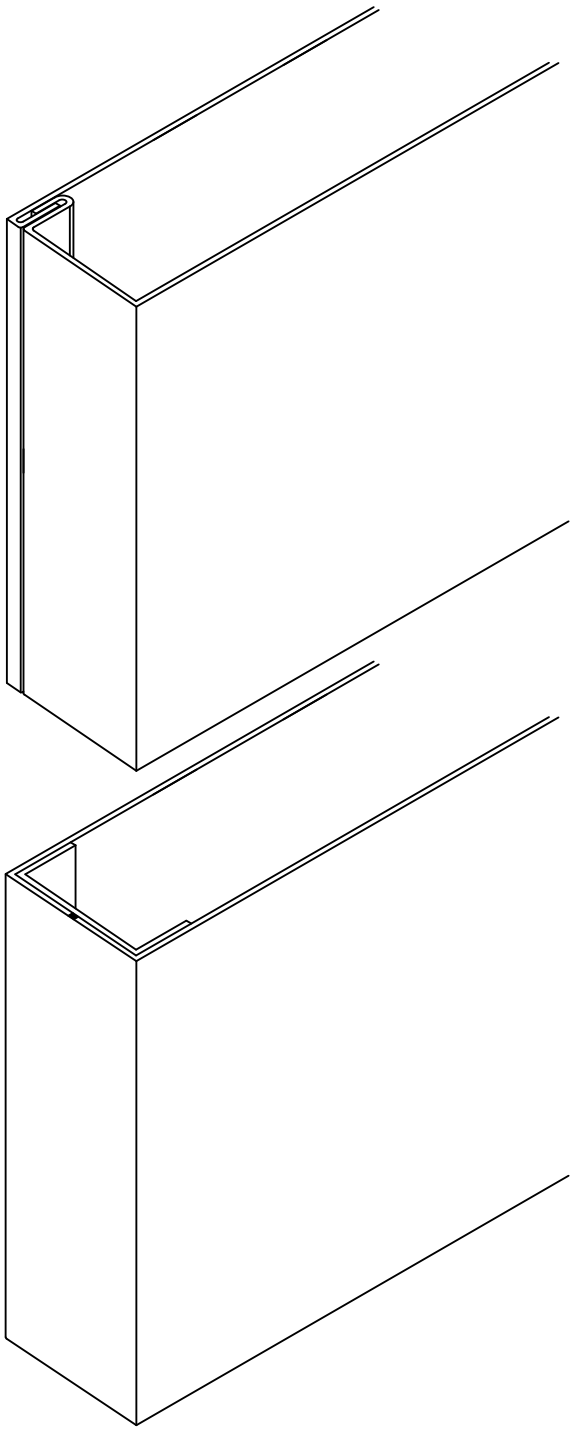
Beveled edge door



PA



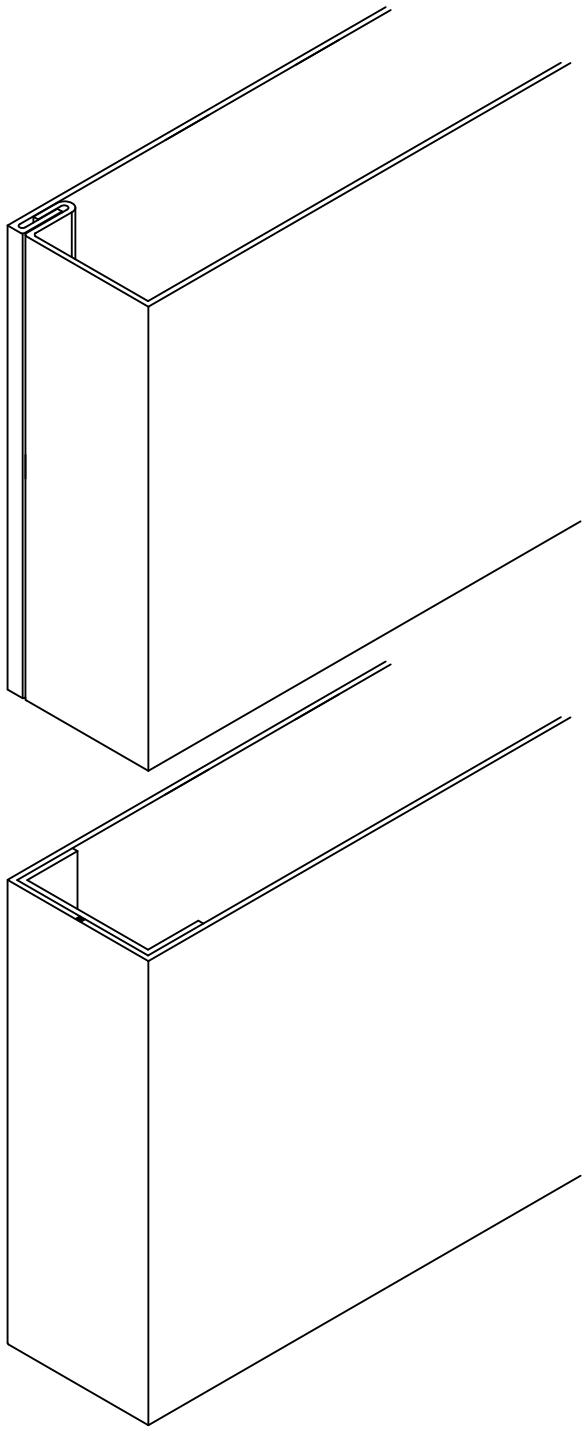
CW



BEVH

Standard for doors with butt hinges

Square edge door



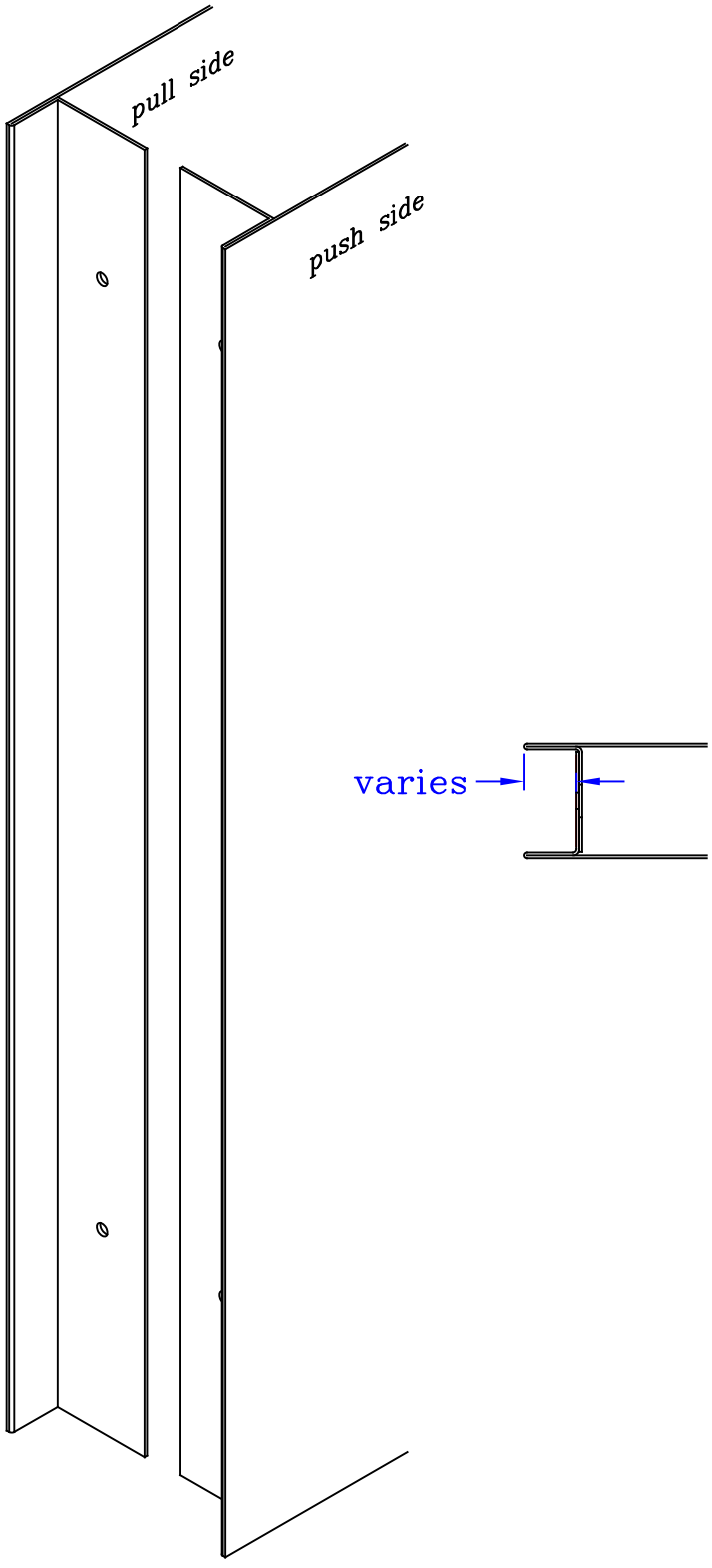
PA

CW

SQH

Standard for doors with continuous hinge

Pocket pivot edge

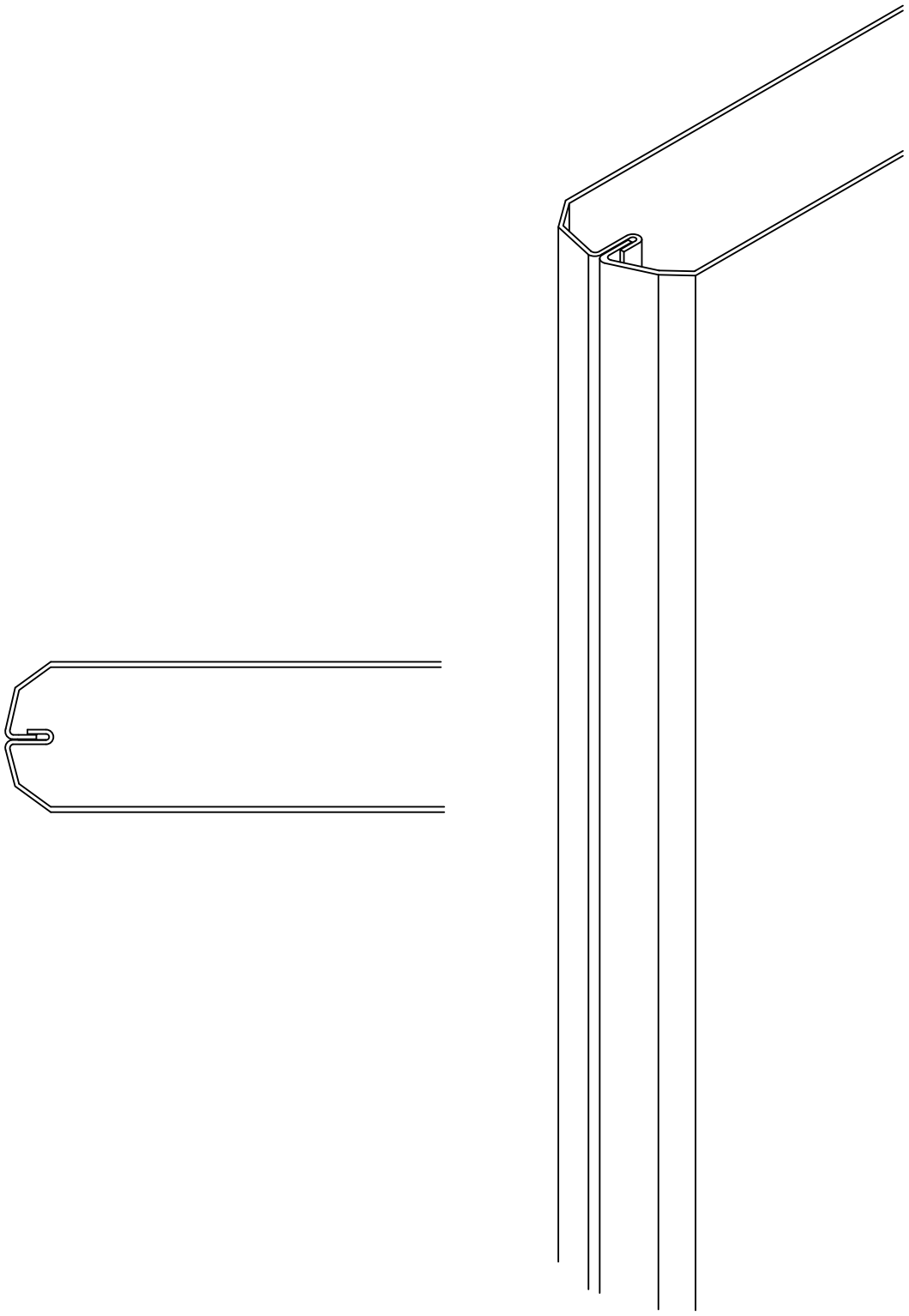


PPHEC

*manufacturer's template to be provided, see page O-4.26 for additional detail.

Segmented radius pivot edge for double acting door

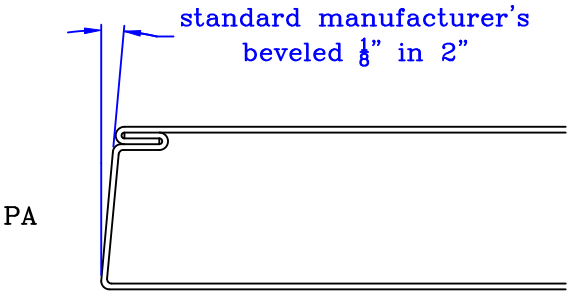
Available for 18 and 16ga.

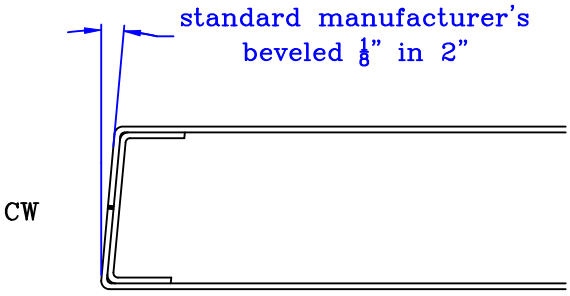


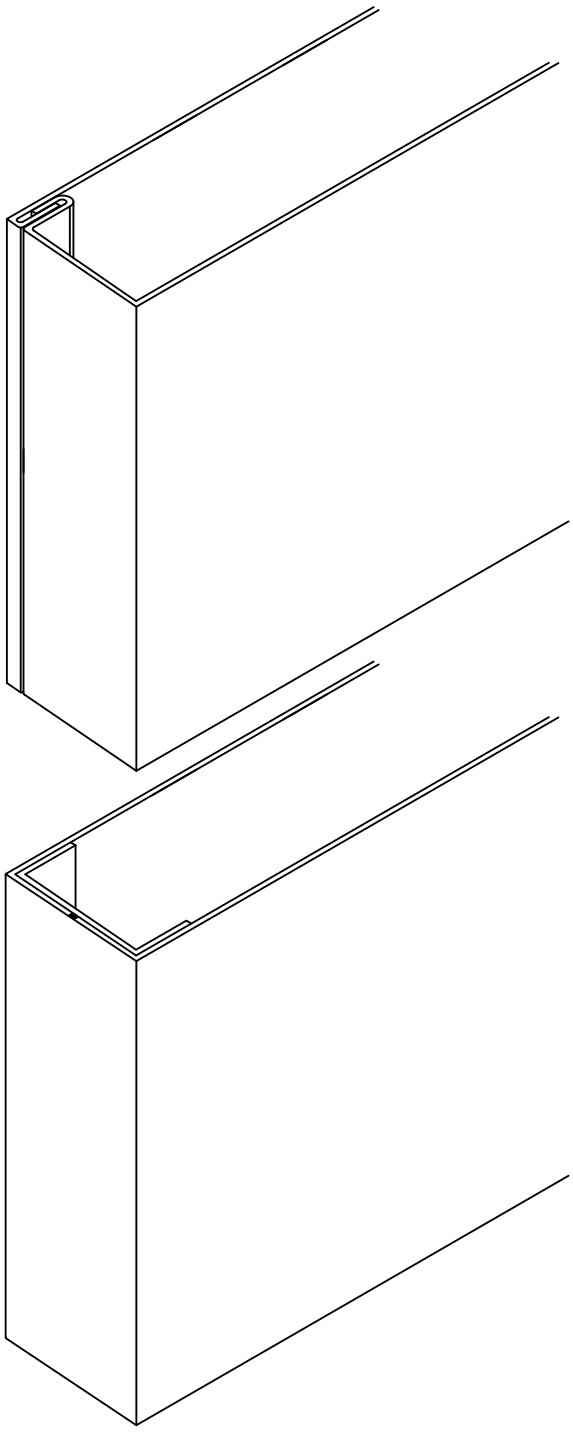
REH

Edge putty filled if PAF or CW on lock side

Beveled edge door



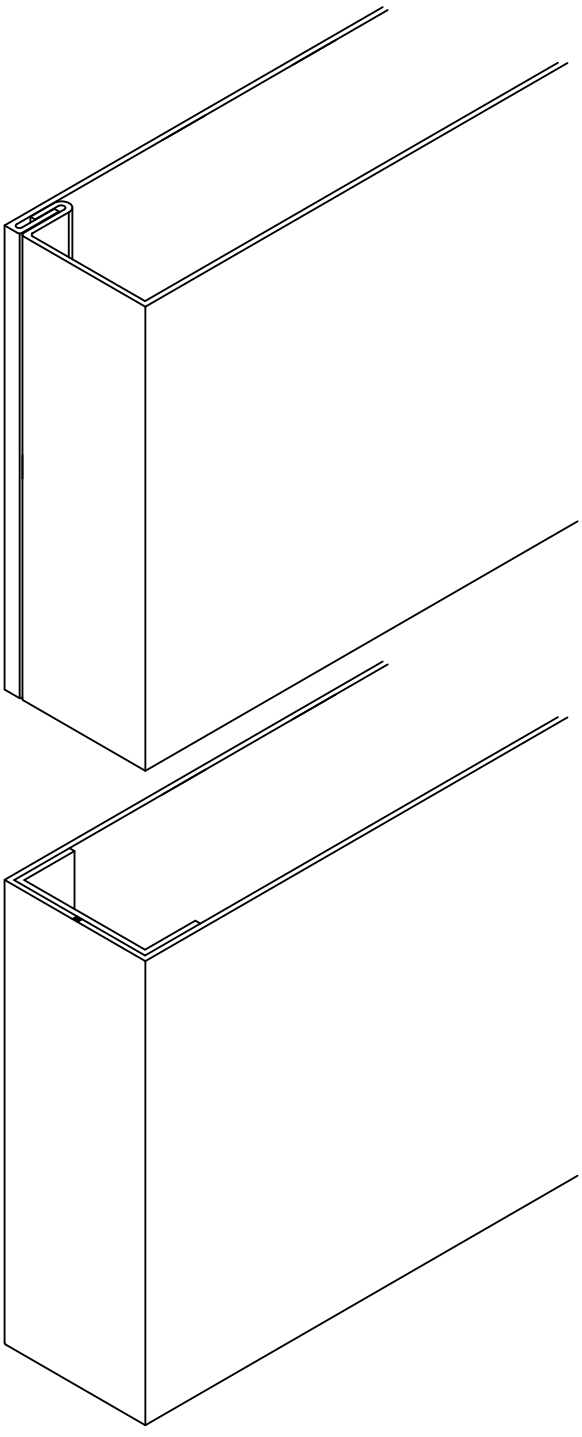




BEVL

Standard at lock edge

Square edge door

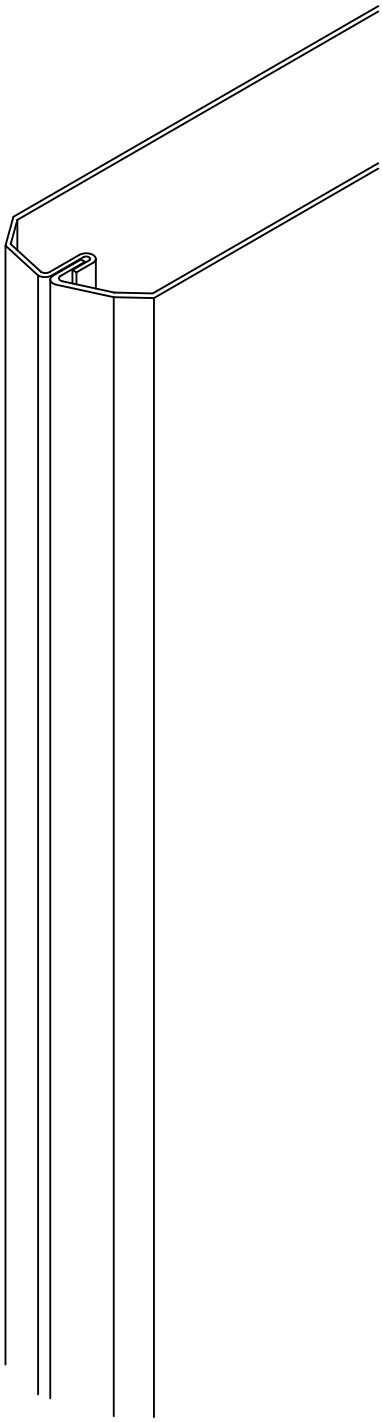


PA

CW

Standard at strike edge

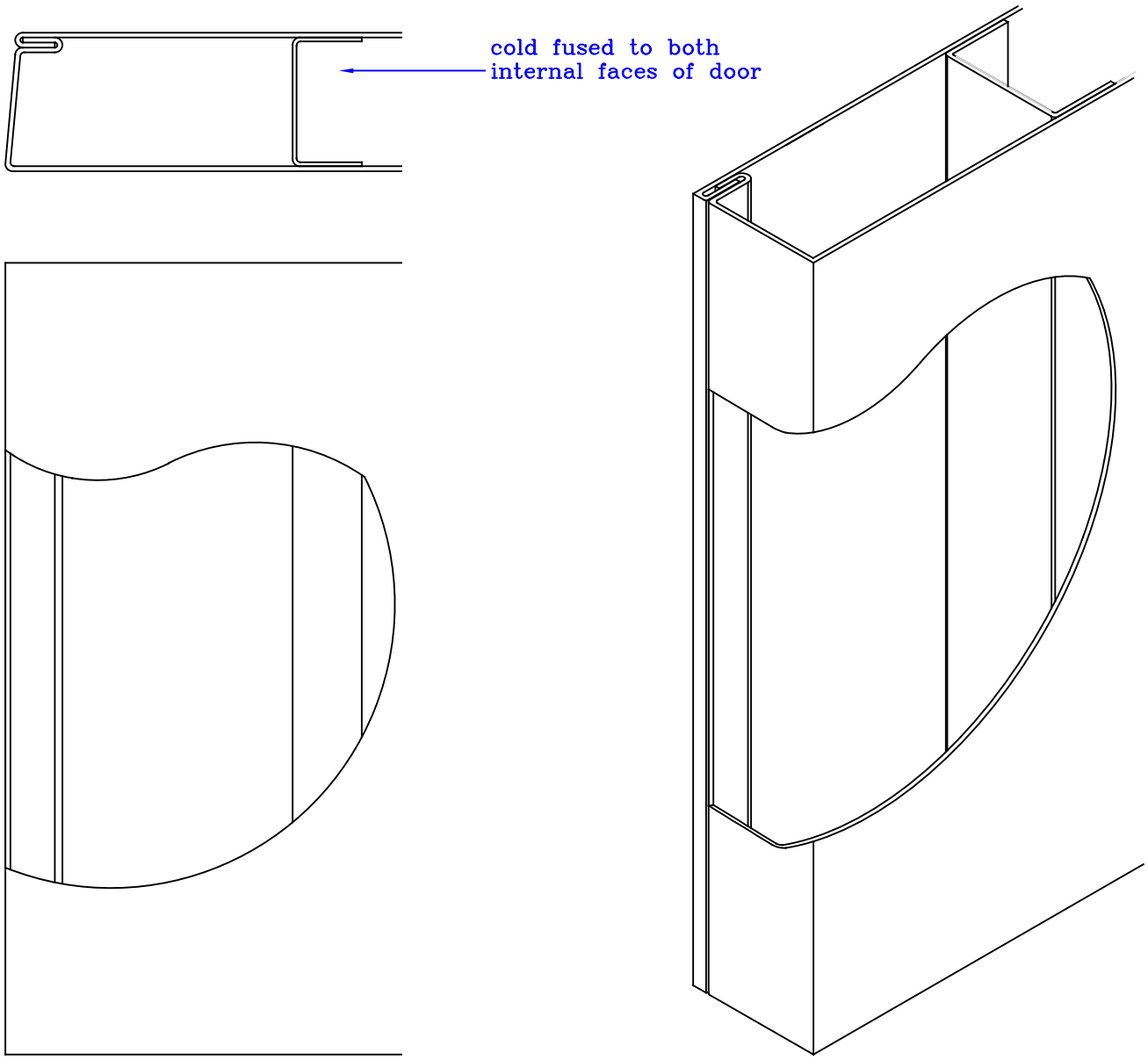
Segmented radius at lock edge
Available for 18 and 16ga.



REL

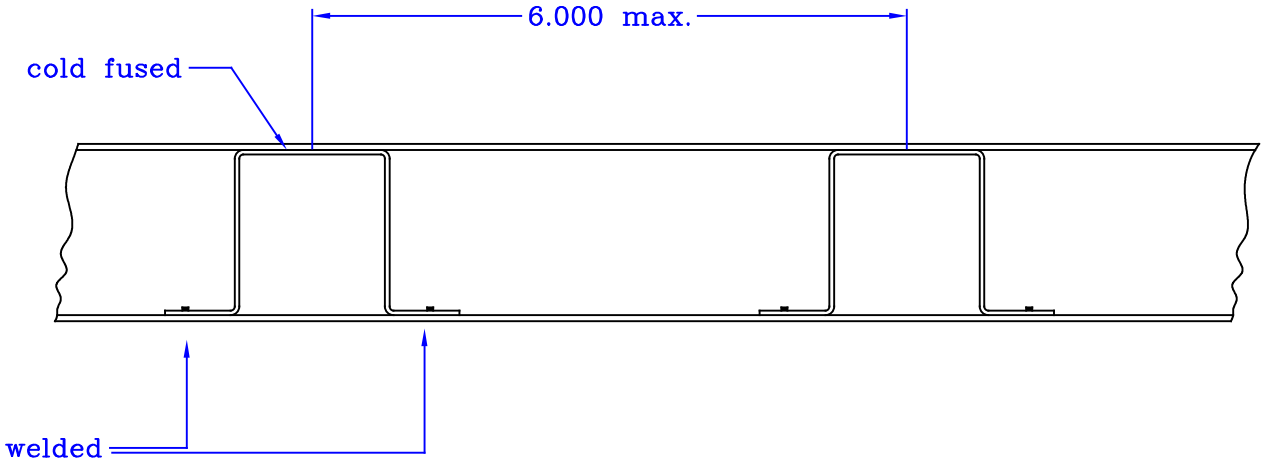
Edge putty filled if PA or CW on hinge edge

Bonded stiffener



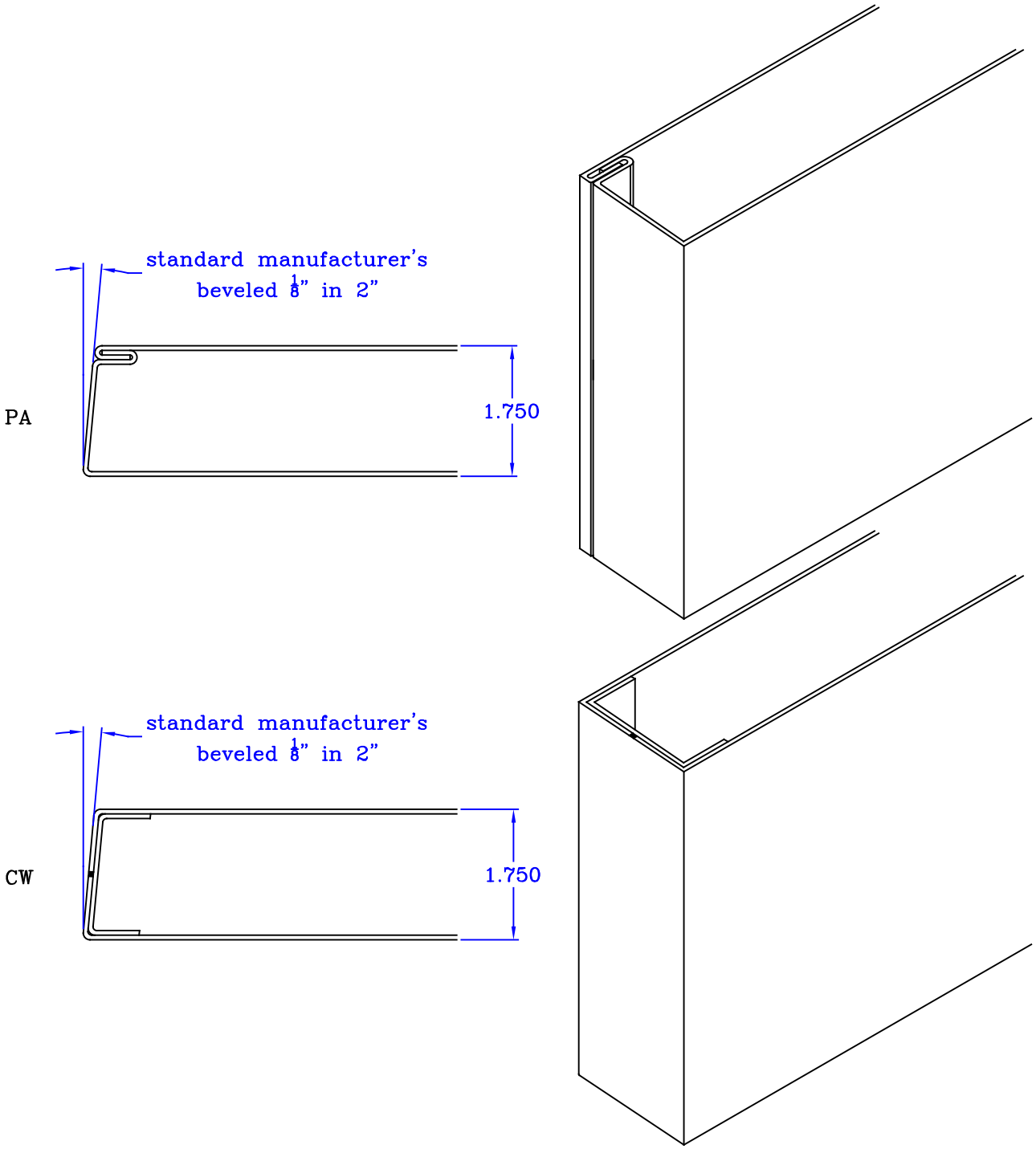
B

Welded stiffener



1 3/4" door thickness

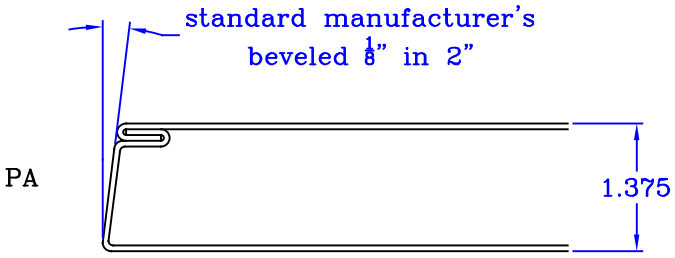
Nominal thickness shown, may vary with gage

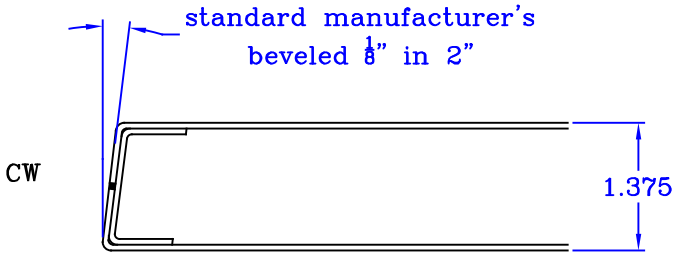


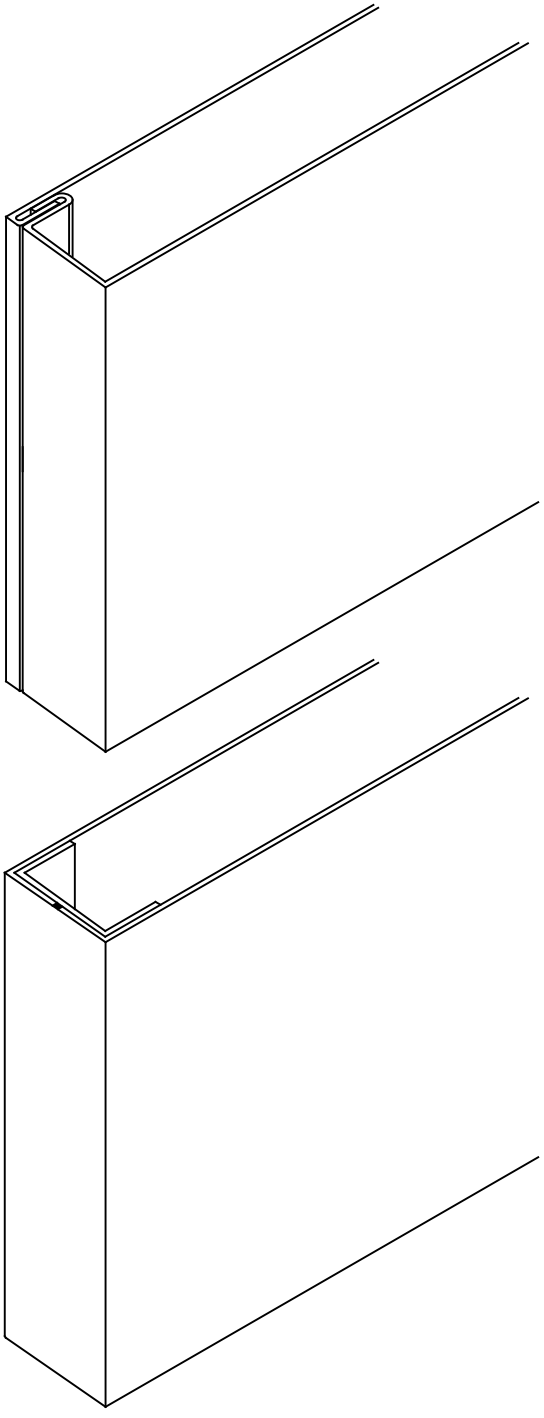
Beveled edge shown, square edge available

1 3/8" door thickness

Nominal thickness shown, may vary with gage



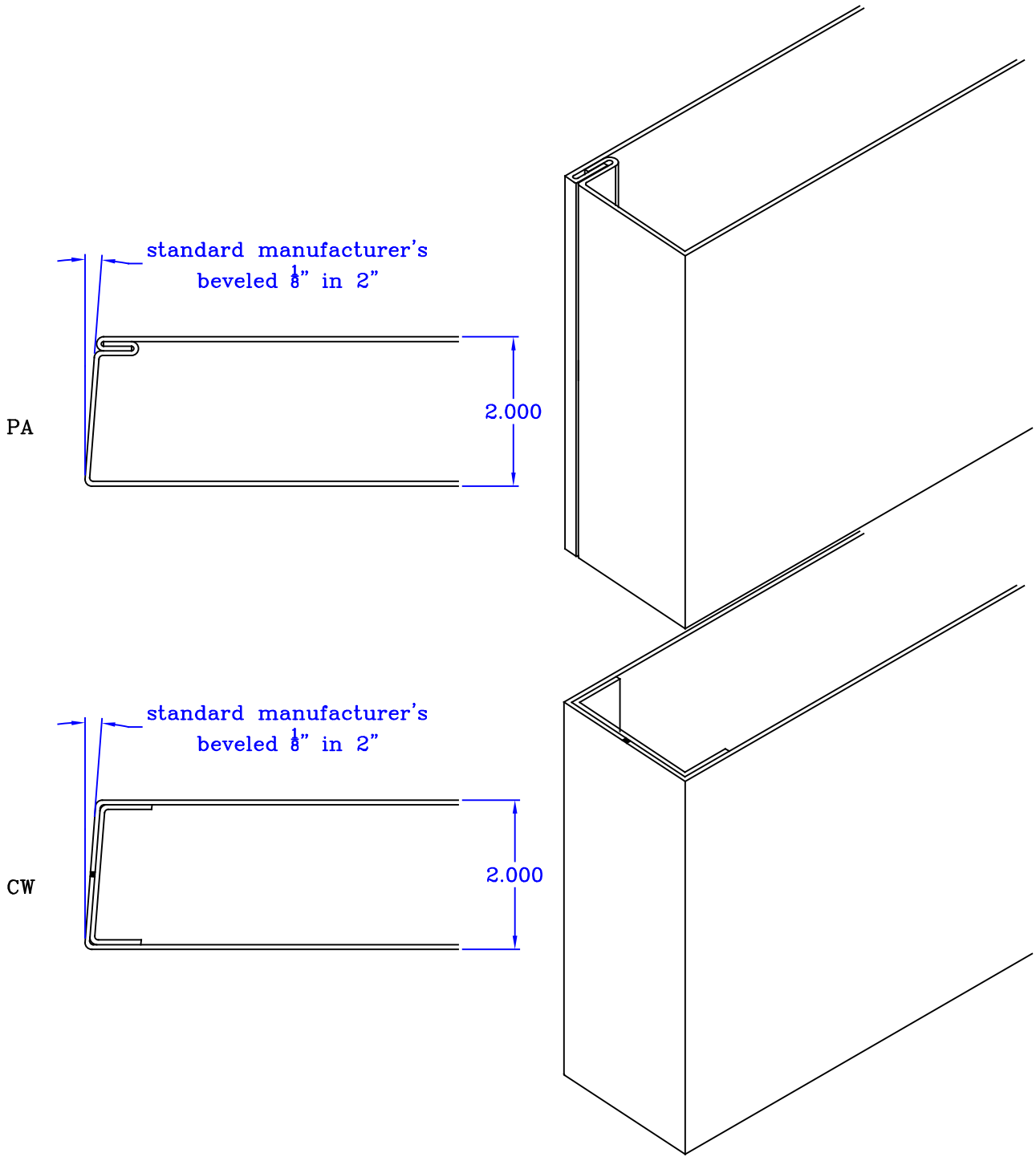




Beveled edge shown, square edge available
Polystyrene core only

2" door thickness

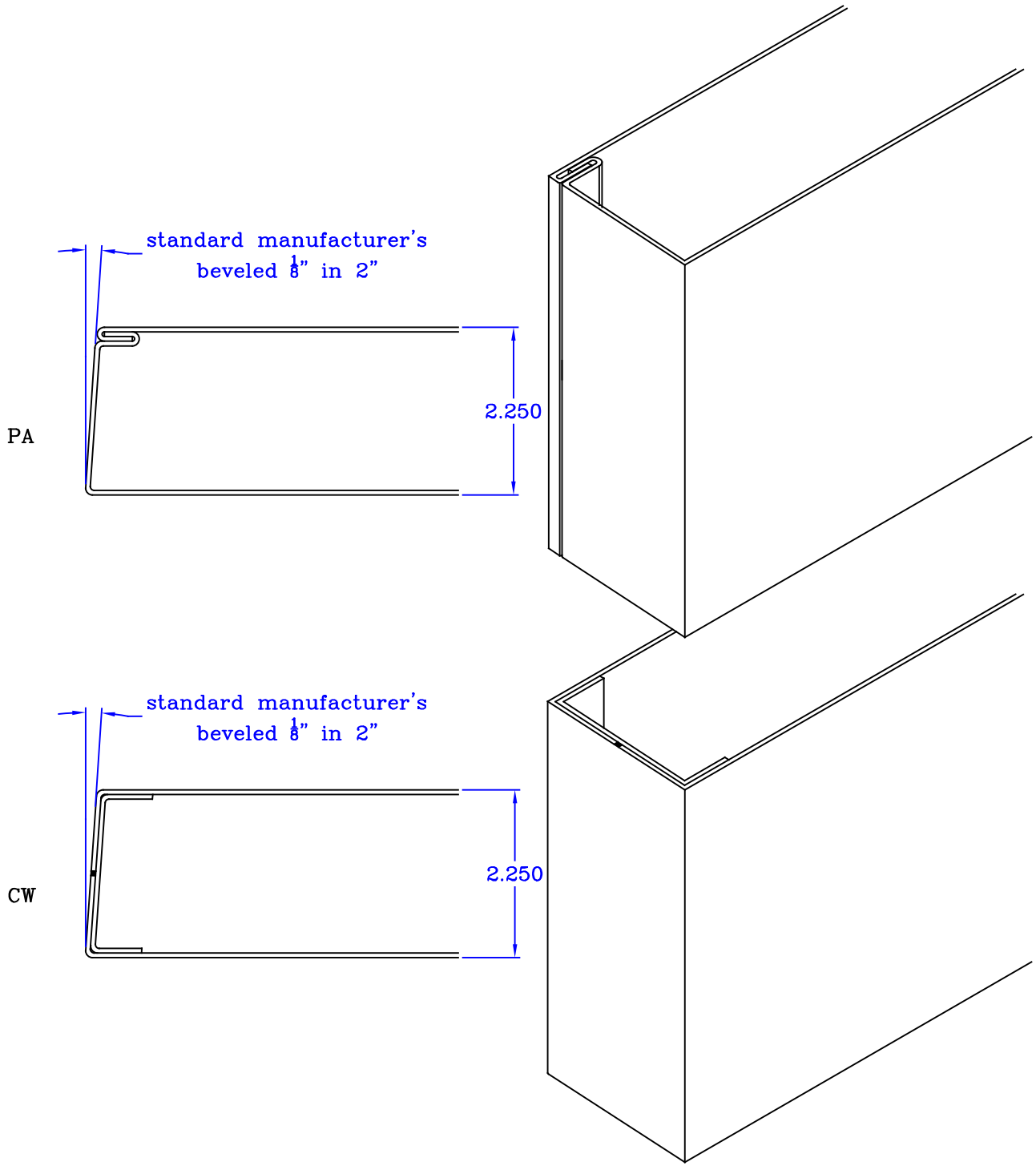
Nominal thickness shown, may vary with gage



Beveled edge shown, square edge available
Polystyrene core only
Standard 1/4" hinge backset unless stated otherwise

2 1/4" door thickness

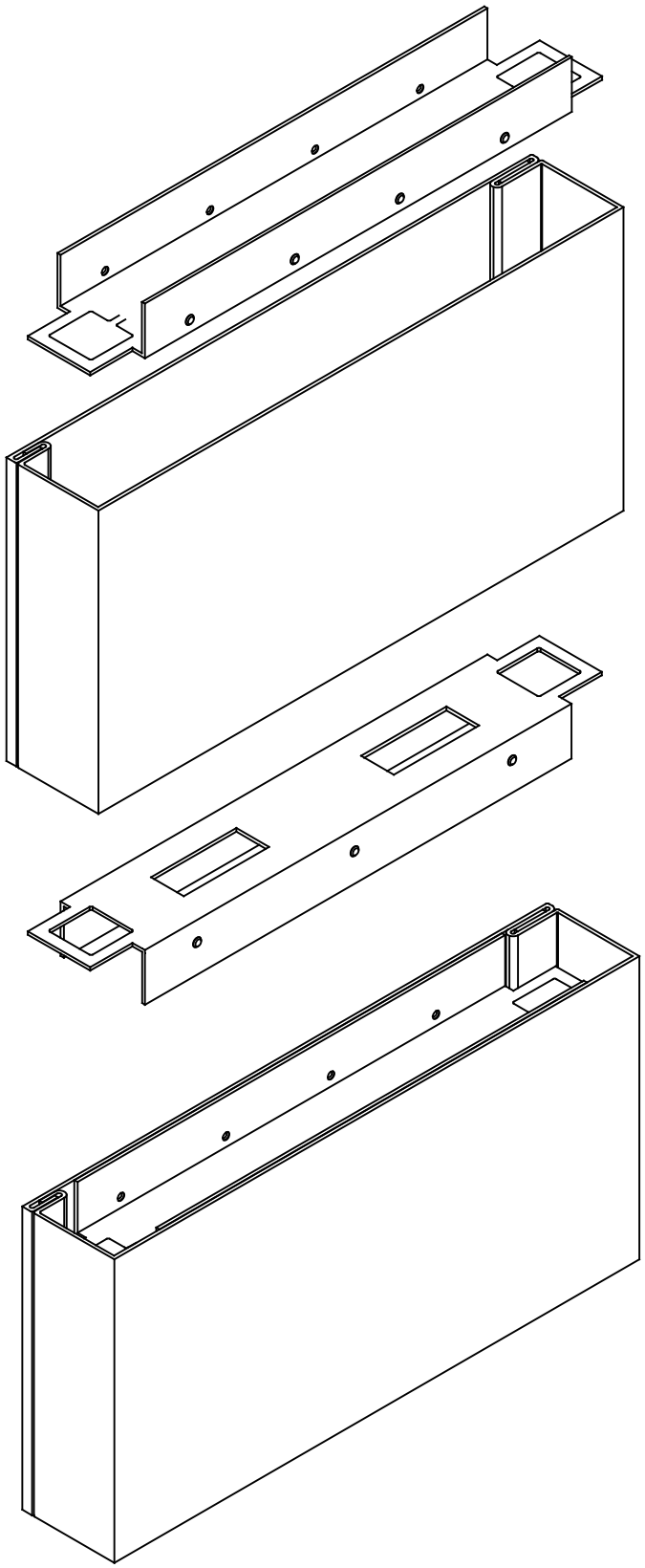
Nominal thickness shown, may vary with gage



Beveled edge shown, square edge available
Polystyrene core only
Standard 1/4" hinge backset unless stated otherwise

Standard inverted end channel

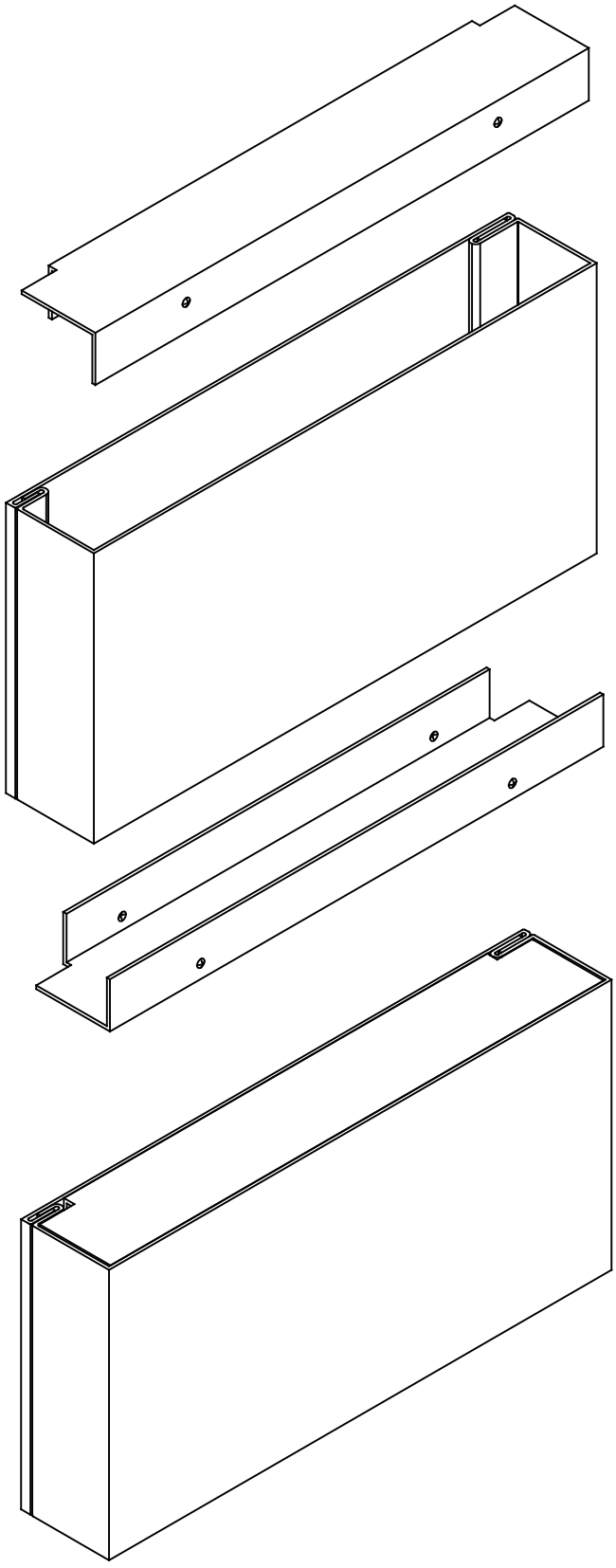
Projection welded



Available for top and/or bottom
*16ga, 14ga & 12ga optional see CH14 & CH12

Flush welded cap

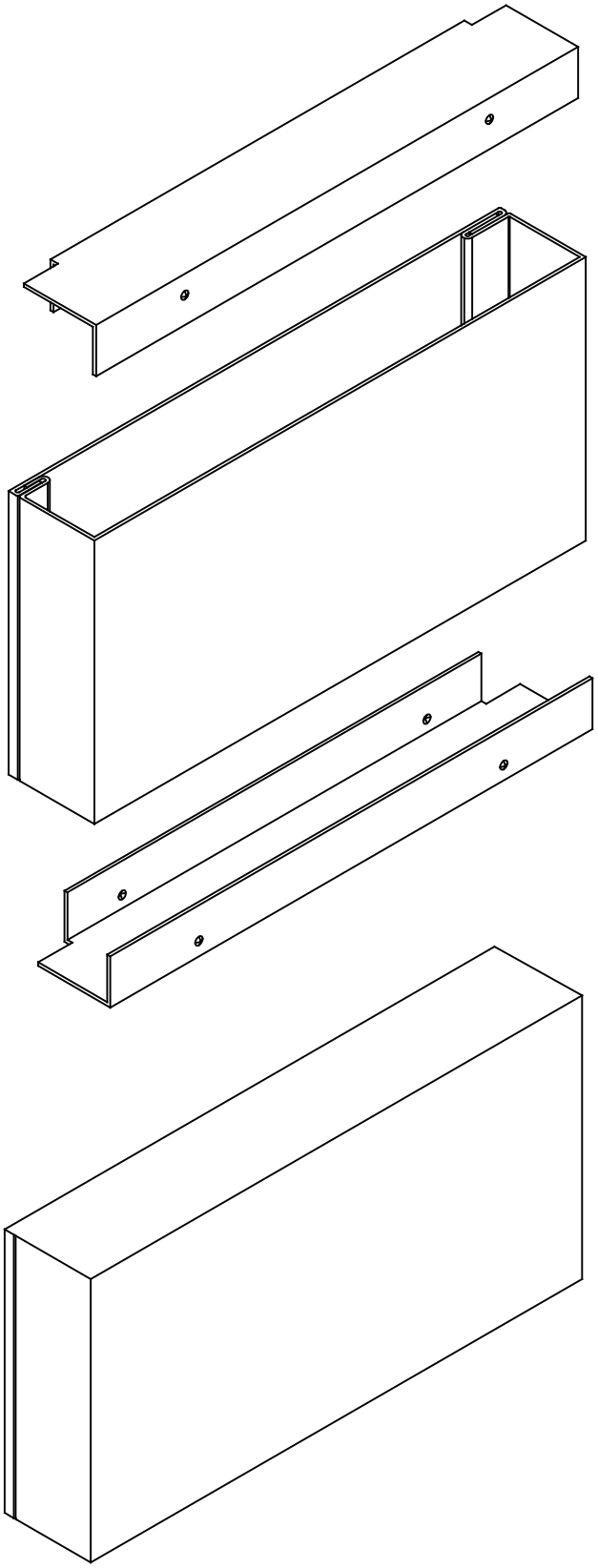
Projection welded



Available for top and/or bottom
*16ga, 14ga & 12ga optional see CH14 & CH12

Flush welded and sealed cap

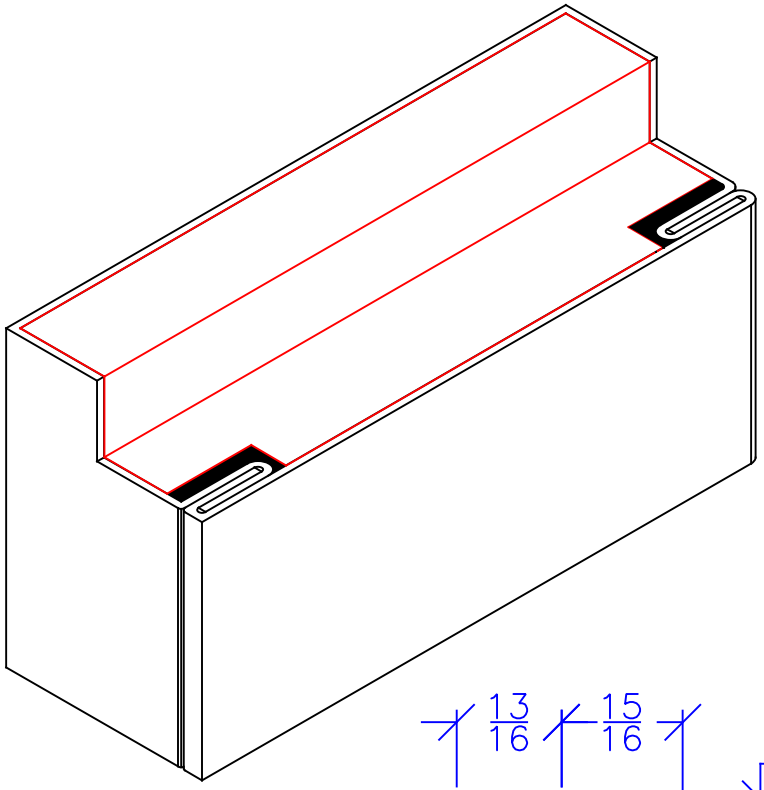
Projection welded

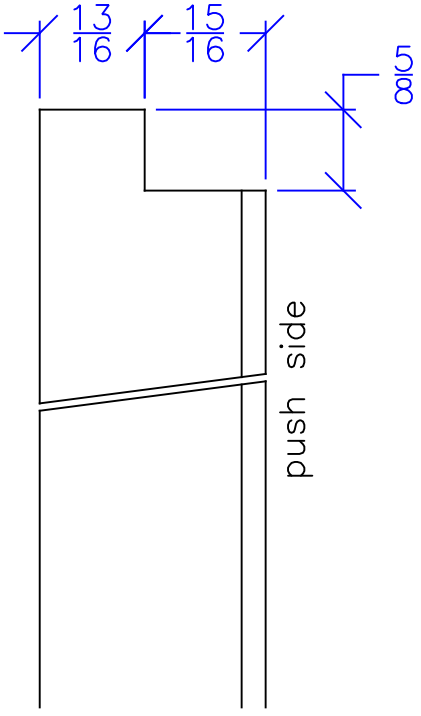


Available for top and/or bottom
*16ga, 14ga & 12ga optional see CH14 & CH12

Rabbeted Cap, 16ga

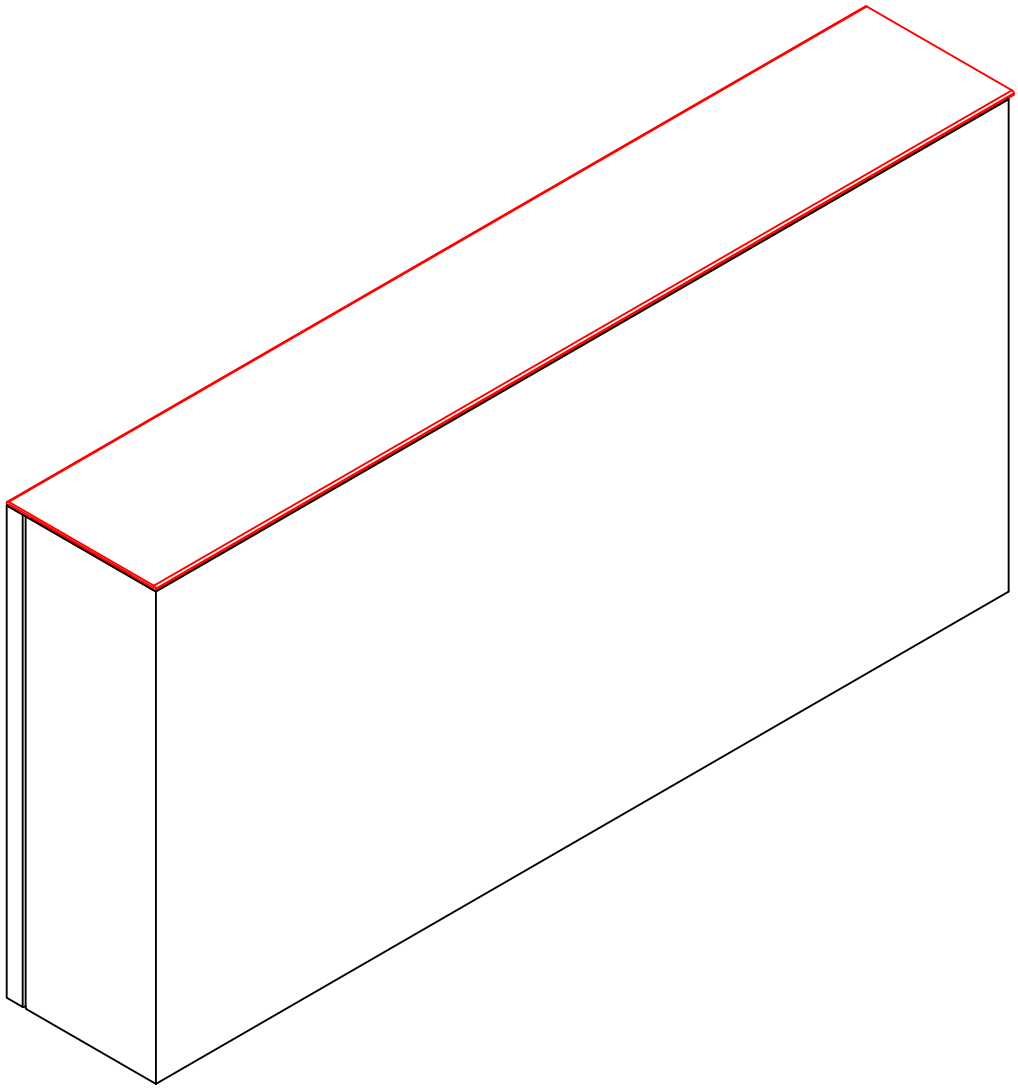
Projection welded

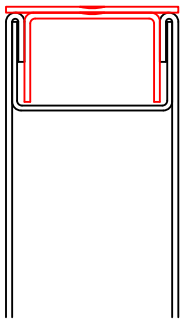




Top only, to be use when rabbeted transom panel.

Snap-in cap, 18ga





SNAP

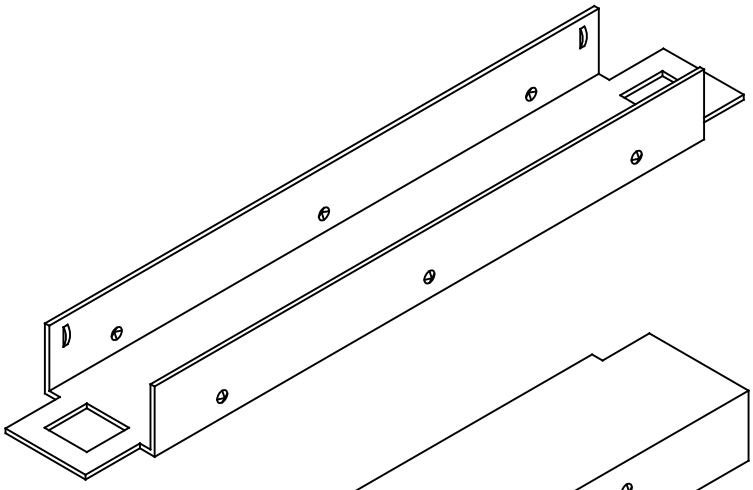
For stainless steel door only.
Available for top and bottom.

14 gauge end channel/cap

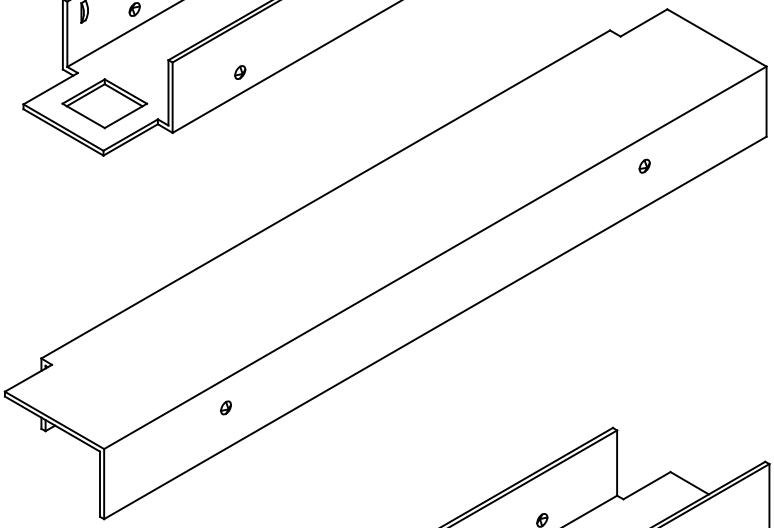
Projection welded

TOP

ST

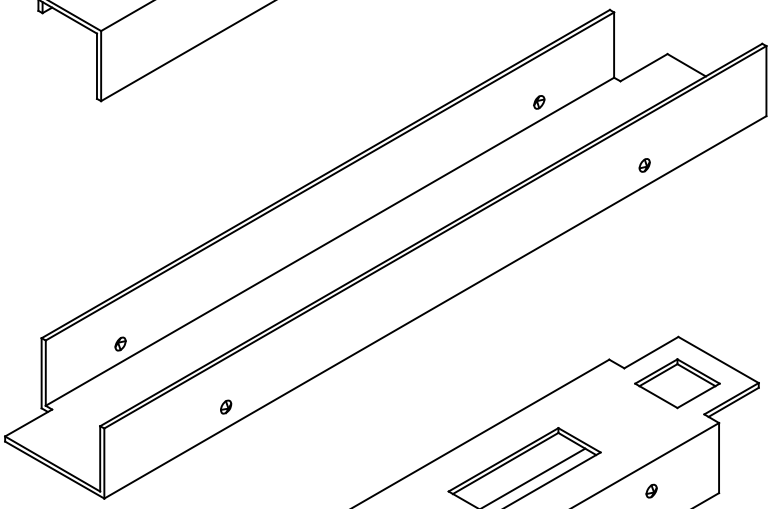


FWC/FWSC

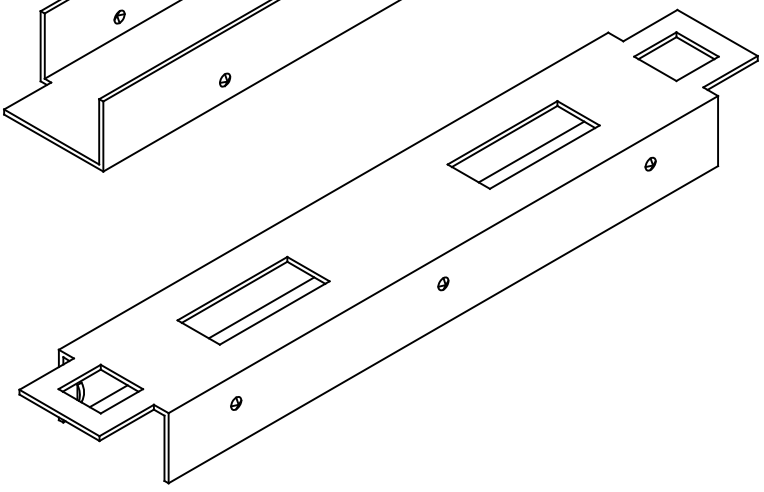


BOTTOM

FWC/FWSC



ST

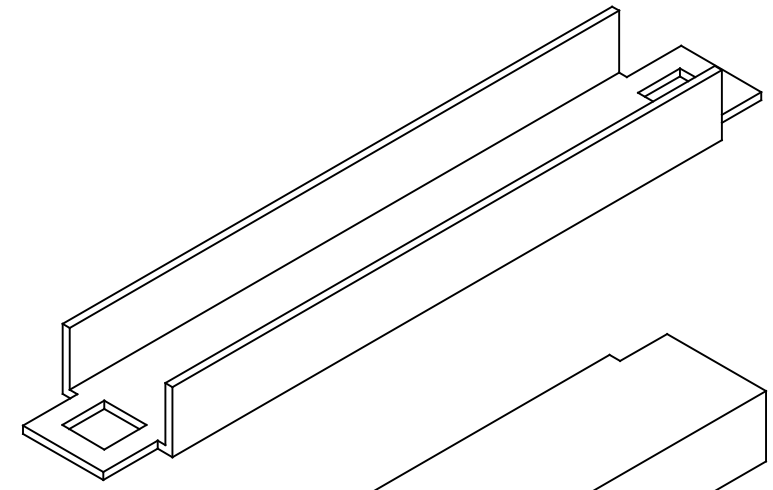


12 gauge end channel/cap

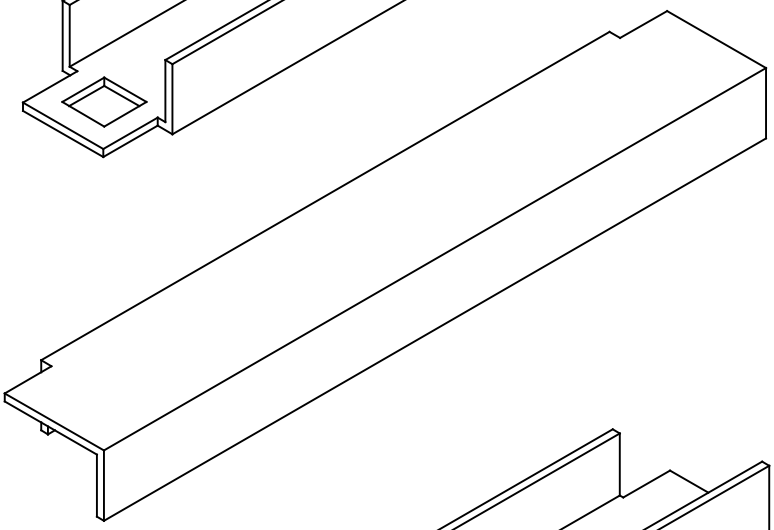
Tack and/or plug welded

TOP

ST

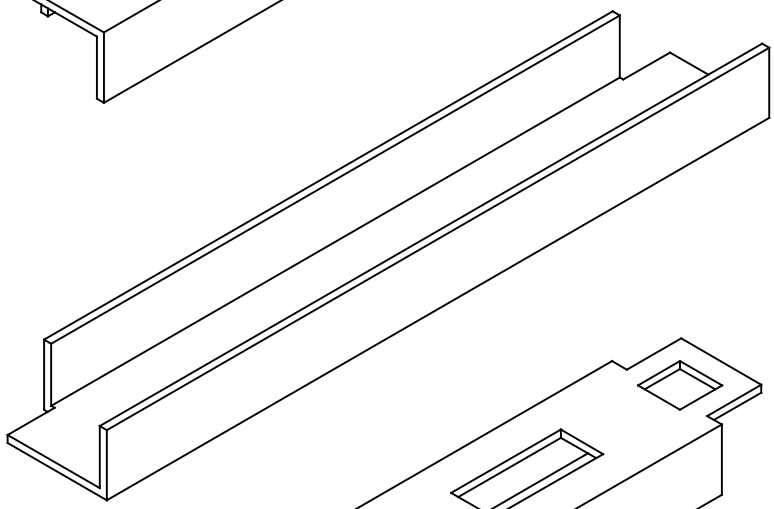


FWC/FWSC

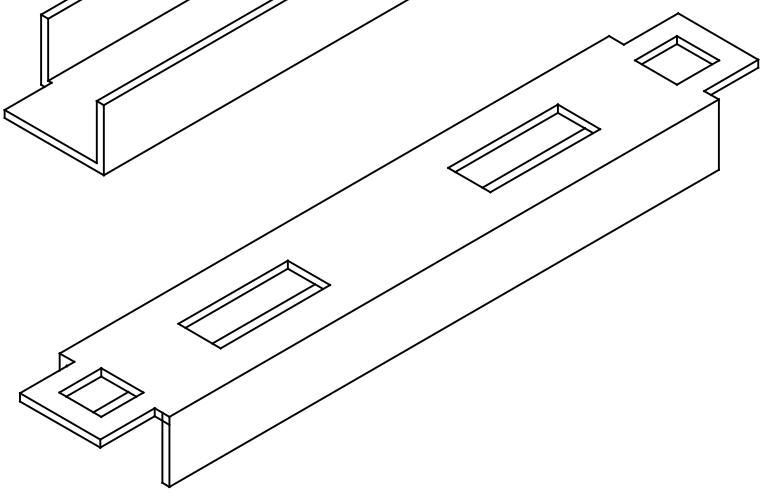


BOTTOM

FWC/FWSC



ST



Baked on primer

Grey Waterborne Primer

General Properties

A quick drying water-based primer designed for application to galvannealed surfaces. This product has excellent adhesion and corrosion resistance properties and is compatible with a wide variety of architectural topcoat paints. This primer can be topcoated immediately, or at any time in the future. Note that per NAAMM/HMMA 840 it is recommended to apply the finish coat of paint within 30 days of delivery. This product contains low VOC's and is engineered to surpass ANSI A250.10 Specifications when applied to galvannealed substrates.

Product Information

Generic type: Acrylic resins
Pigment type: Anti-corrosive
Color: grey
Finish: low sheen

Average volume solids: 34.3%

Mix ratio: Single component
Viscosity: 68 -72 K.U.
V.O.C. mixed: 141 g/l (1.17 lbs/gla)
Temperature resistance (dry):
75°C (167°F) continuous
100°C (212°F) intermittent
Thinner: water

Recommended Topcoats

Topcoat with any water or solvent base architectural paints.

Performance Criteria Tested to ANSI A250.10-1998(R2011)

Salt spray test:
Standard practice for operating salt spray (fog) apparatus
Method: ASTM B117-03
"X" scribe per ASTM D1654-92 (2000) section 4.1 and 5.1
120 hours continuous exposure
Acceptance criteria:
rust grade less than 6 as defined by ASTM D610-01
undercut less than 1/8" on each side
Performance on galvanneal: pass

Condensation testing (humidity)
Standard practice for testing water resistance of coatings using controlled condensation
Method: ASTM D4585-99
100°F minimum temperature
240 hours continuous exposure
Acceptance criteria:
any amount of #8 blisters as defined by ASTM D714-02
less or equal few #6 blisters as defined by ASTM D714-02
Performance on galvanneal: pass

Impact test:
Standard test method for resistance of organic coatings to the effect of rapid deformation
Method: ASTM D2794-93 (1999)e1
20 inch pounds direct using a Gardner impact tester with ½" diameter ball at 70-75°F
tape (3/4" wide) pull off test using #600 Scotch tape

Acceptance criteria:
no paint film removal other than an area 1/8" in diameter at the center of the impact test
Performance on galvanneal: pass

Film adhesion test:
Standard test methods for measuring adhesion by tape test
Method: ASTM D3359-02
method B with 11 parallel cuts made 1mm apart
tape (1" wide) pull off test
Acceptance criteria:
less or equal 3B as defined by ASTM D3359-02
less or equal 5 -15 % film removal
Performance on galvanneal: pass

Powder coated standard color prefinished

General Properties

POWDURA RAL® Series Durable Polyester TGIC-free Powder Coatings are recommended for a broad range of interior/exterior decorative applications. They are designed for superior weatherability compared to standard polyester powder coatings.

Advantages

Excellent exterior color and gloss retention

Excellent overbake resistance

Good chemical resistance

Application

Cure schedule	10mn @ 205 C
Film thickness range (mils)	2.0-3.0

Attributes

Specific gravity (g/ml)	1.68
Coverage at 1.0 Mil (ft2/lb)	114.8
60° gloss (ASTM D-523)	28-42
Adhesion (ASTM D-3359)	5B
Flexibility (ASTM D-522)	pass 1/8”
Pencil hardeness (ASTM D-3363)	H-2H
Impact resistance (in lb.) (ASTM D-2794)	Dir 160 in-lbs Rev 160 in-lbs

Performance measured using 24-gauge Bonderite® 1000 test panels.

PC

See www.ralcolor.com

Positive pressure 180 minutes
Mylar label with protective film

180

Located between 1st and 2nd hinge prep when butt hinges or at top channel when continuous hinge.

Positive pressure 90 minutes
Mylar label with protective film

90

Located between 1st and 2nd hinge prep when butt hinges or at top channel when continuous hinge.

Positive pressure 60 minutes
Mylar label with protective film

60

Located between 1st and 2nd hinge prep when butt hinges or at top channel when continuous hinge.

Positive pressure 45 minutes
Mylar label with protective film

45

Located between 1st and 2nd hinge prep when butt hinges or at top channel when continuous hinge.

Positive pressure 20 minutes
Mylar label with protective film

Located between 1st and 2nd hinge prep when butt hinges or at top channel when continuous hinge.

Construction Label – Fire Door/Frame

Mylar label with protective film

CL

Located between 1st and 2nd hinge prep when butt hinges or at top channel when continuous hinge.

Fire Exit Hardware - Supplemental Label

Mylar label with protective film

54835

Located between 1st and 2nd hinge prep when butt hinges or at top channel when continuous hinge.

Positive pressure 180 minutes
Riveted

180R

Located between 1st and 2nd hinge prep when butt hinges or at top channel when continuous hinge.

Positive pressure 90 minutes
Riveted

90R

Located between 1st and 2nd hinge prep when butt hinges or at top channel when continuous hinge.

Positive pressure 60 minutes
Riveted

60R

Located between 1st and 2nd hinge prep when butt hinges or at top channel when continuous hinge.

Positive pressure 45 minutes
Riveted

45R

Located between 1st and 2nd hinge prep when butt hinges or at top channel when continuous hinge.

Positive pressure 20 minutes
Riveted

20R

Located between 1st and 2nd hinge prep when butt hinges or at top channel when continuous hinge.

Construction Label – Fire Door/Frame

Riveted

CLR

Located between 1st and 2nd hinge prep when butt hinges or at top channel when continuous hinge.

Fire Exit Hardware - Supplemental Label

Riveted

54848

Located between 1st and 2nd hinge prep when butt hinges or at top channel when continuous hinge.

FBC Hurricane, HVHZ, ±50 PSF, includes door reinforcements

Mylar label with protective film

HUR50

Located between 1st and 2nd hinge prep when butt hinges or at top channel when continuous hinge.

FBC Hurricane, HVHZ, ±70 PSF, includes door reinforcements

Mylar label with protective film

HUR70

Located between 1st and 2nd hinge prep when butt hinges or at top channel when continuous hinge.

FBC Hurricane, Non-HVHZ, ±70 PSF

Mylar label with protective film

HUR70N

Located between 1st and 2nd hinge prep when butt hinges or at top channel when continuous hinge.

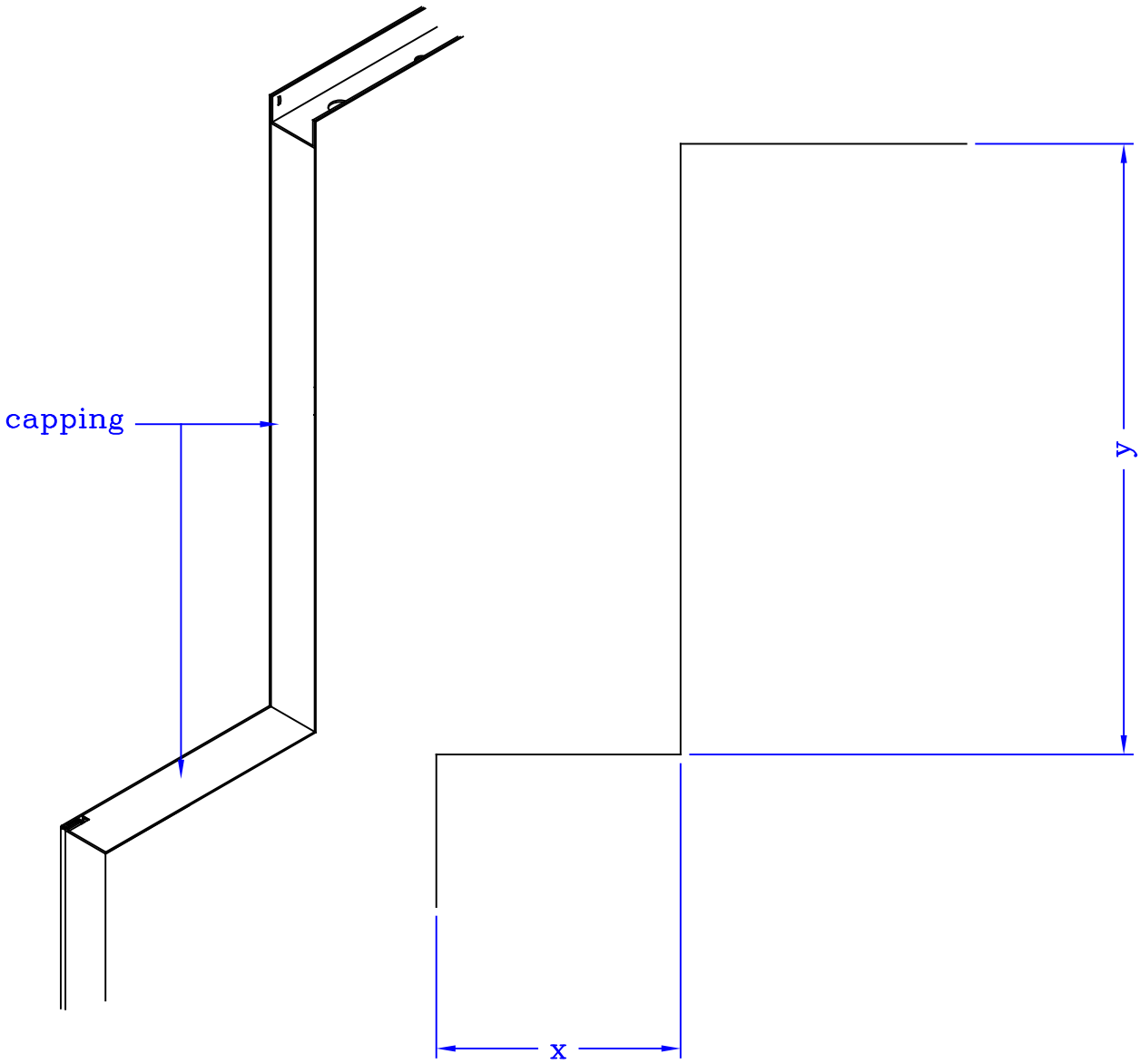
Construction Label - Hurricane-Resistant Door/Frame

Mylar label with protective film

HURCL

Located between 1st and 2nd hinge prep when butt hinges or at top channel when continuous hinge.

Prep for monorail cut out
per leaf



Hot dipped galvannealed steel A40 (ZF120)

Our A40 material is compliant with the ASTM A653/A653M specifications. Which specification for steel sheet, zinc-coated (galvanized) or zinc-iron (galvannealed) by the hot dipped.
Zinc-iron coating of 0.30 oz/ft² total both sides per the single spot test.
In SI units it would be 90g/m² total both sides per the same test and listed under ZF120.

Hot dipped galvannealed steel A60(ZF180)

Material per ASTM A653/A653M

a zinc-iron alloy by the Hot-Dipped process with a thicker coating than the A40.

0.60 oz/sq.ft total on both surfaces compared to 0.40 oz/sq.ft.

Giving the product a higher rust and corrosion resistance.

Also called as ZF180 in SI units.

Hot dipped galvanized steel G90(Z275)

Material per ASTM A653/A653M

a zinc coating by the Hot-Dipped process.

0.90 oz/sq.ft total on both surfaces.

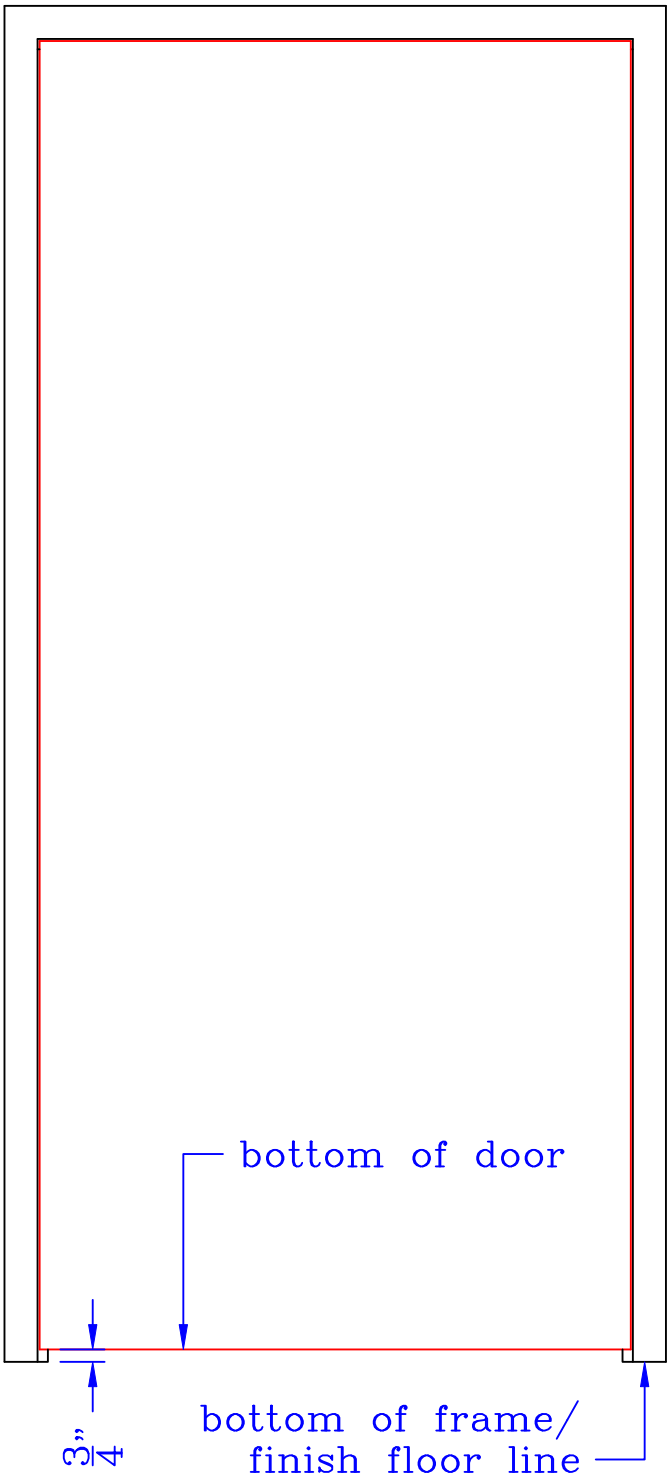
Recommended in damp or salty environment.

Also called as Z275 in SI units.

Doors(PA) and frames(KD) available unprimed only.

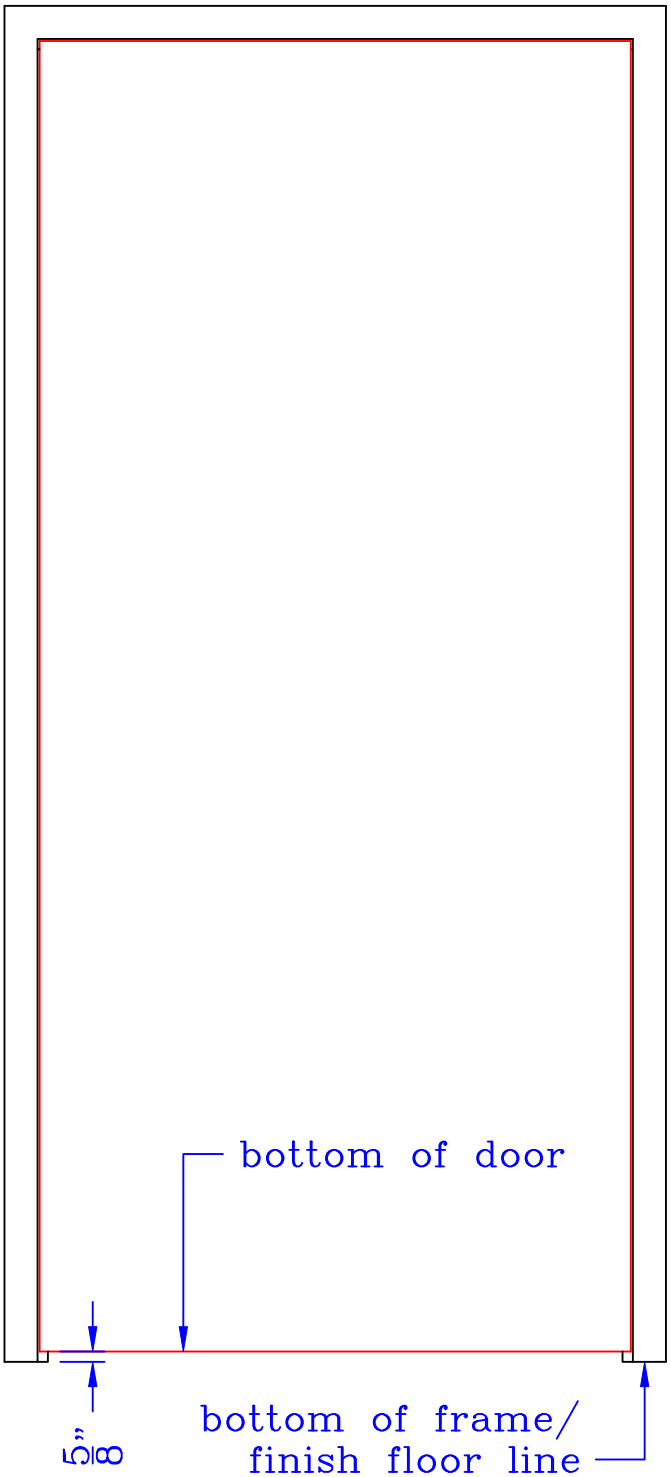
Doors(CW) and frames(FW,CFW) with a temporary coating only at grinded areas.

3/4" undercut



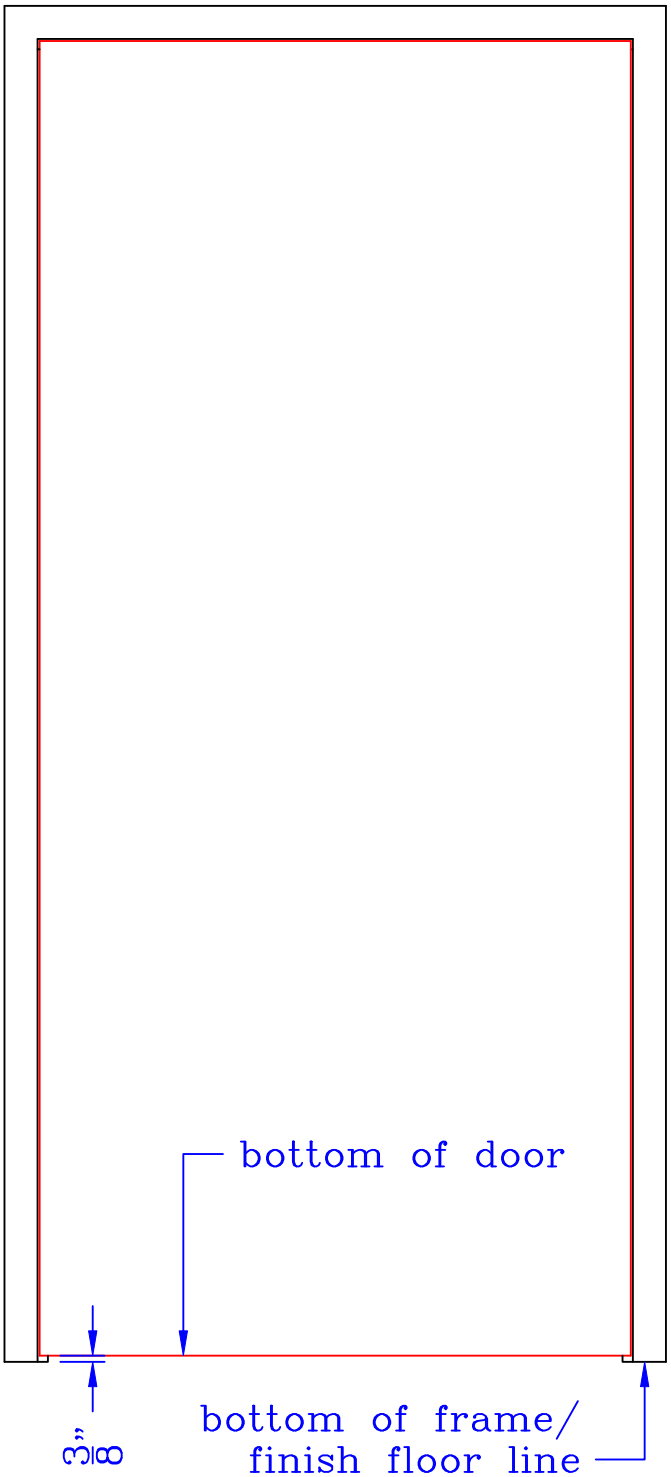
34UC

5/8" undercut



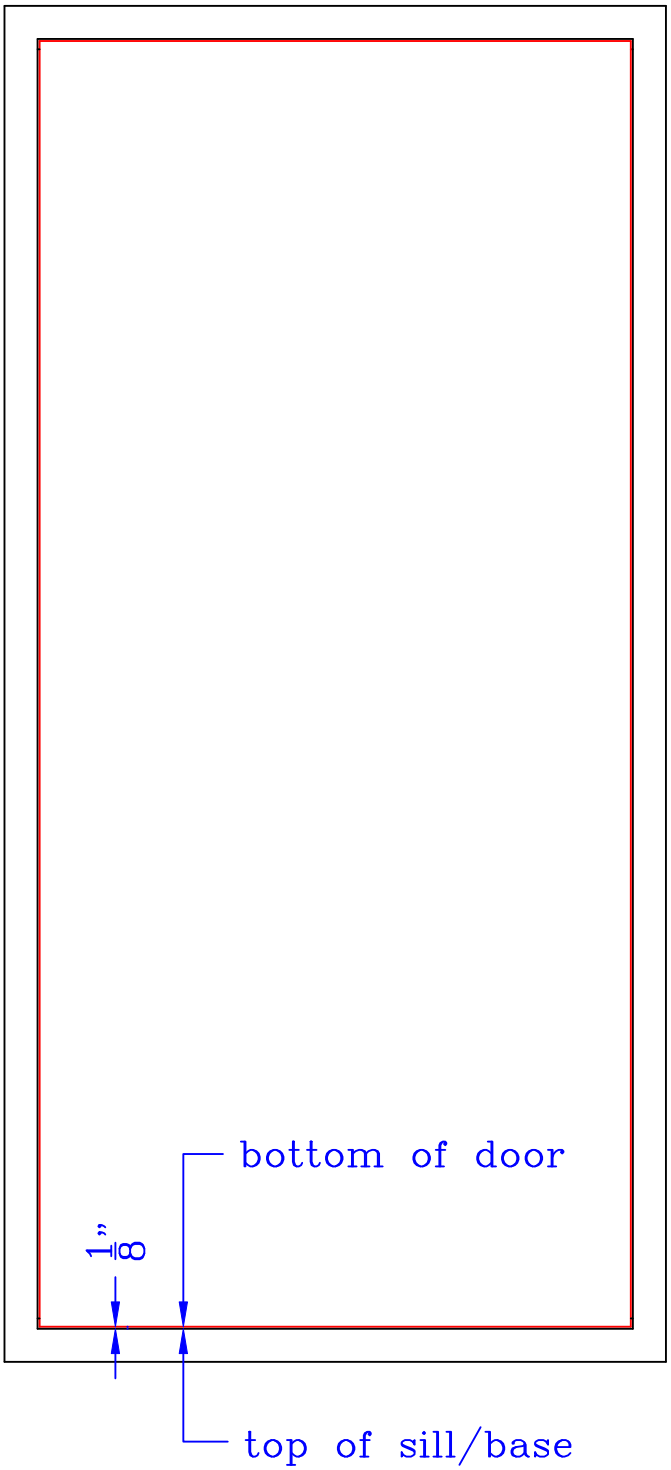
58UC

3/8" undercut

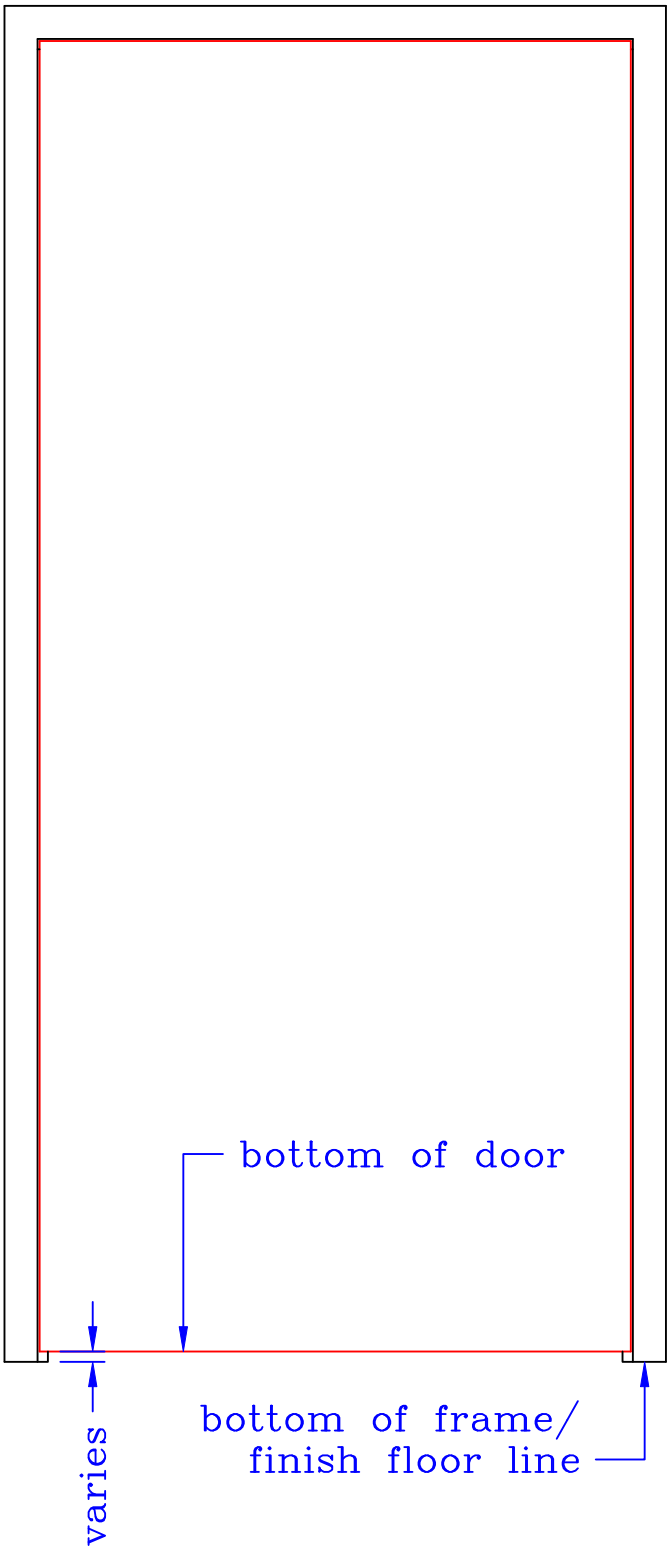


38UC

1/8" undercut



Special undercut

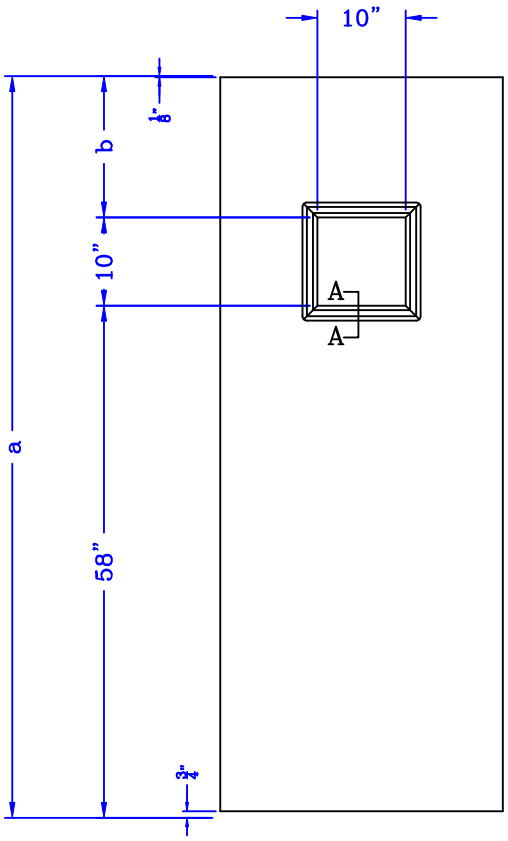


10" x 10" exposed glass

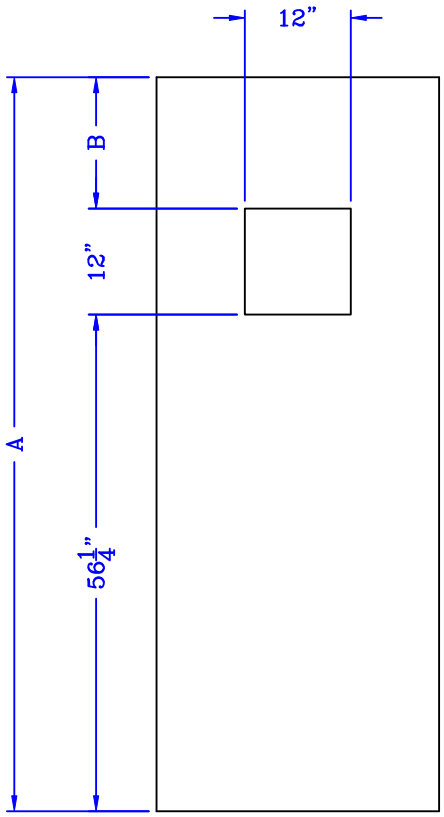
Actual glass size is 1" larger than exposed glass

This lite DOES NOT meet ADA standards

EXPOSED GLASS



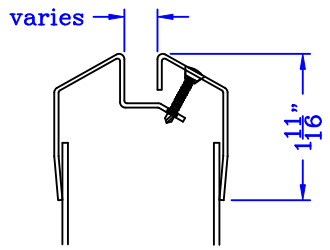
CUT OUT



Nominal Height	
a	b
6’ 8” (80”)	12”
6’ 10” (82”)	14”
7’ 0” (84”)	16”
7’ 2” (86”)	18”
8’ 0” (96”)	28”

Net Height	
A	B
79 1/8”	10 7/8”
81 1/8”	12 7/8”
83 1/8”	14 7/8”
85 1/8”	16 7/8”
95 1/8”	26 7/8”

For 3/16” to 1” thick glass



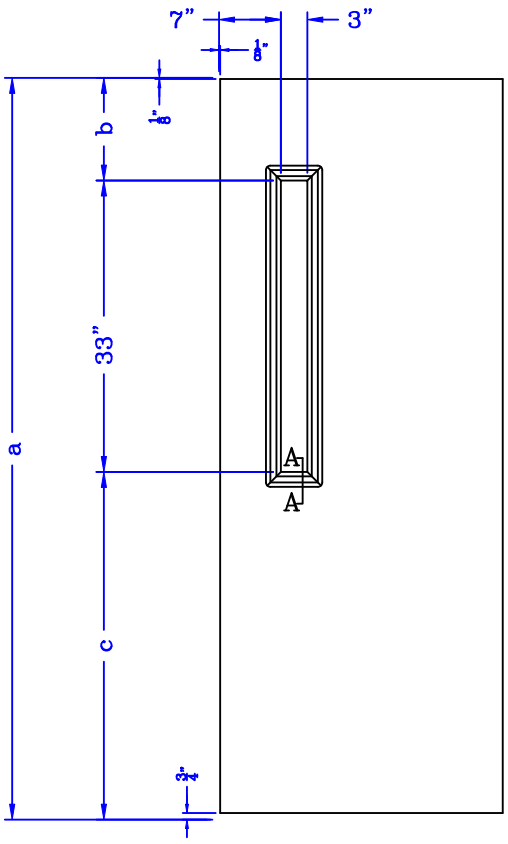
Sandwich kit

SK

3" x 33" exposed glass

Actual glass size is 1" larger than exposed glass

EXPOSED GLASS



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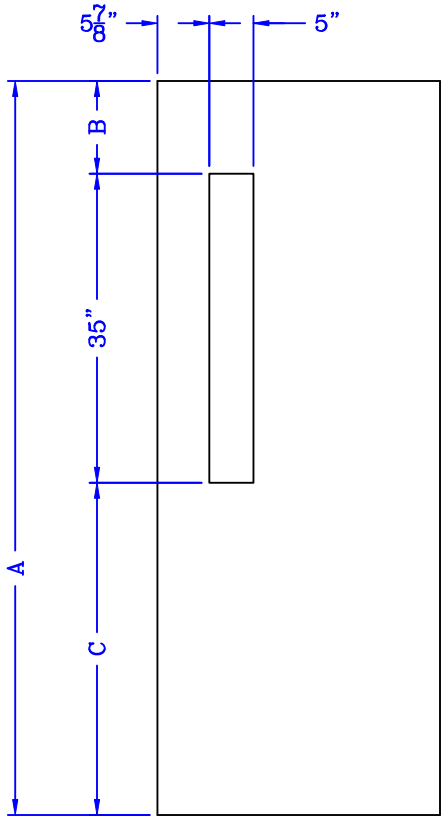
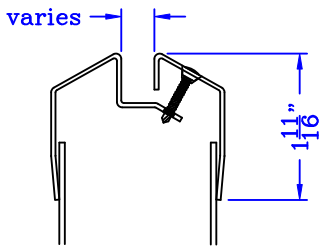


Nominal Height		
a	b	c
6' 8" (80")	8"	39"
6' 10" (82")	9 5/8"	39 3/8"
7' 0" (84")	11 5/8"	39 3/8"
7' 2" (86")	13 5/8"	39 3/8"
8' 0" (96")	23 5/8"	39 3/8"

Net Height		
A	B	C
79 1/8"	6 7/8"	37 1/4"
81 1/8"	8 1/2"	37 5/8"
83 1/8"	10 1/2"	37 5/8"
85 1/8"	12 1/2"	37 5/8"
95 1/8"	22 1/2"	37 5/8"

For 3/16" to 1" thick glass



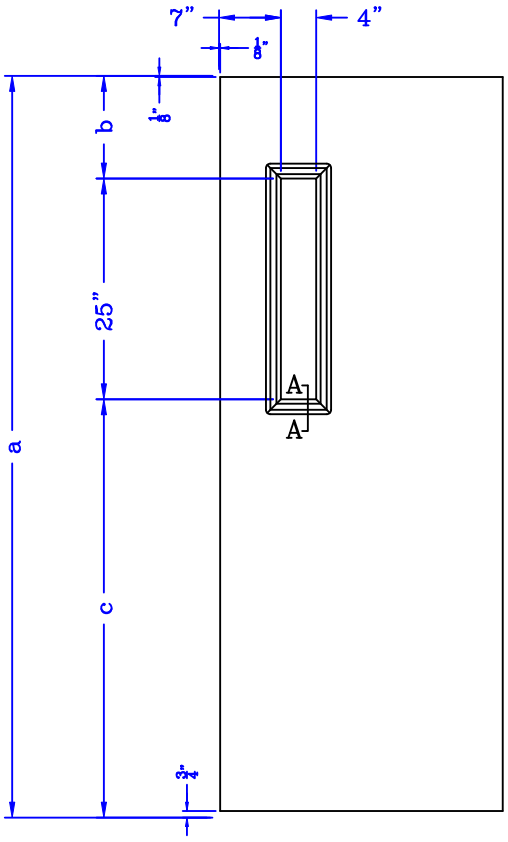
SK

4" x 25" exposed glass

Actual glass size is 1" larger than exposed glass

This lite DOES NOT meet ADA standards

EXPOSED GLASS



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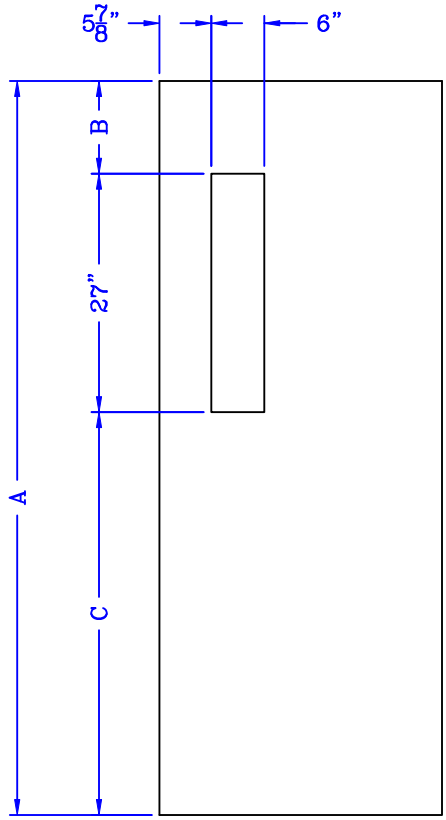
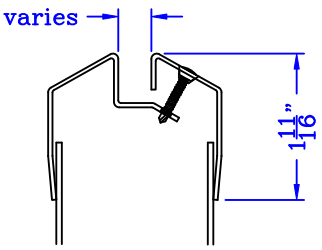


Nominal Height		
a	b	c
6' 8" (80")	8"	47"
6' 10" (82")	9 5/8"	47 3/8"
7' 0" (84")	11 5/8"	47 3/8"
7' 2" (86")	13 5/8"	47 3/8"
8' 0" (96")	23 5/8"	47 3/8"

Net Height		
A	B	C
79 1/8"	6 7/8"	45 1/4"
81 1/8"	8 1/2"	45 5/8"
83 1/8"	10 1/2"	45 5/8"
85 1/8"	12 1/2"	45 5/8"
95 1/8"	22 1/2"	45 5/8"

For 3/16" to 1" thick glass



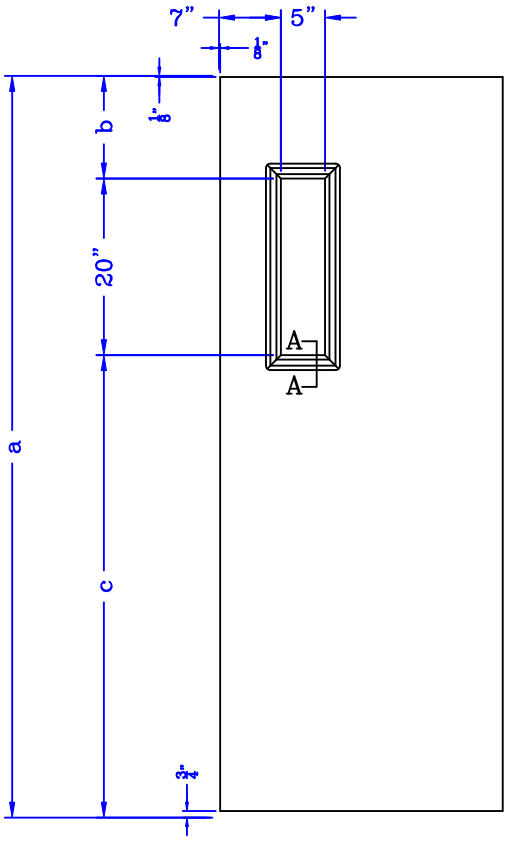
SK

5" x 20" exposed glass

Actual glass size is 1" larger than exposed glass

This lite DOES NOT meet ADA standards

EXPOSED GLASS



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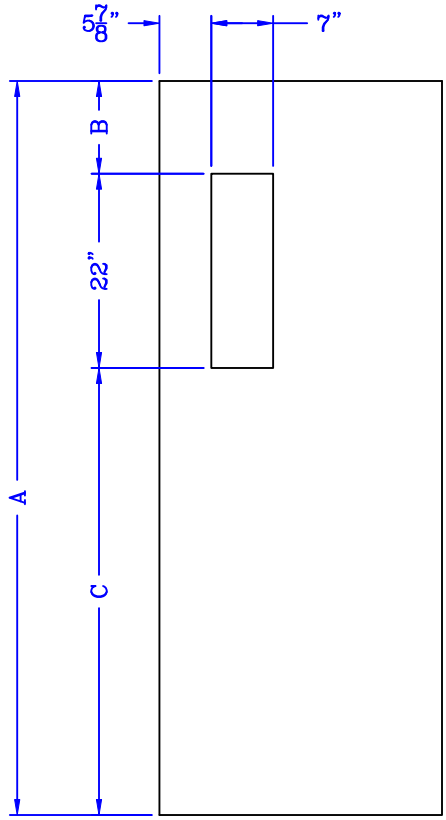
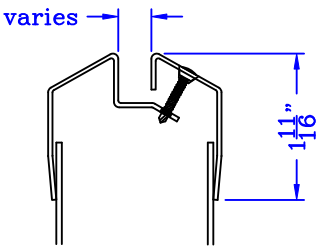


Nominal Height		
a	b	c
6' 8" (80")	8"	52"
6' 10" (82")	9 5/8"	52 3/8"
7' 0" (84")	11 5/8"	52 3/8"
7' 2" (86")	13 5/8"	52 3/8"
8' 0" (96")	23 5/8"	52 3/8"

Net Height		
A	B	C
79 1/8"	6 7/8"	50 1/4"
81 1/8"	8 1/2"	50 5/8"
83 1/8"	10 1/2"	50 5/8"
85 1/8"	12 1/2"	50 5/8"
95 1/8"	22 1/2"	50 5/8"

For 3/16" to 1" thick glass

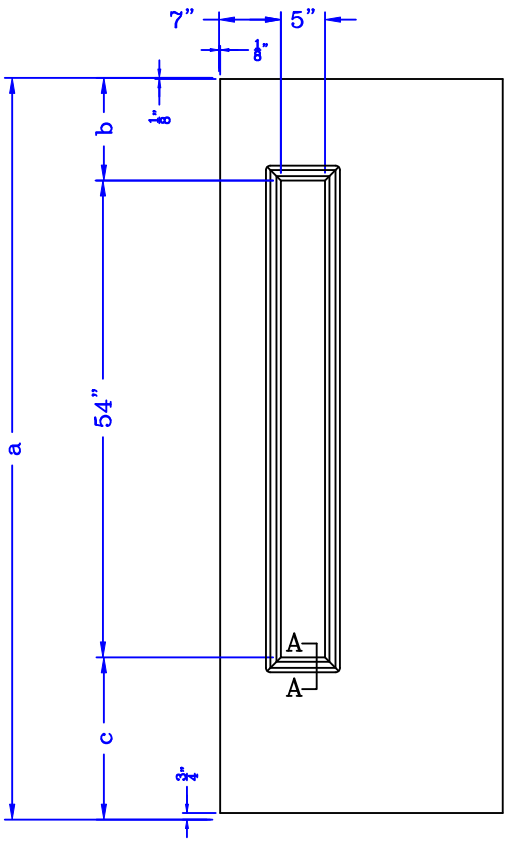


SK

5" x 54" exposed glass

Actual glass size is 1" larger than exposed glass

EXPOSED GLASS



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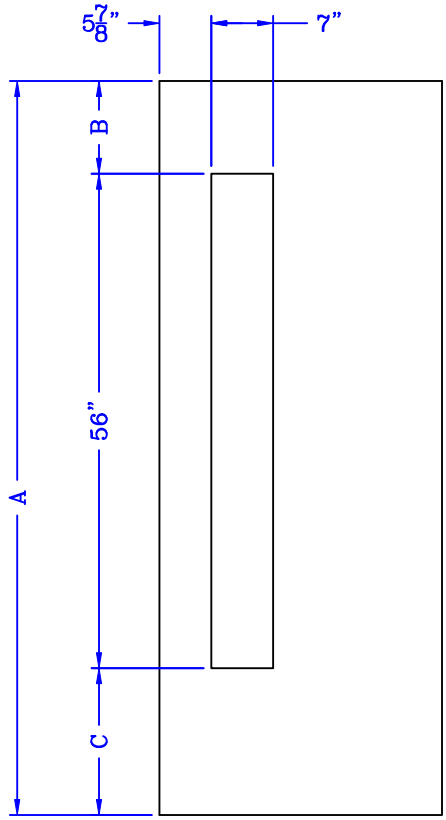
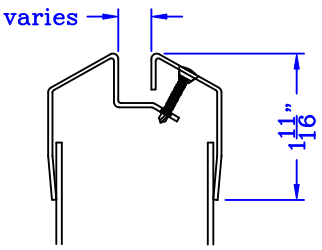


Nominal Height		
a	b	c
6' 8" (80")	8"	18"
6' 10" (82")	9 5/8"	18 3/8"
7' 0" (84")	11 5/8"	18 3/8"
7' 2" (86")	13 5/8"	18 3/8"
8' 0" (96")	23 5/8"	18 3/8"

Net Height		
A	B	C
79 1/8"	6 7/8"	16 1/4"
81 1/8"	8 1/2"	16 5/8"
83 1/8"	10 1/2"	16 5/8"
85 1/8"	12 1/2"	16 5/8"
95 1/8"	22 1/2"	16 5/8"

For 3/16" to 1" thick glass

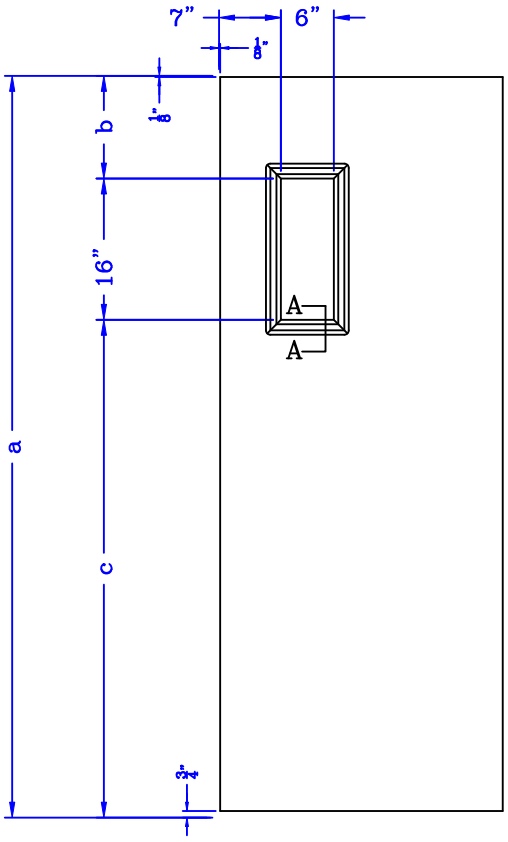


6" x 16" exposed glass

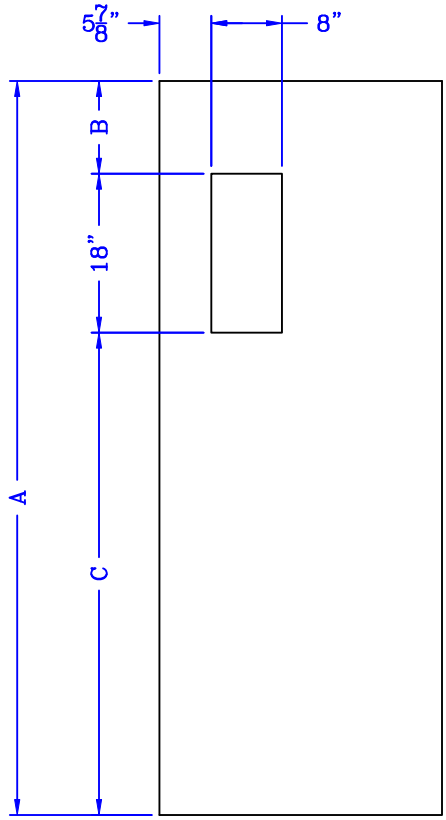
Actual glass size is 1" larger than exposed glass

This lie DOES NOT meet ADA standards

EXPOSED GLASS



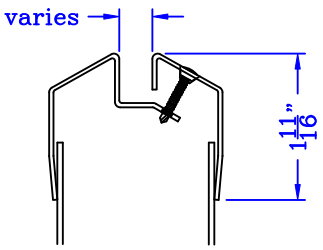
CUT OUT



Nominal Height		
a	b	c
6' 8" (80")	8"	56"
6' 10" (82")	9 5/8"	56 3/8"
7' 0" (84")	11 5/8"	56 3/8"
7' 2" (86")	13 5/8"	56 3/8"
8' 0" (96")	23 5/8"	56 3/8"

Net Height		
A	B	C
79 1/8"	6 7/8"	54 1/4"
81 1/8"	8 1/2"	54 5/8"
83 1/8"	10 1/2"	54 5/8"
85 1/8"	12 1/2"	54 5/8"
95 1/8"	22 1/2"	54 5/8"

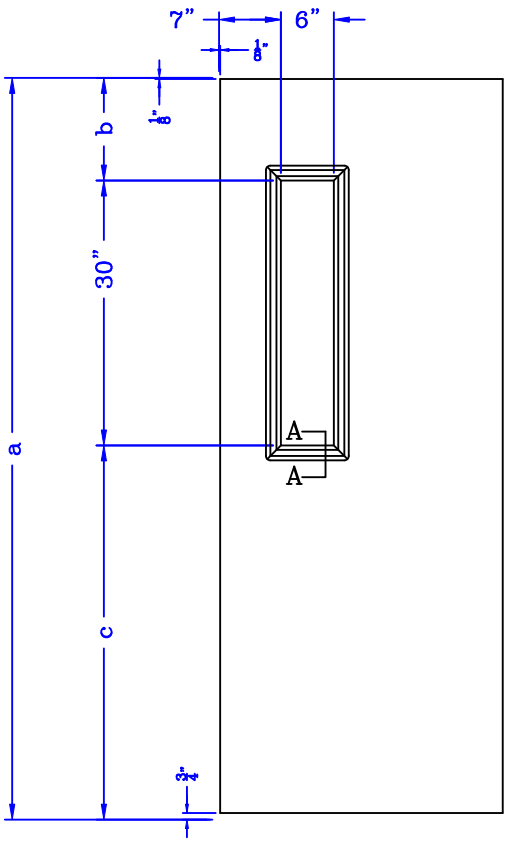
For 3/16" to 1" thick glass



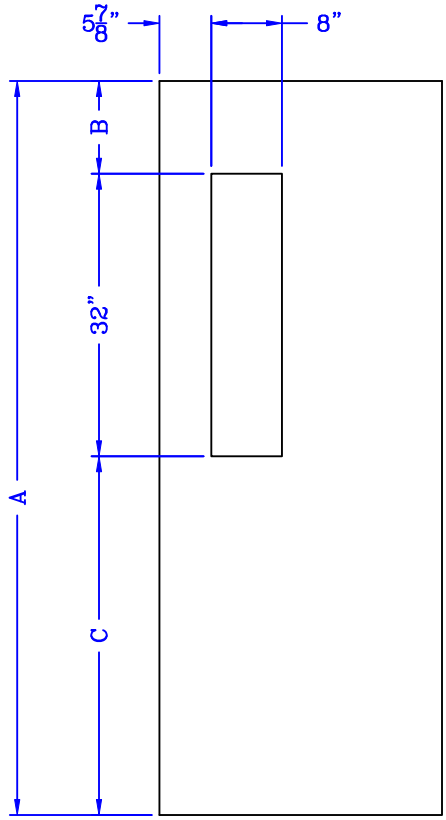
6" x 30" exposed glass

Actual glass size is 1" larger than exposed glass

EXPOSED GLASS



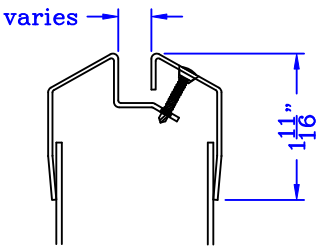
CUT OUT



Nominal Height		
a	b	c
6' 8" (80")	8"	42"
6' 10" (82")	9 5/8"	42 3/8"
7' 0" (84")	11 5/8"	42 3/8"
7' 2" (86")	13 5/8"	42 3/8"
8' 0" (96")	23 5/8"	42 3/8"

Net Height		
A	B	C
79 1/8"	6 7/8"	40 1/4"
81 1/8"	8 1/2"	40 5/8"
83 1/8"	10 1/2"	40 5/8"
85 1/8"	12 1/2"	40 5/8"
95 1/8"	22 1/2"	40 5/8"

For 3/16" to 1" thick glass

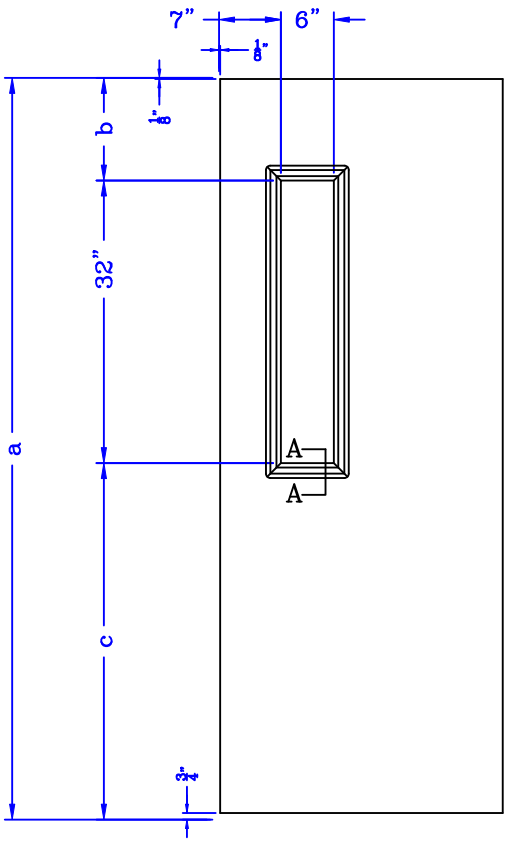


SK

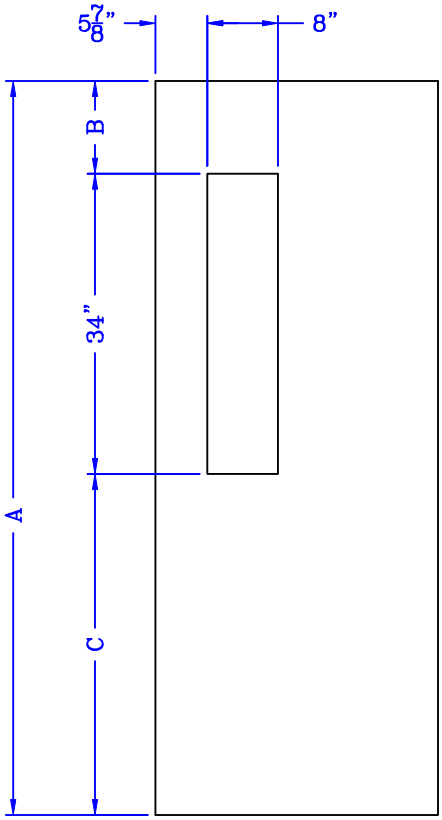
6" x 32" exposed glass

Actual glass size is 1" larger than exposed glass

EXPOSED GLASS



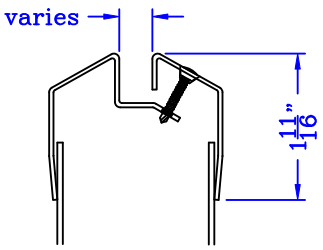
CUT OUT



Nominal Height		
a	b	c
6' 8" (80")	8"	40"
6' 10" (82")	9 5/8"	40 3/8"
7' 0" (84")	11 5/8"	40 3/8"
7' 2" (86")	13 5/8"	40 3/8"
8' 0" (96")	23 5/8"	40 3/8"

Net Height		
A	B	C
79 1/8"	6 7/8"	38 1/4"
81 1/8"	8 1/2"	38 5/8"
83 1/8"	10 1/2"	38 5/8"
85 1/8"	12 1/2"	38 5/8"
95 1/8"	22 1/2"	38 5/8"

For 3/16" to 1" thick glass

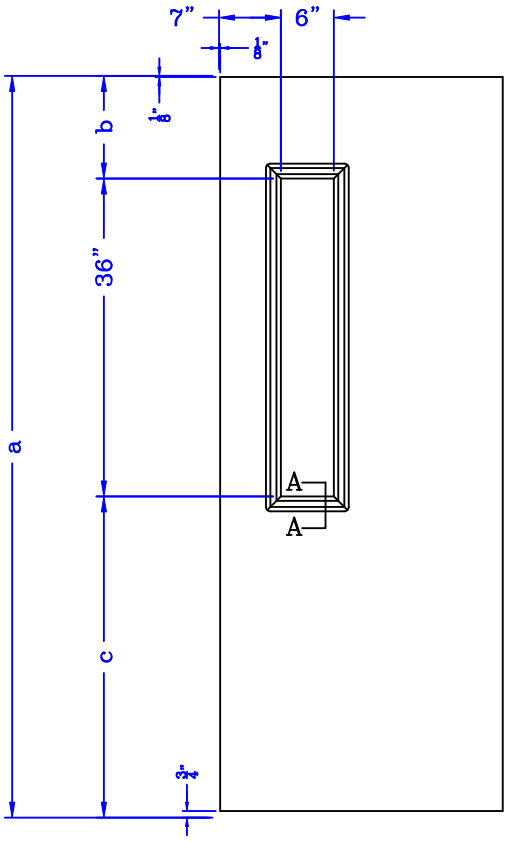


SK

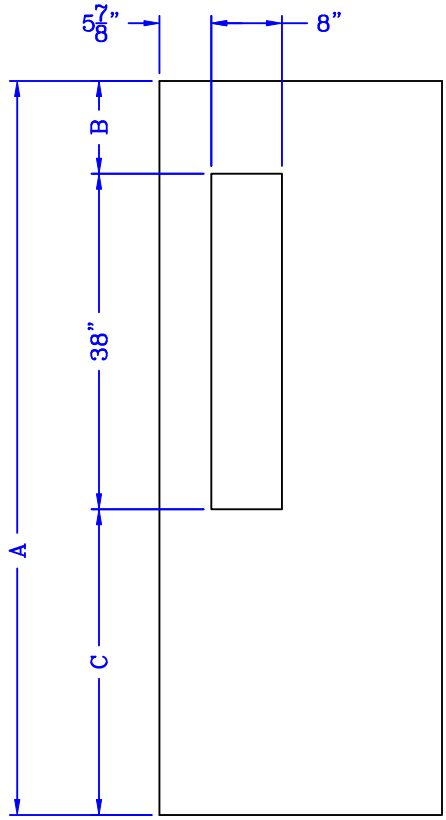
6" x 36" exposed glass

Actual glass size is 1" larger than exposed glass

EXPOSED GLASS



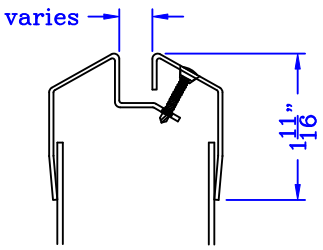
CUT OUT



Nominal Height		
a	b	c
6' 8" (80")	8"	36"
6' 10" (82")	9 5/8"	36 3/8"
7' 0" (84")	11 5/8"	36 3/8"
7' 2" (86")	13 5/8"	36 3/8"
8' 0" (96")	23 5/8"	36 3/8"

Net Height		
A	B	C
79 1/8"	6 7/8"	34 1/4"
81 1/8"	8 1/2"	34 5/8"
83 1/8"	10 1/2"	34 5/8"
85 1/8"	12 1/2"	34 5/8"
95 1/8"	22 1/2"	34 5/8"

For 3/16" to 1" thick glass



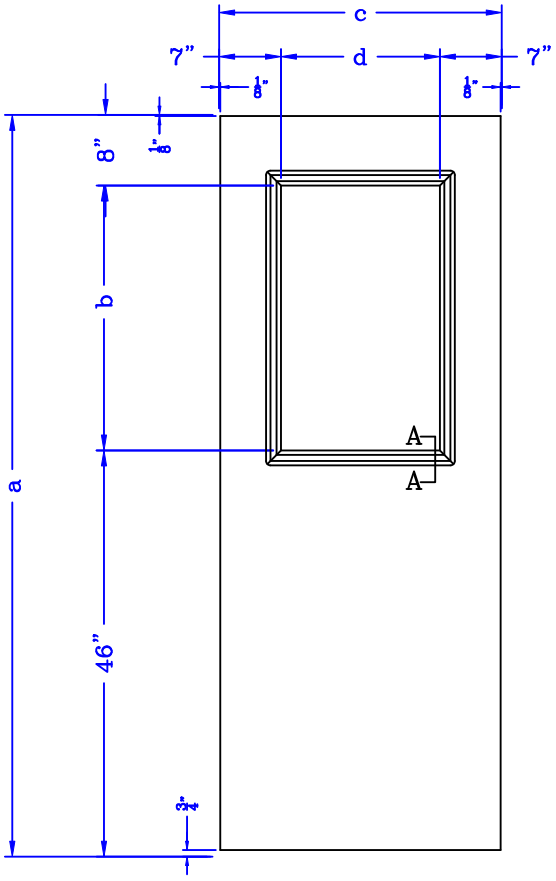
SK

Half glass

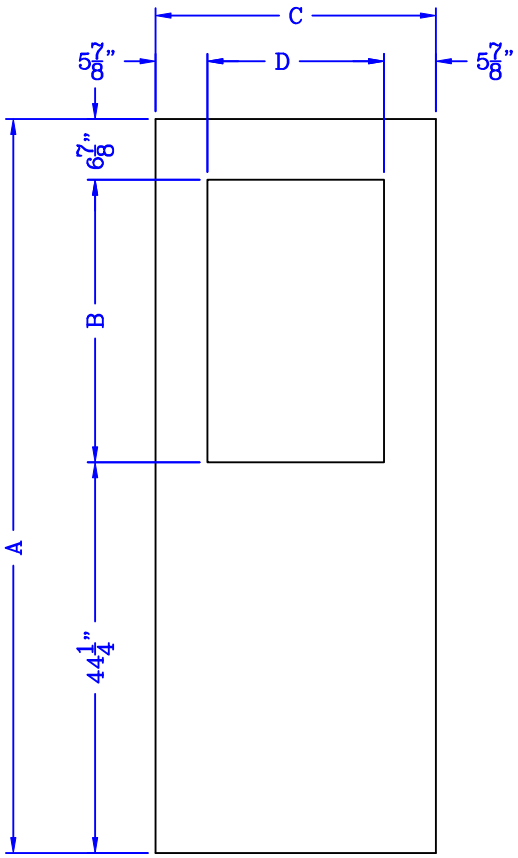
Actual glass size is 1" larger than exposed glass

This lite DOES NOT meet ADA standards

EXPOSED GLASS
per minimum stiles and rails



CUT OUT

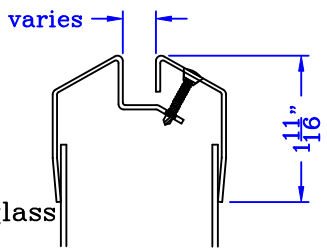


Nominal Width	
c	d
2' 6" (30")	16"
2' 10" (34")	20"
3' 0" (36")	22"
3' 6" (42")	28"
4' 0" (48")	34"

Net Width	
C	D
29 3/4"	18"
33 3/4"	22"
35 3/4"	24"
41 3/4"	30"
47 3/4"	36"

Nominal Height	
a	b
6' 8" (80")	26"
6' 10" (82")	28"
7' 0" (84")	30"
7' 2" (86")	32"
8' 0" (96")	42"

Net Height	
A	B
79 1/8"	28"
81 1/8"	30"
83 1/8"	32"
85 1/8"	34"
95 1/8"	44"



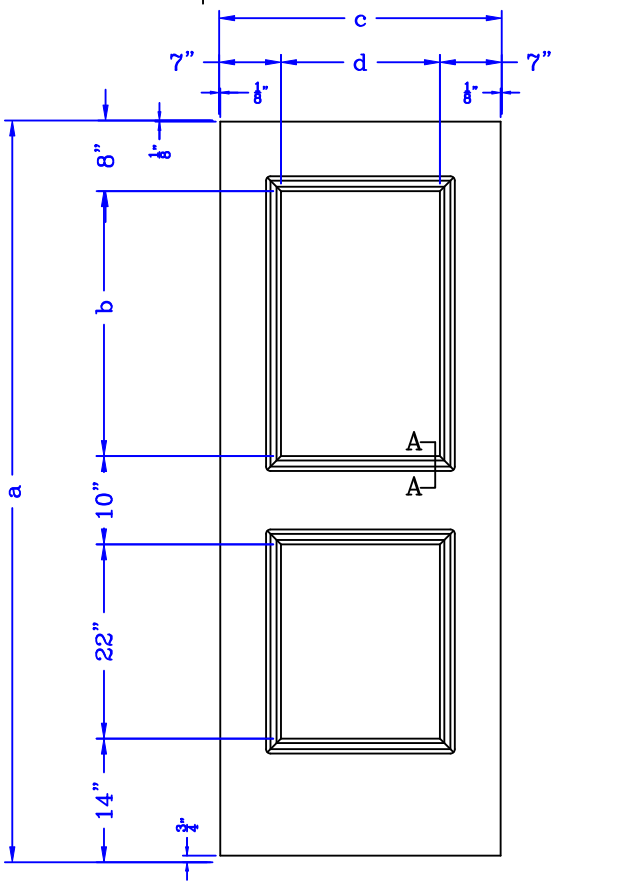
For 3/16" to 1" thick glass

SK

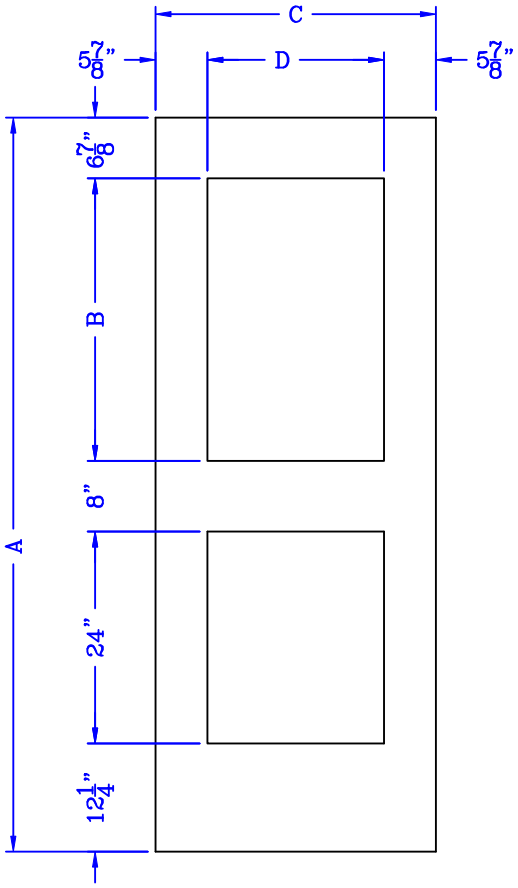
Two half glass

Actual glass size is 1" larger than exposed glass

EXPOSED GLASS
per minimum stiles and rails



CUT OUT

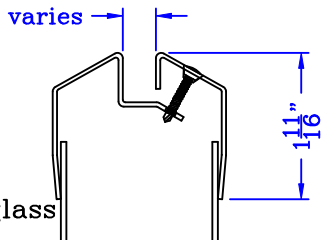


Nominal Width	
c	d
2' 6" (30")	16"
2' 10" (34")	20"
3' 0" (36")	22"
3' 6" (42")	28"
4' 0" (48")	34"

Net Width	
C	D
29 3/4"	18"
33 3/4"	22"
35 3/4"	24"
41 3/4"	30"
47 3/4"	36"

Nominal Height	
a	b
6' 8" (80")	26"
6' 10" (82")	28"
7' 0" (84")	30"
7' 2" (86")	32"
8' 0" (96")	42"

Net Height	
A	B
79 1/8"	28"
81 1/8"	30"
83 1/8"	32"
85 1/8"	34"
95 1/8"	44"



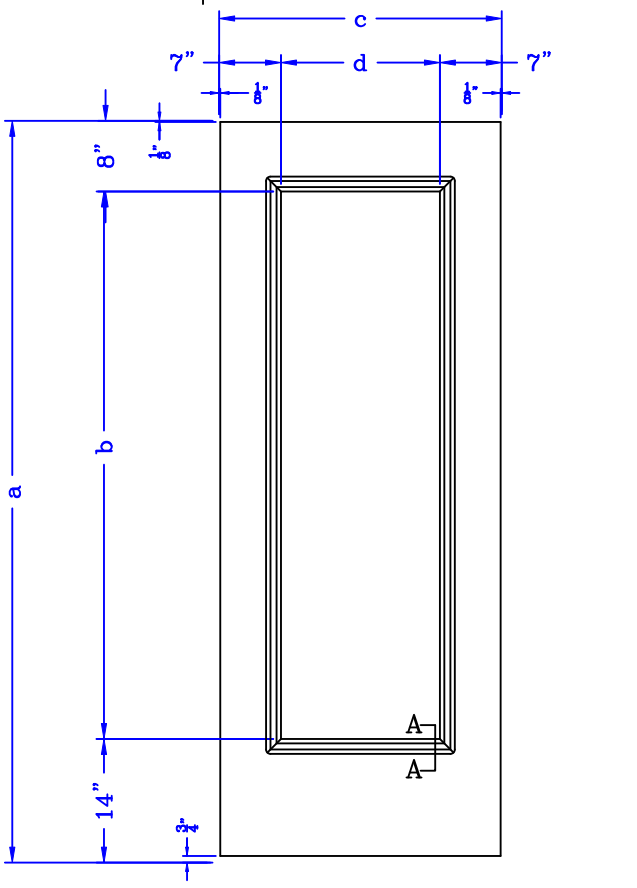
For 3/16" to 1" thick glass

SK

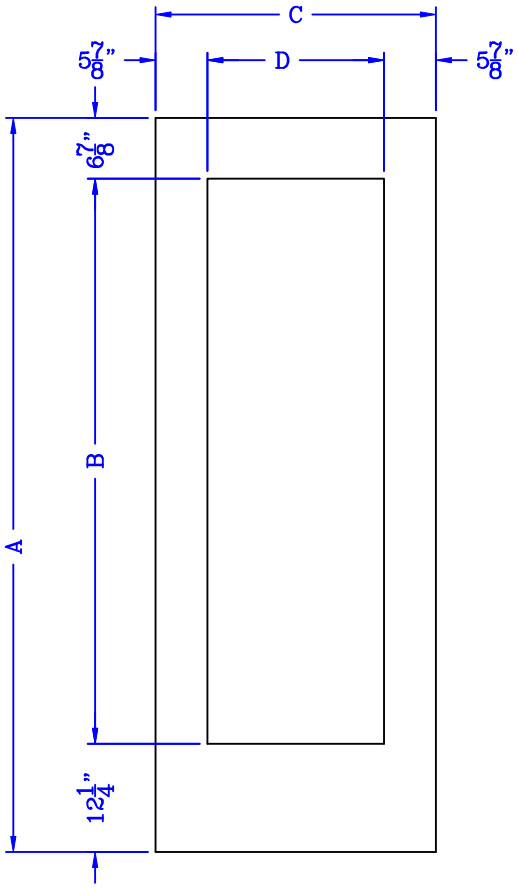
Full glass

Actual glass size is 1" larger than exposed glass

EXPOSED GLASS
per minimum stiles and rails



CUT OUT

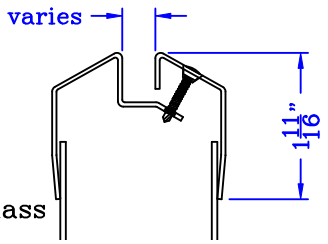


Nominal Width	
c	d
2' 6" (30")	16"
2' 10" (34")	20"
3' 0" (36")	22"
3' 6" (42")	28"
4' 0" (48")	34"

Net Width	
C	D
29 3/4"	18"
33 3/4"	22"
35 3/4"	24"
41 3/4"	30"
47 3/4"	36"

Nominal Height	
a	b
6' 8" (80")	58"
6' 10" (82")	60"
7' 0" (84")	62"
7' 2" (86")	64"
8' 0" (96")	74"

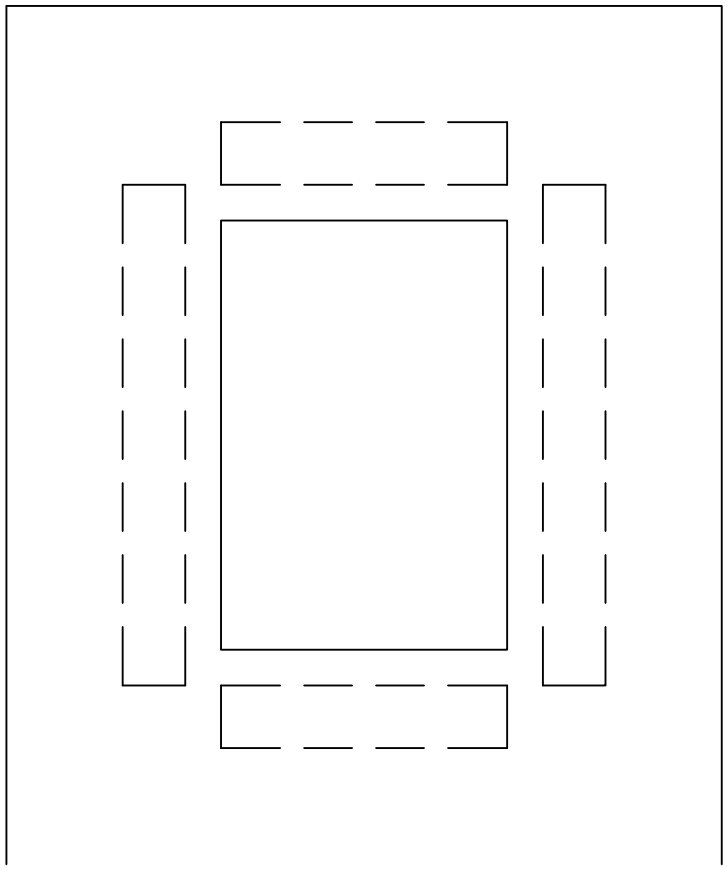
Net Height	
A	B
79 1/8"	60"
81 1/8"	62"
83 1/8"	64"
85 1/8"	66"
95 1/8"	76"

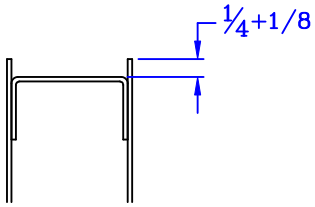


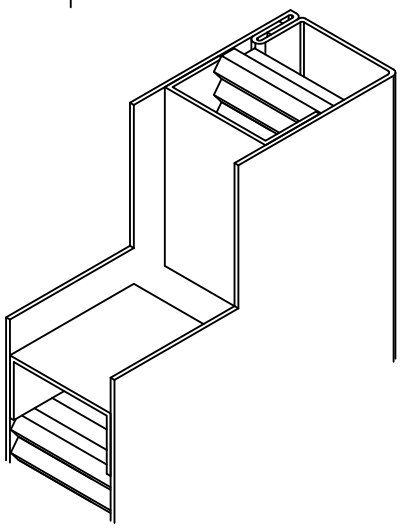
For 3/16" to 1" thick glass

Including channel

Mandatory for some lite sizes and/or options

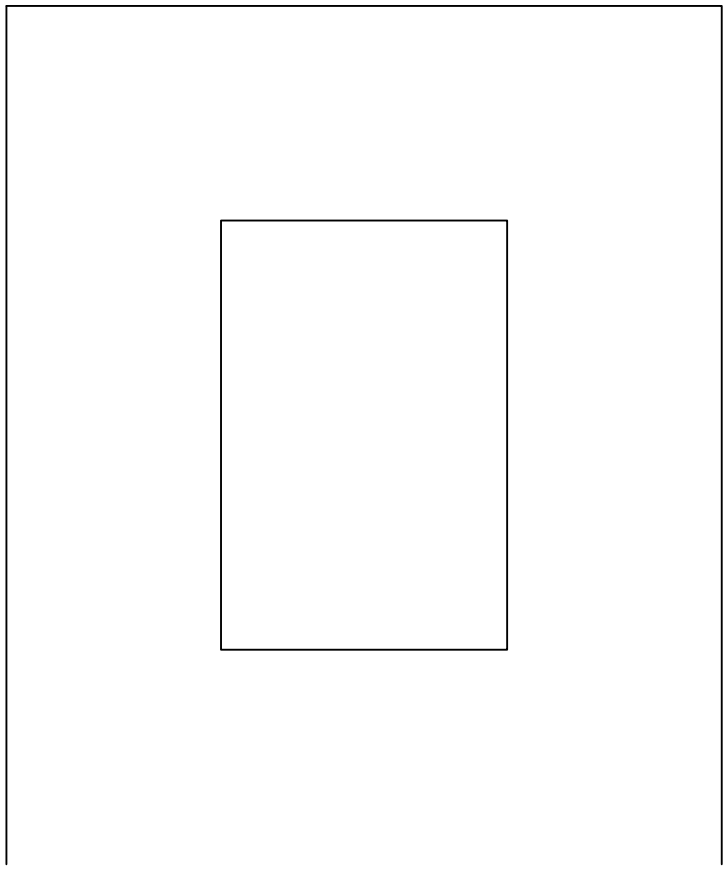


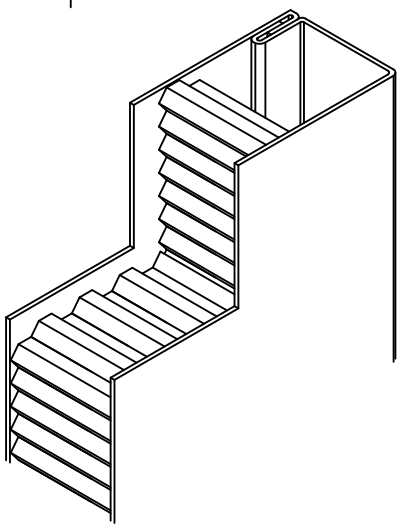




Without channel

Not available for some lite sizes and/or options





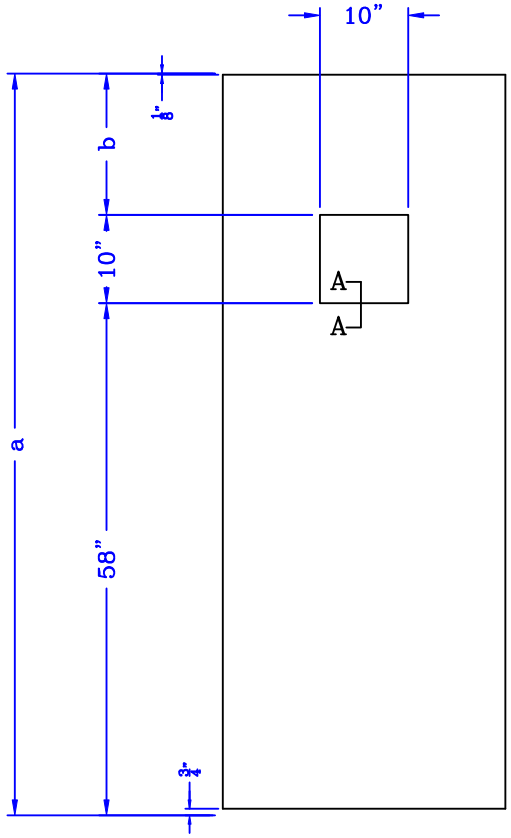
NOCH

10" x 10" exposed glass

Actual glass size is 1" larger than exposed glass

This lite DOES NOT meet ADA standards

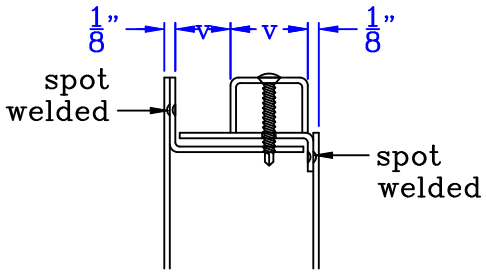
EXPOSED GLASS



Outside view

Nominal Height	
a	b
6' 8" (80")	12"
6' 10" (82")	14"
7' 0" (84")	16"
7' 2" (86")	18"
8' 0" (96")	28"

For 3/16" to 1" thick glass

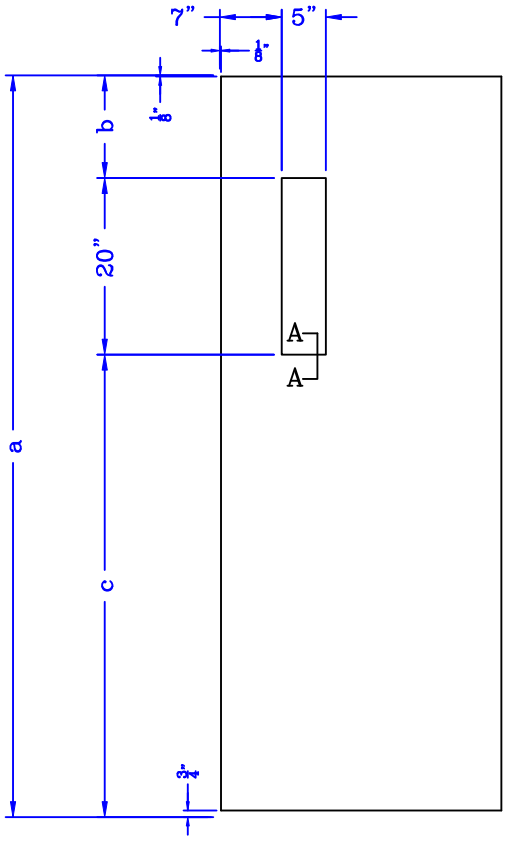


5" x 20" exposed glass

Actual glass size is 1" larger than exposed glass

This lite DOES NOT meet ADA standards

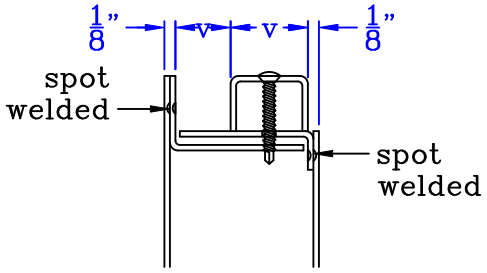
EXPOSED GLASS



Outside view

Nominal Height		
a	b	c
6' 8" (80")	8"	52"
6' 10" (82")	9 5/8"	52 3/8"
7' 0" (84")	11 5/8"	52 3/8"
7' 2" (86")	13 5/8"	52 3/8"
8' 0" (96")	23 5/8"	52 3/8"

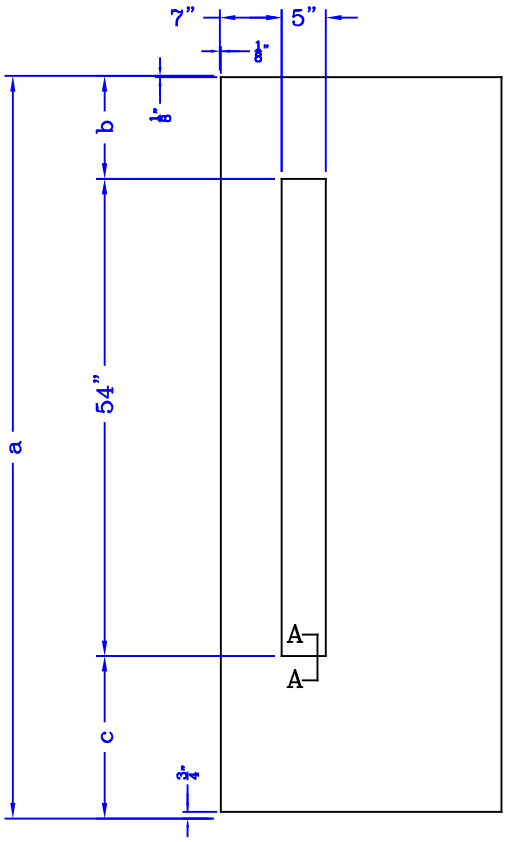
For 3/16" to 1" thick glass



5" x 54" exposed glass

Actual glass size is 1" larger than exposed glass

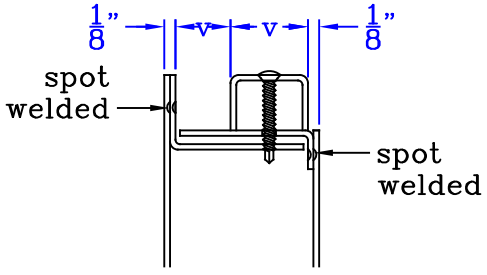
EXPOSED GLASS



Outside view

Nominal Height		
a	b	c
6' 8" (80")	8"	18"
6' 10" (82")	9 5/8"	18 3/8"
7' 0" (84")	11 5/8"	18 3/8"
7' 2" (86")	13 5/8"	18 3/8"
8' 0" (96")	23 5/8"	18 3/8"

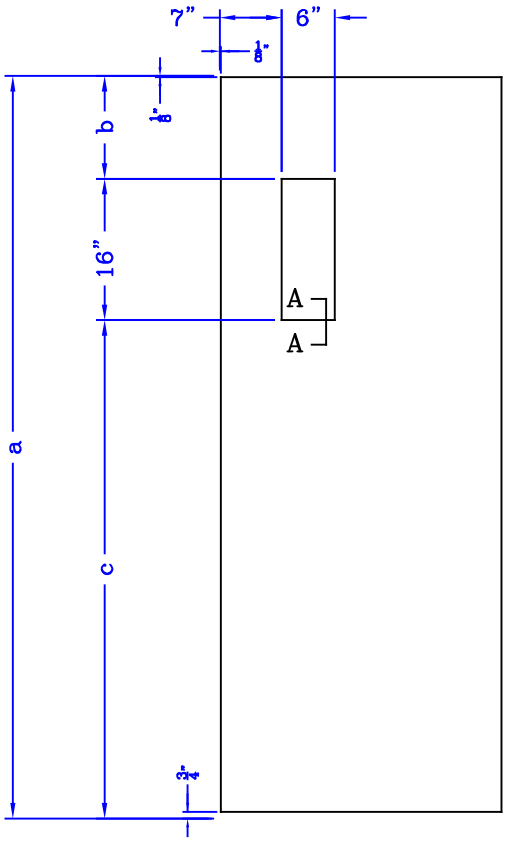
For 3/16" to 1" thick glass



6" x 16" exposed glass

Actual glass size is 1" larger than exposed glass

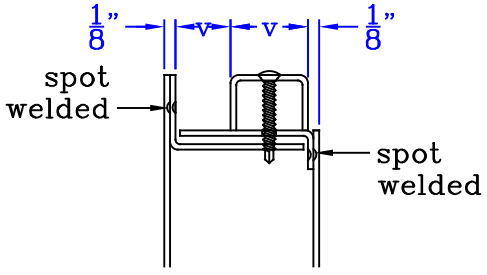
EXPOSED GLASS



Outside view

Nominal Height		
a	b	c
6' 8" (80")	8"	56"
6' 10" (82")	9 5/8"	56 3/8"
7' 0" (84")	11 5/8"	56 3/8"
7' 2" (86")	13 5/8"	56 3/8"
8' 0" (96")	23 5/8"	56 3/8"

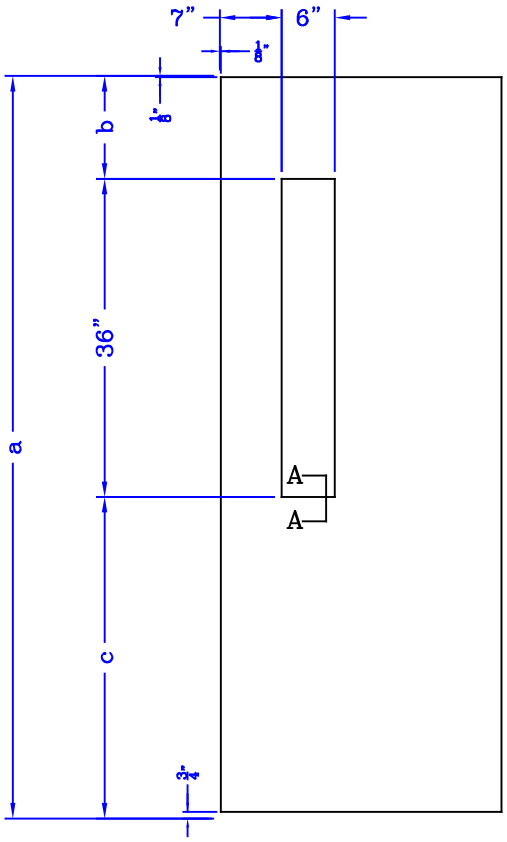
For 3/16" to 1" thick glass



6" x 36" exposed glass

Actual glass size is 1" larger than exposed glass

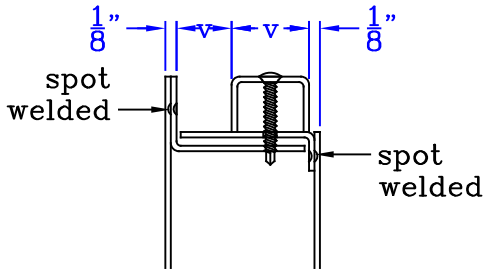
EXPOSED GLASS



Outside view

Nominal Height		
a	b	c
6' 8" (80")	8"	36"
6' 10" (82")	9 5/8"	36 3/8"
7' 0" (84")	11 5/8"	36 3/8"
7' 2" (86")	13 5/8"	36 3/8"
8' 0" (96")	23 5/8"	36 3/8"

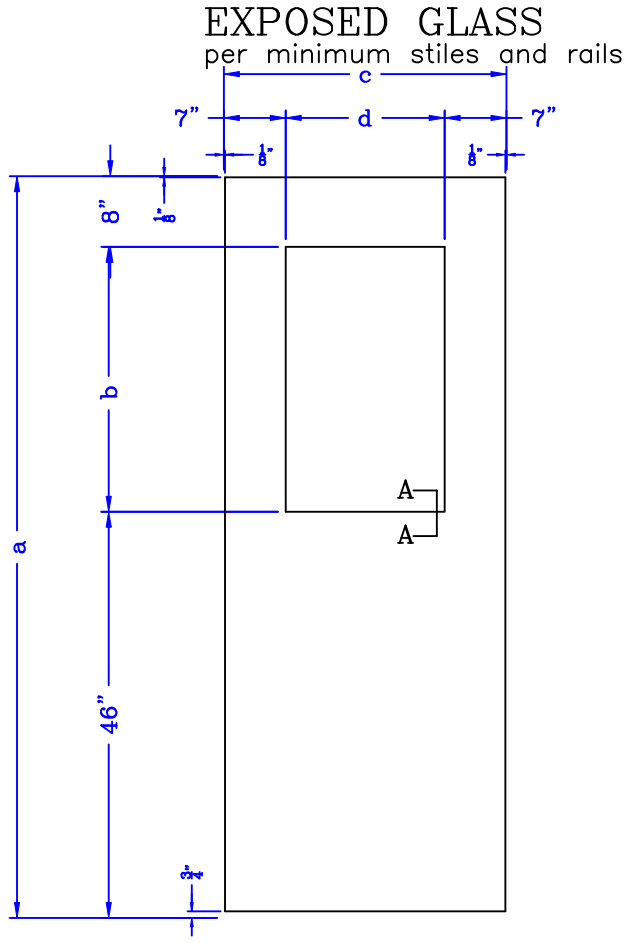
For 3/16" to 1" thick glass



Half glass

Actual glass size is 1" larger than exposed glass

This lite DOES NOT meet ADA standards

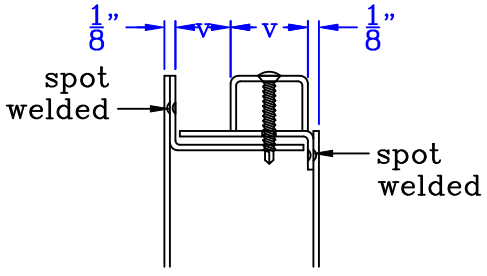


Outside view

Nominal Width	
c	d
2' 6" (30")	16"
2' 10" (34")	20"
3' 0" (36")	22"
3' 6" (42")	28"
4' 0" (48")	34"

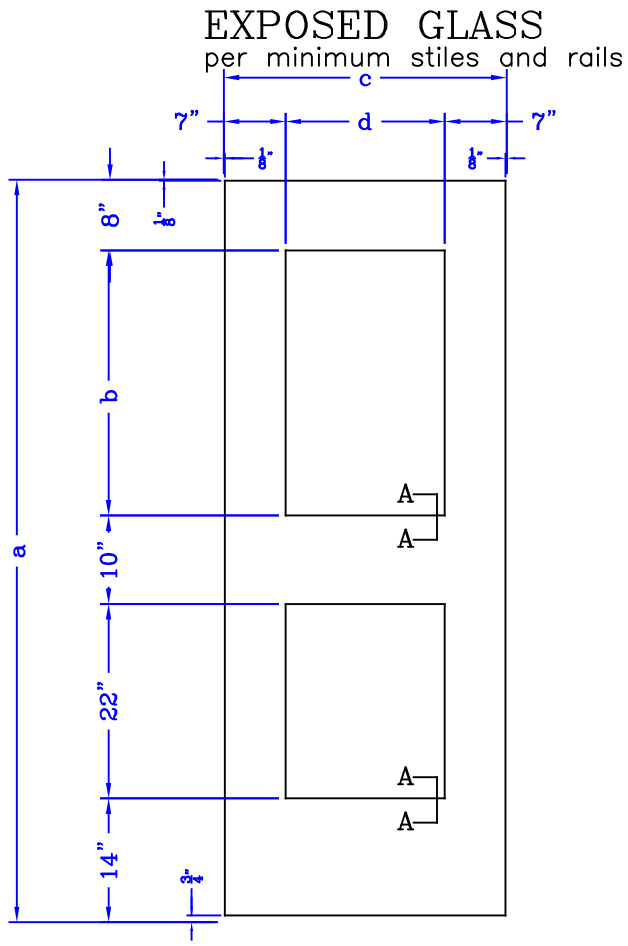
Nominal Height	
a	b
6' 8" (80")	26"
6' 10" (82")	28"
7' 0" (84")	30"
7' 2" (86")	32"
8' 0" (96")	42"

For 3/16" to 1" thick glass



Two half glass

Actual glass size is 1" larger than exposed glass

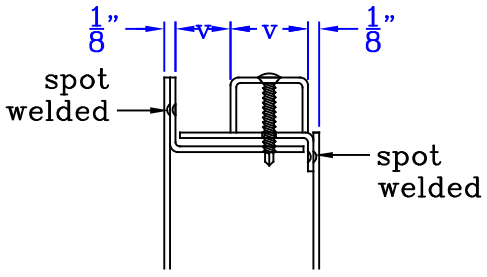


Outside view

Nominal Width	
c	d
2' 6" (30")	16"
2' 10" (34")	20"
3' 0" (36")	22"
3' 6" (42")	28"
4' 0" (48")	34"

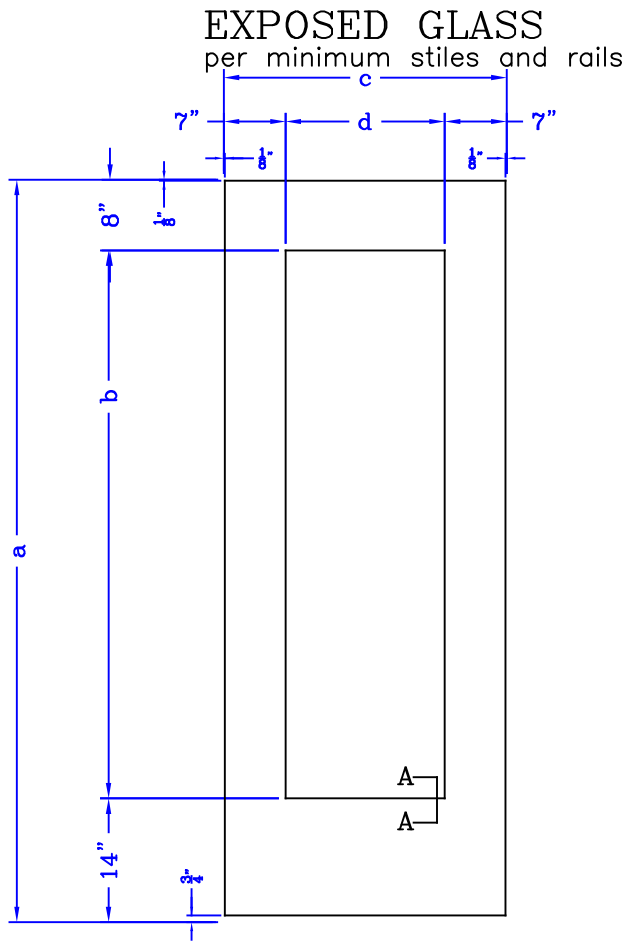
Nominal Height	
a	b
6' 8" (80")	26"
6' 10" (82")	28"
7' 0" (84")	30"
7' 2" (86")	32"
8' 0" (96")	42"

For 3/16" to 1" thick glass



Full glass

Actual glass size is 1" larger than exposed glass

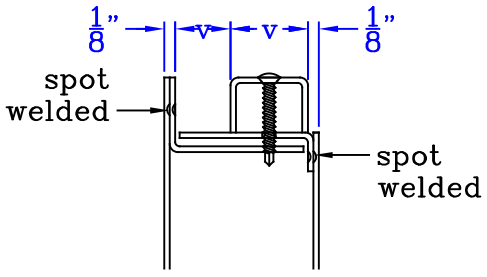


Outside view

Nominal Width	
c	d
2' 6" (30")	16"
2' 10" (34")	20"
3' 0" (36")	22"
3' 6" (42")	28"
4' 0" (48")	34"

Nominal Height	
a	b
6' 8" (80")	58"
6' 10" (82")	60"
7' 0" (84")	62"
7' 2" (86")	64"
8' 0" (96")	74"

For 3/16" to 1" thick glass

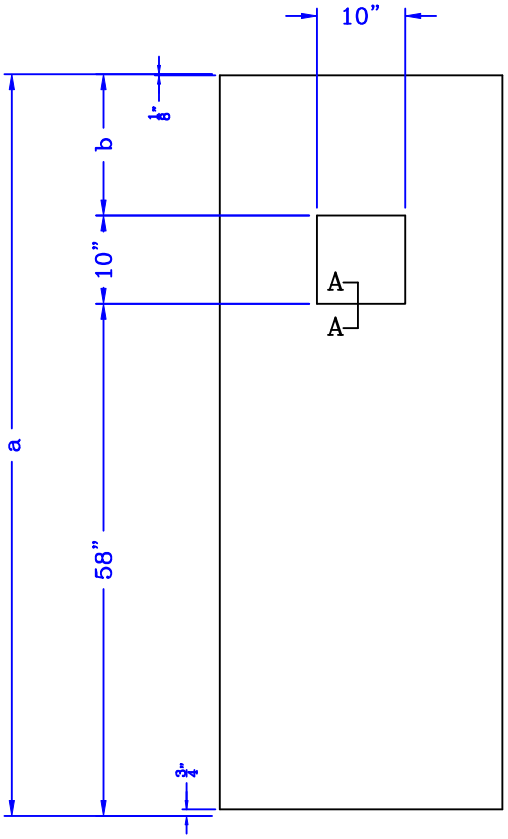


10" x 10" exposed glass

Actual glass size is 1" larger than exposed glass

This lite DOES NOT meet ADA standards

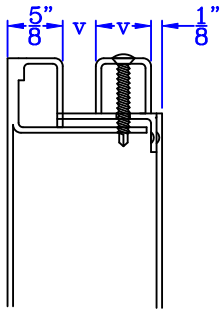
EXPOSED GLASS



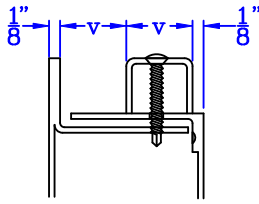
Outside view

Nominal Height	
a	b
6' 8" (80")	12"
6' 10" (82")	14"
7' 0" (84")	16"
7' 2" (86")	18"
8' 0" (96")	28"

*up to 7/16" thick glass, min. 1 3/4" door



*For 1/2" to 1" thick glass



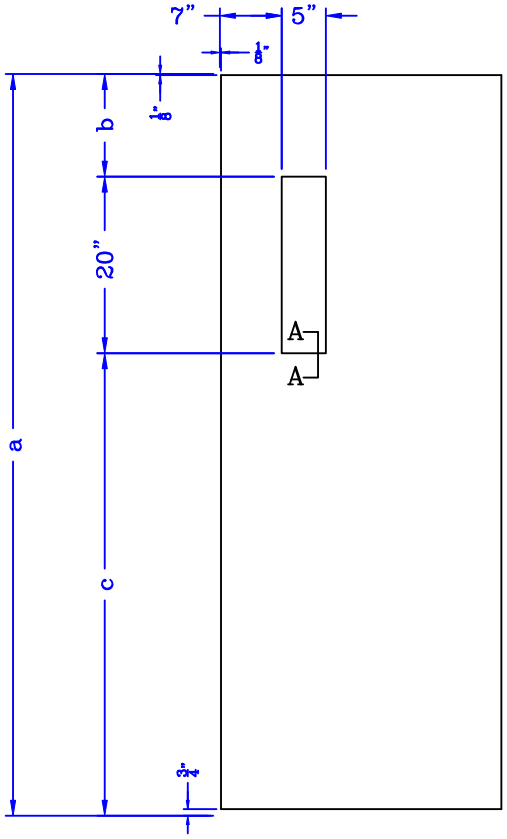
*The manufacturing process of these lite kits (tack welding, putty filled) may results in a show-through after application of a finished paint. These characteristics are inherent in production and are not to be considered as manufacturing defects.
Per ANSI A250.8-2003(R2008), previously ANSI SDI 100-91 Appendix A.

5" x 20" exposed glass

Actual glass size is 1" larger than exposed glass

This lite DOES NOT meet ADA standards

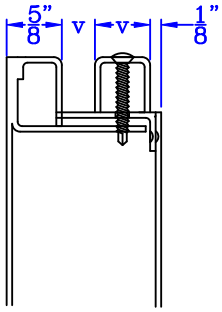
EXPOSED GLASS



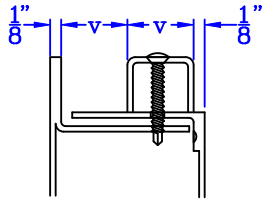
Outside view

Nominal Height		
a	b	c
6' 8" (80")	8"	52"
6' 10" (82")	9 5/8"	52 3/8"
7' 0" (84")	11 5/8"	52 3/8"
7' 2" (86")	13 5/8"	52 3/8"
8' 0" (96")	23 5/8"	52 3/8"

*up to 7/16" thick glass, min. 1 3/4" door



*For 1/2" to 1" thick glass

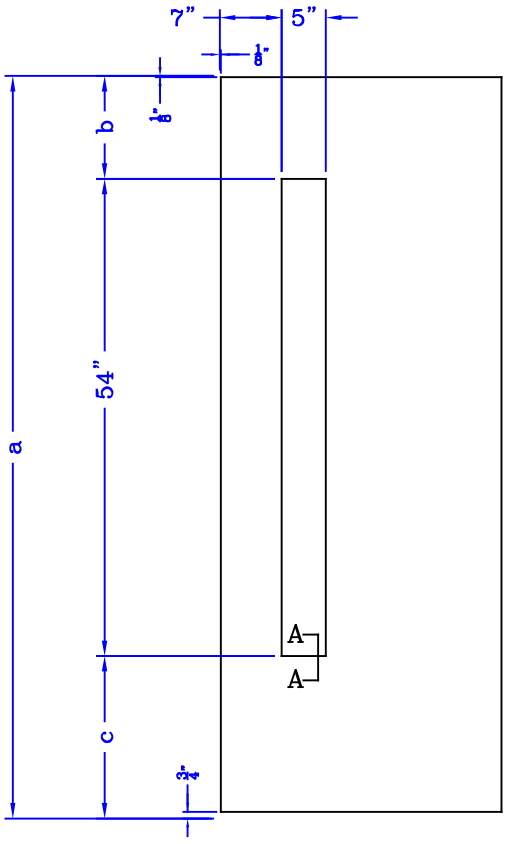


*The manufacturing process of these lite kits (tack welding, putty filled) may results in a show-through after application of a finished paint. These characteristics are inherent in production and are not to be considered as manufacturing defects.
Per ANSI A250.8-2003(R2008), previously ANSI SDI 100-91 Appendix A.

5" x 54" exposed glass

Actual glass size is 1" larger than exposed glass

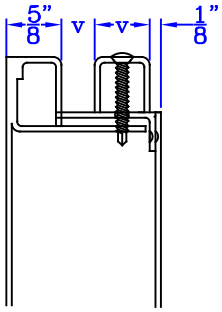
EXPOSED GLASS



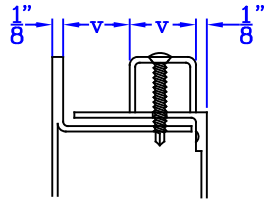
Outside view

Nominal Height		
a	b	c
6' 8" (80")	8"	18"
6' 10" (82")	9 5/8"	18 3/8"
7' 0" (84")	11 5/8"	18 3/8"
7' 2" (86")	13 5/8"	18 3/8"
8' 0" (96")	23 5/8"	18 3/8"

*up to 7/16" thick glass, min. 1 3/4" door



*For 1/2" to 1" thick glass



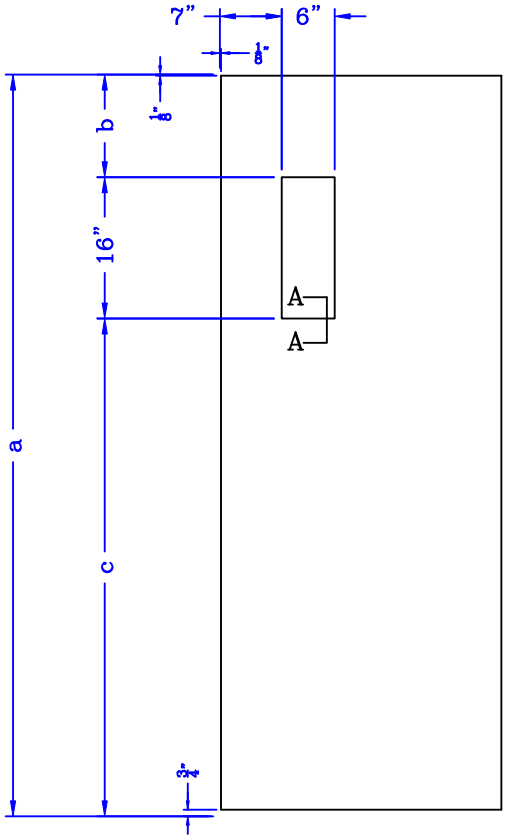
*The manufacturing process of these lite kits (tack welding, putty filled) may results in a show-through after application of a finished paint. These characteristics are inherent in production and are not to be considered as manufacturing defects.
Per ANSI A250.8-2003(R2008), previously ANSI SDI 100-91 Appendix A.

6" x 16" exposed glass

Actual glass size is 1" larger than exposed glass

This lite DOES NOT meet ADA standards

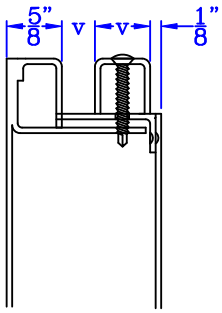
EXPOSED GLASS



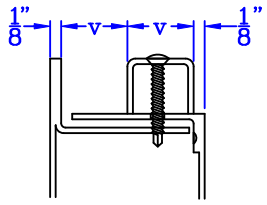
Outside view

Nominal Height		
a	b	c
6' 8" (80")	8"	56"
6' 10" (82")	9 5/8"	56 3/8"
7' 0" (84")	11 5/8"	56 3/8"
7' 2" (86")	13 5/8"	56 3/8"
8' 0" (96")	23 5/8"	56 3/8"

*up to 7/16" thick glass, min. 1 3/4" door



*For 1/2" to 1" thick glass

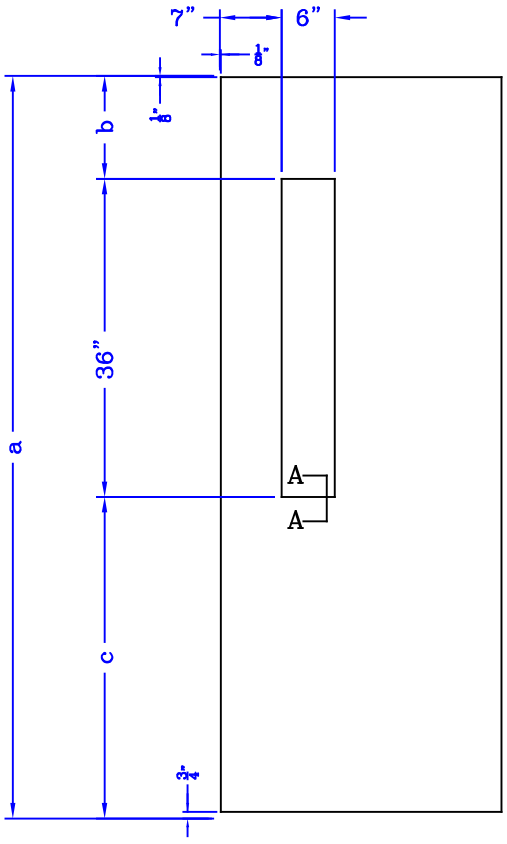


*The manufacturing process of these lite kits (tack welding, putty filled) may results in a show-through after application of a finished paint. These characteristics are inherent in production and are not to be considered as manufacturing defects. Per ANSI A250.8-2003(R2008), previously ANSI SDI 100-91 Appendix A.

6" x 36" exposed glass

Actual glass size is 1" larger than exposed glass

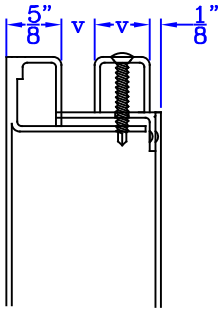
EXPOSED GLASS



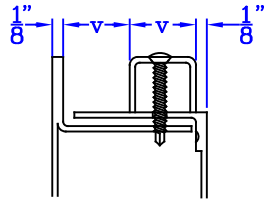
Outside view

Nominal Height		
a	b	c
6' 8" (80")	8"	36"
6' 10" (82")	9 5/8"	36 3/8"
7' 0" (84")	11 5/8"	36 3/8"
7' 2" (86")	13 5/8"	36 3/8"
8' 0" (96")	23 5/8"	36 3/8"

*up to 7/16" thick glass, min. 1 3/4" door



*For 1/2" to 1" thick glass

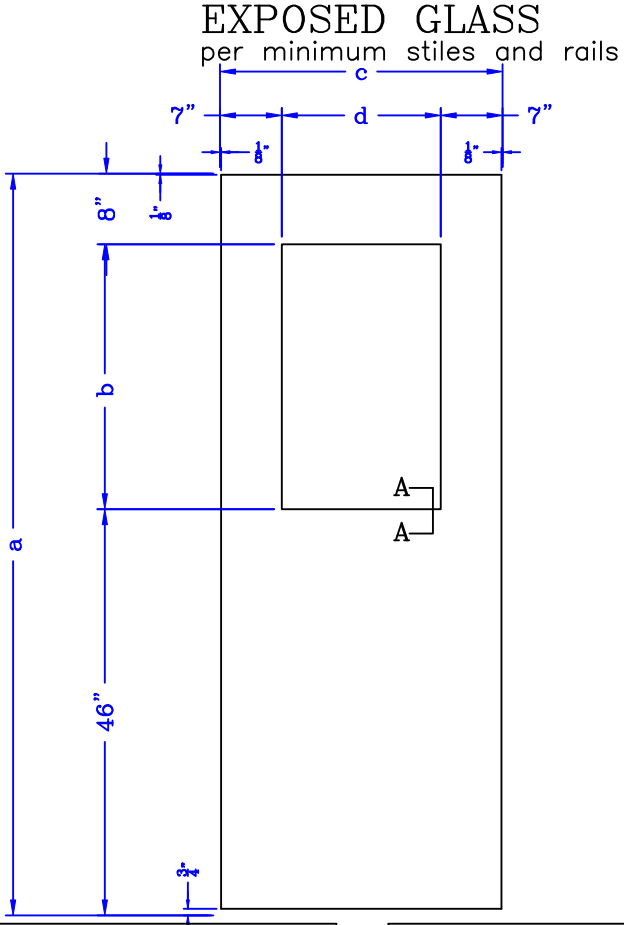


*The manufacturing process of these lite kits (tack welding, putty filled) may results in a show-through after application of a finished paint. These characteristics are inherent in production and are not to be considered as manufacturing defects.
Per ANSI A250.8-2003(R2008), previously ANSI SDI 100-91 Appendix A.

Half glass

Actual glass size is 1" larger than exposed glass

This lite DOES NOT meet ADA standards

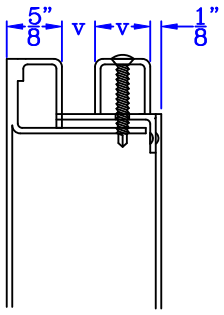


Outside view

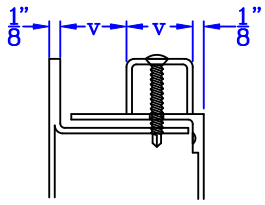
Nominal Width	
c	d
2' 6" (30")	16"
2' 10" (34")	20"
3' 0" (36")	22"
3' 6" (42")	28"
4' 0" (48")	34"

Nominal Height	
a	b
6' 8" (80")	26"
6' 10" (82")	28"
7' 0" (84")	30"
7' 2" (86")	32"
8' 0" (96")	42"

*up to 7/16" thick glass, min. 1 3/4" door



*For 1/2" to 1" thick glass

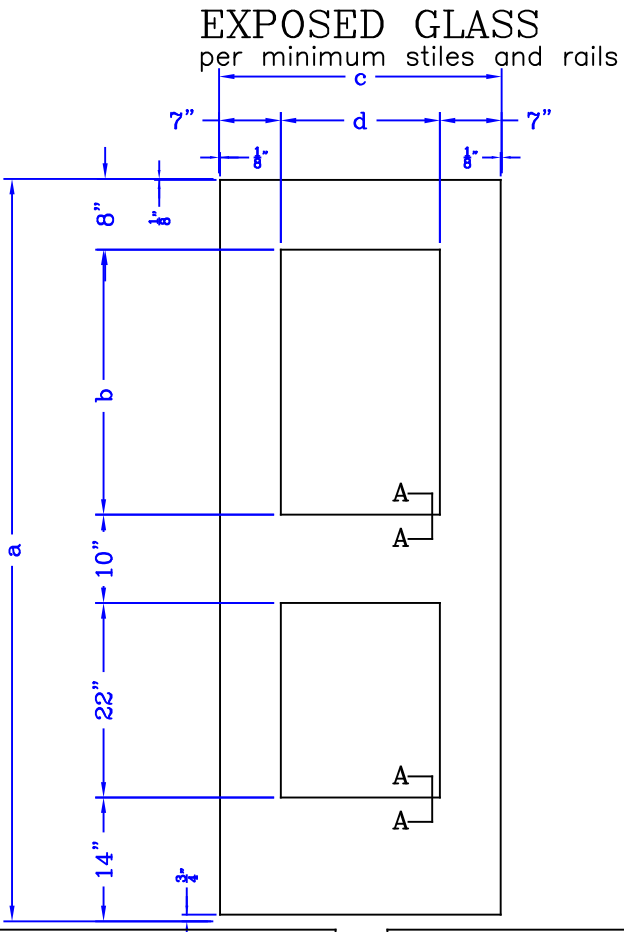


*The manufacturing process of these lite kits (tack welding, putty filled) may results in a show-through after application of a finished paint. These characteristics are inherent in production and are not to be considered as manufacturing defects. Per ANSI A250.8-2003(R2008), previously ANSI SDI 100-91 Appendix A.

Minimum shown to allow proper clearance for hardware.

Two half glass

Actual glass size is 1" larger than exposed glass

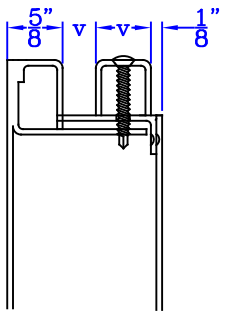


Outside view

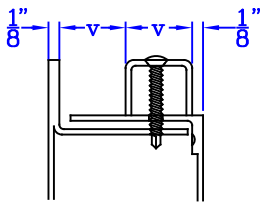
Nominal Width	
c	d
2' 6" (30")	16"
2' 10" (34")	20"
3' 0" (36")	22"
3' 6" (42")	28"
4' 0" (48")	34"

Nominal Height	
a	b
6' 8" (80")	26"
6' 10" (82")	28"
7' 0" (84")	30"
7' 2" (86")	32"
8' 0" (96")	42"

*up to 7/16" thick glass, min. 1 3/4" door



*For 1/2" to 1" thick glass

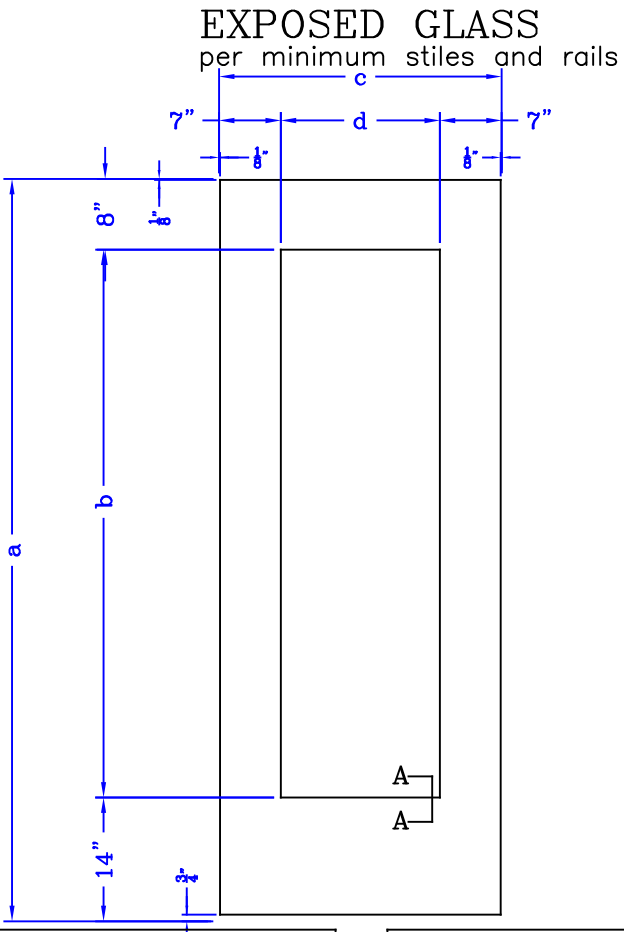


*The manufacturing process of these lite kits (tack welding, putty filled) may results in a show-through after application of a finished paint. These characteristics are inherent in production and are not to be considered as manufacturing defects.
Per ANSI A250.8-2003(R2008), previously ANSI SDI 100-91 Appendix A.

Minimum shown to allow proper clearance for hardware.

Full glass

Actual glass size is 1" larger than exposed glass

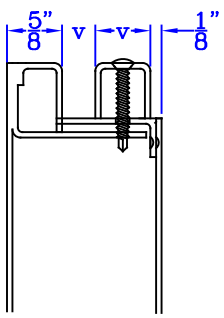


Outside view

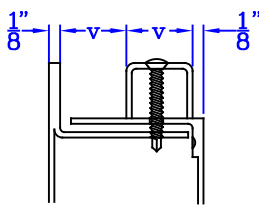
Nominal Width	
c	d
2' 6" (30")	16"
2' 10" (34")	20"
3' 0" (36")	22"
3' 6" (42")	28"
4' 0" (48")	34"

Nominal Height	
a	b
6' 8" (80")	58"
6' 10" (82")	60"
7' 0" (84")	62"
7' 2" (86")	64"
8' 0" (96")	74"

*up to 7/16" thick glass, min. 1 3/4" door



*For 1/2" to 1" thick glass



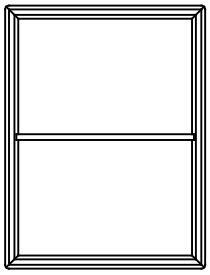
*The manufacturing process of these lite kits (tack welding, putty filled) may results in a show-through after application of a finished paint. These characteristics are inherent in production and are not to be considered as manufacturing defects. Per ANSI A250.8-2003(R2008), previously ANSI SDI 100-91 Appendix A.

Minimum shown to allow proper clearance for hardware.

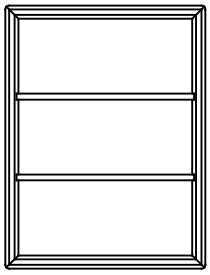
Sandwich kit (N Series) with muntins

Add to SK vision kit, for up to 1/2" thick glass

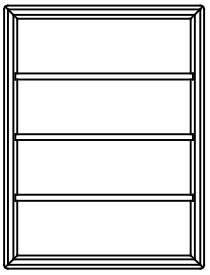
1H



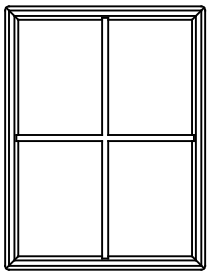
2H



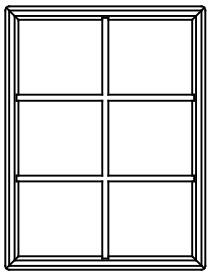
3H



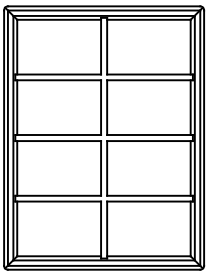
1H1V



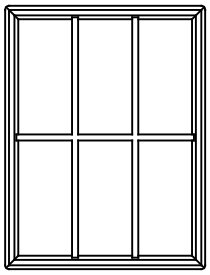
2H1V



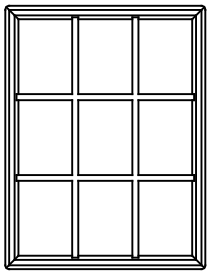
3H1V



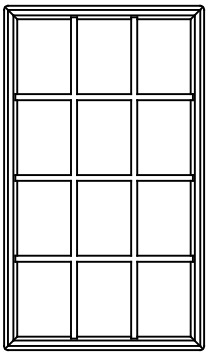
1H2V

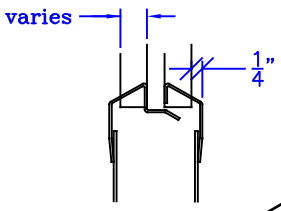


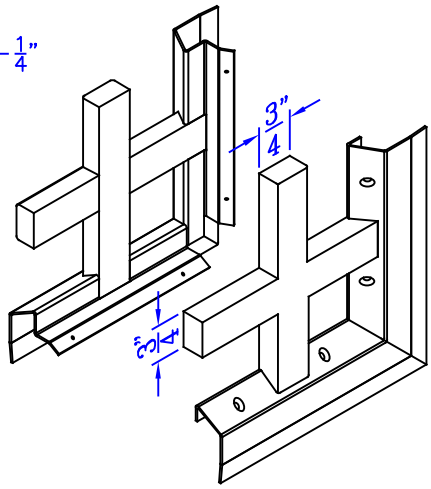
2H2V



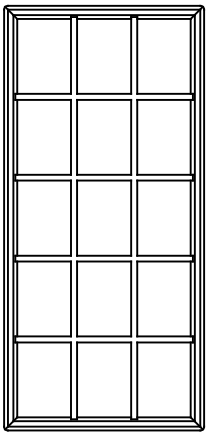
3H2V







4H2V

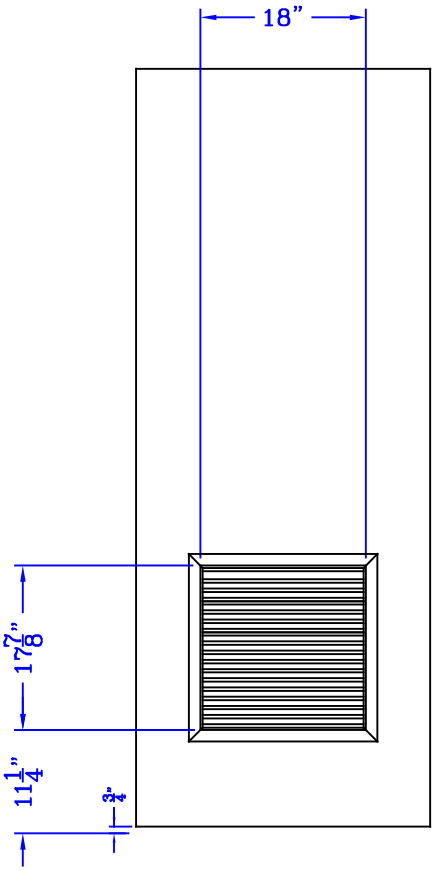


SKWM

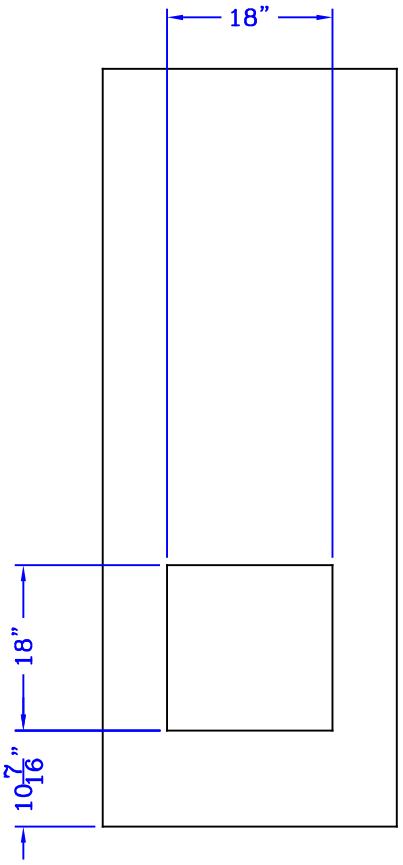
18" x 18" louver, sandwich type

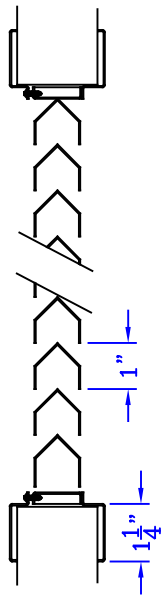
Not rated. Available with or without channel

LOUVER SIZES



CUT OUT





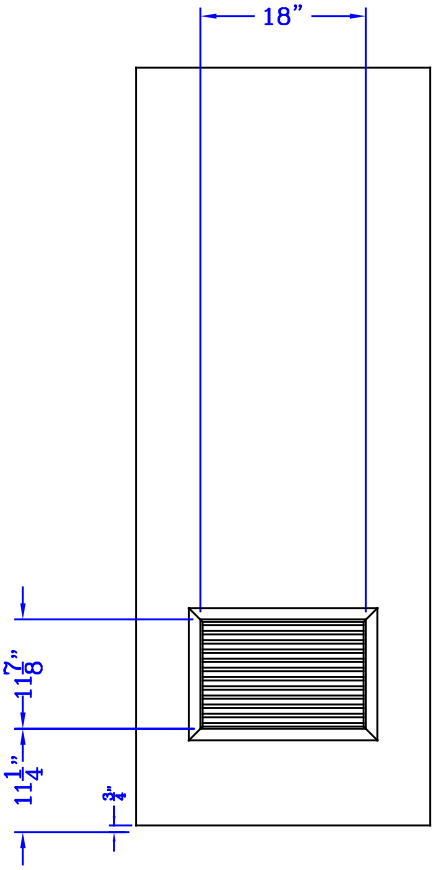
Per ADA standards, 10" from floor to casing.
Louvers made by others from cold rolled steel,available in galvannealed.

1818LO

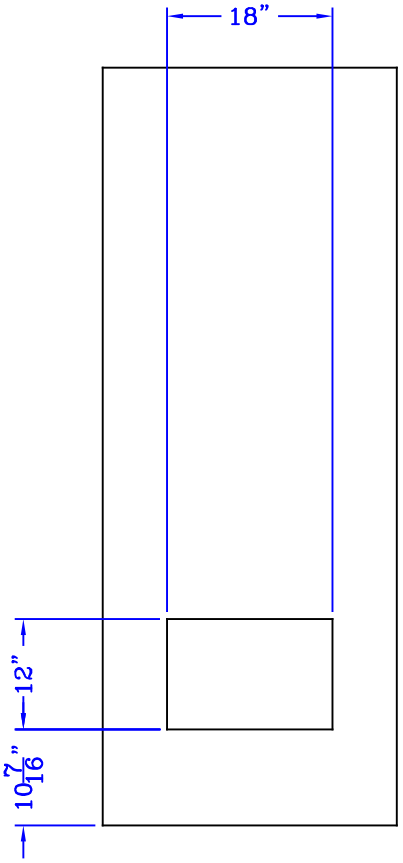
18" x 12" louver, sandwich type

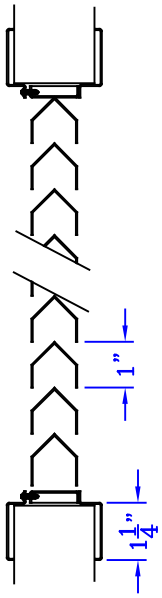
Not rated. Available with or without channel

LOUVER SIZES



CUT OUT



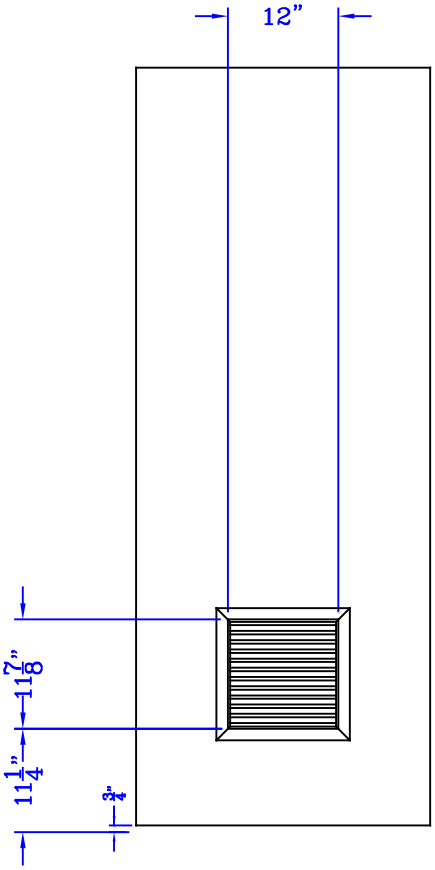


Per ADA standards, 10" from floor to casing.
Louvers made by others from cold rolled steel,available in galvannealed.

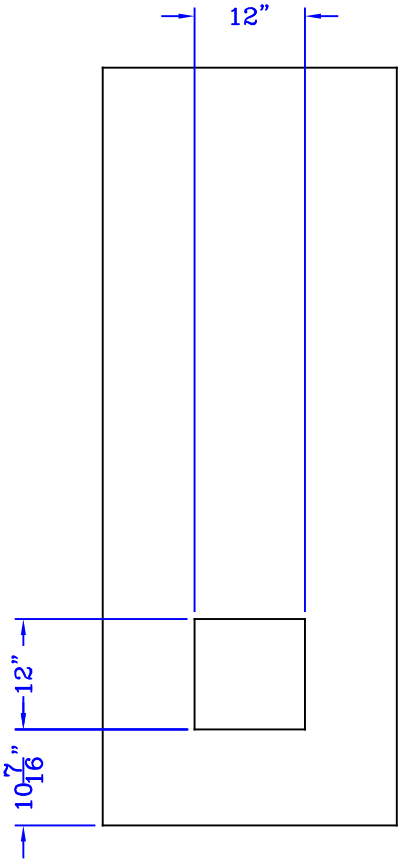
12" x 12" louver, sandwich type

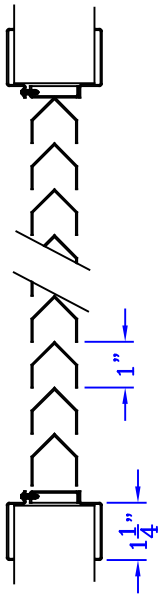
Not rated. Available with or without channel

LOUVER SIZES



CUT OUT



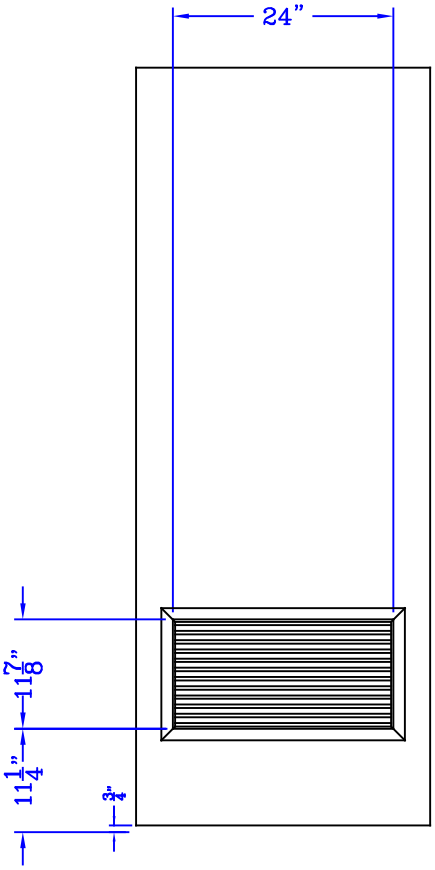


Per ADA standards, 10" from floor to casing.
Louvers made by others from cold rolled steel,available in galvannealed.

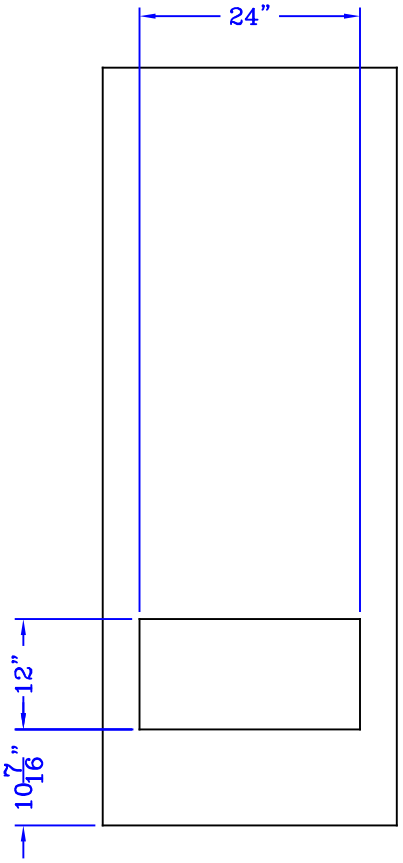
24" x 12" louver, sandwich type

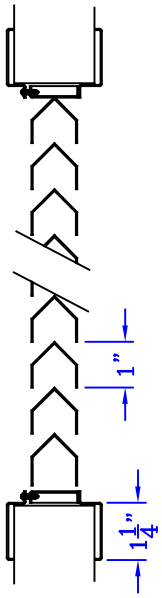
Not rated. Available with or without channel

LOUVER SIZES



CUT OUT



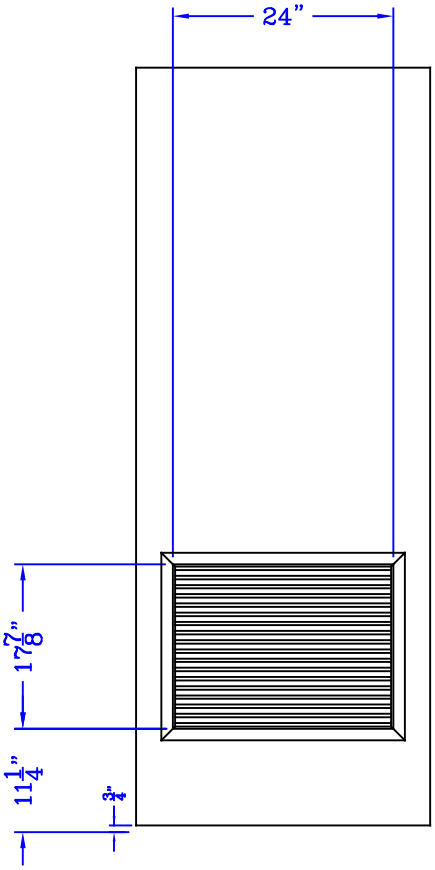


Per ADA standards, 10" from floor to casing.
Louvers made by others from cold rolled steel,available in galvannealed.

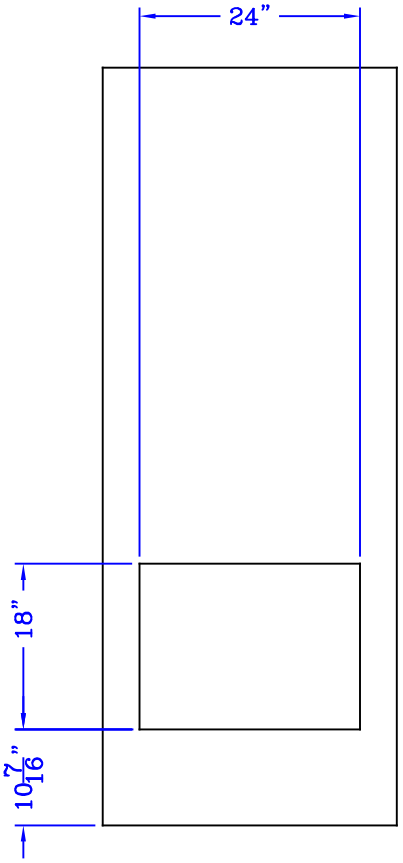
24" x 18" louver, sandwich type

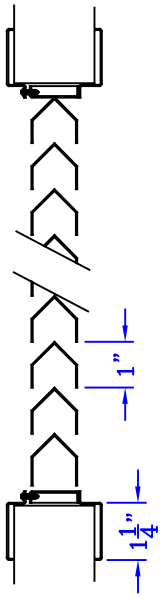
Not rated. Available with or without channel

LOUVER SIZES



CUT OUT



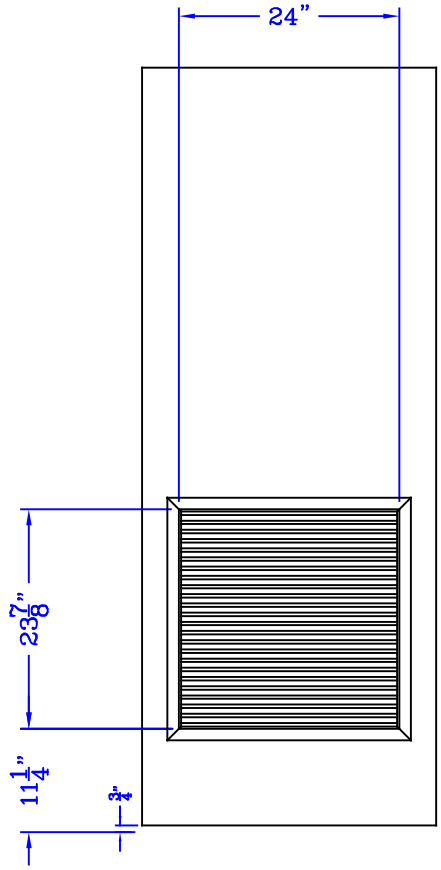


Per ADA standards, 10" from floor to casing.
Louvers made by others from cold rolled steel,available in galvannealed.

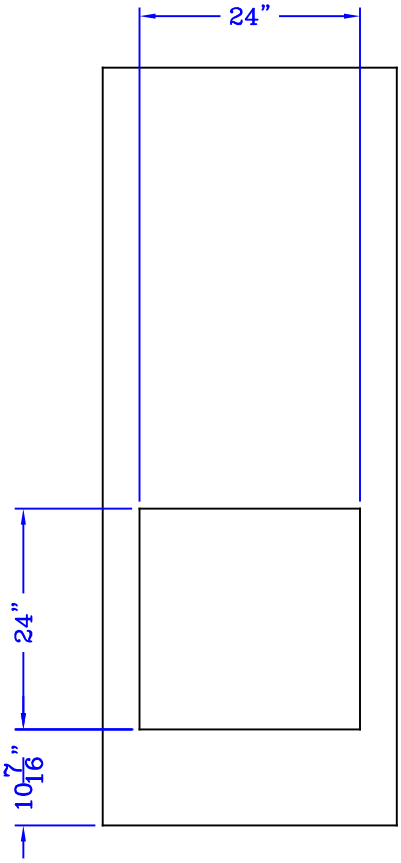
24" x 24" louver, sandwich type

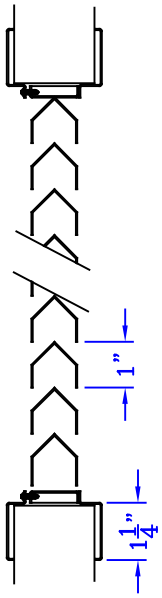
Not rated. Available with or without channel

LOUVER SIZES



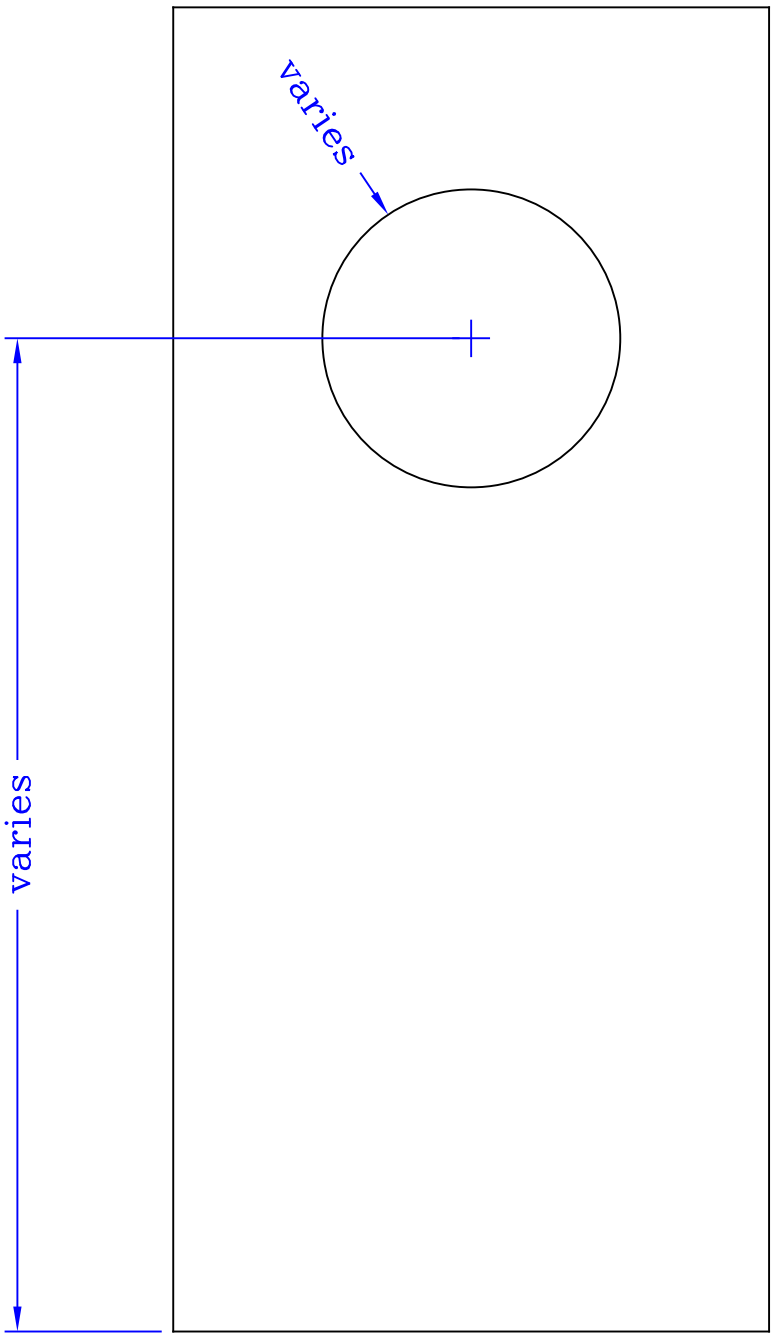
CUT OUT





Per ADA standards, 10" from floor to casing.
Louvers made by others from cold rolled steel,available in galvannealed.

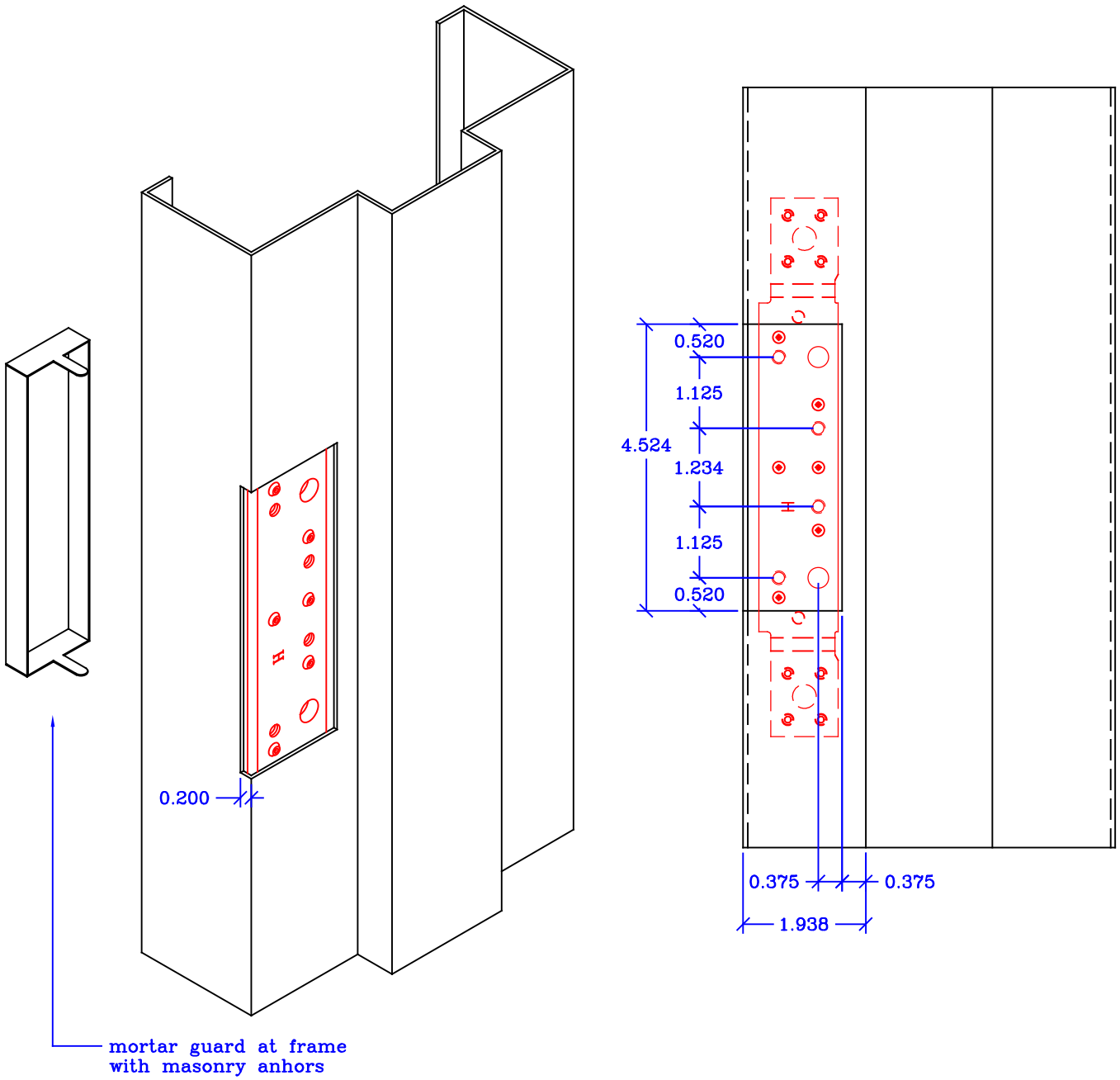
Round cut out
perimeter channel not available



RCO

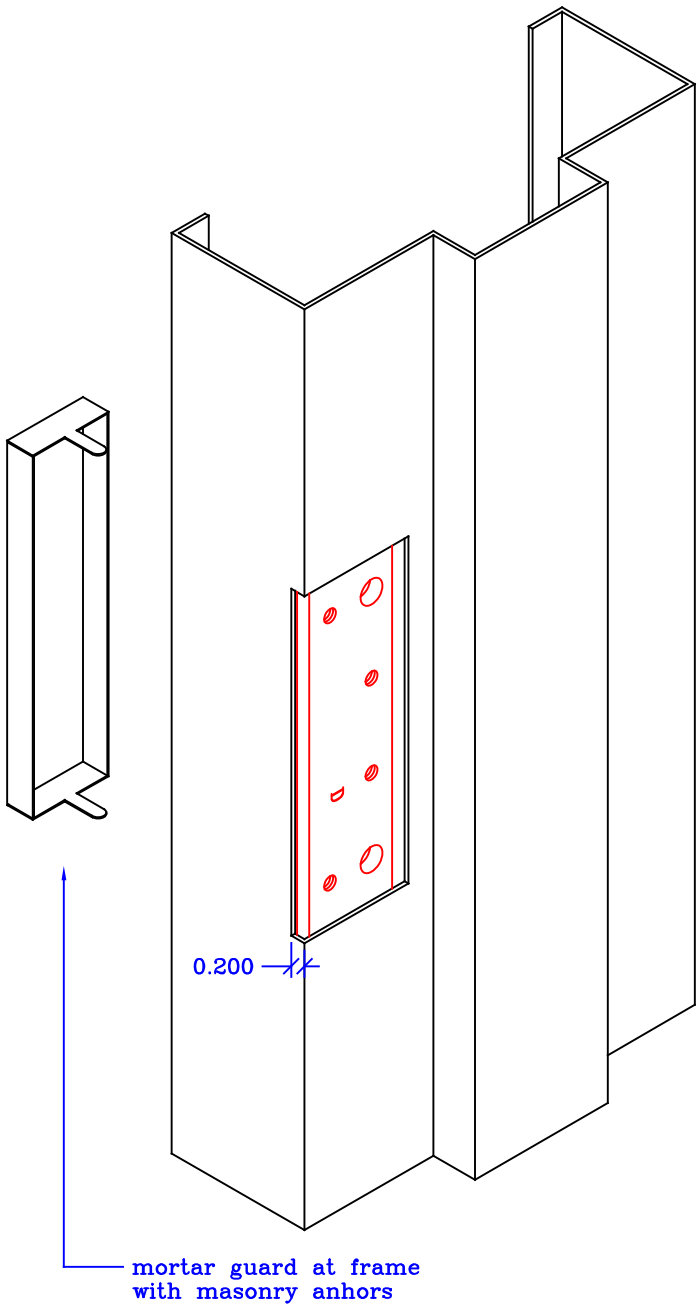
4 1/2" standard weight hinge reinforcement (0.134), 7ga

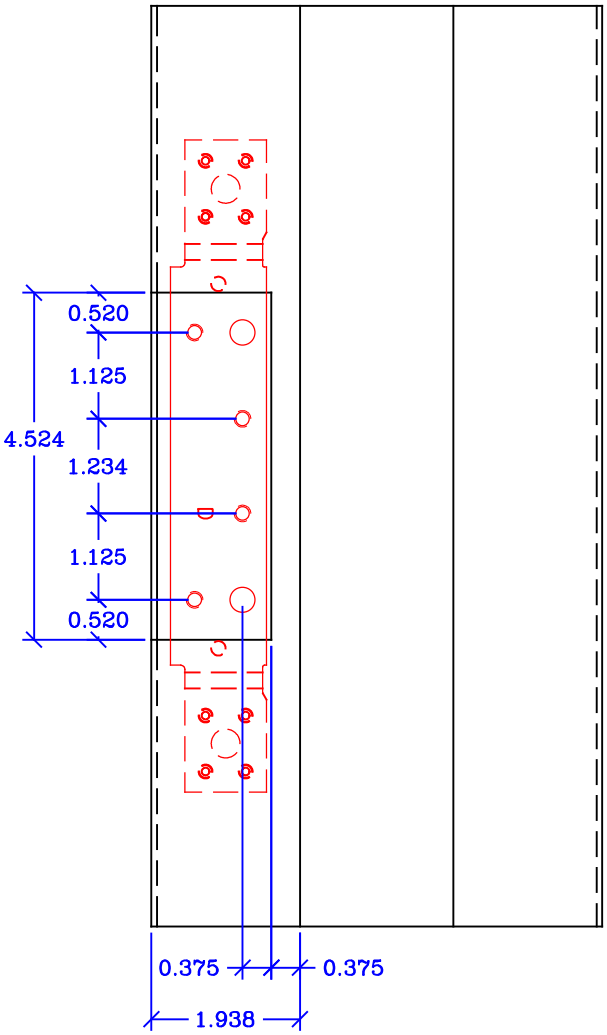
Projection welded



4 1/2" heavy weight hinge reinforcement (0.180), 7ga

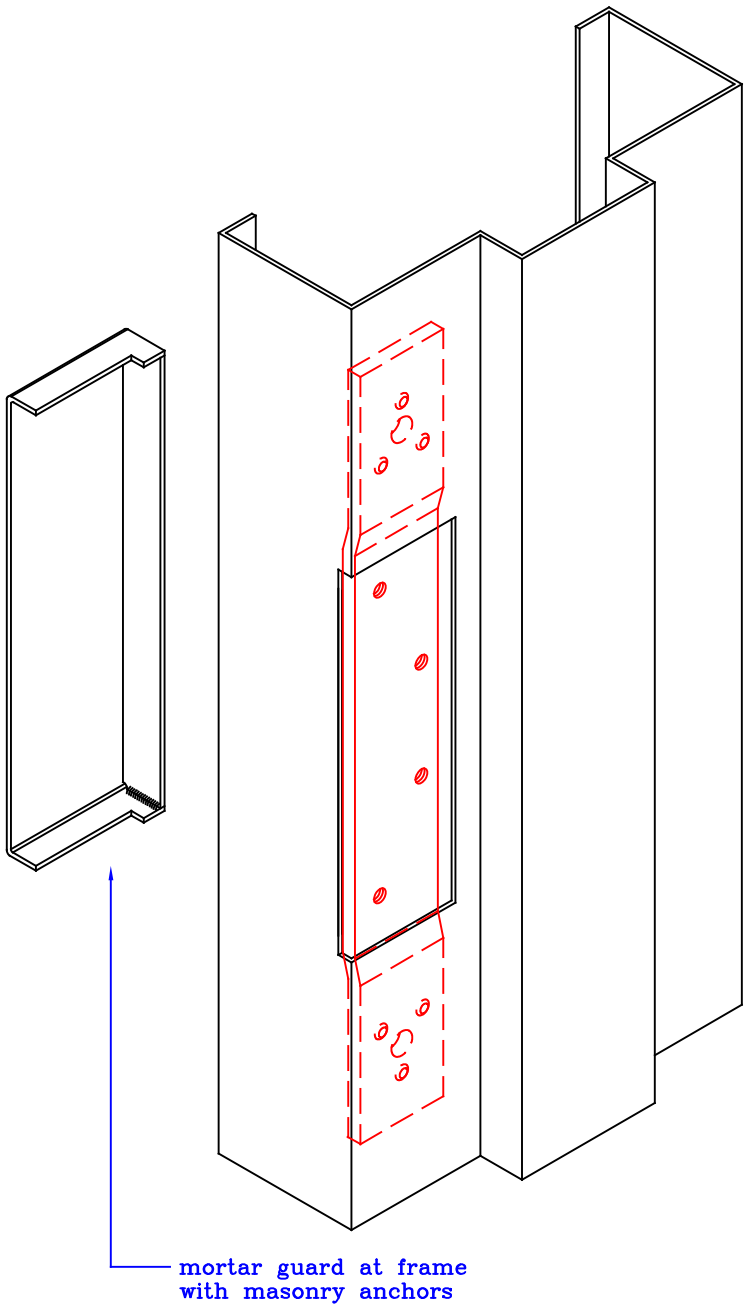
Projection welded

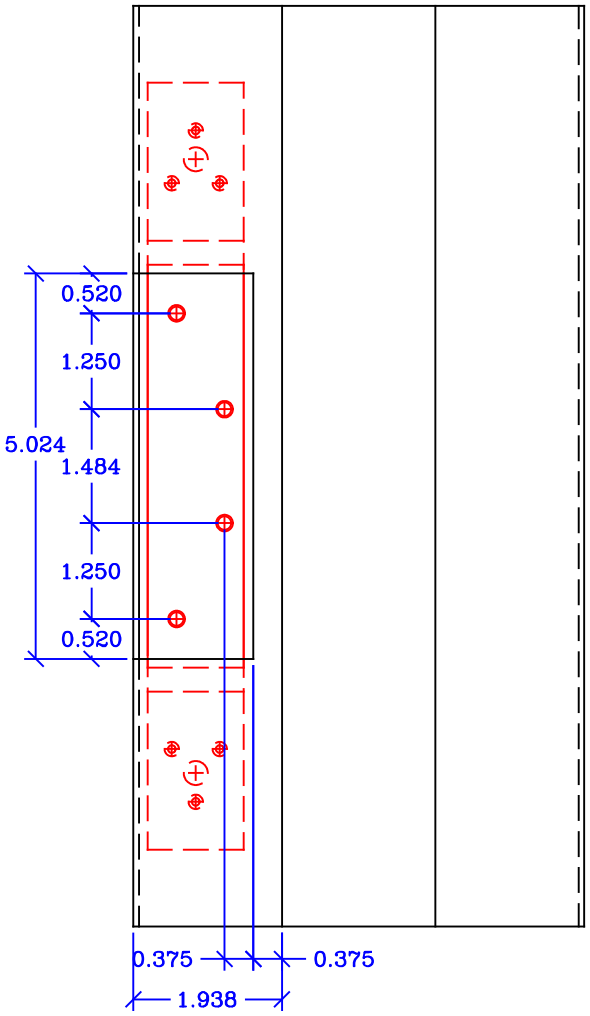




5" standard weight hinge reinforcement (0.146), 7ga

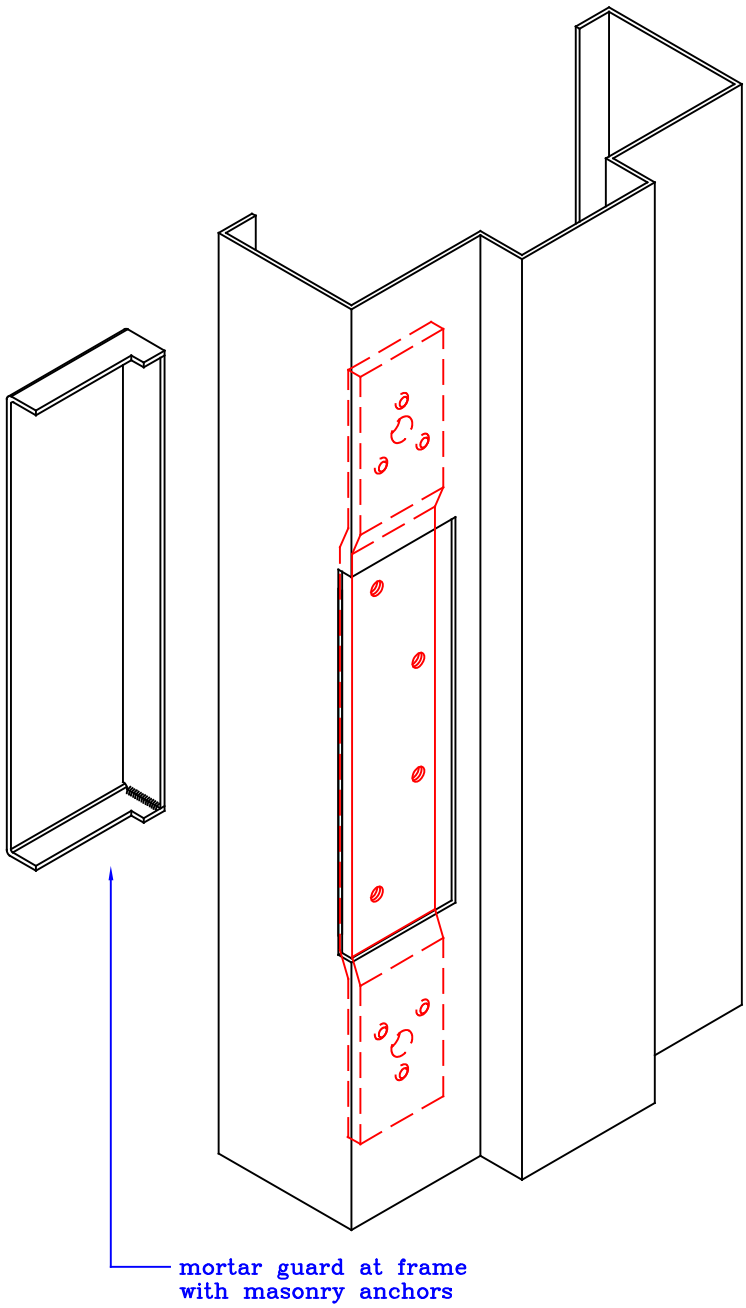
Projection welded

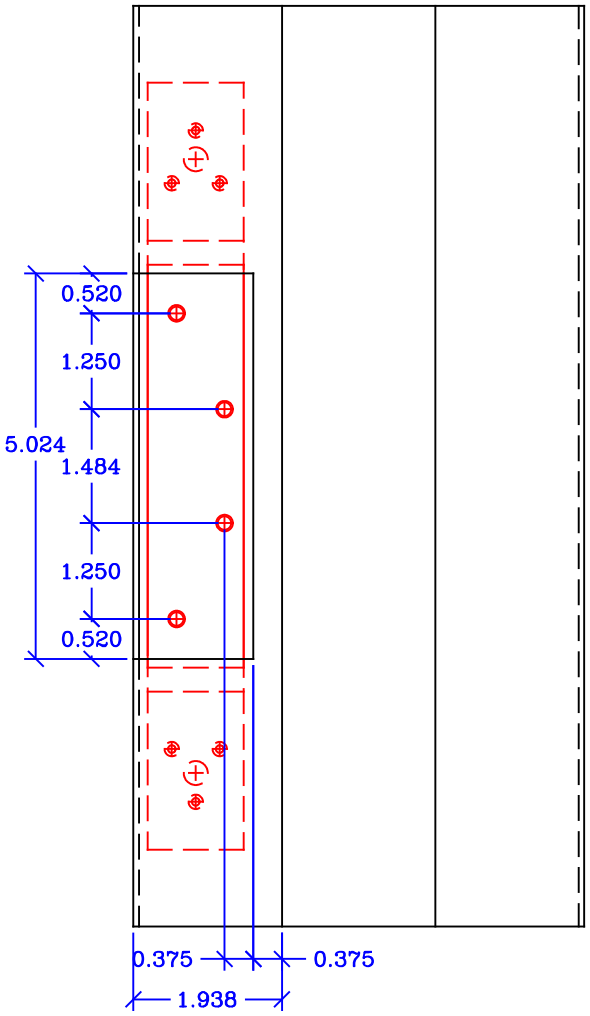




5" heavy weight hinge reinforcement (0.190), 7ga

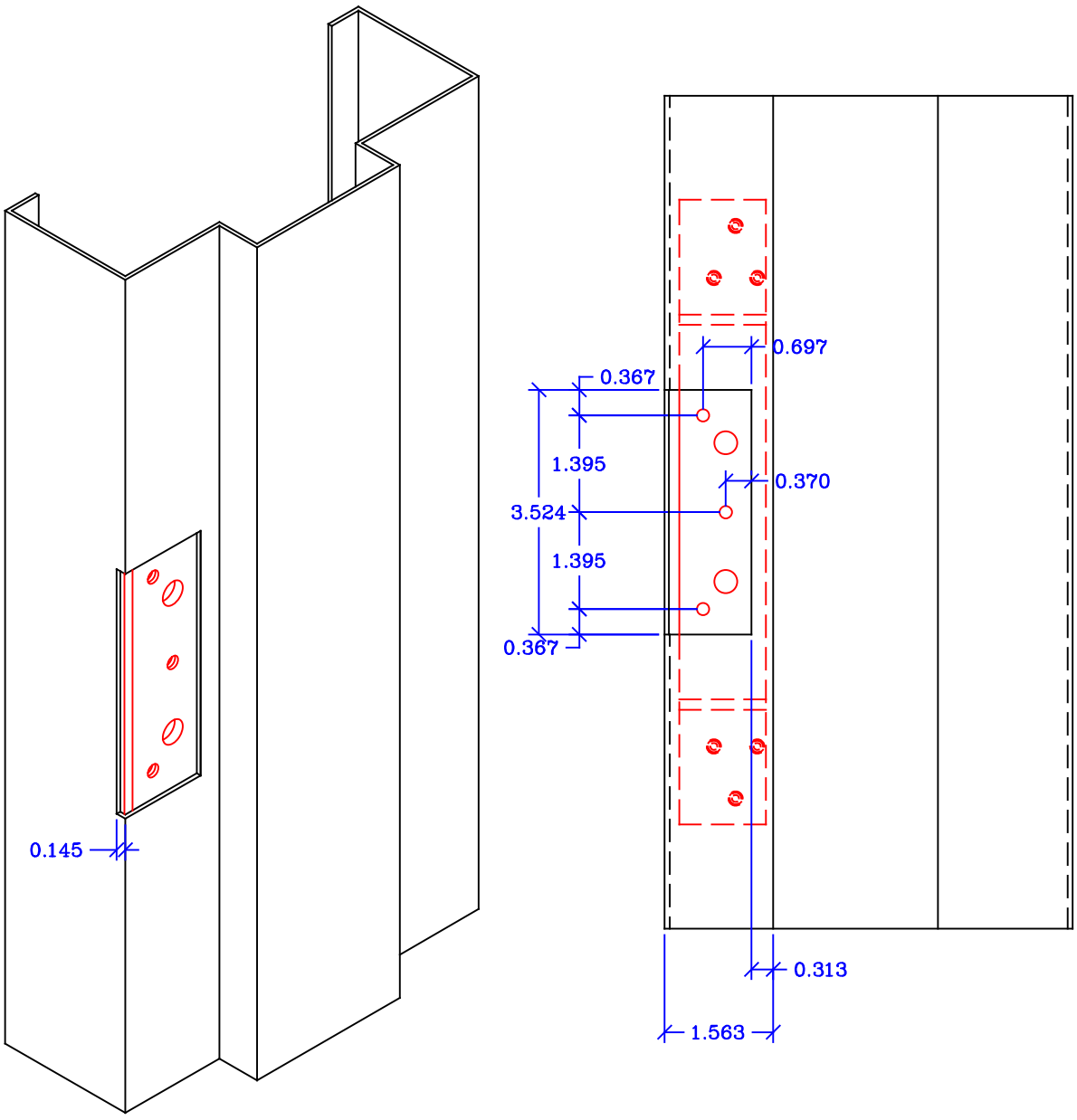
Projection welded





3 1/2" standard weight hinge reinforcement (0.125), 10ga

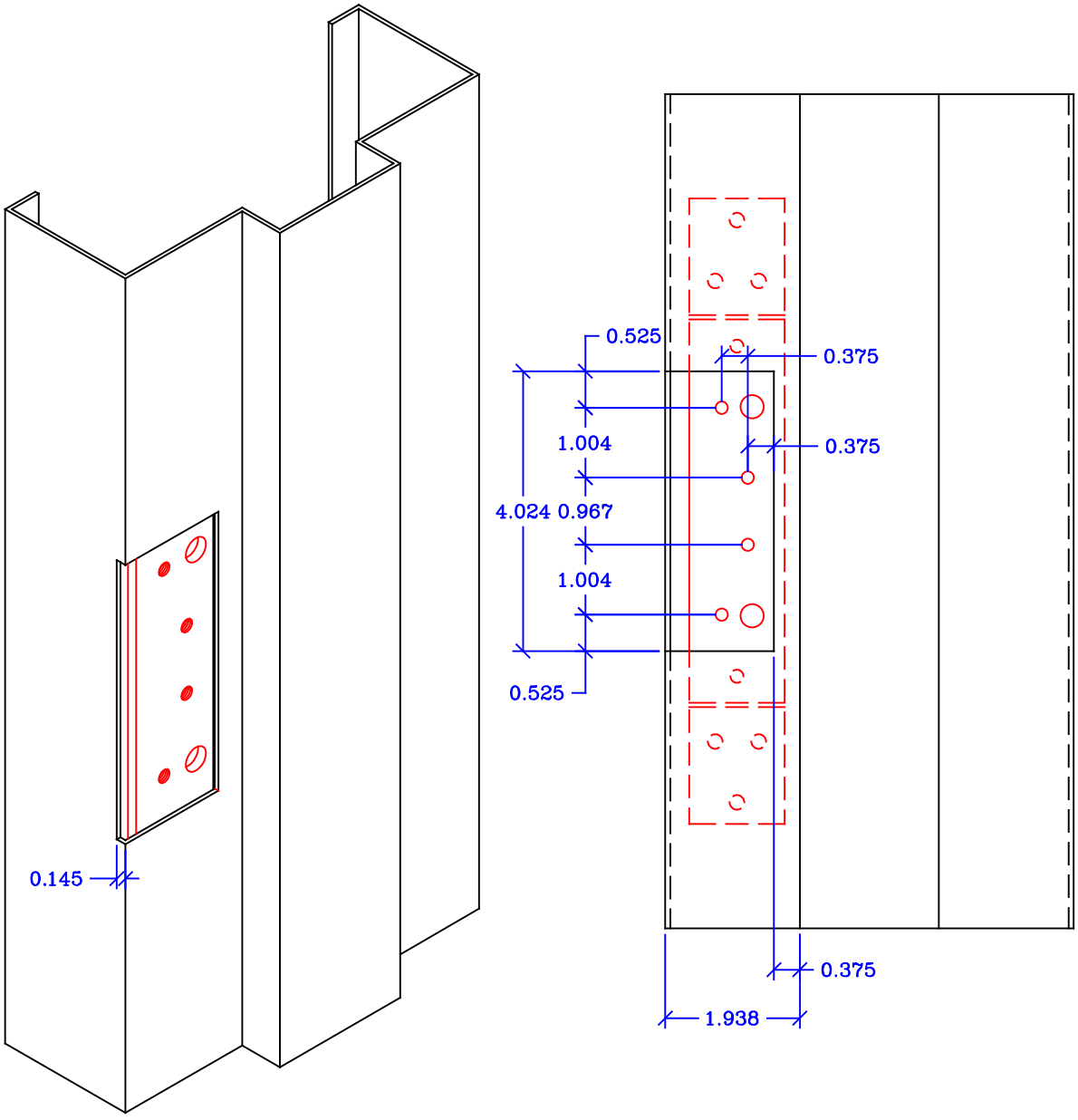
Projection welded



Shown for a 1 3/8" thick door

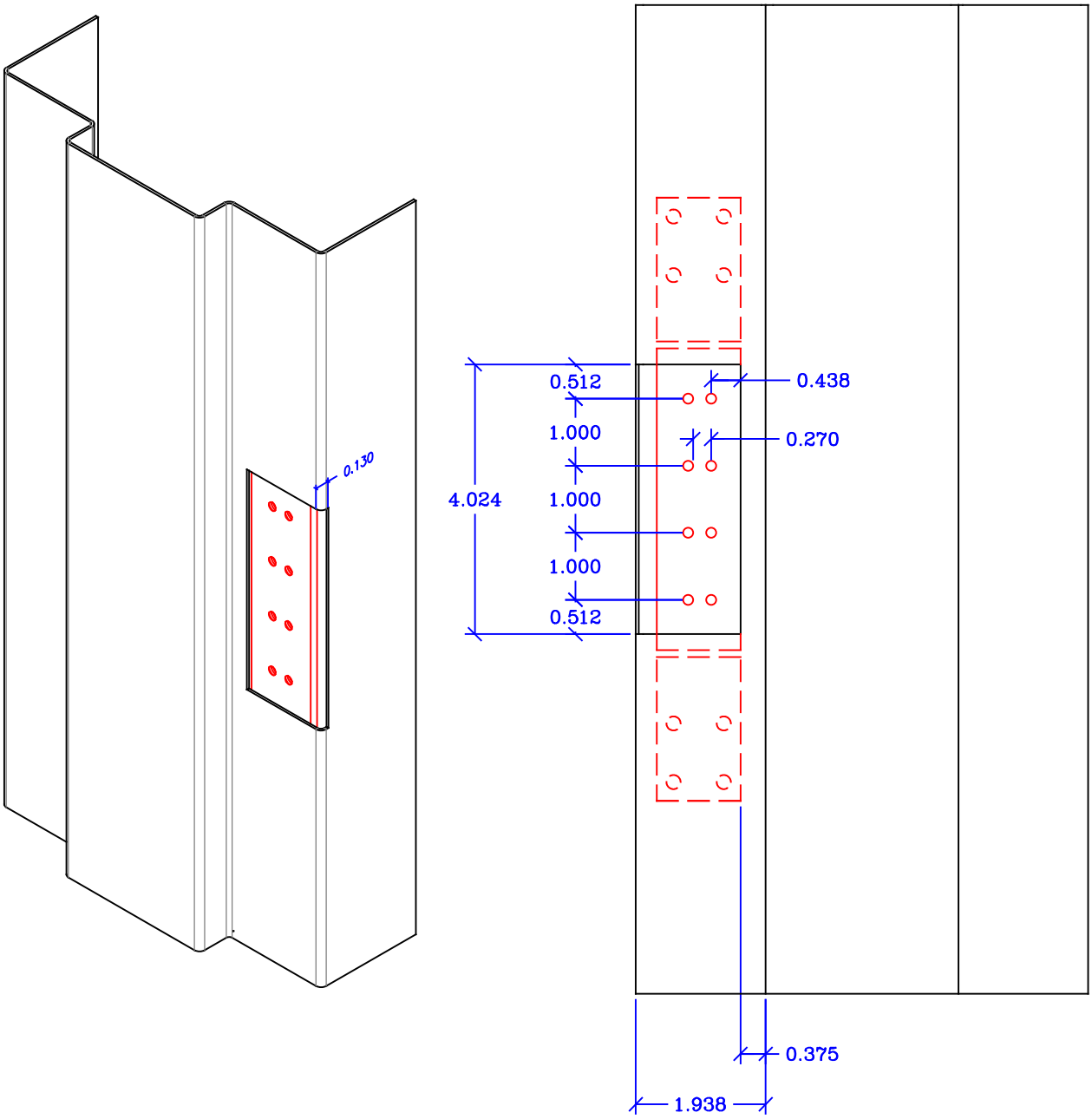
4" standard weight hinge reinforcement (0.130), 10ga

Projection welded



4" thin reinforcement, 10ga

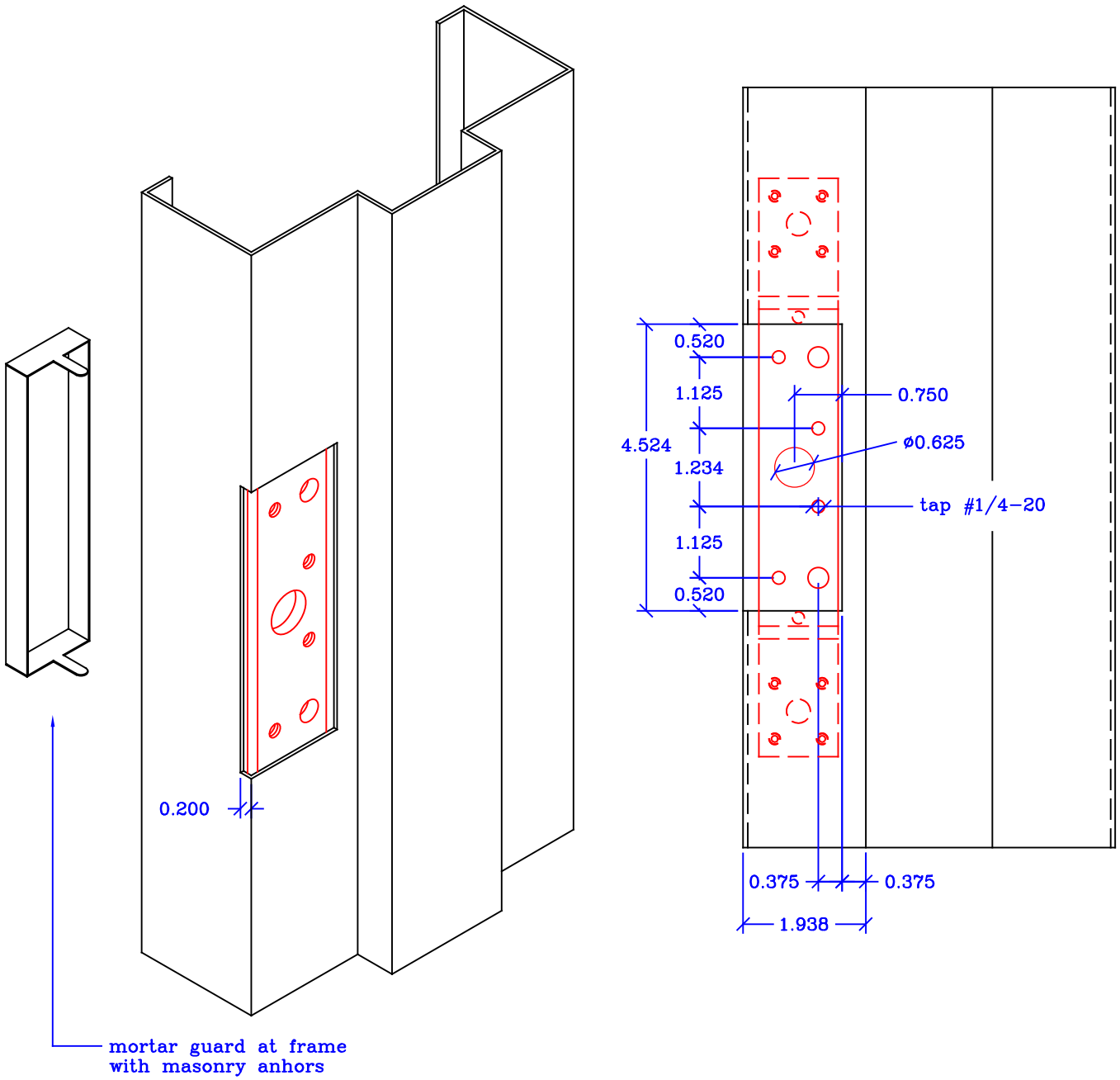
Projection welded



40T

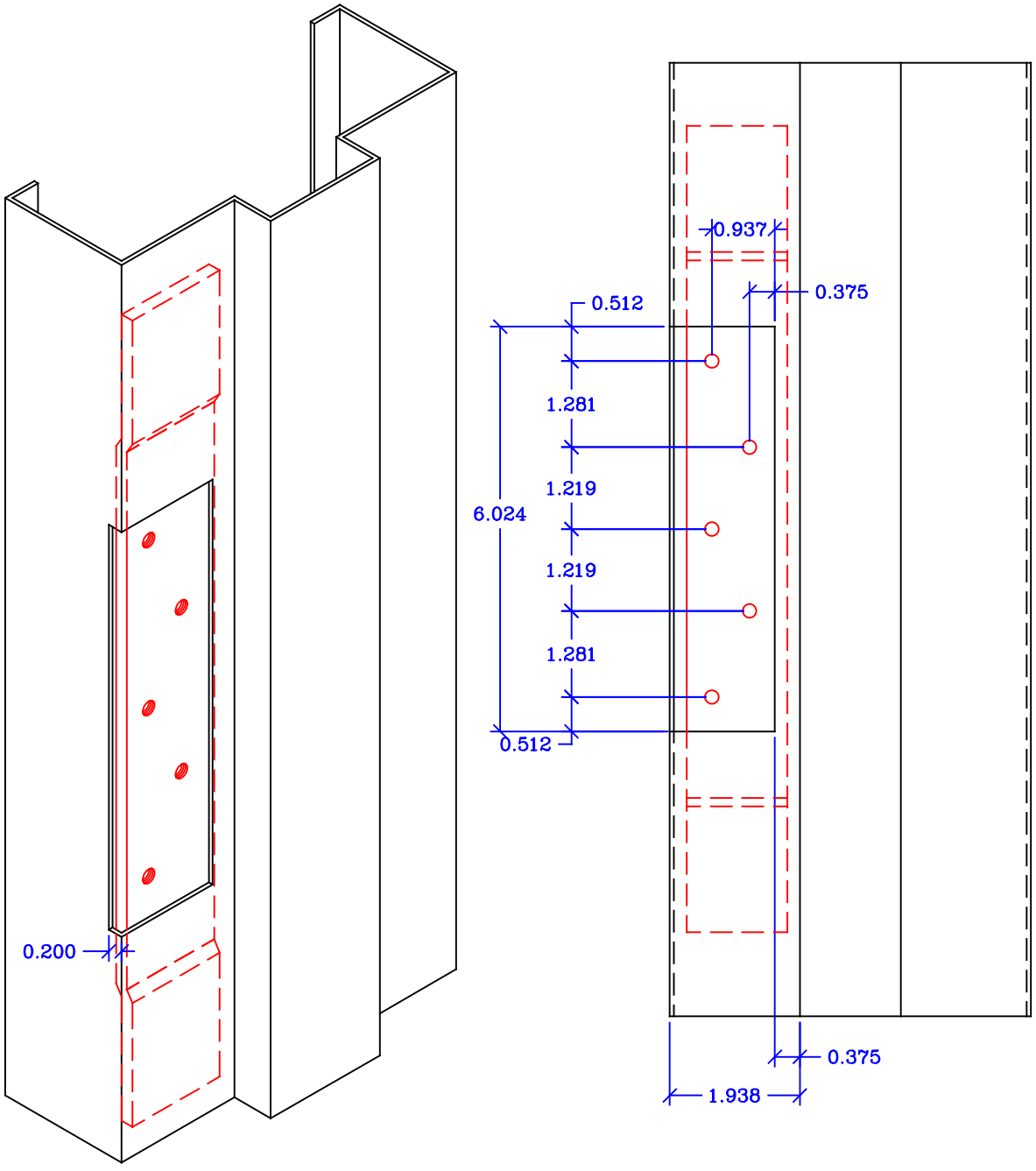
4 1/2" institutional hinge reinforcement (0.190), 7ga

Projection welded



6" standard weight hinge reinforcement (0.160), 7ga

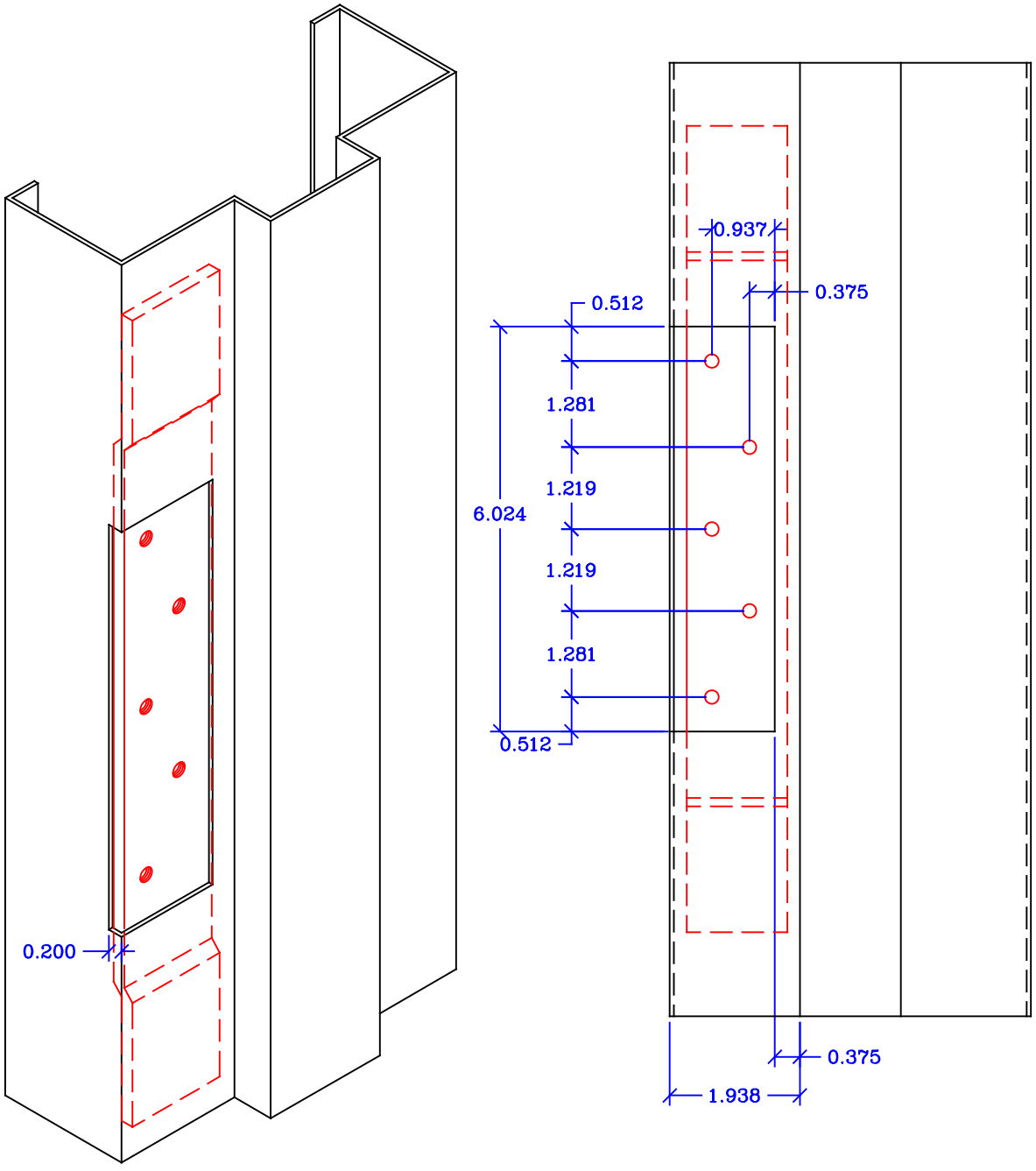
Projection welded



S09

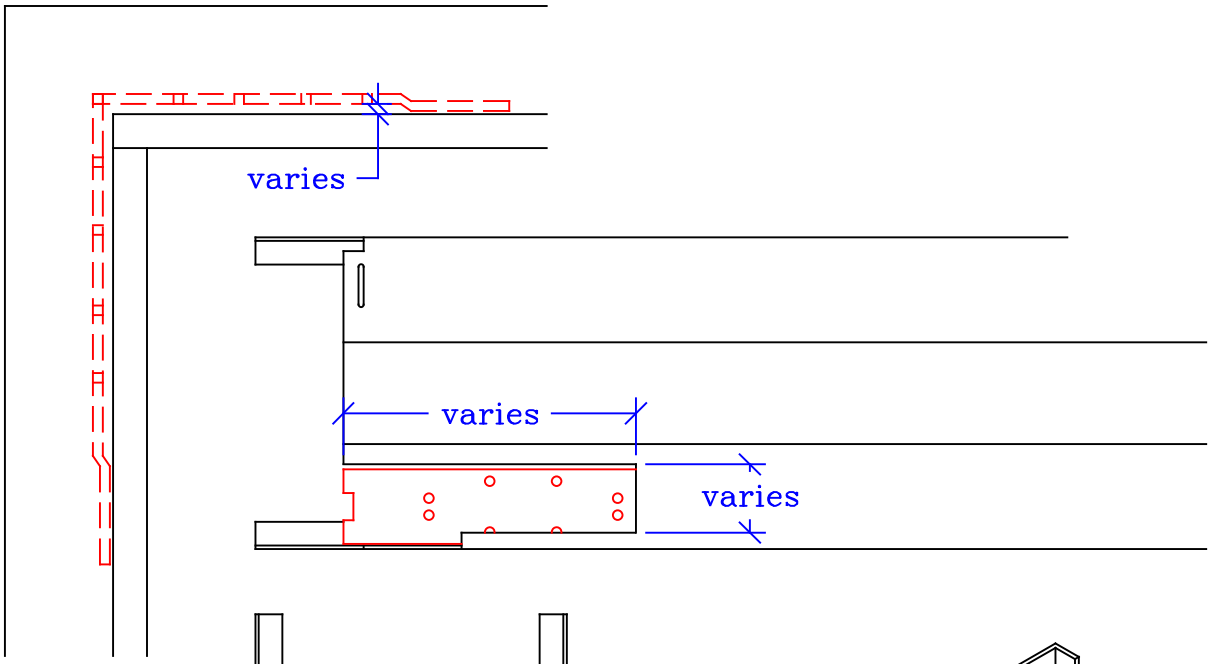
6" heavy weight hinge reinforcement (0.203), 7ga

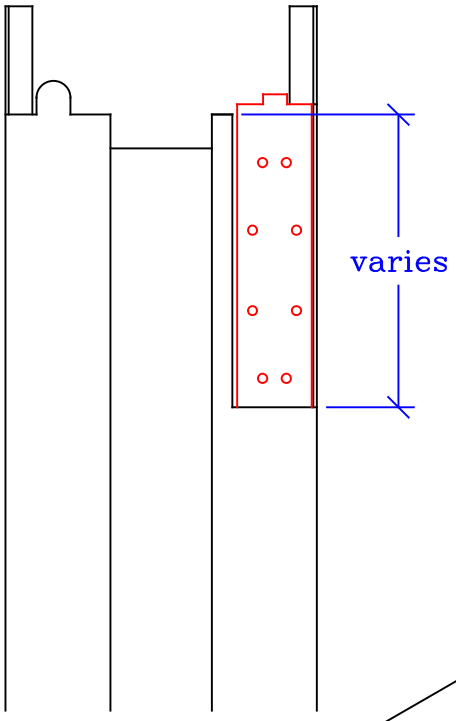
Projection welded

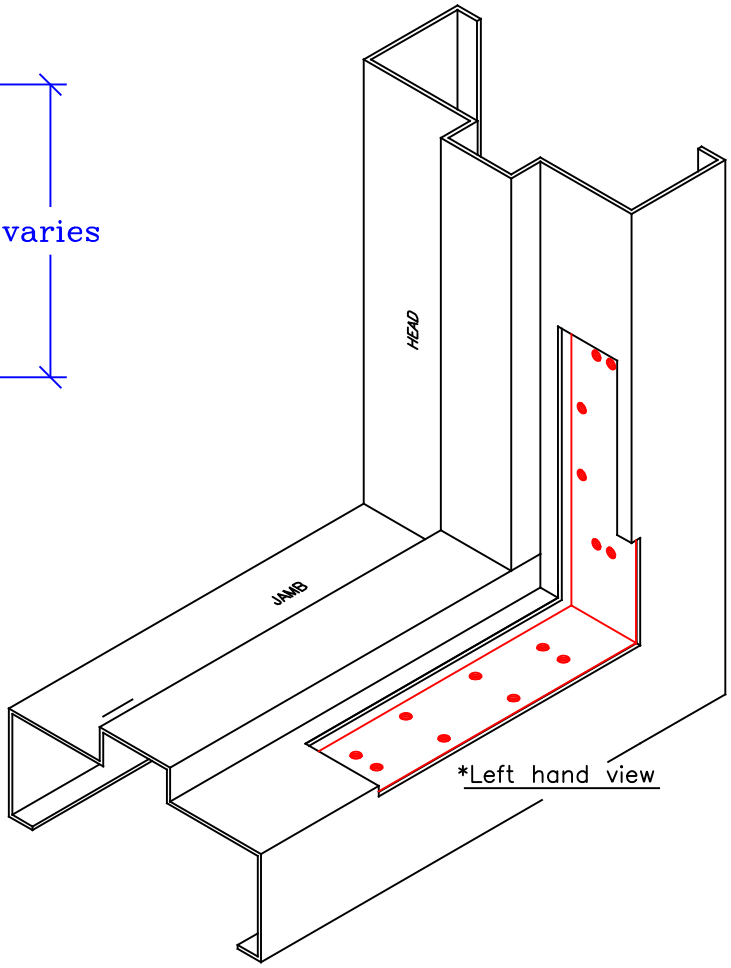


Anchor hinge, 10ga

Projection welded

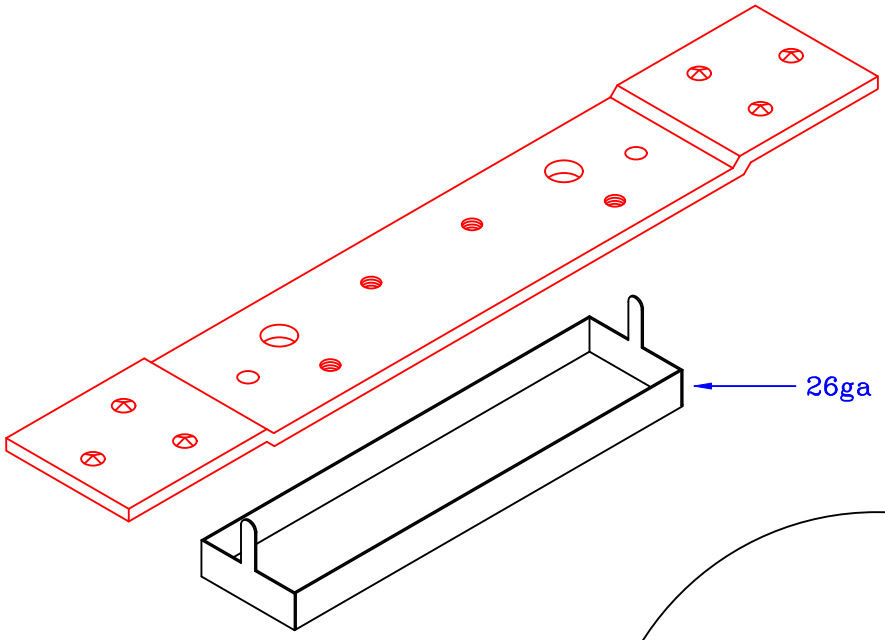


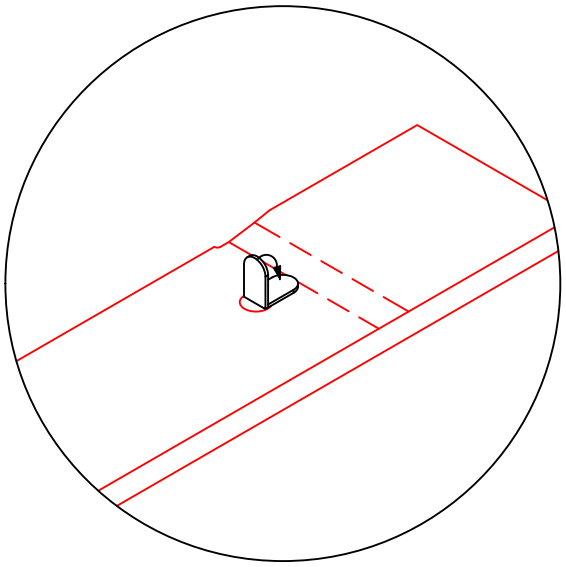




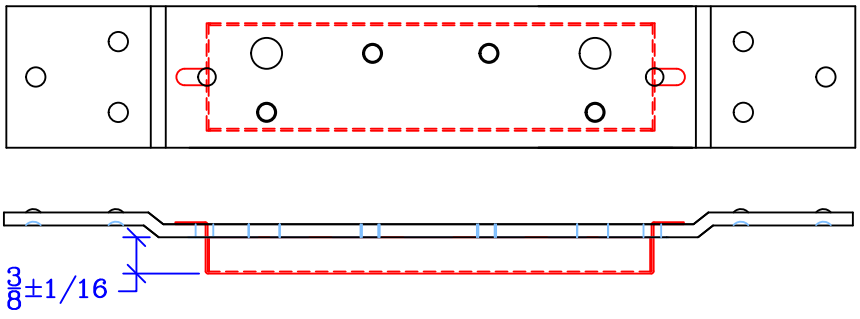
*manufacturer's template to be provided

Mortar guard





DETAIL A

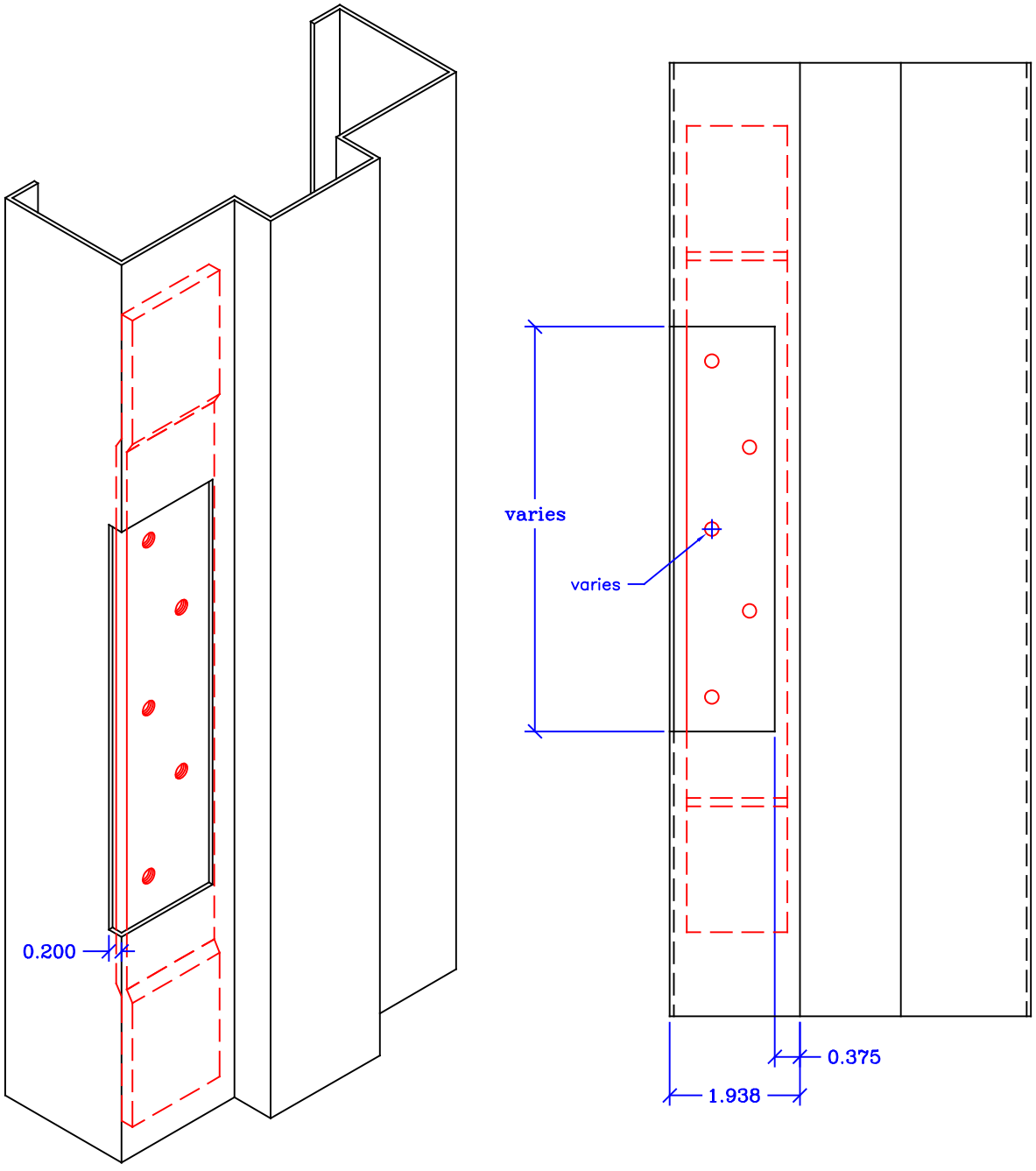


MORG

Added at all frames with masonry anchors
Model for 4 1/2" butt hinge reinforcement shown.

Special mortise hinge, 7ga

Projection welded

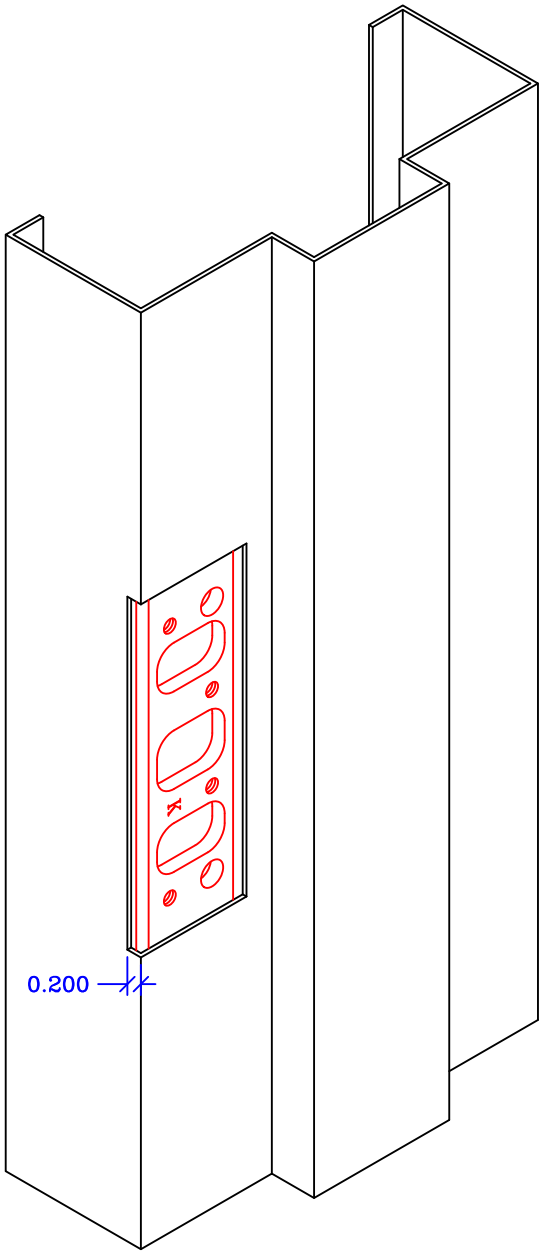


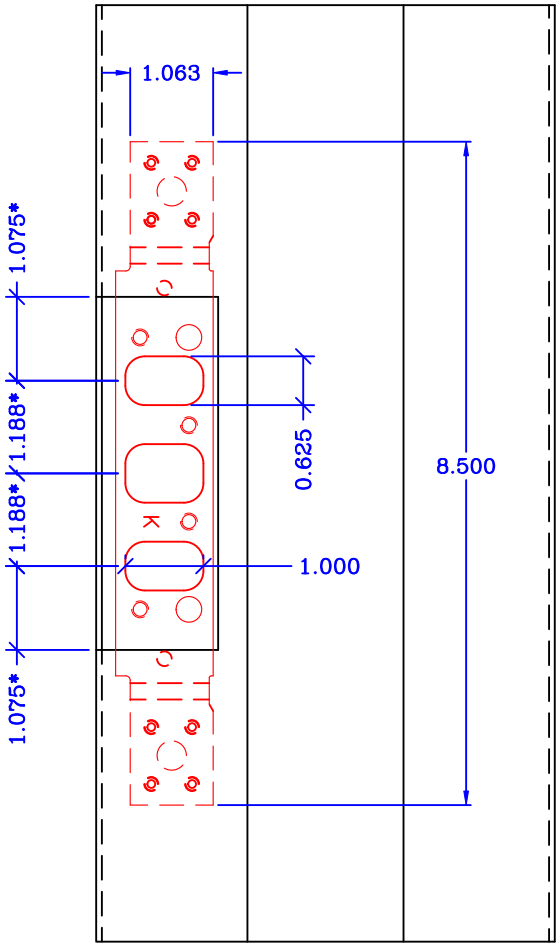
SPMH

*manufacturer's template to be provided

Electric hinge reinforcement, 7ga

Projection welded



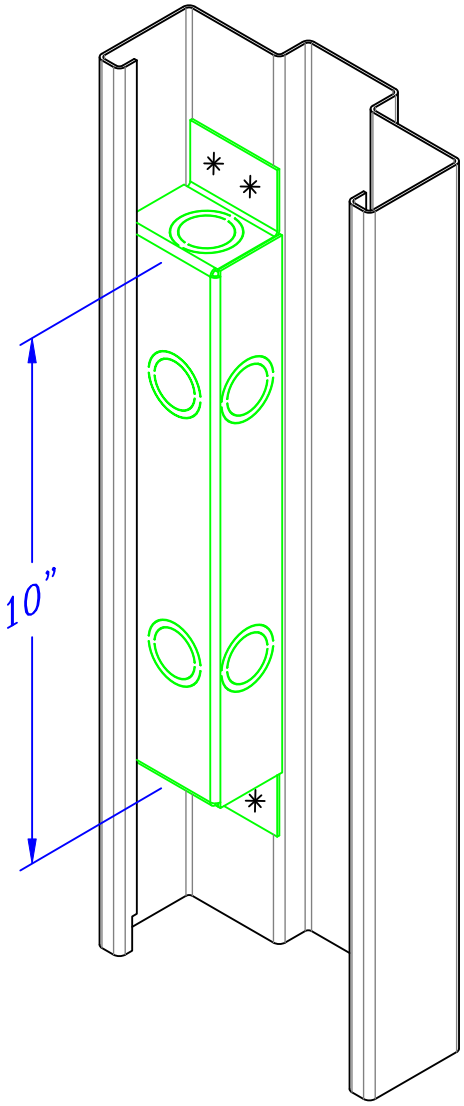


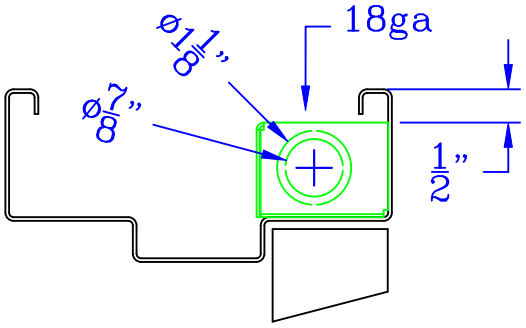
4 1/2" electric hinge prep. shown, also available for other heights.

* fits most of electric hinges, please verify toward model intented.

Box for electric hinge with knockouts

Spot welded

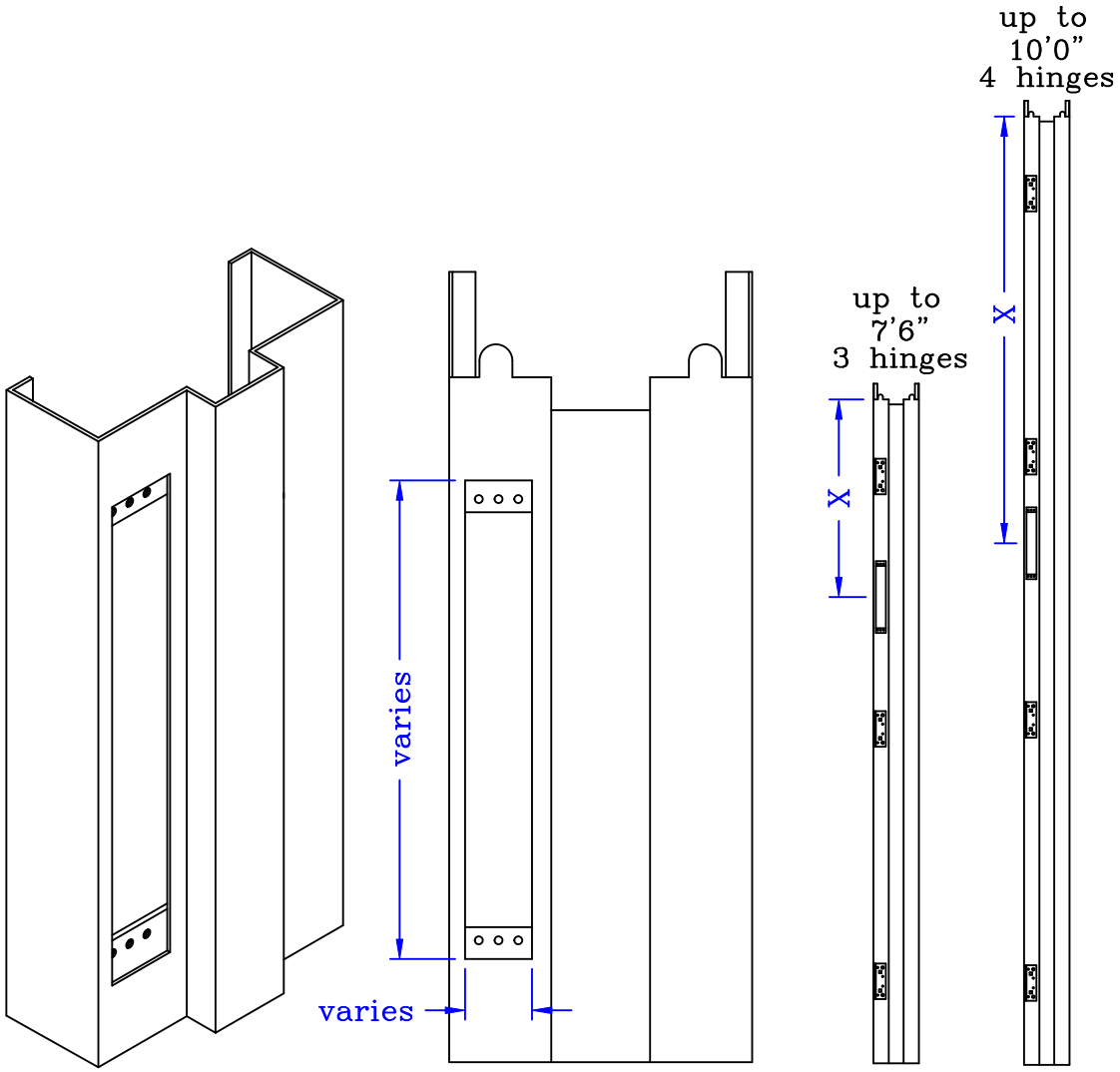




For 2" face frame or more.

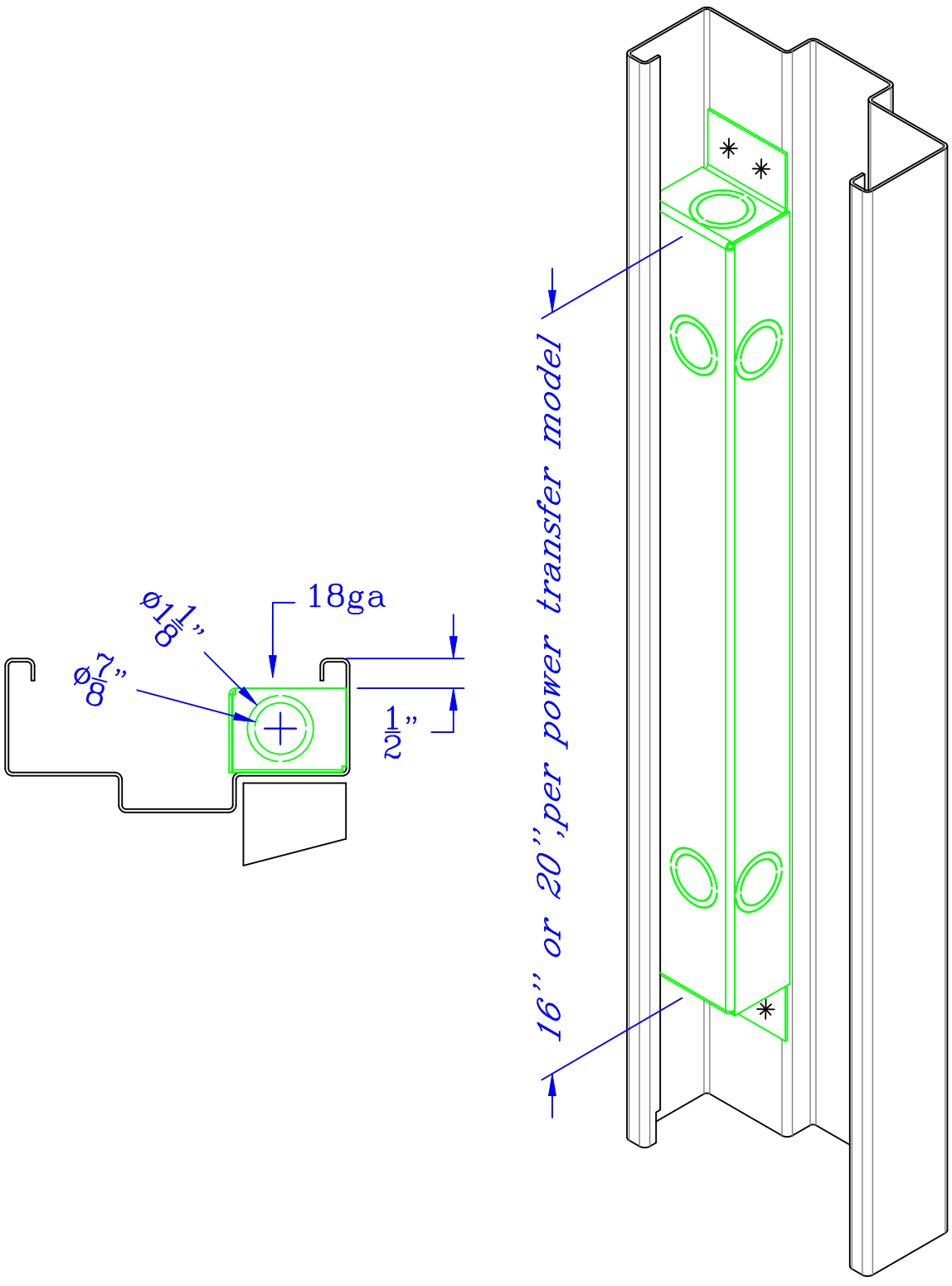
Electric power transfer reinforcements, 12ga

Projection welded



*manufacturer's template to be provided
**see page Q-1.1 for EPT location

Box for power transfer with knockouts
Spot welded

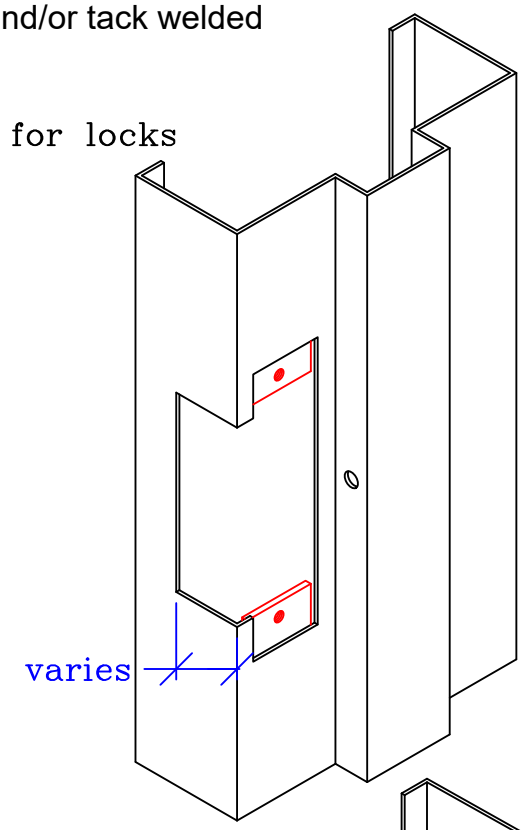


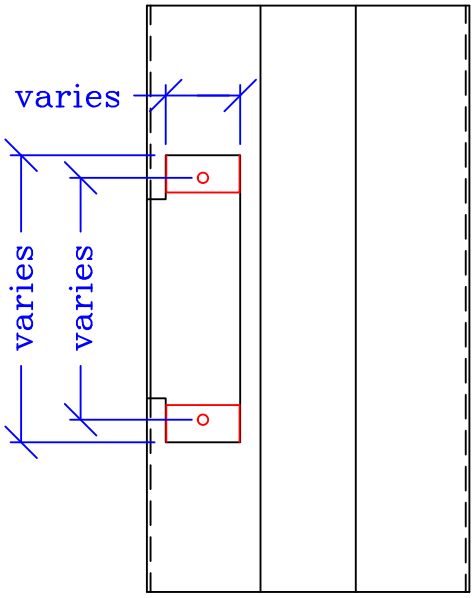
For 2" face frame or more. Maximum hardware depth of 1-7/16".

Prep. for electric strike, 12ga

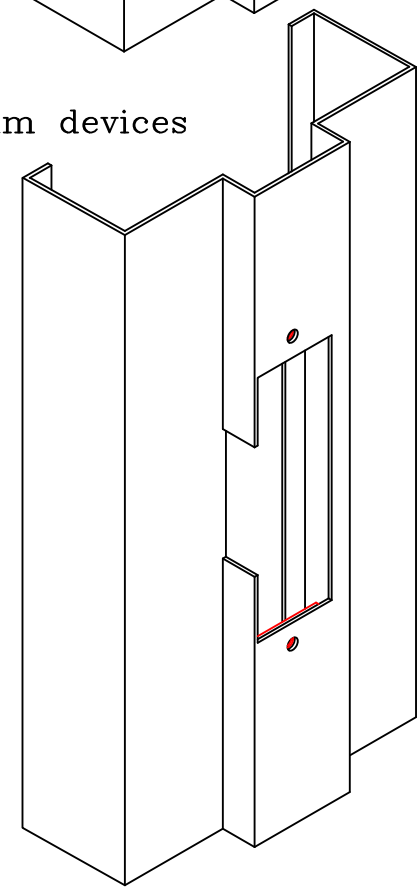
Spot and/or tack welded

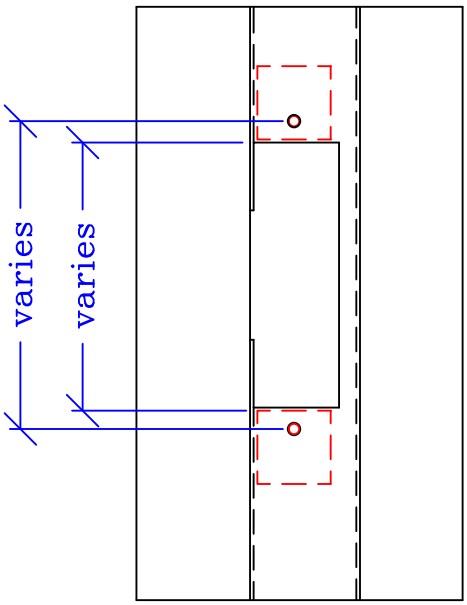
for locks





for rim devices



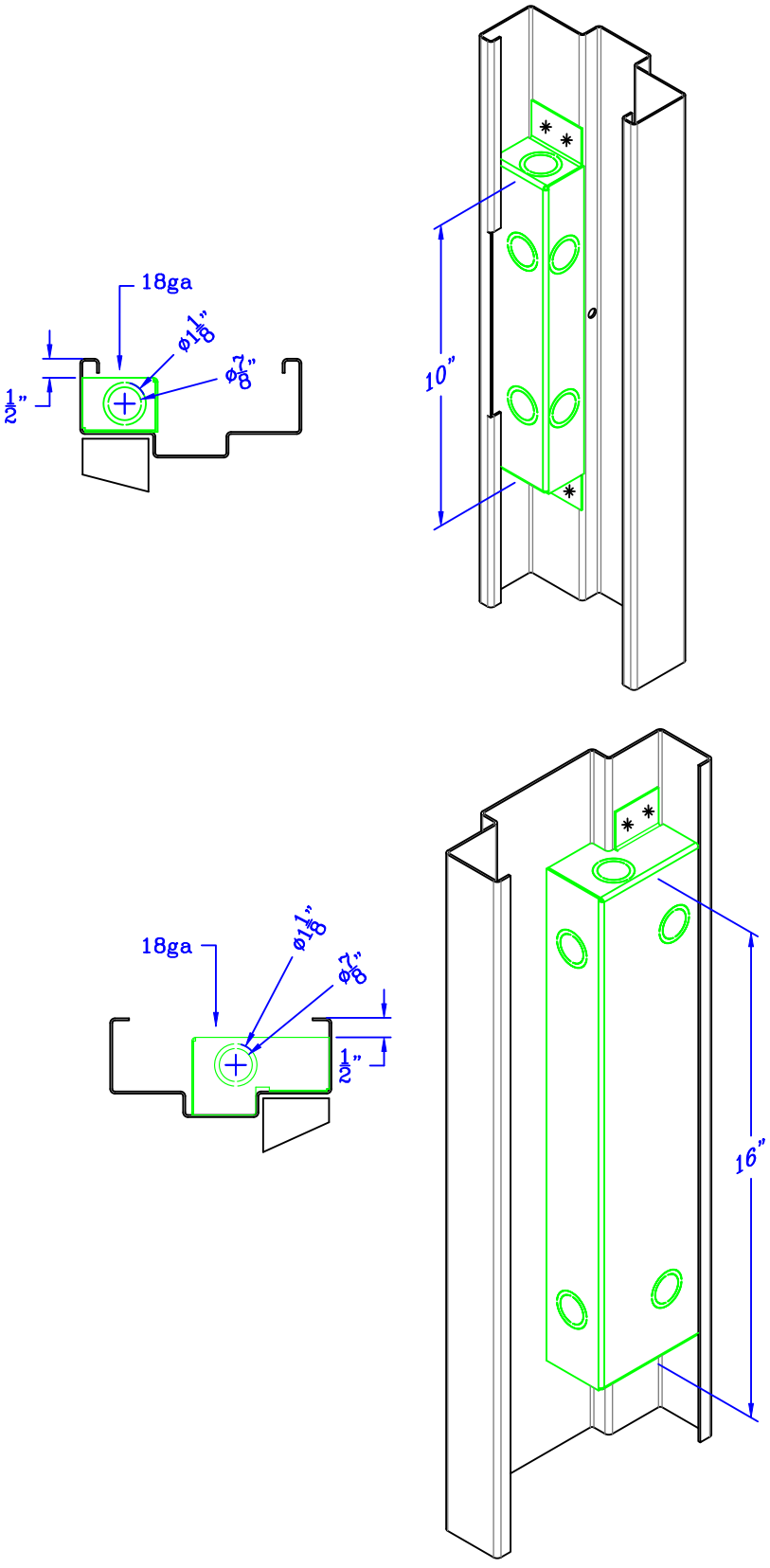


*availability per soffit's width

*manufacturer's template to be provided

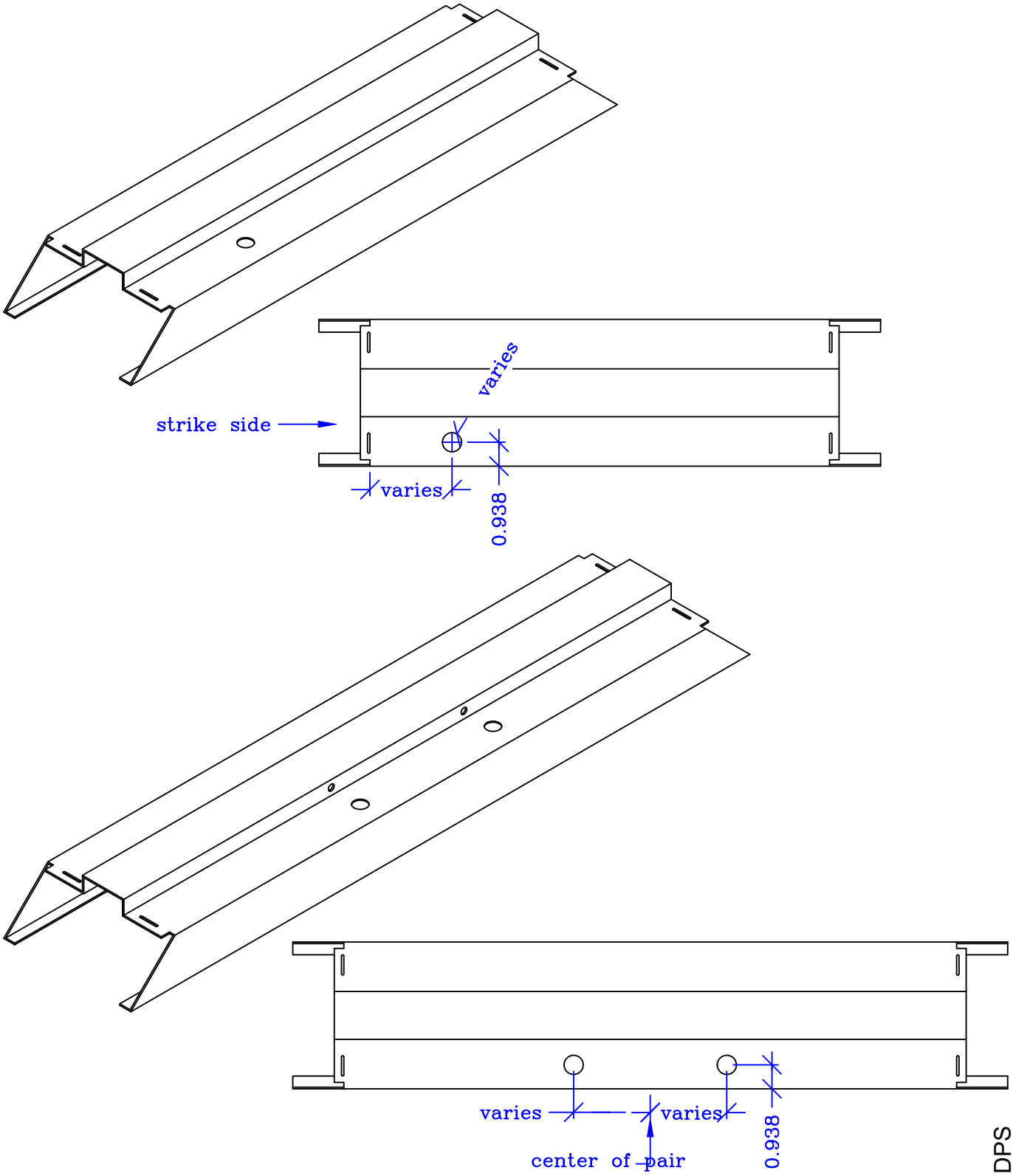
Box for electric strike with knockouts

Spot welded



For 2" face frame or more. Maximum hardware depth of 1-7/16".

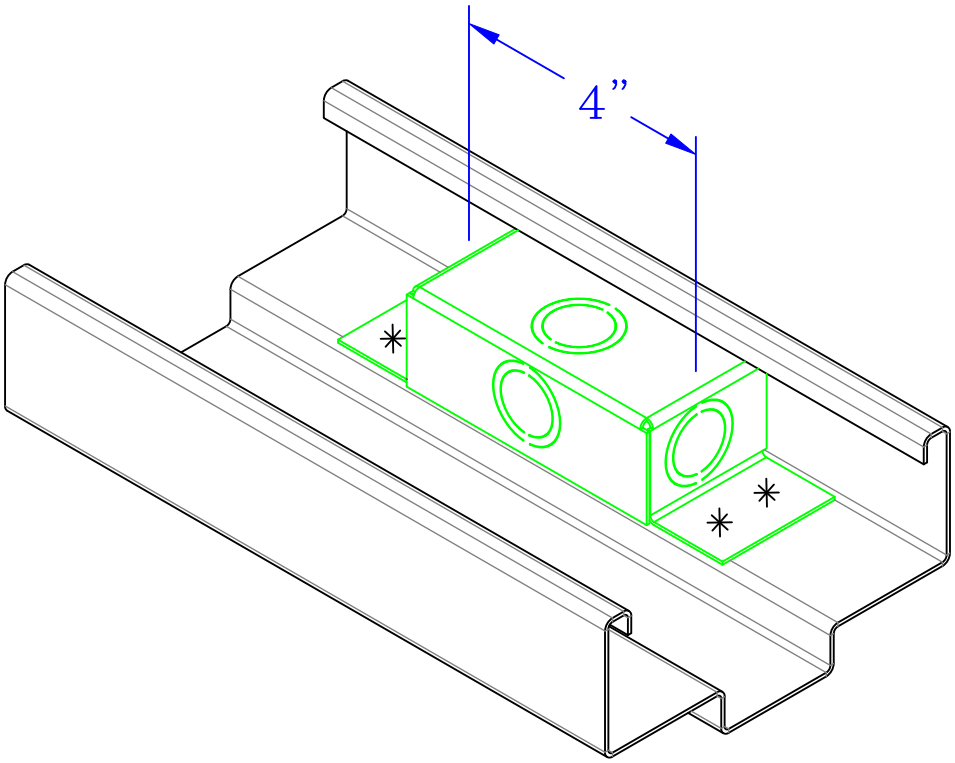
Prep. for magnetic contact, hole only at head

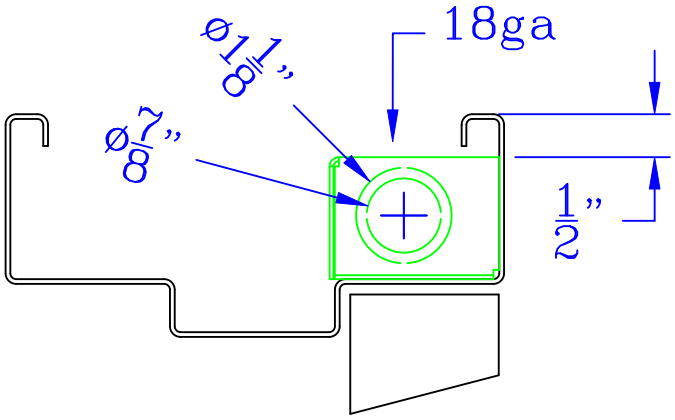


*manufacturer's template to be provided

Box for magnetic contact with knockouts

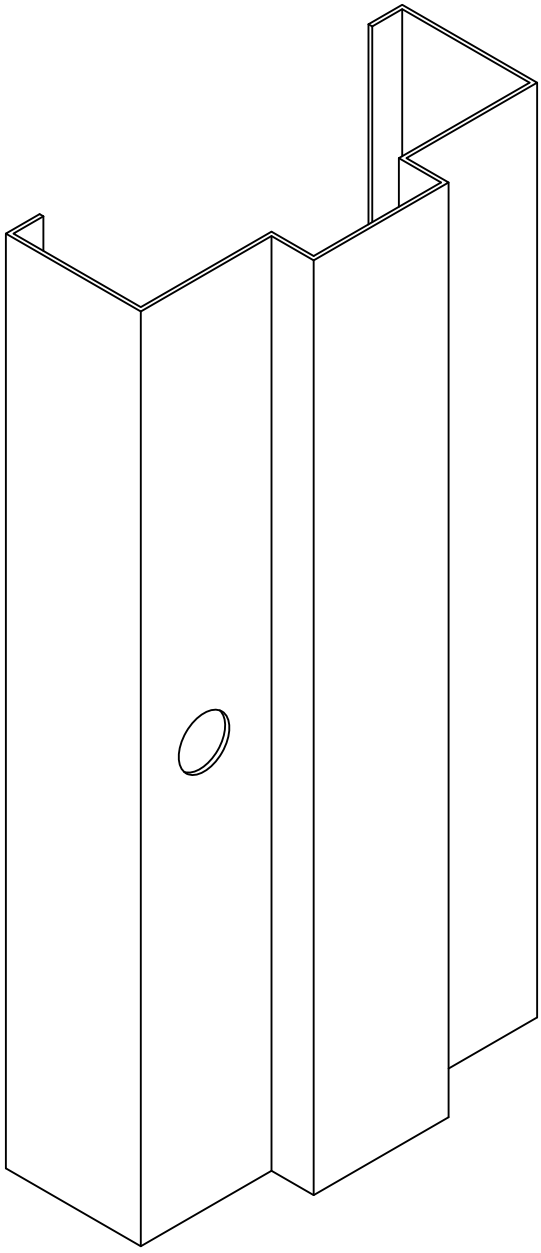
Spot welded

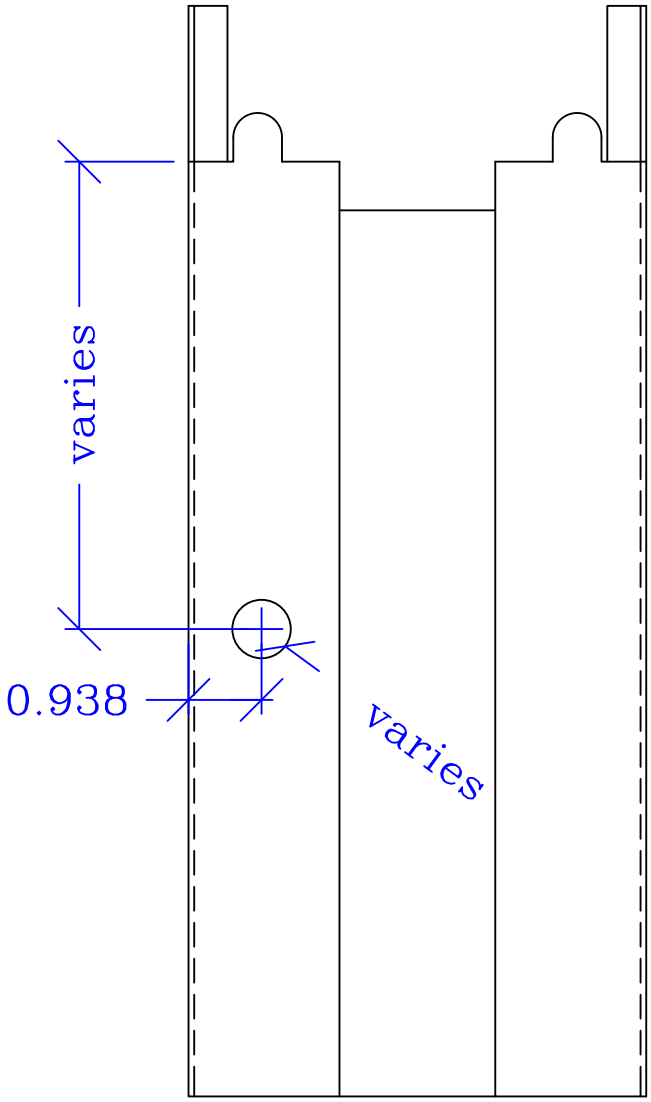




For 2" face frame or more. Maximum hardware depth of 1-7/16".

Prep. for magnetic contact, hole only at jamb

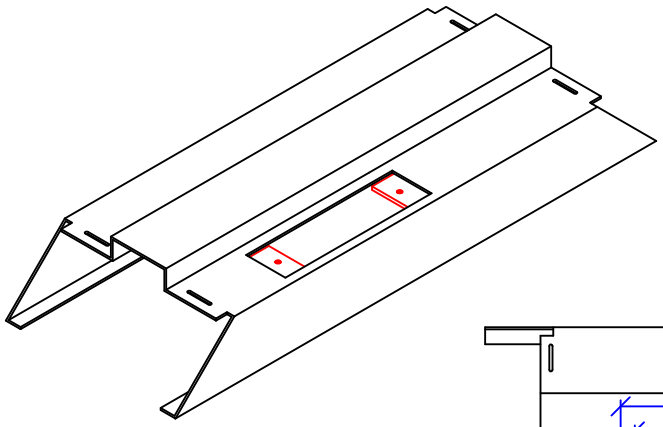


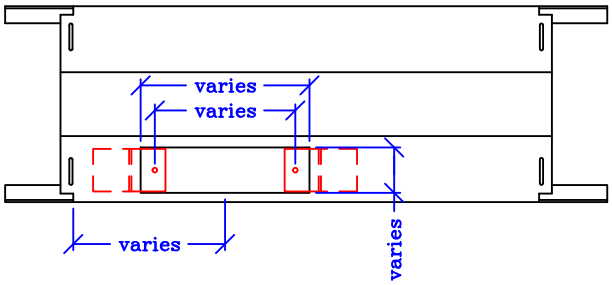


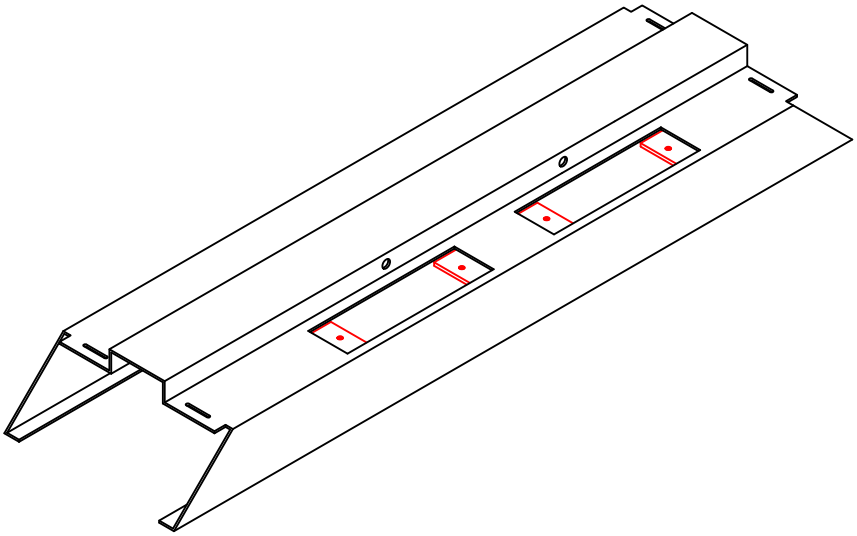
*manufacturer's template to be provided

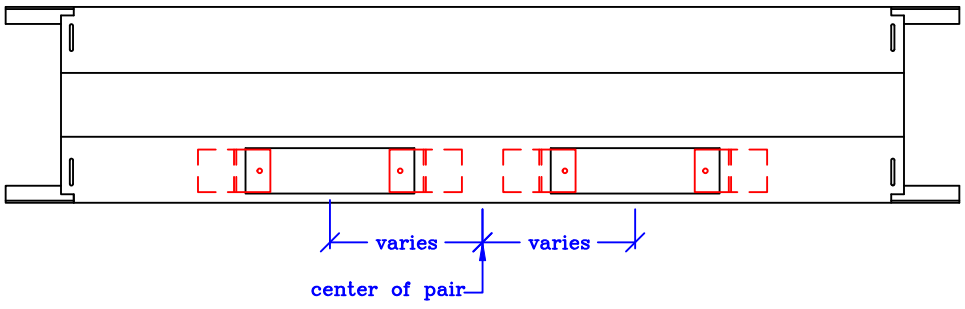
DPSJ

Prep. for magnetic contact with reinforcement, 12ga, at head



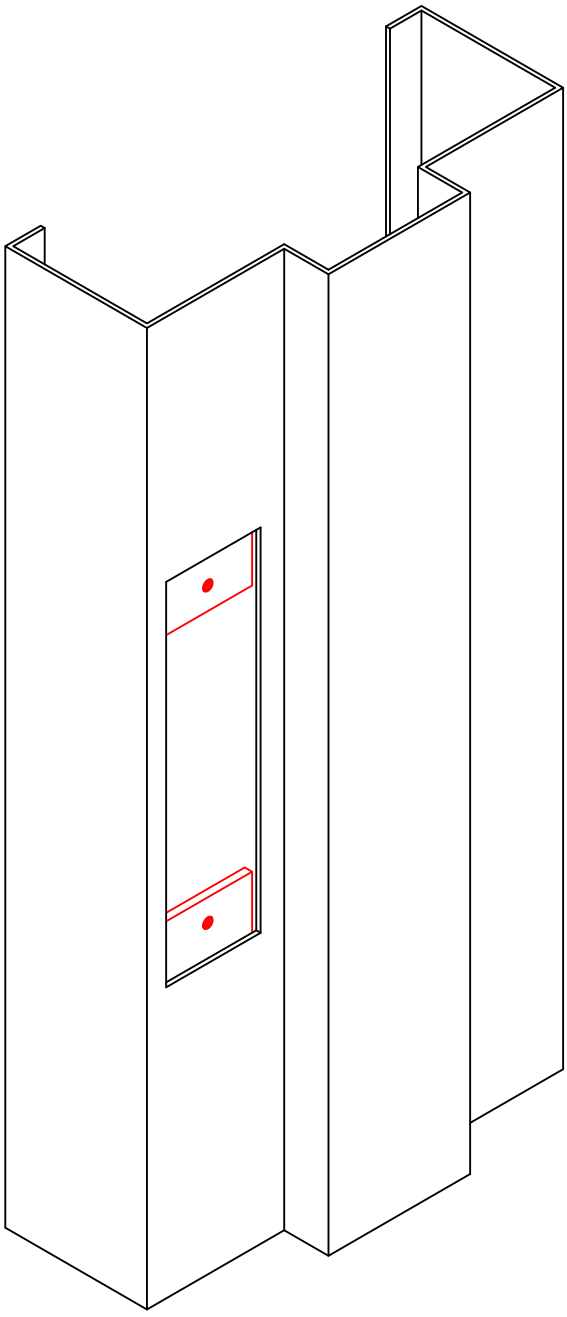


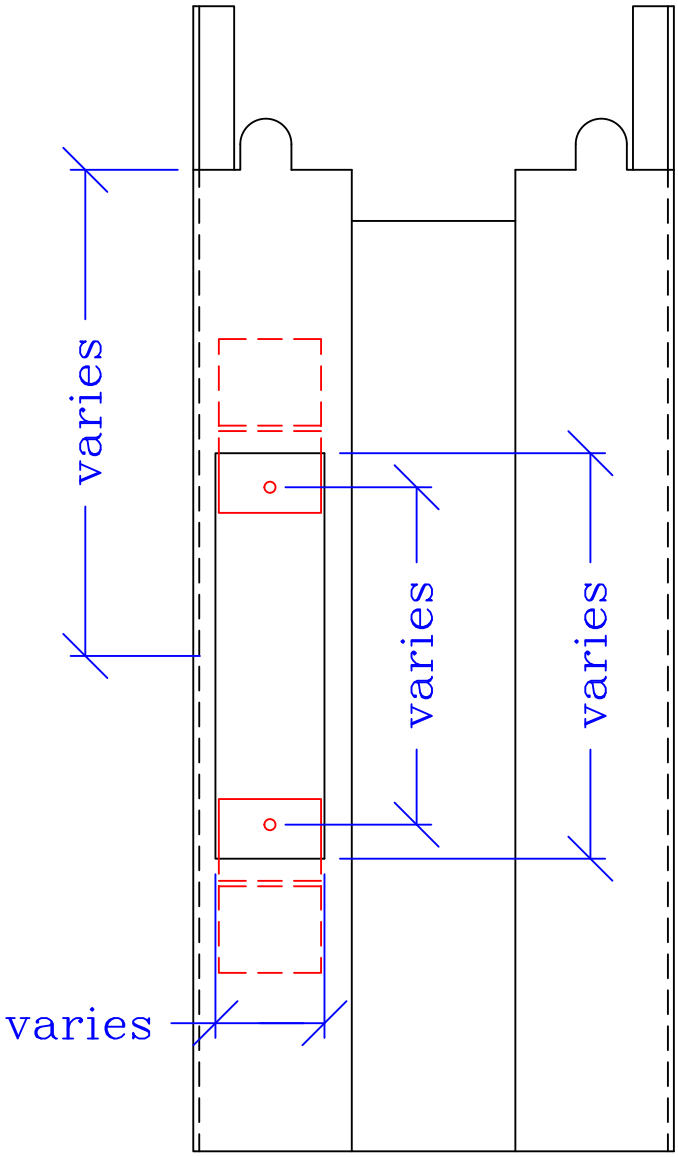




*manufacturer's template to be provided

Prep. for magnetic contact with reinforcement, 12ga, at jamb



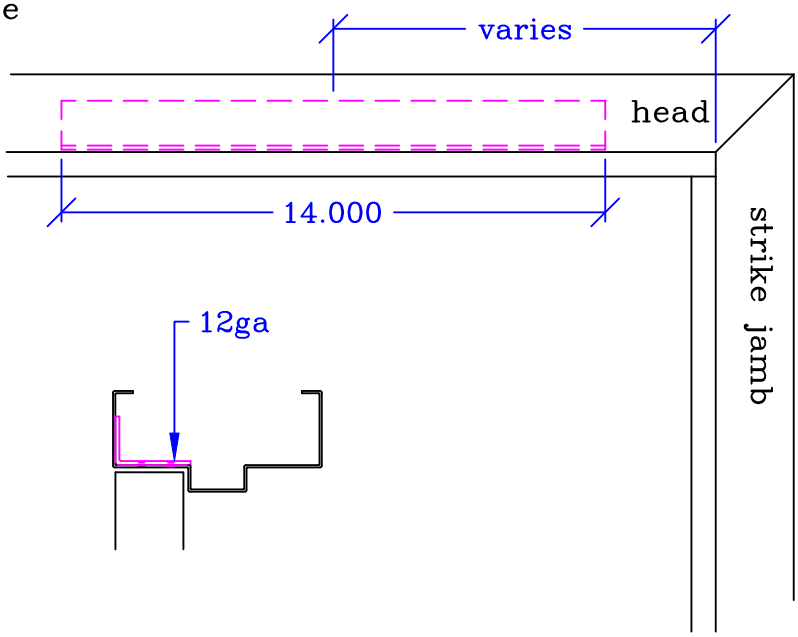


*manufacturer's template to be provided

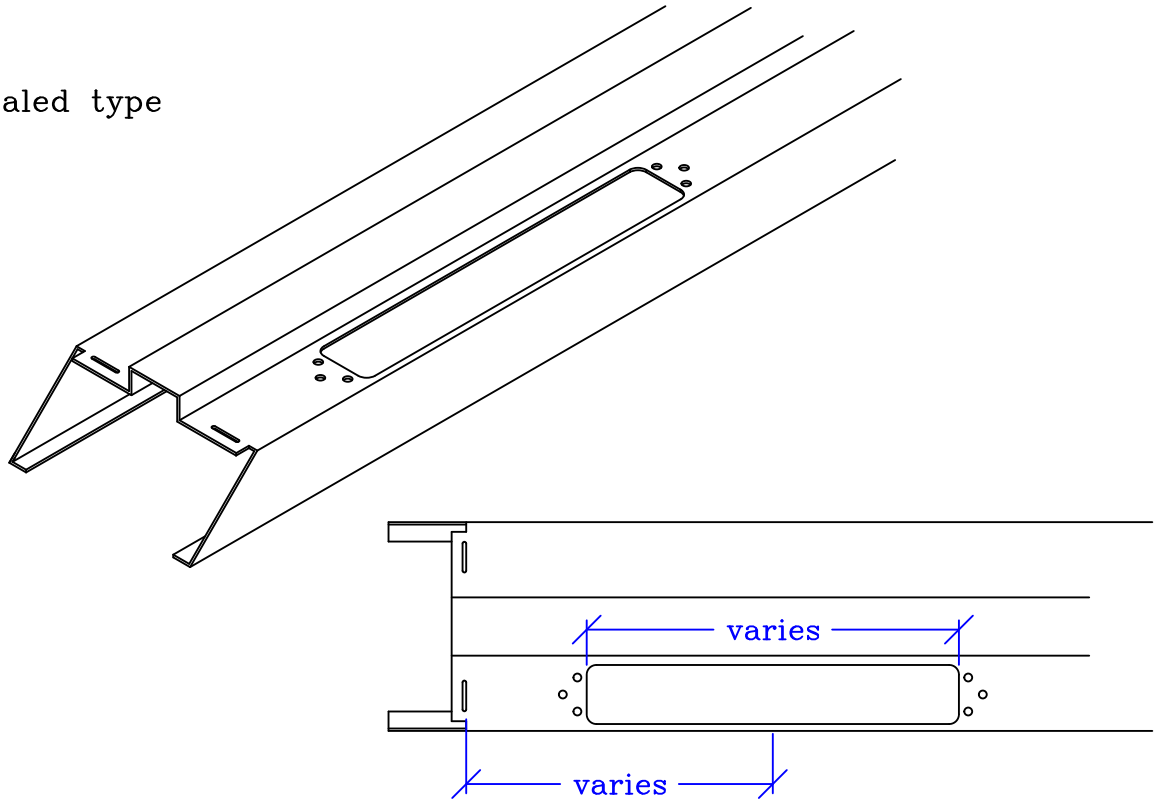
RDPSJ

Shearlock head reinforcement

Surface type



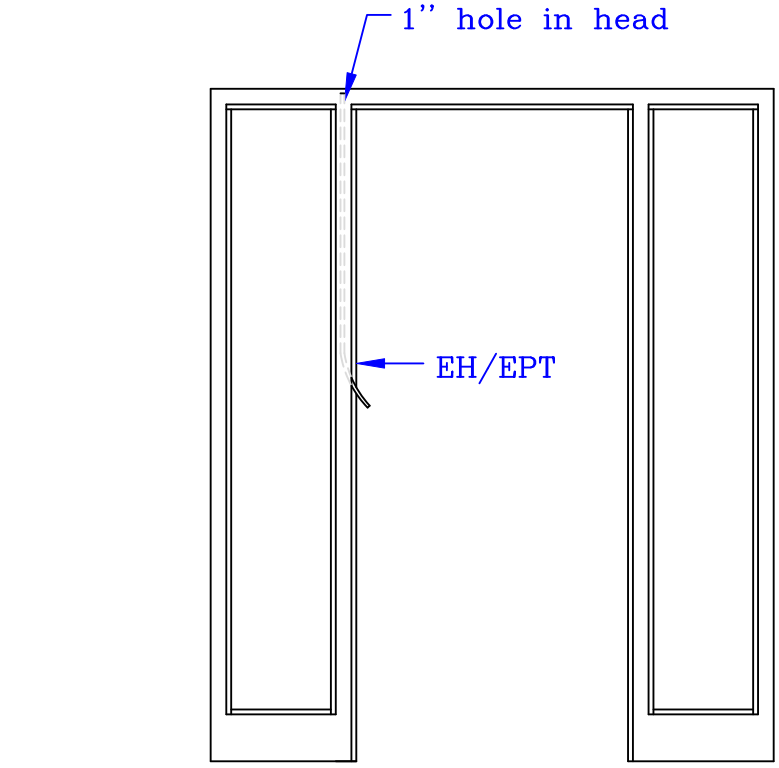
Concealed type

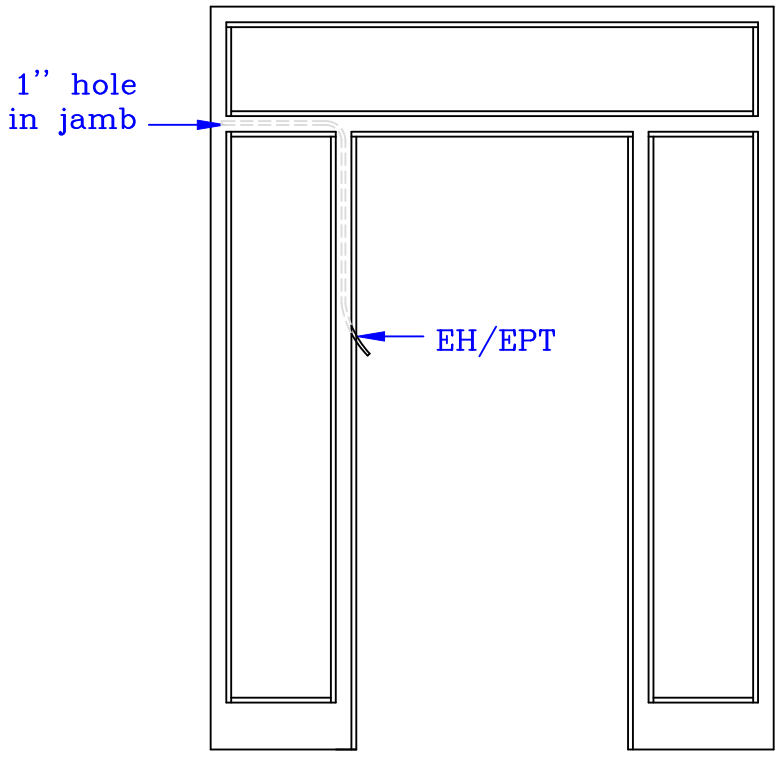


SHL

*manufacturer's template to be provided

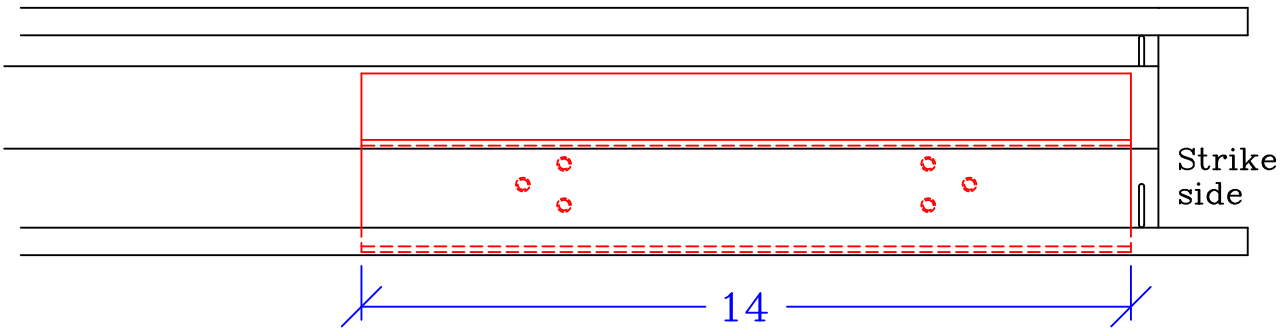
Raceway for elecric hardware

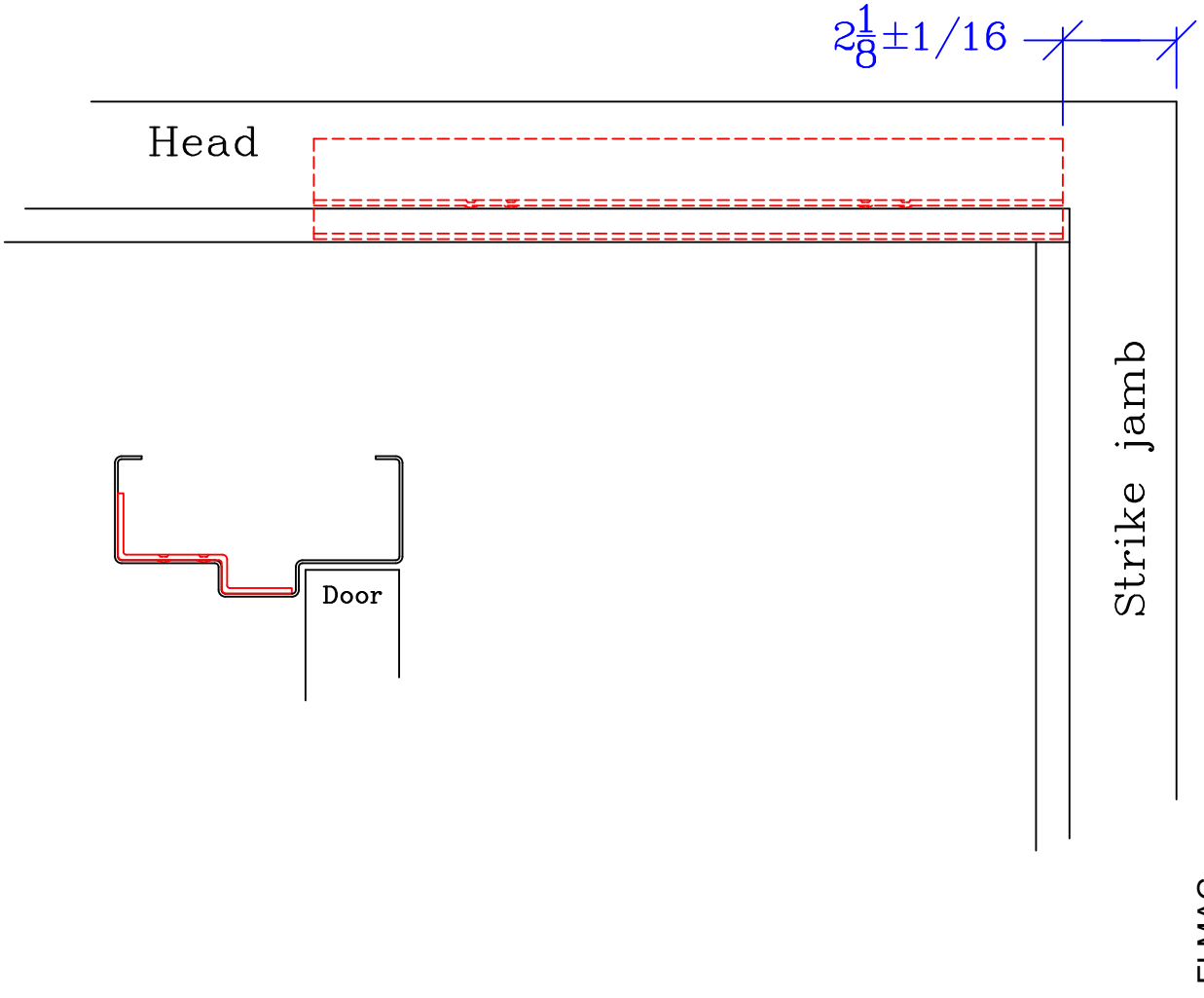




RACE

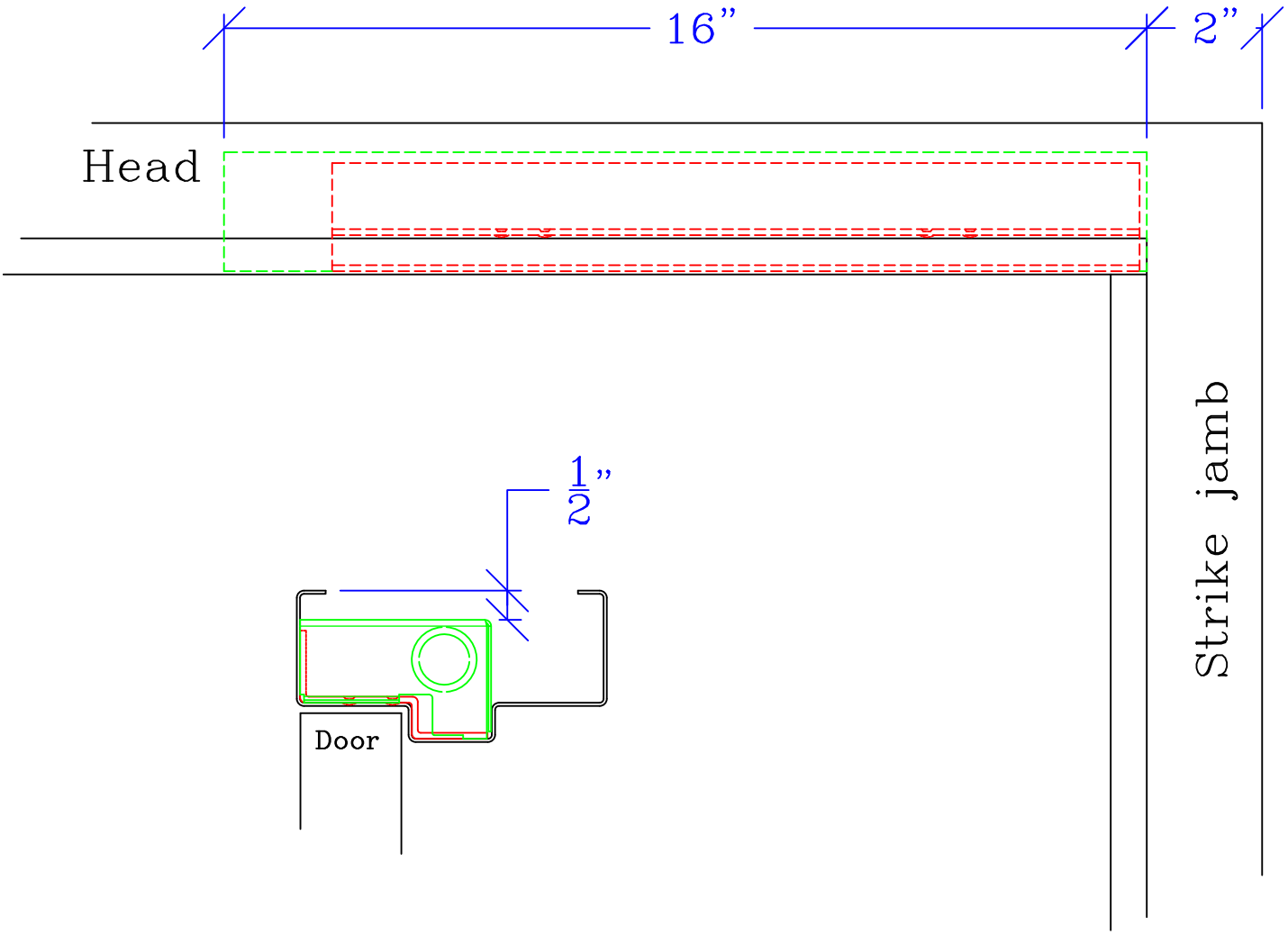
Prep. for electromagnetic lock reinforcement, 12ga





ELMAG

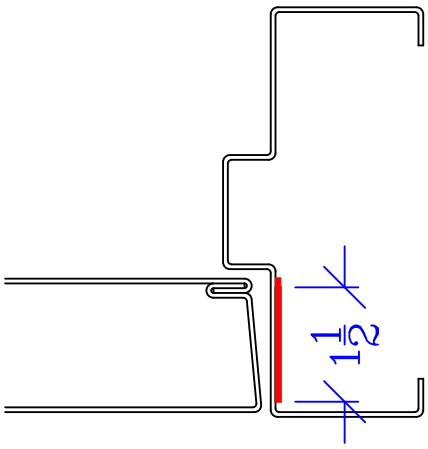
Prep. for electromagnetic lock reinforcement, 12ga, with electric box

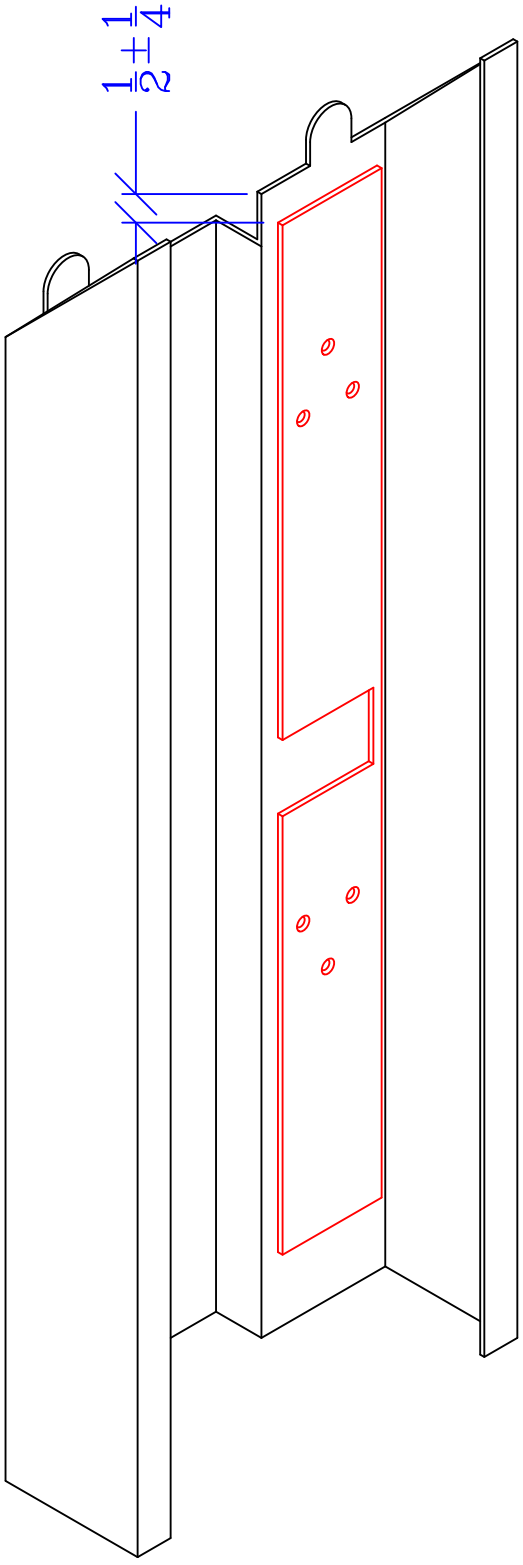


ELMAGEB

Concealed leaf continuous hinge reinforcement, 14ga

Projection welded

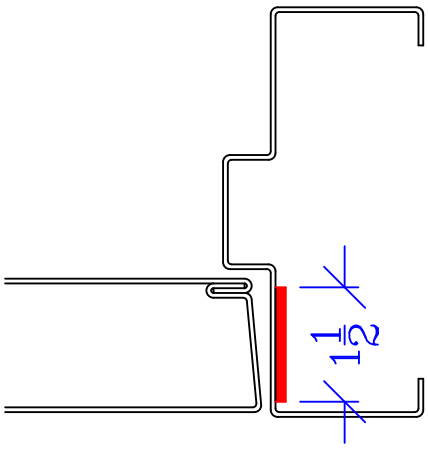


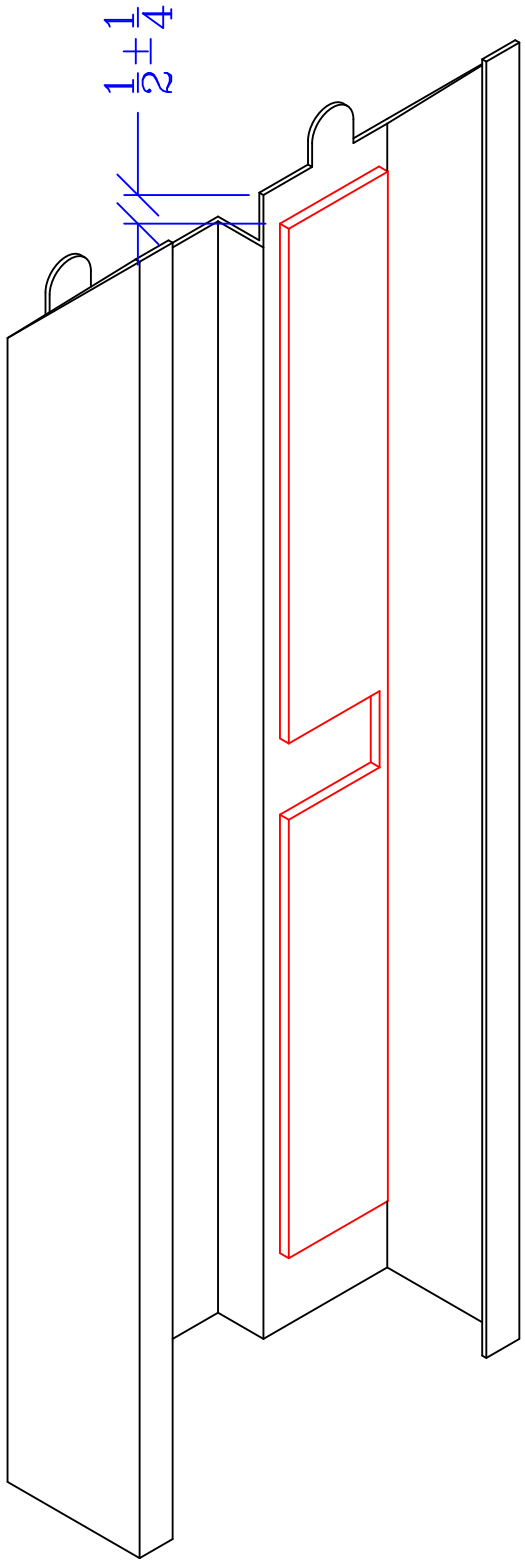


Reinforcement notched for anchors

Concealed leaf continuous hinge reinforcement, 10ga

Plug welded



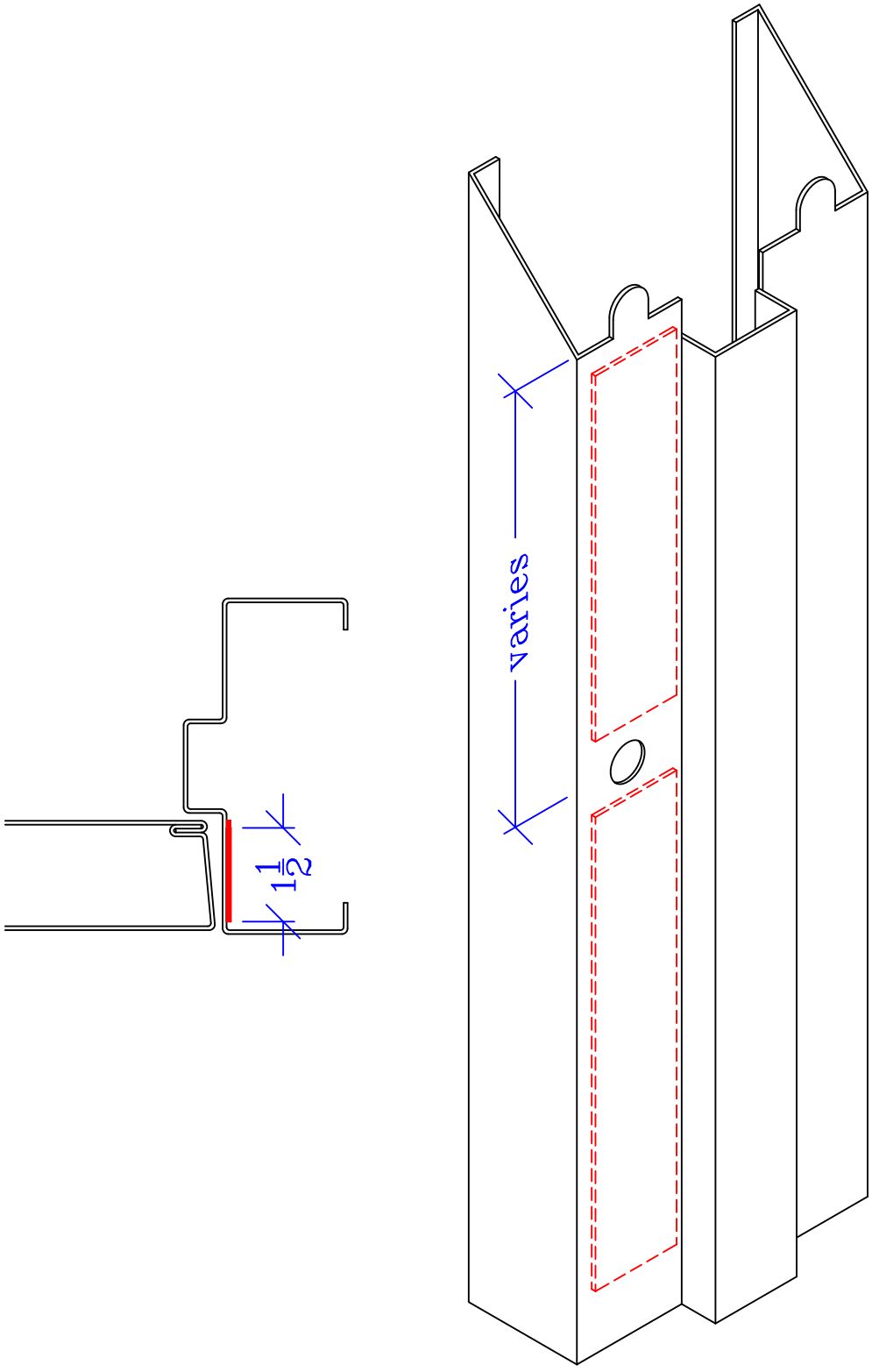


Reinforcement notched for anchors

CCH10

Concealed leaf continuous electric hinge reinforcement, 14ga

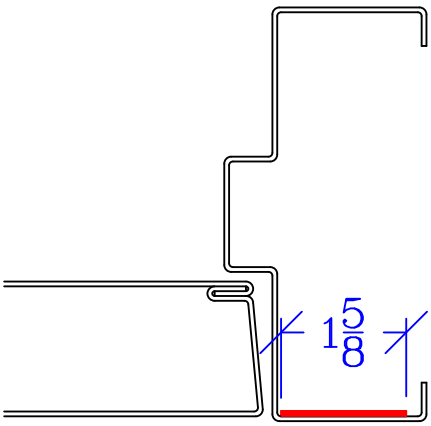
Projection welded

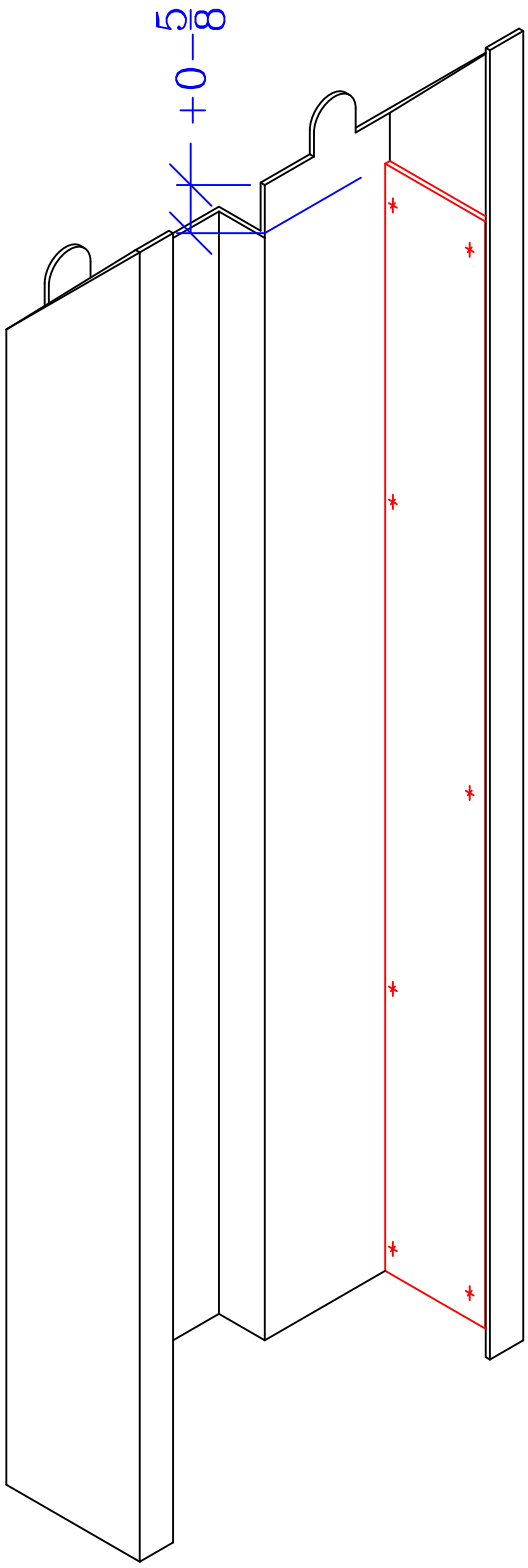


*manufacturer's template to be provided

Surface continuous hinge reinforcement, 14ga

Spot welded, 10" C/C

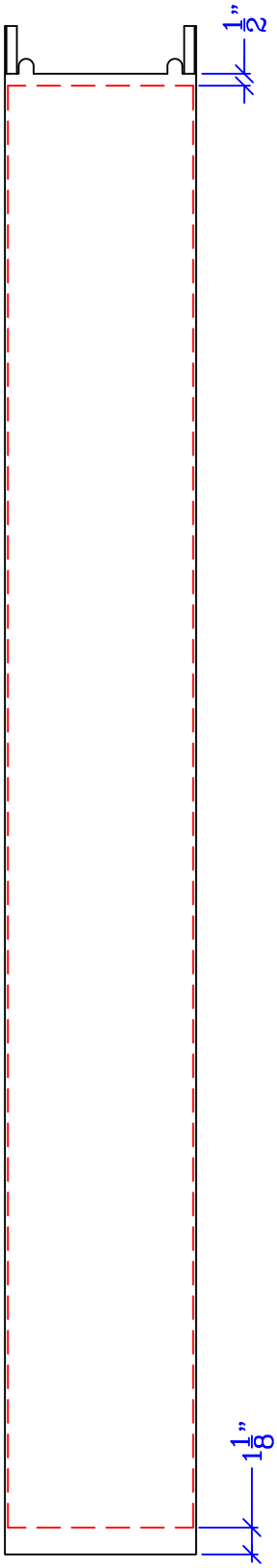


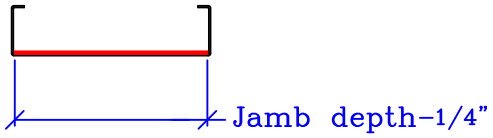


SCH

Reinforcement for double acting hinge, 12ga

Spot welded



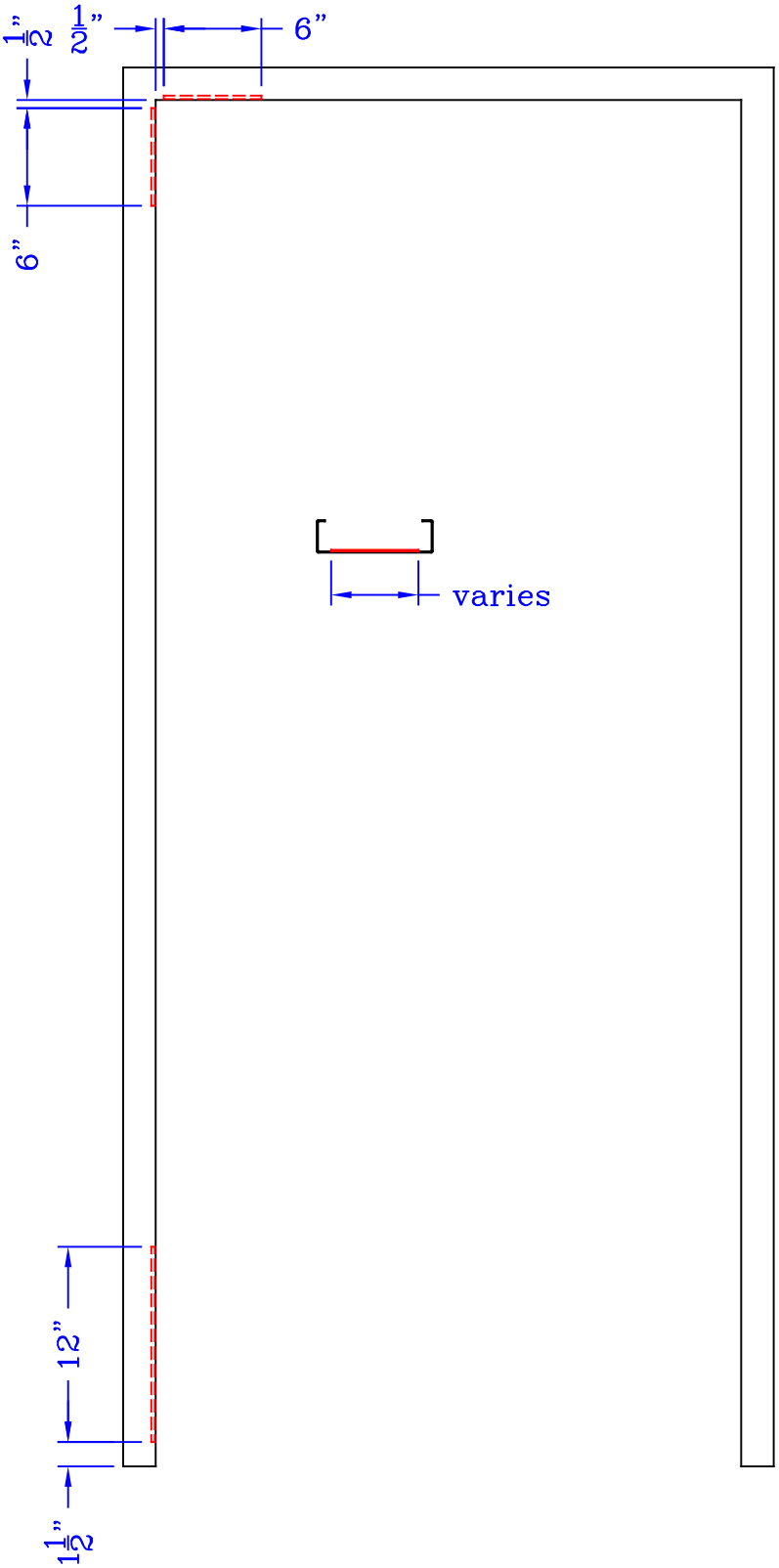


For cased open frame only

RDA

Prep. for "Eliason" pivot, 12ga

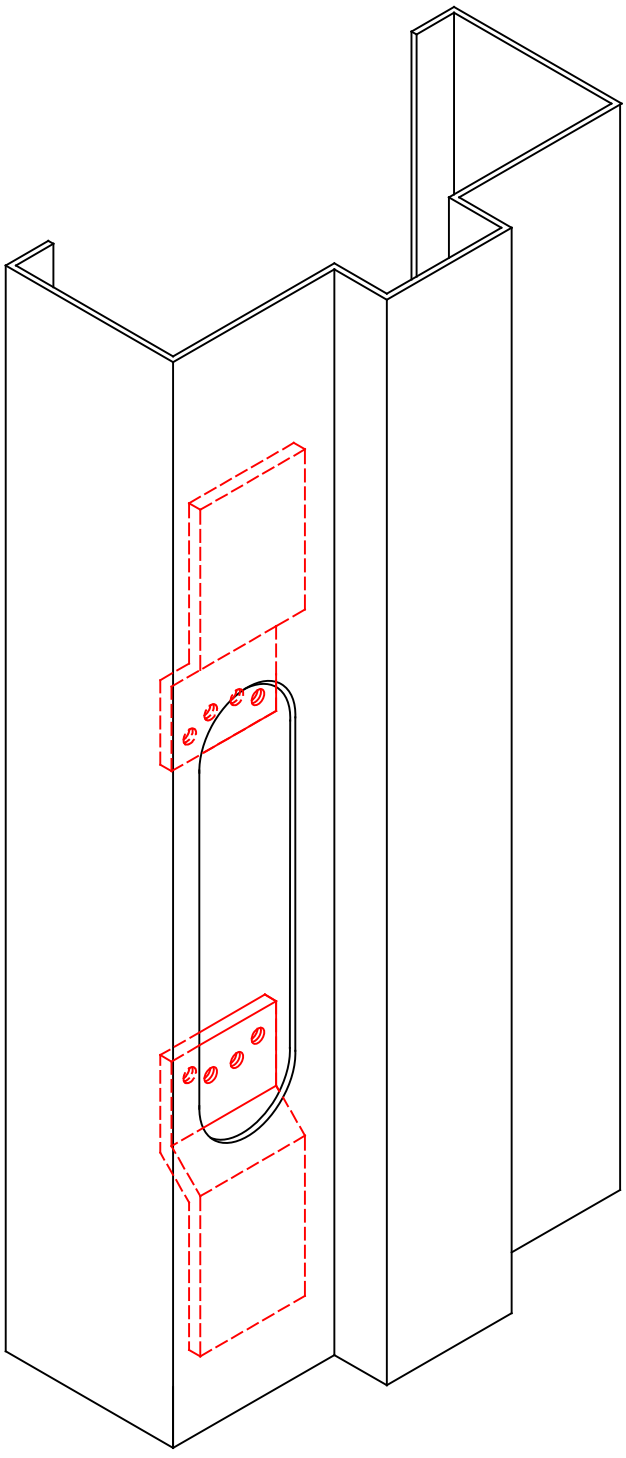
Spot welded

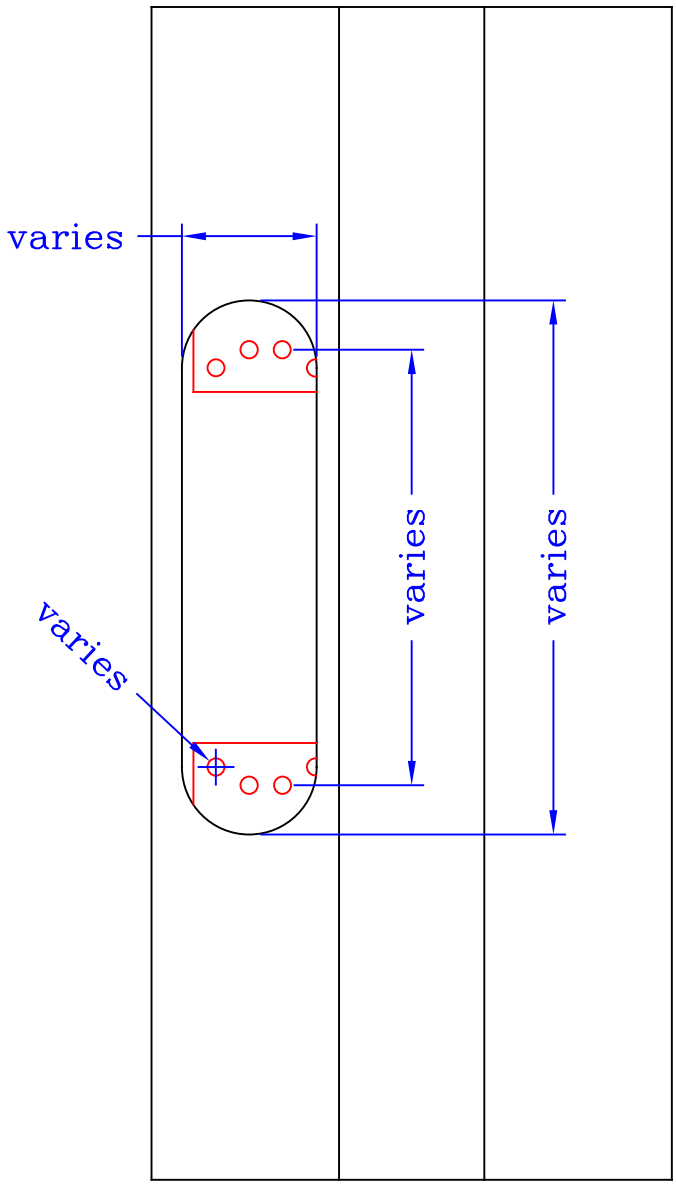


ELIAS

Invisible hinge reinforcement, 12ga

Spot welded



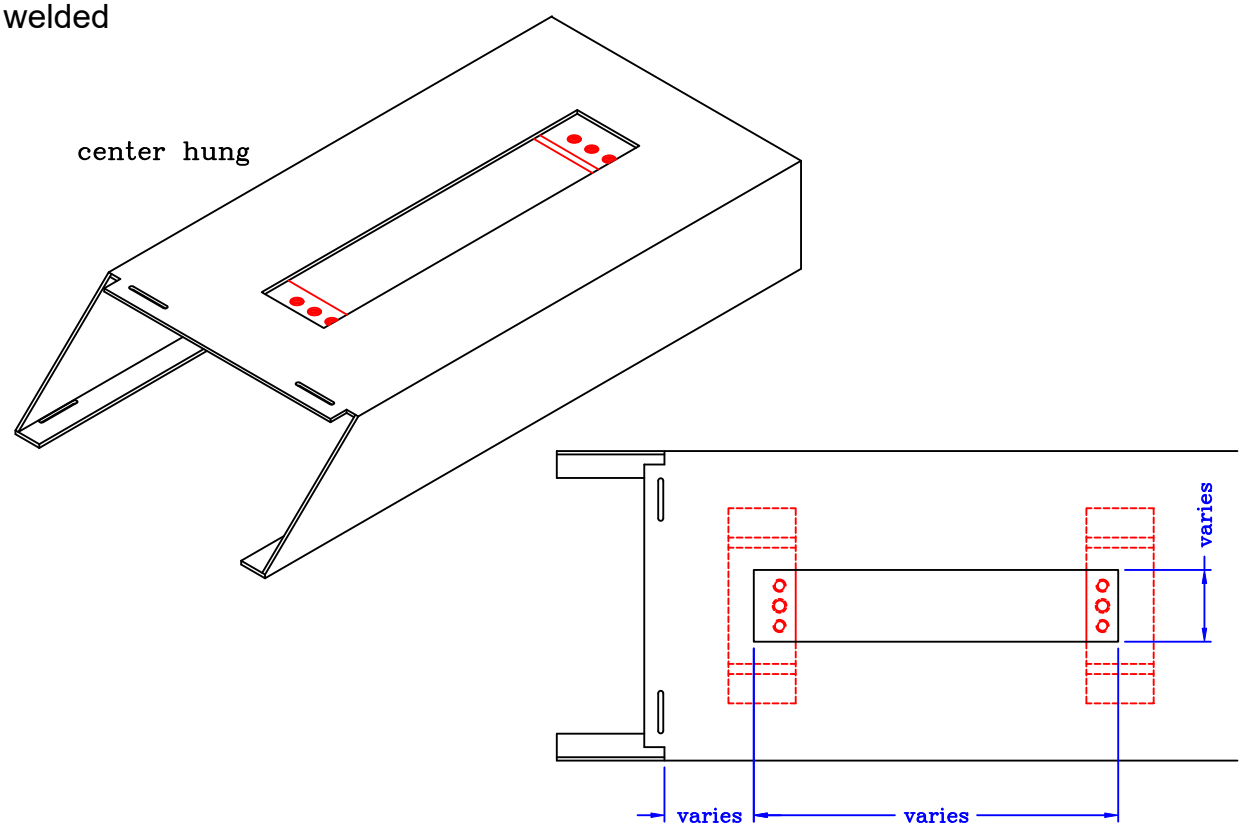


*manufacturer's template to be provided

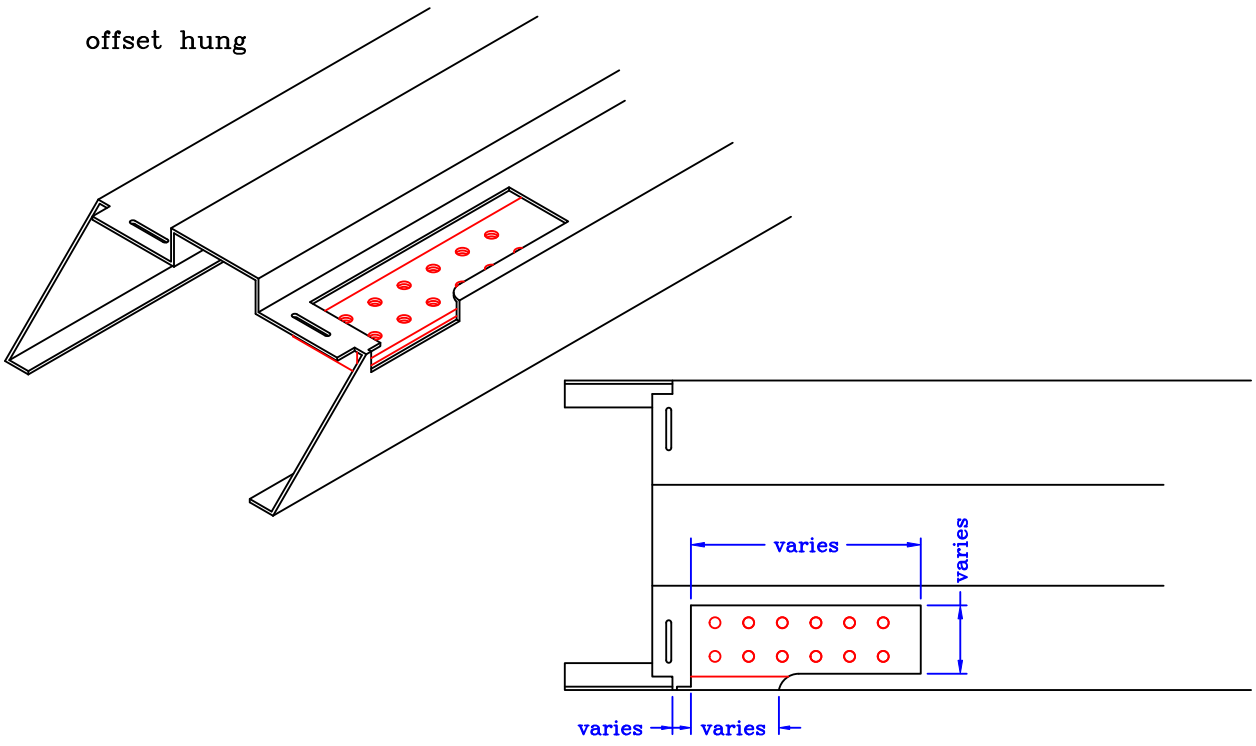
Prep. for top pivot, 10ga

Spot welded

center hung



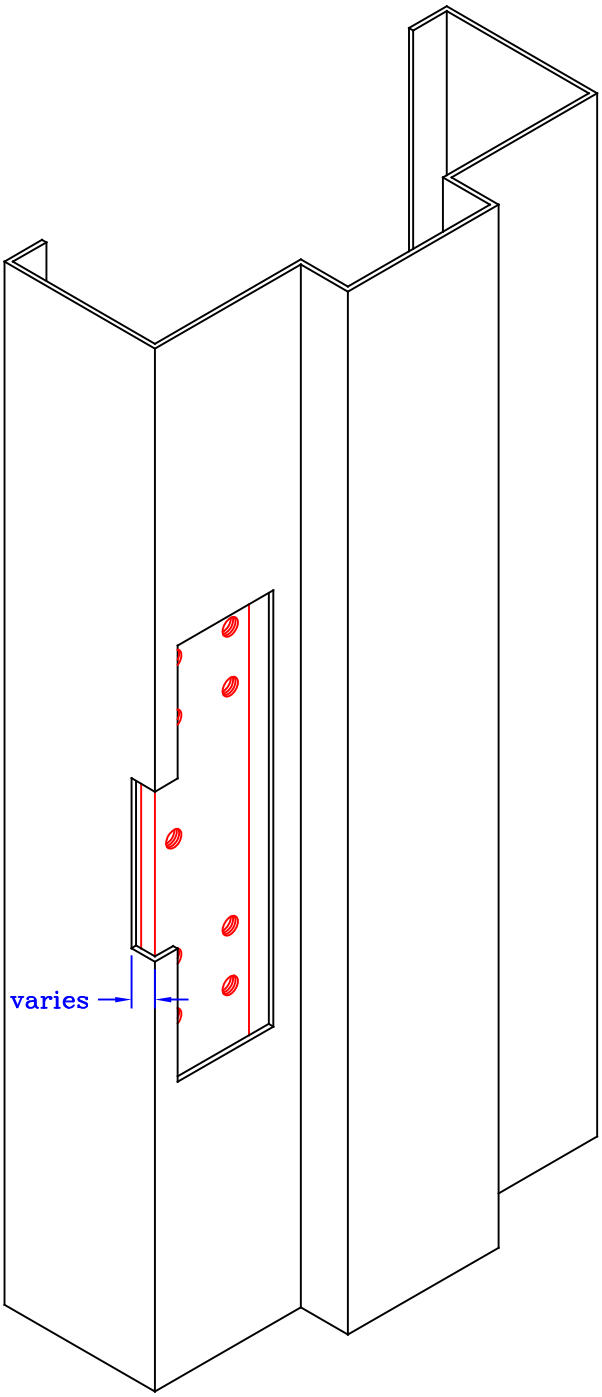
offset hung

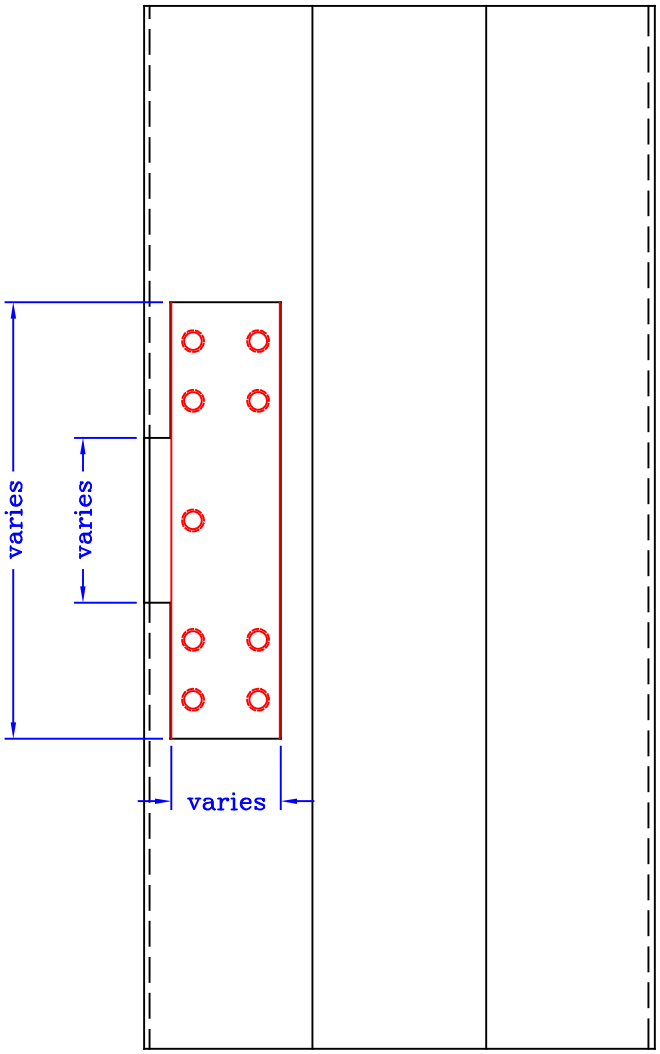


*manufacturer's template to be provided

Prep. for intermediate pivot, 7ga

Spot welded

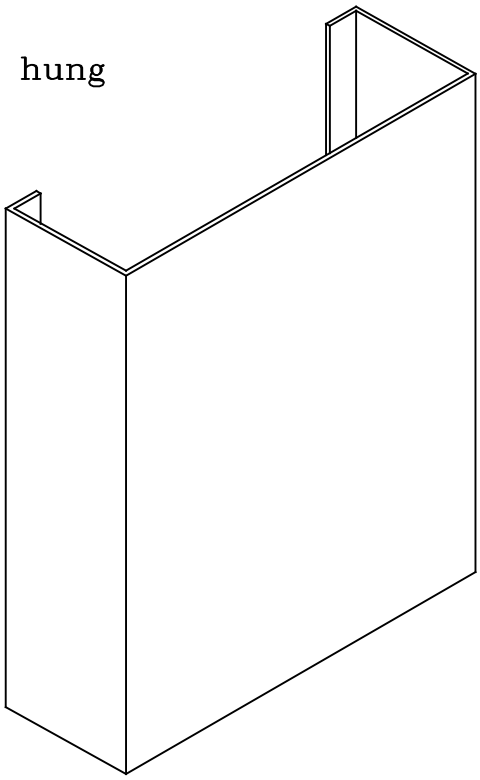


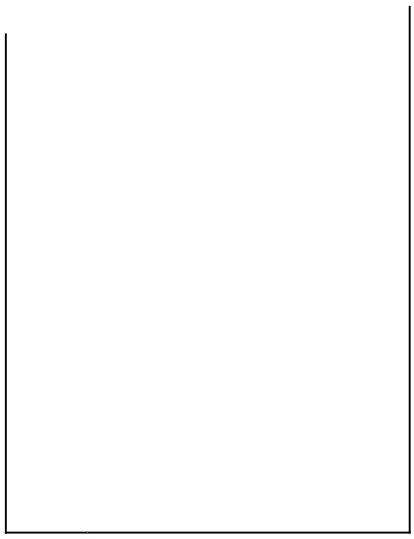


*manufacturer's template to be provided

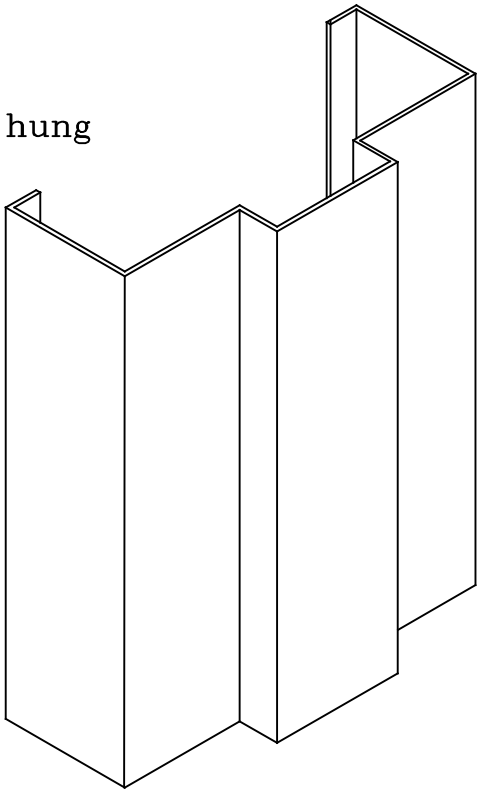
Prep. for bottom pivot on floor

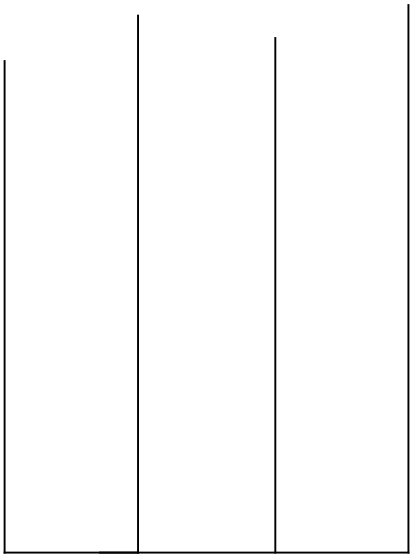
center hung





offset hung



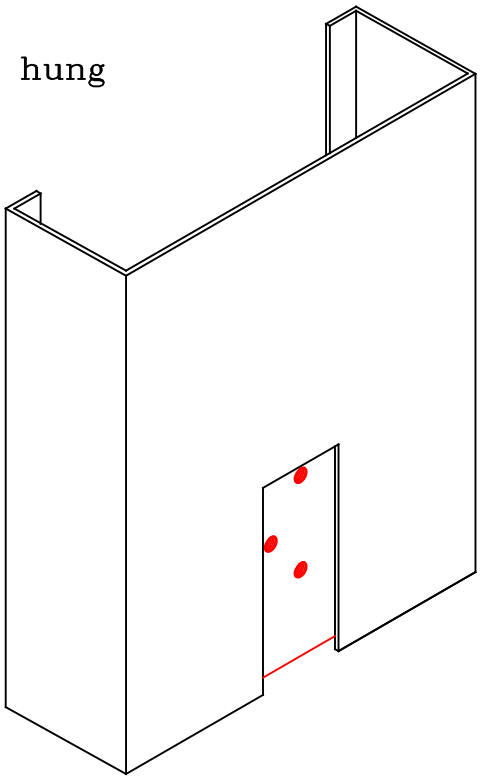


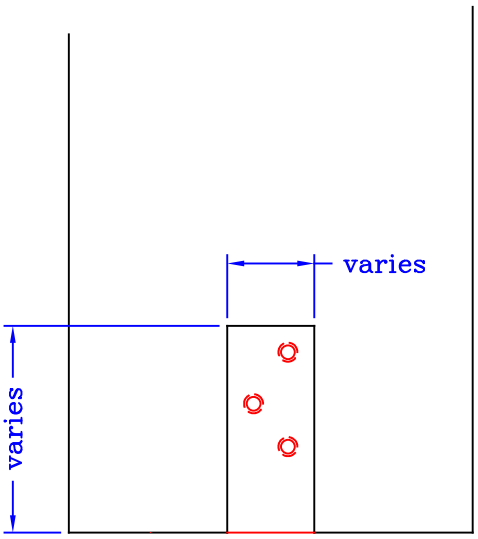
BPIVF

Prep. for bottom pivot in jamb, 10ga

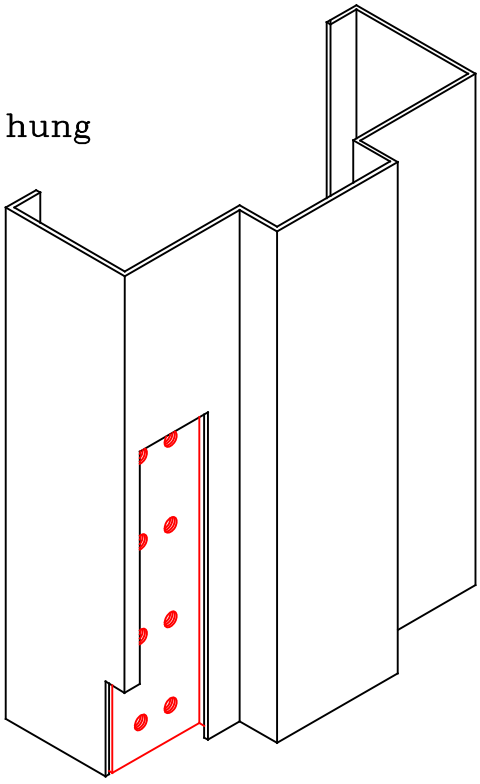
Spot welded

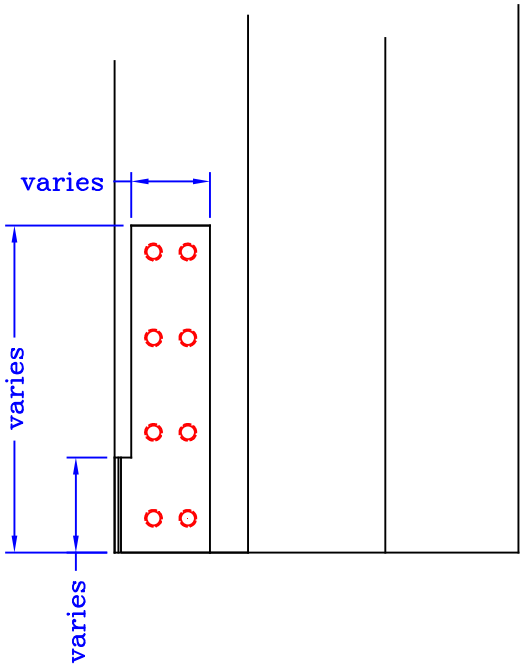
center hung





offset hung

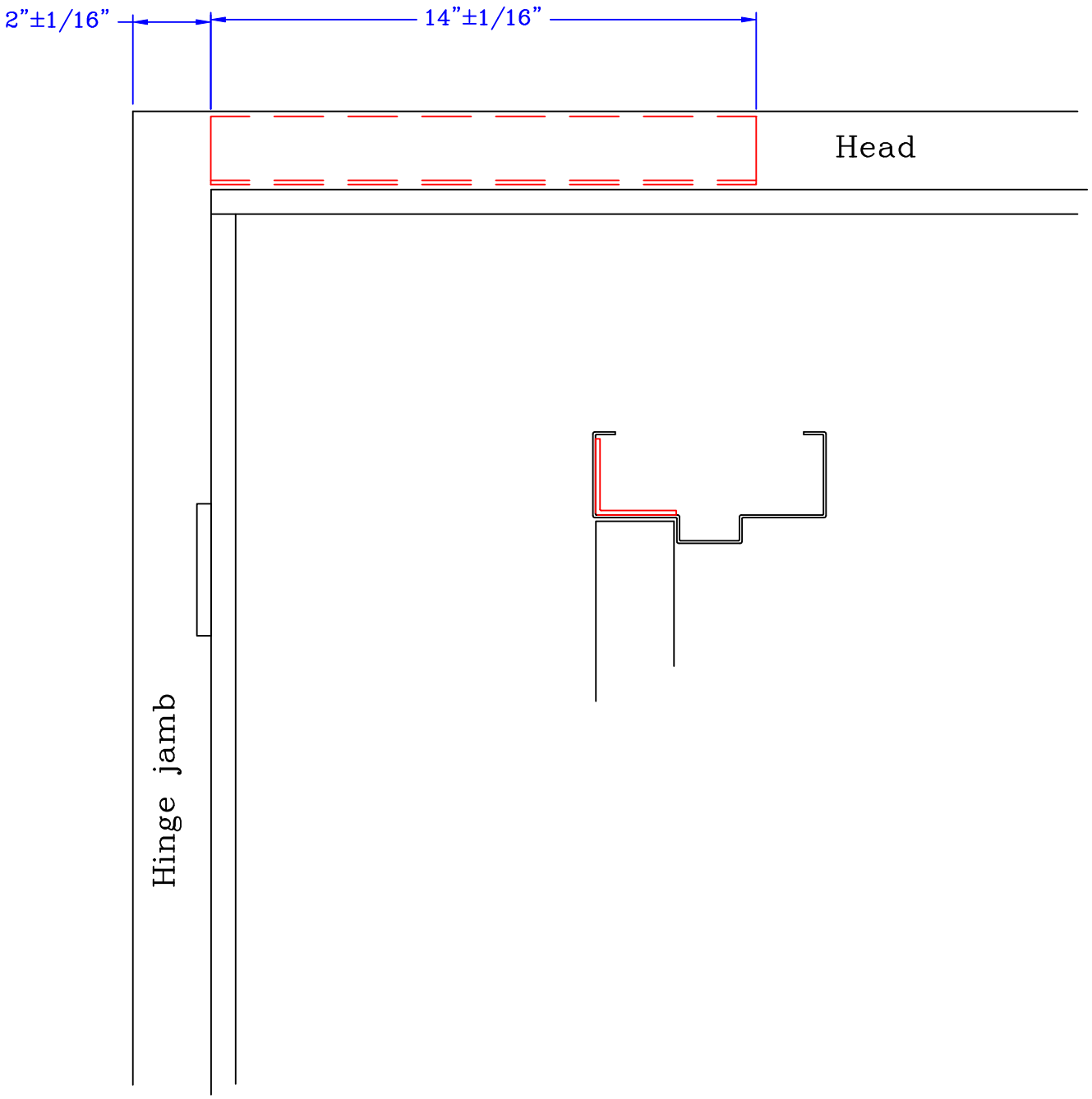




*manufacturer's template to be provided

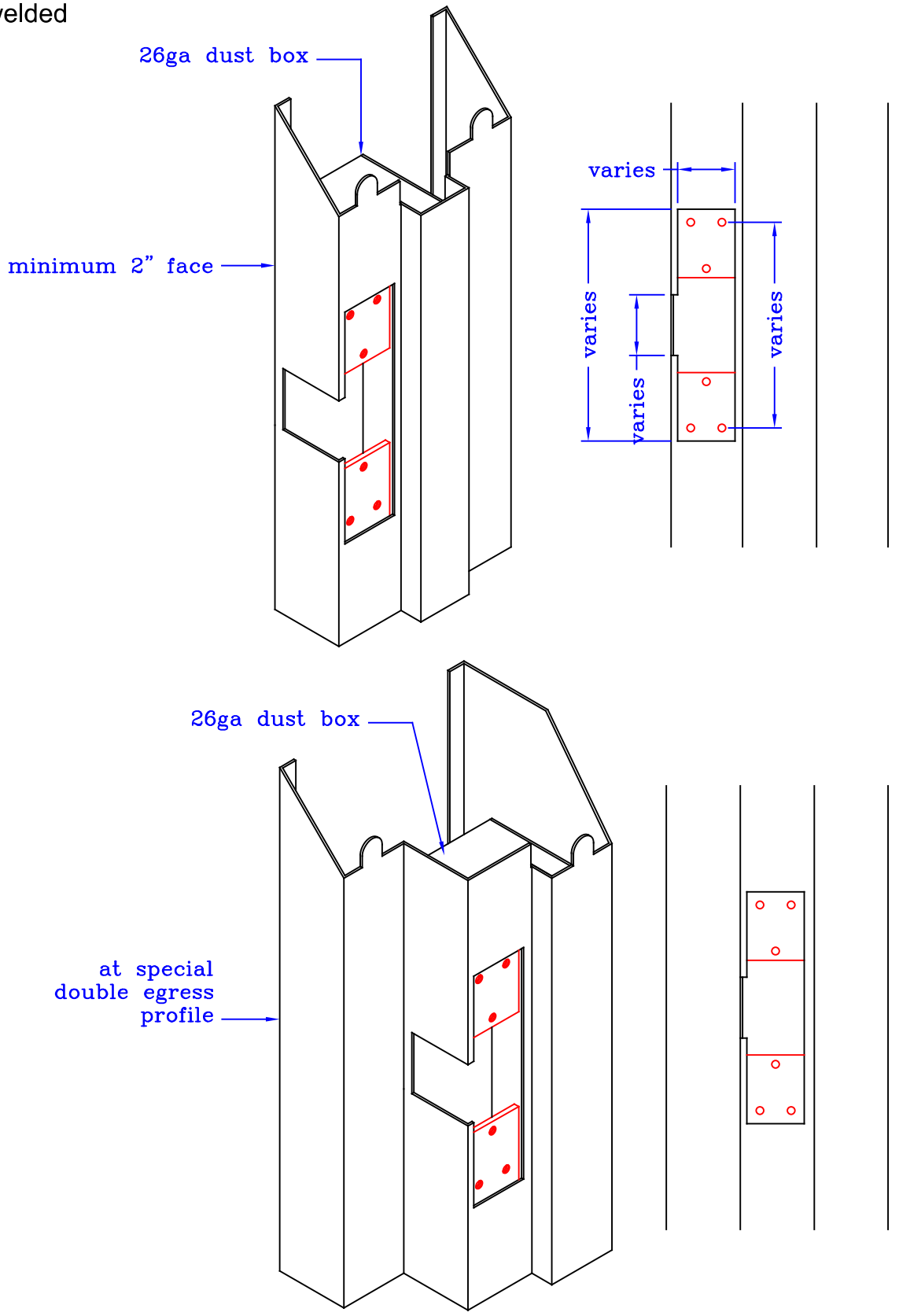
Reinforcement for surface corner pivot, 12ga

Projection welded



Pocket pivot reinforcements, 10ga

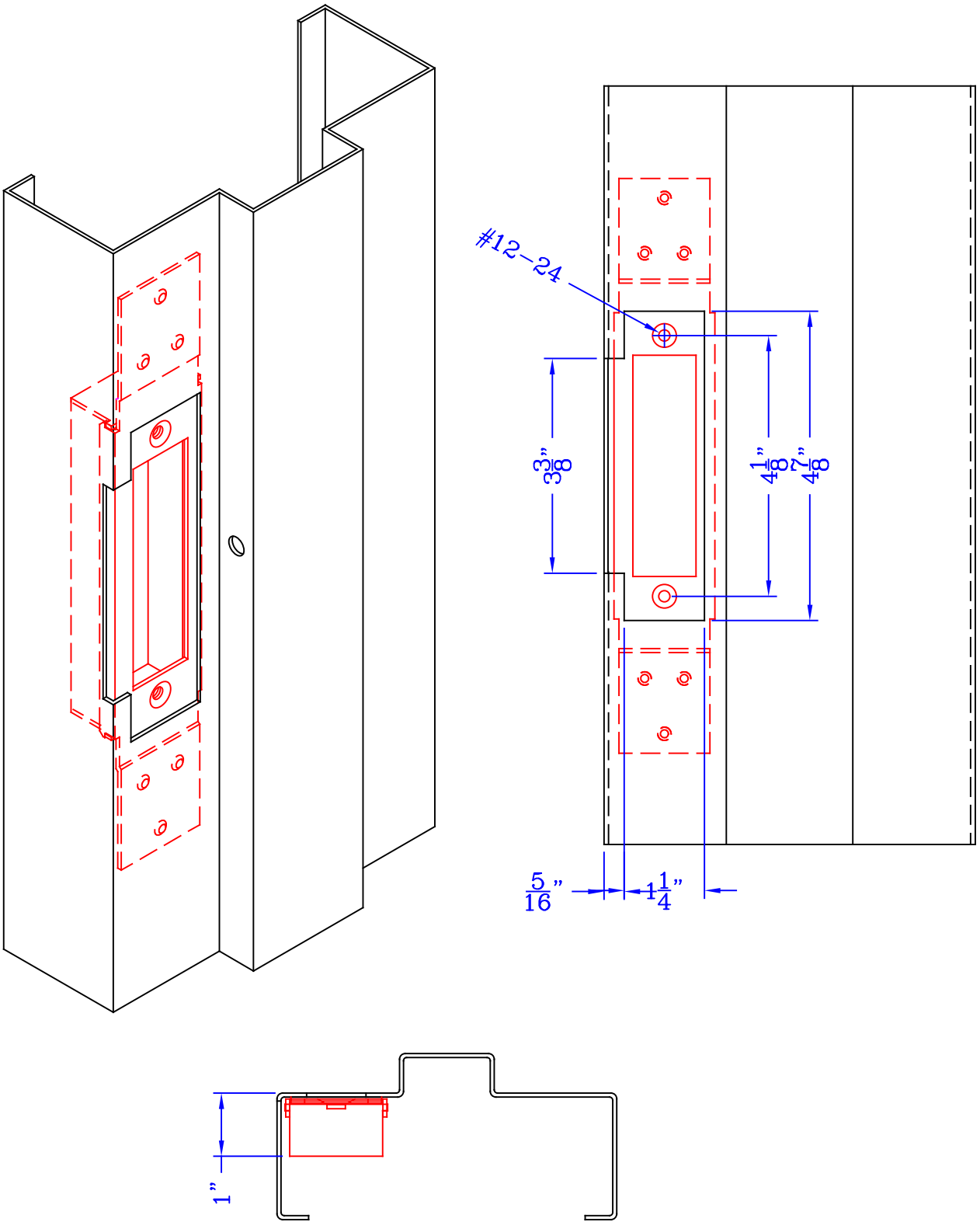
Spot welded



*manufacturer's template to be provided

Standard ANSI 4 7/8" strike reinforcement, 16ga

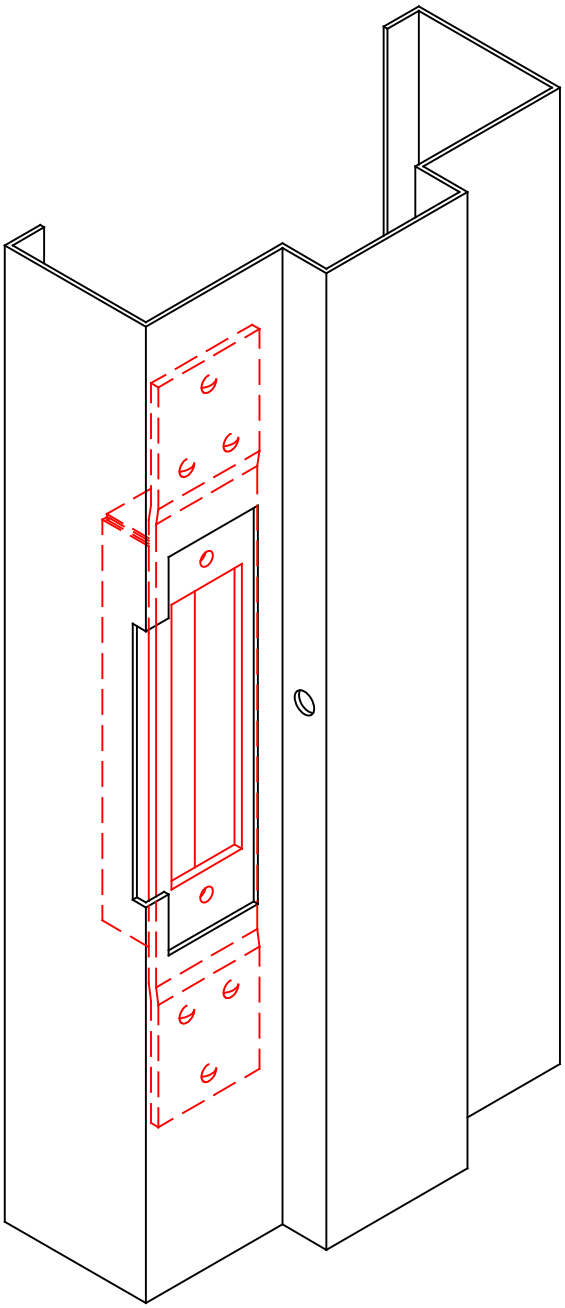
Projection welded

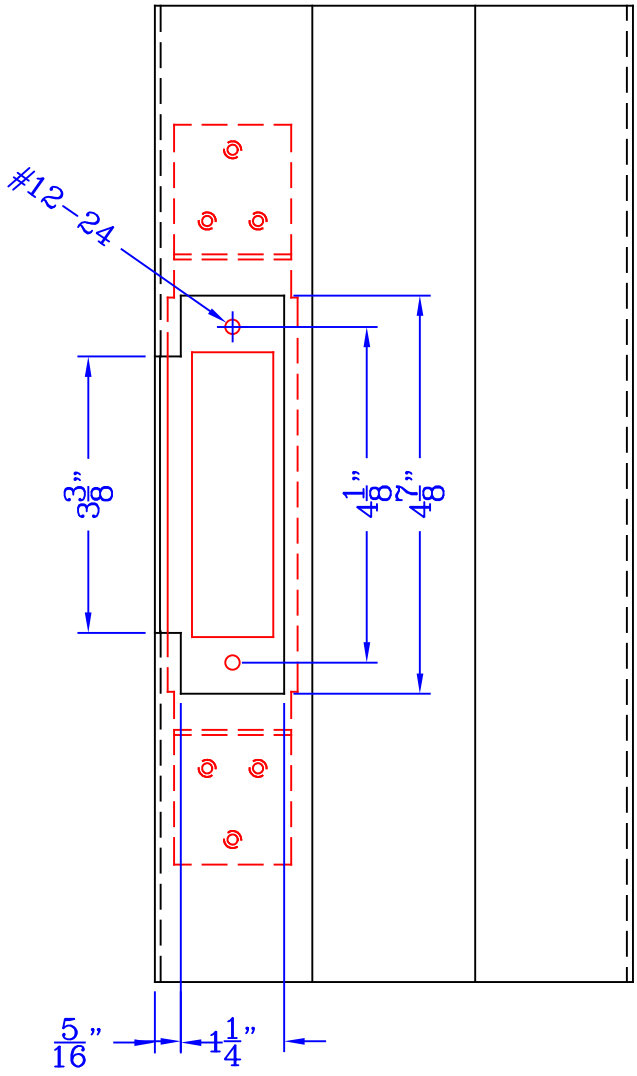


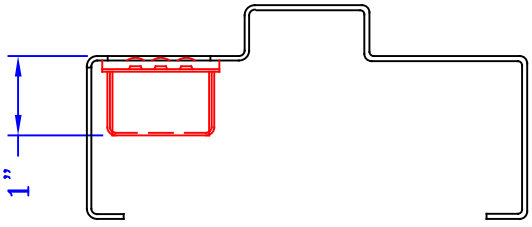
Tapped extruded holes per ANSI/SDI A250.6.

Standard ANSI 4 7/8" strike reinforcement, 12ga

Projection welded



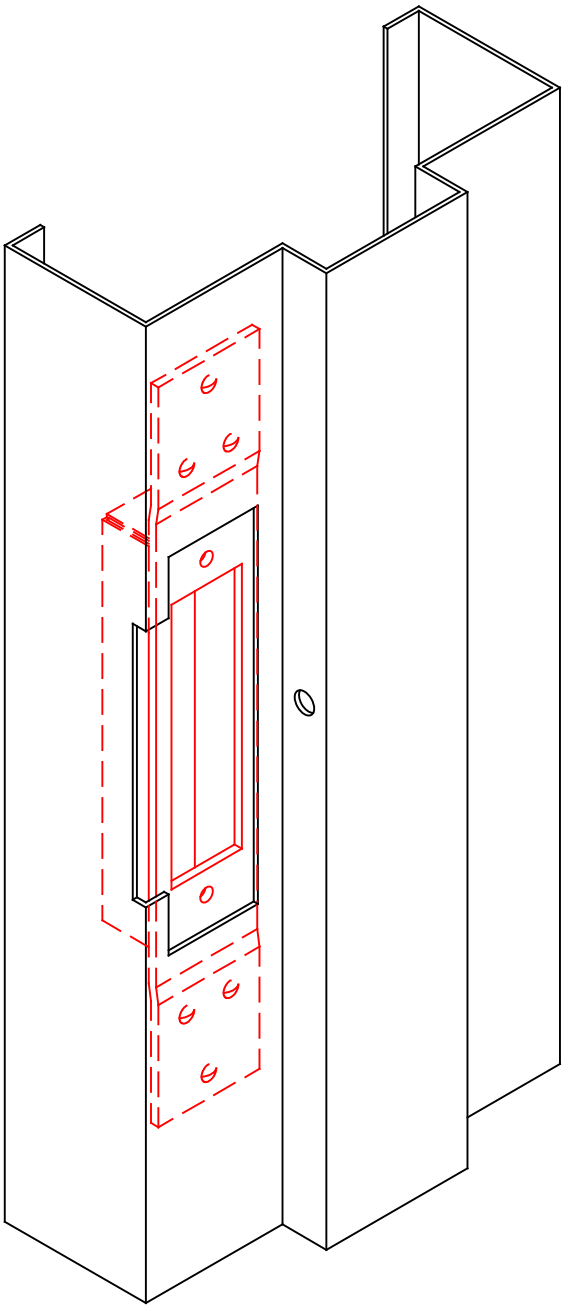


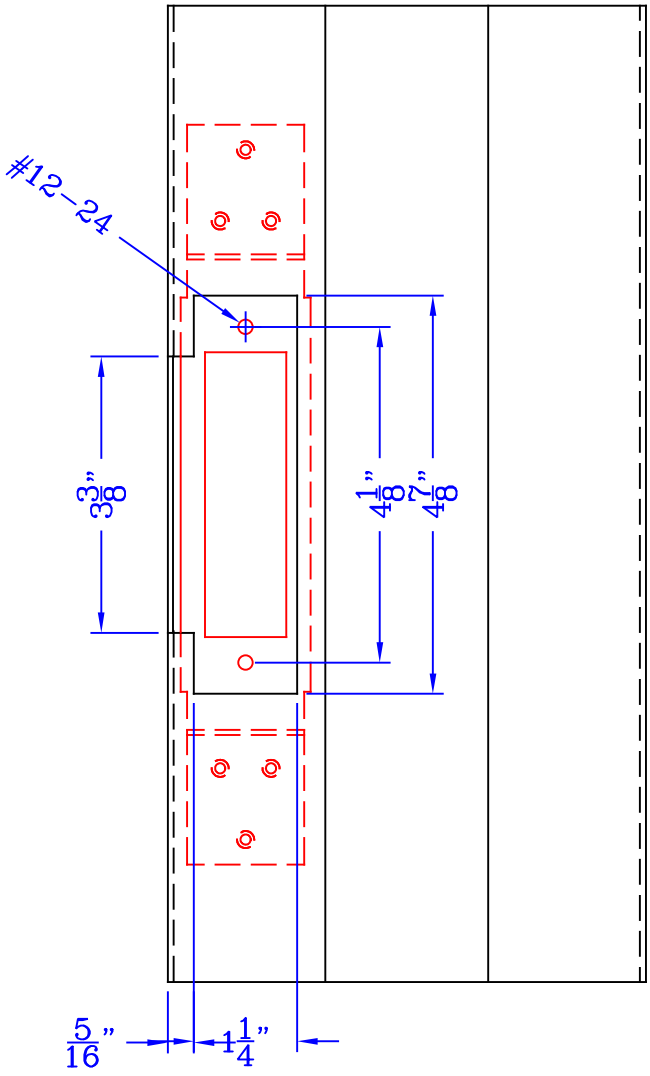


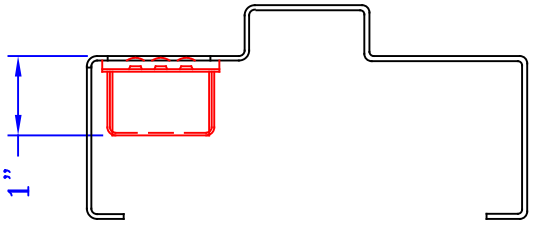
ASA12

Standard ANSI 4 7/8" strike reinforcement, 10ga

Projection welded

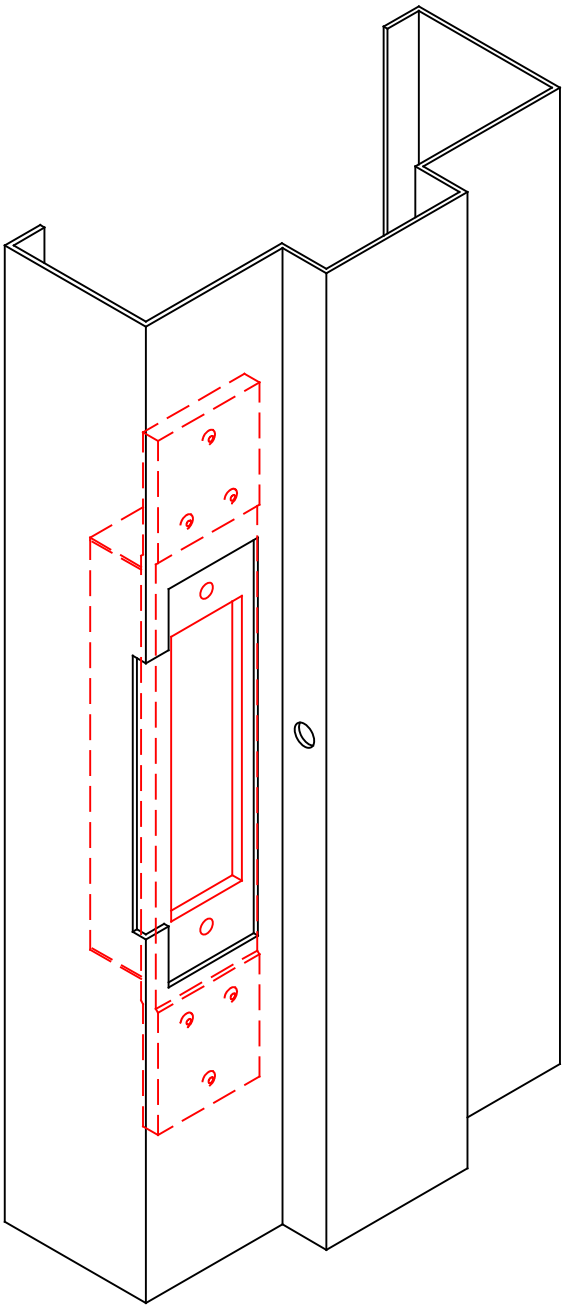


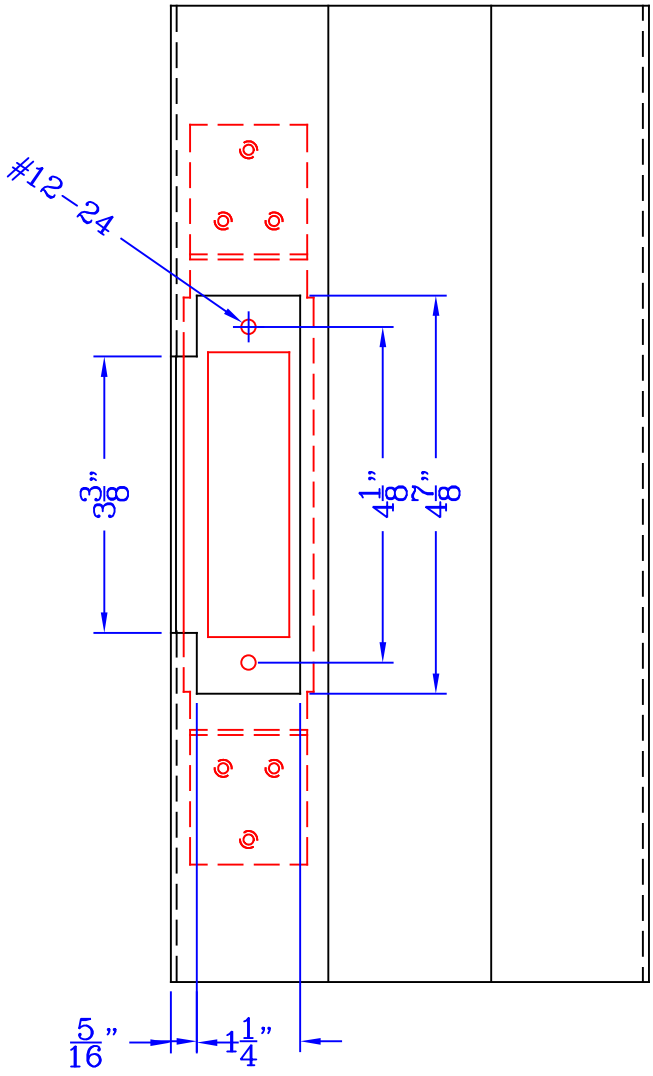


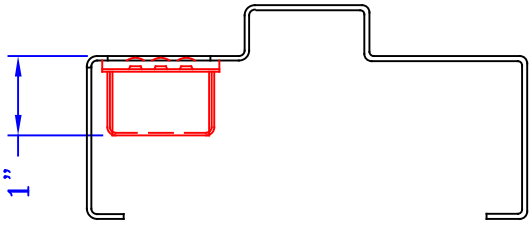


Standard ANSI 4 7/8" strike reinforcement, 7ga

Projection welded

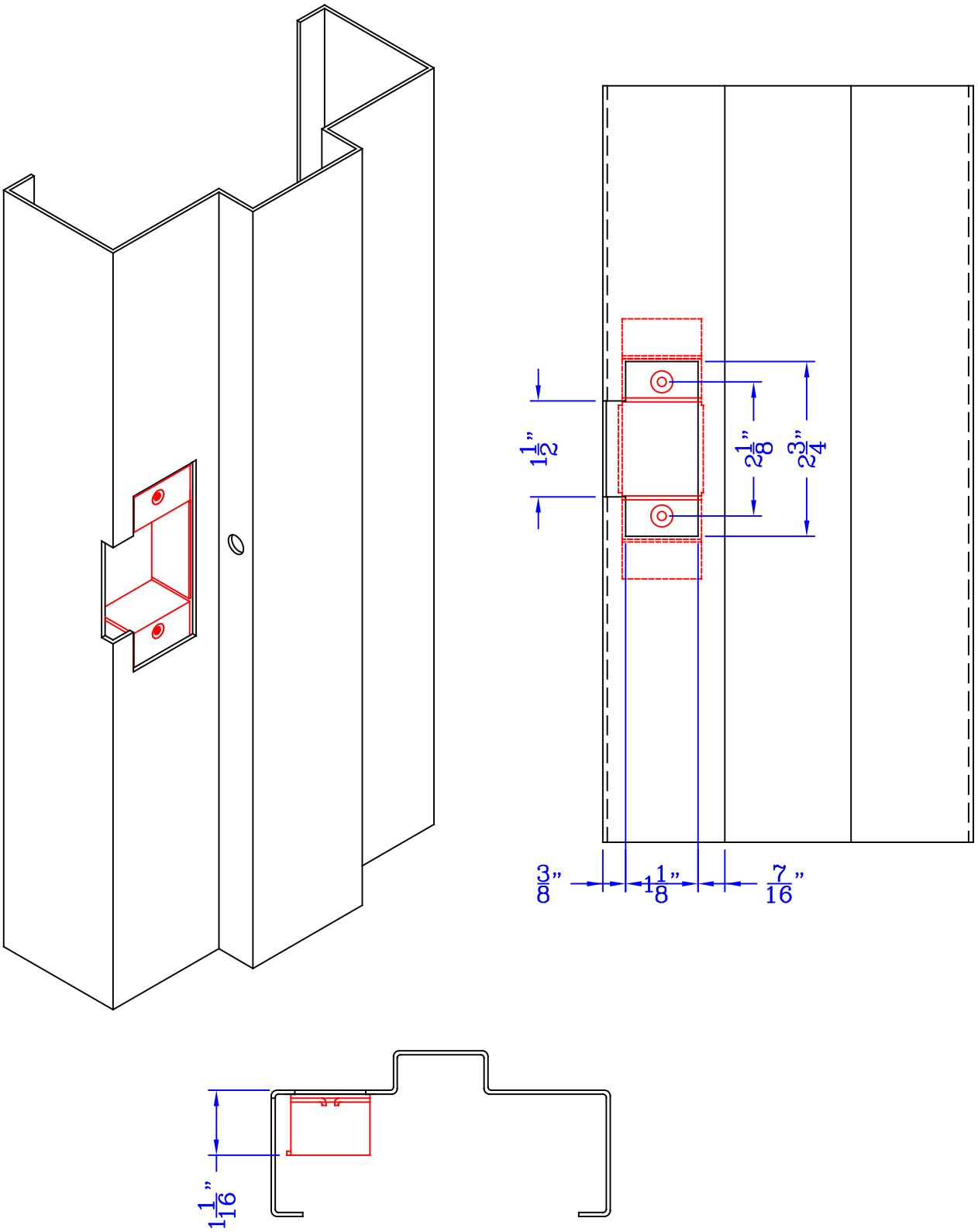






Standard 2 3/4" strike reinforcement, 16ga

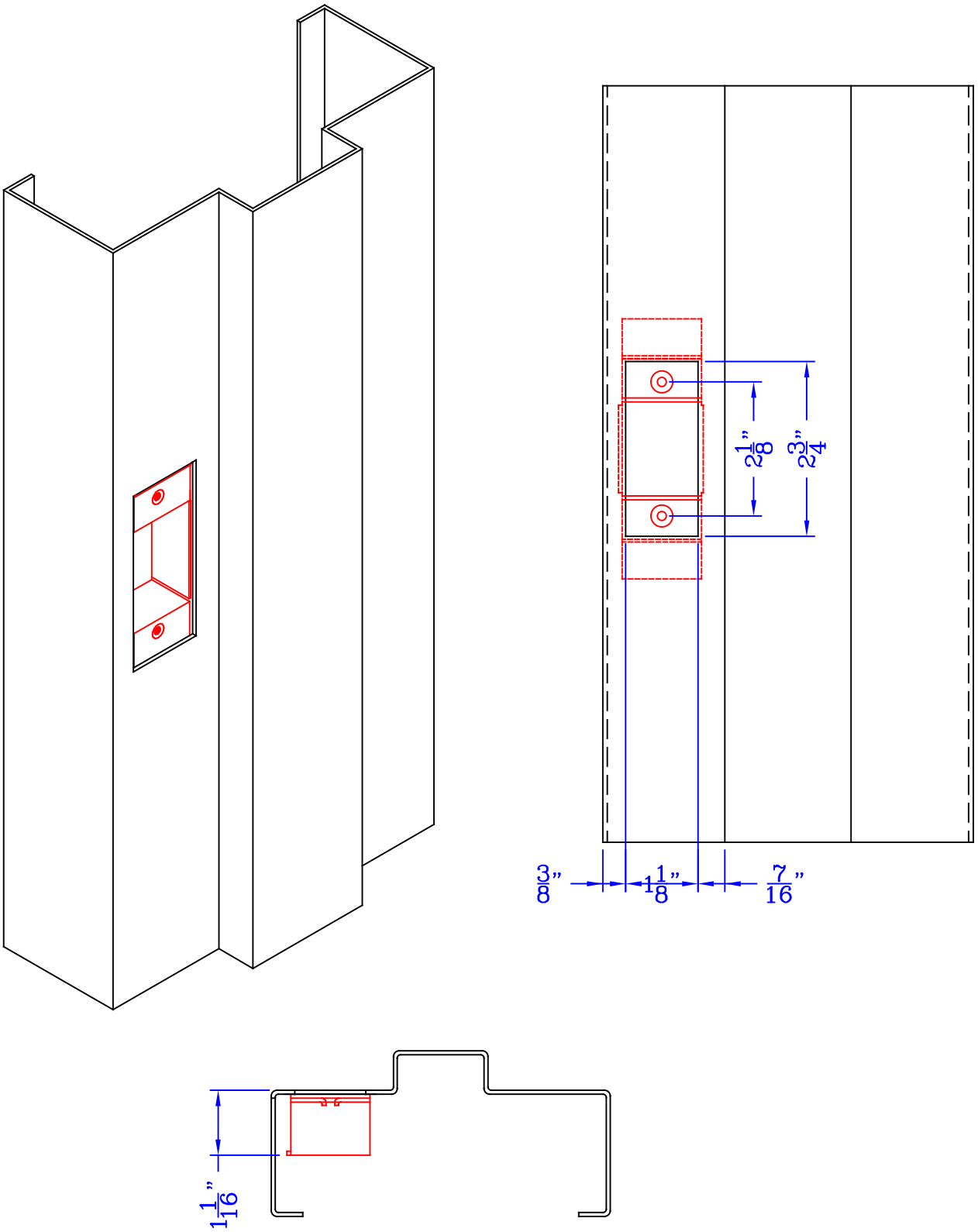
Projection welded



Tapped extruded holes per ANSI/SDI A250.6.

Cylindrical deadlock strike reinforcement, 16ga

Projection welded

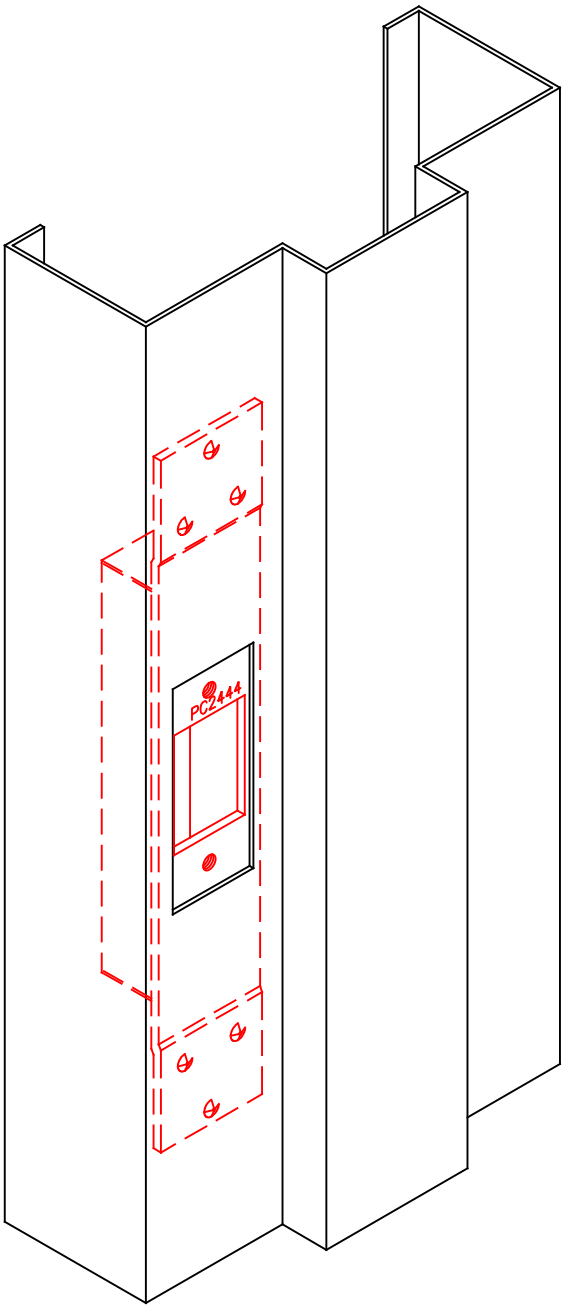


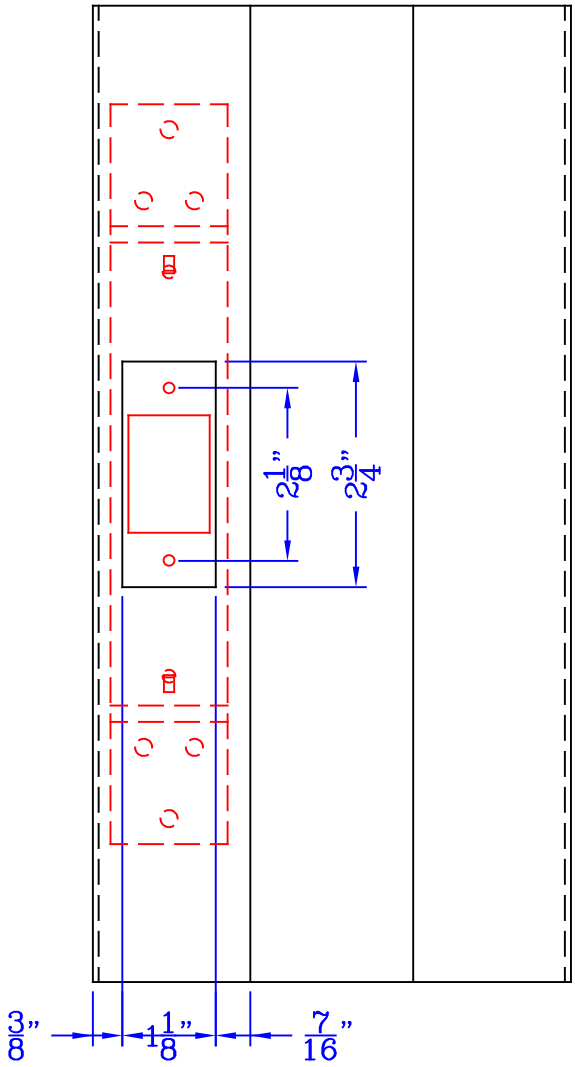
Tapped extruded holes per ANSI/SDI A250.6.

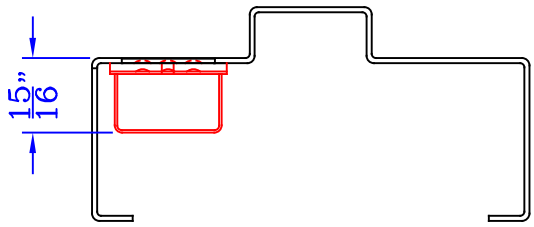
DL234

Cylindrical deadlock strike reinforcement, 12ga

Projection welded



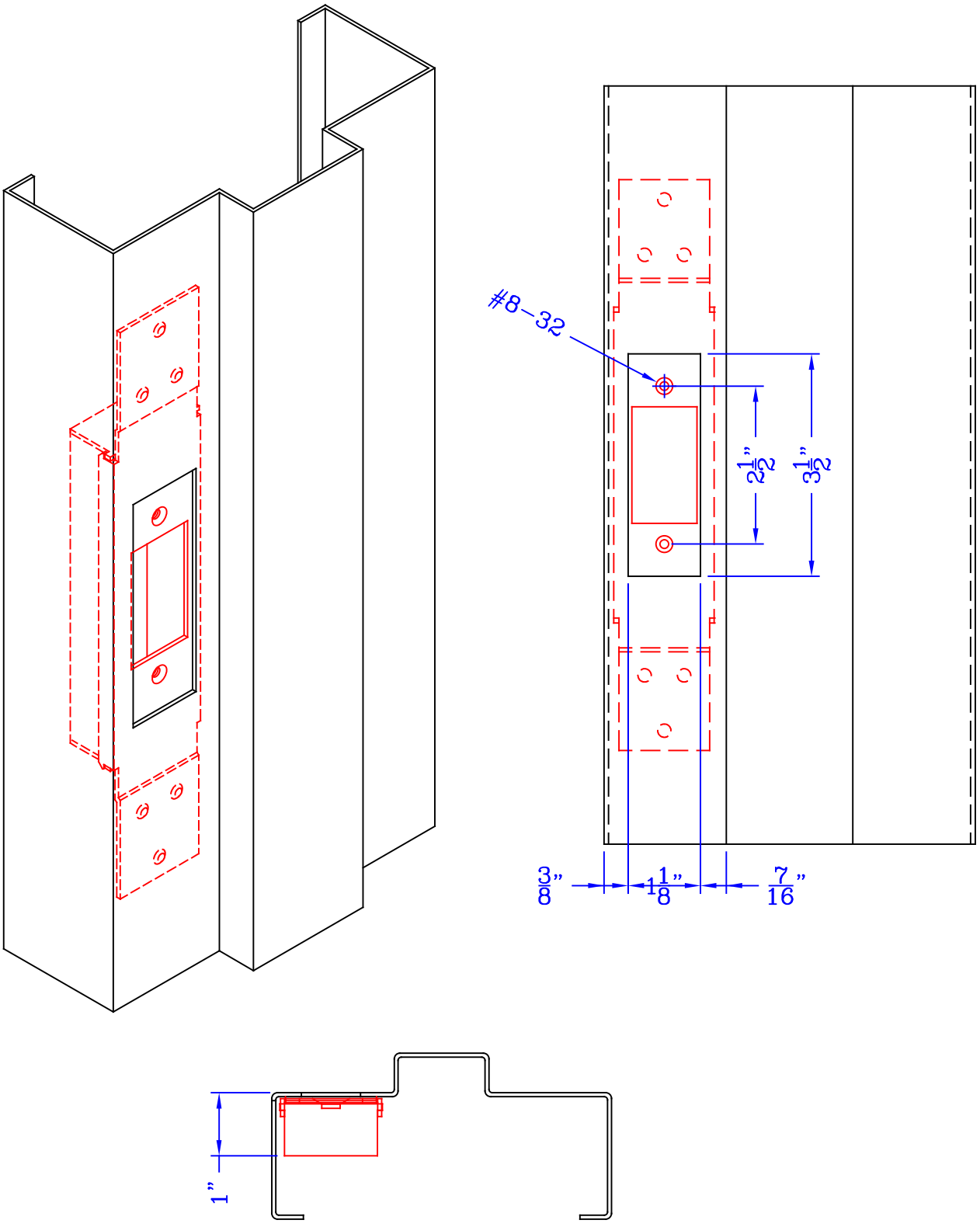




DL234-12

3 1/2" mortise deadlock strike reinforcement, 16ga

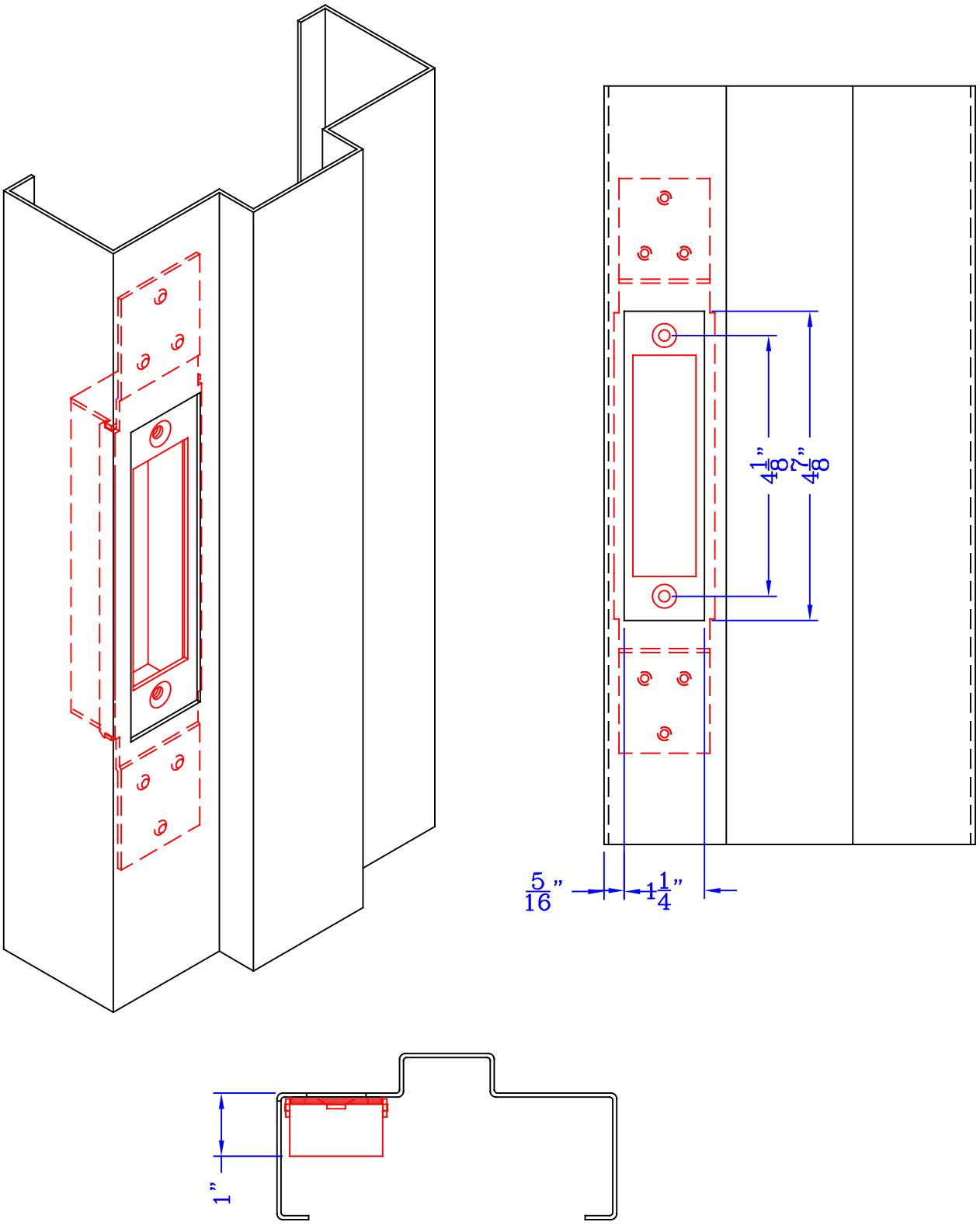
Projection welded



Tapped extruded holes per ANSI/SDI A250.6.

Standard ANSI 4 7/8" deadlock strike reinforcement, 16ga

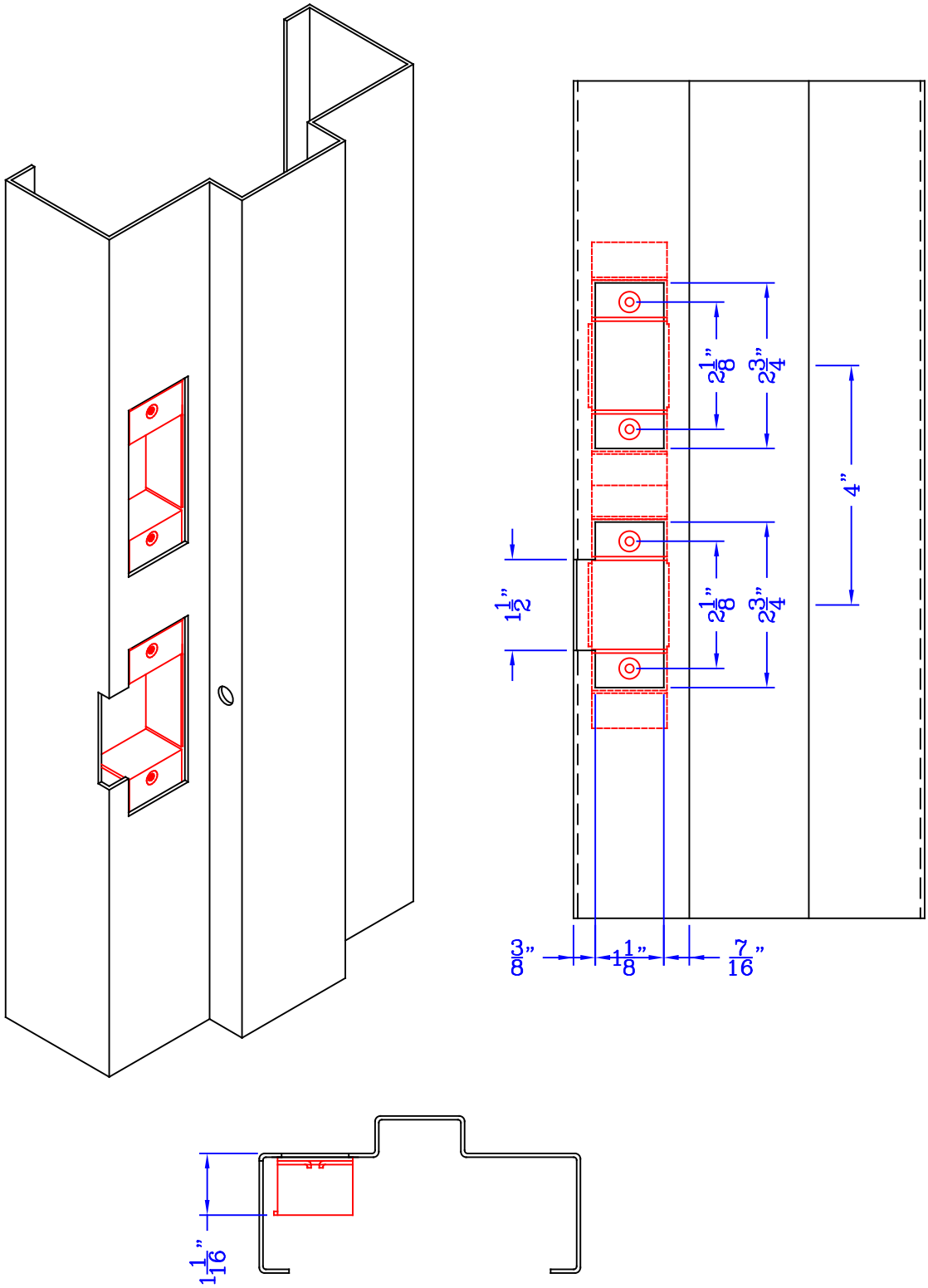
Projection welded



Tapped extruded holes per ANSI/SDI A250.6.

Interconnected lock strike 4" C/C (T + DL234)

Projection welded

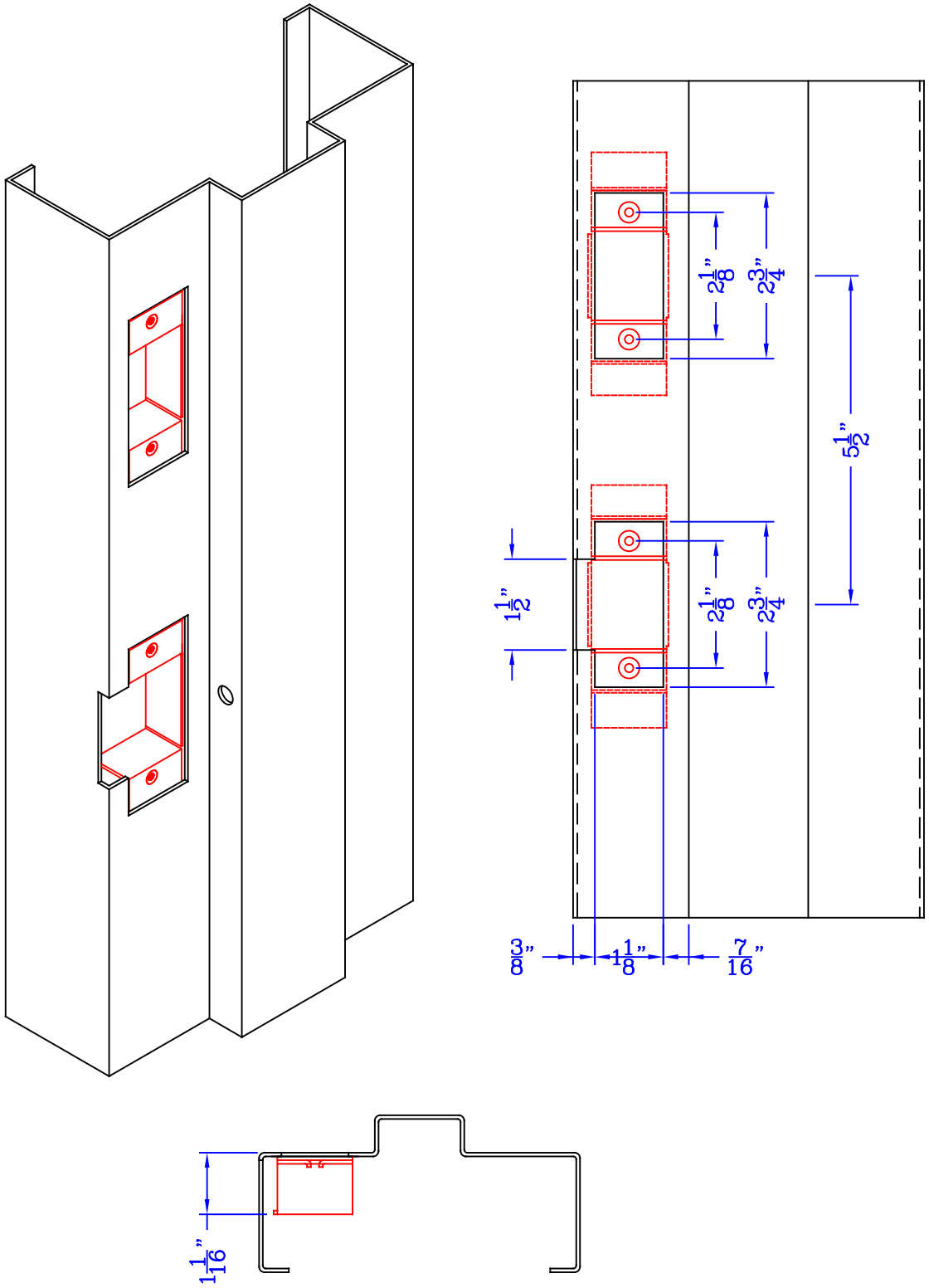


Tapped extruded holes per ANSI/SDI A250.6.

IL4

Interconnected lock strike 5 1/2" C/C (T + DL234)

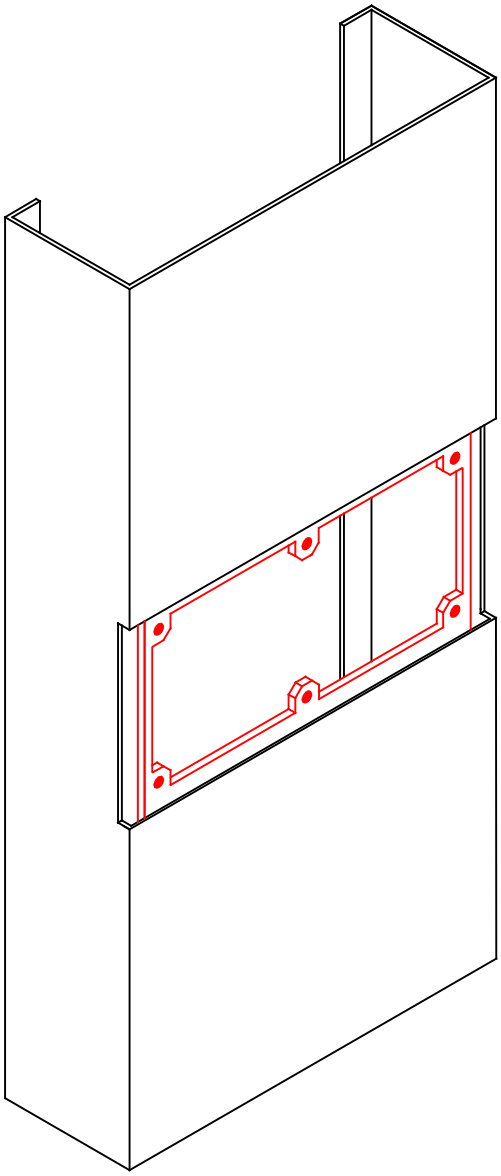
Projection welded

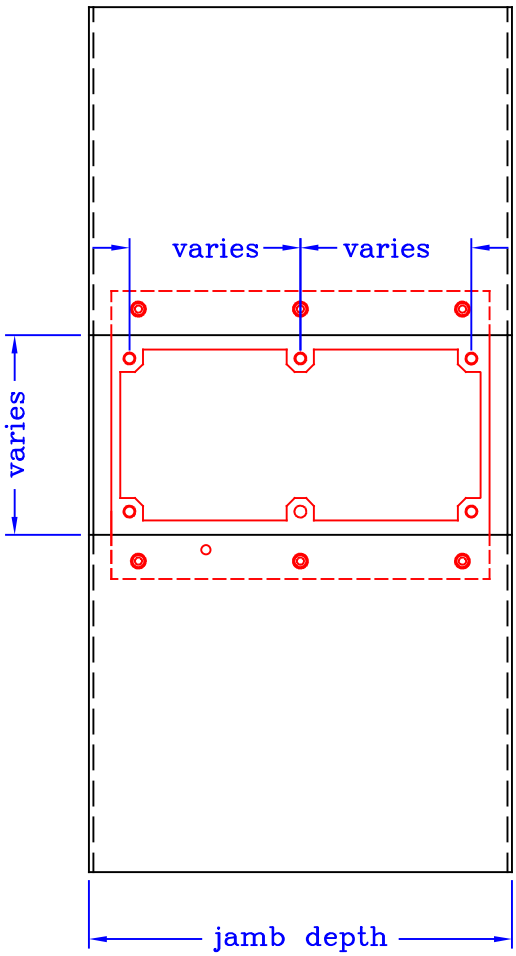


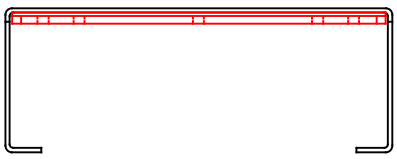
Tapped extruded holes per ANSI/SDI A250.6.

Prep. for double lipped strike reinforcement, 12ga

Projection welded



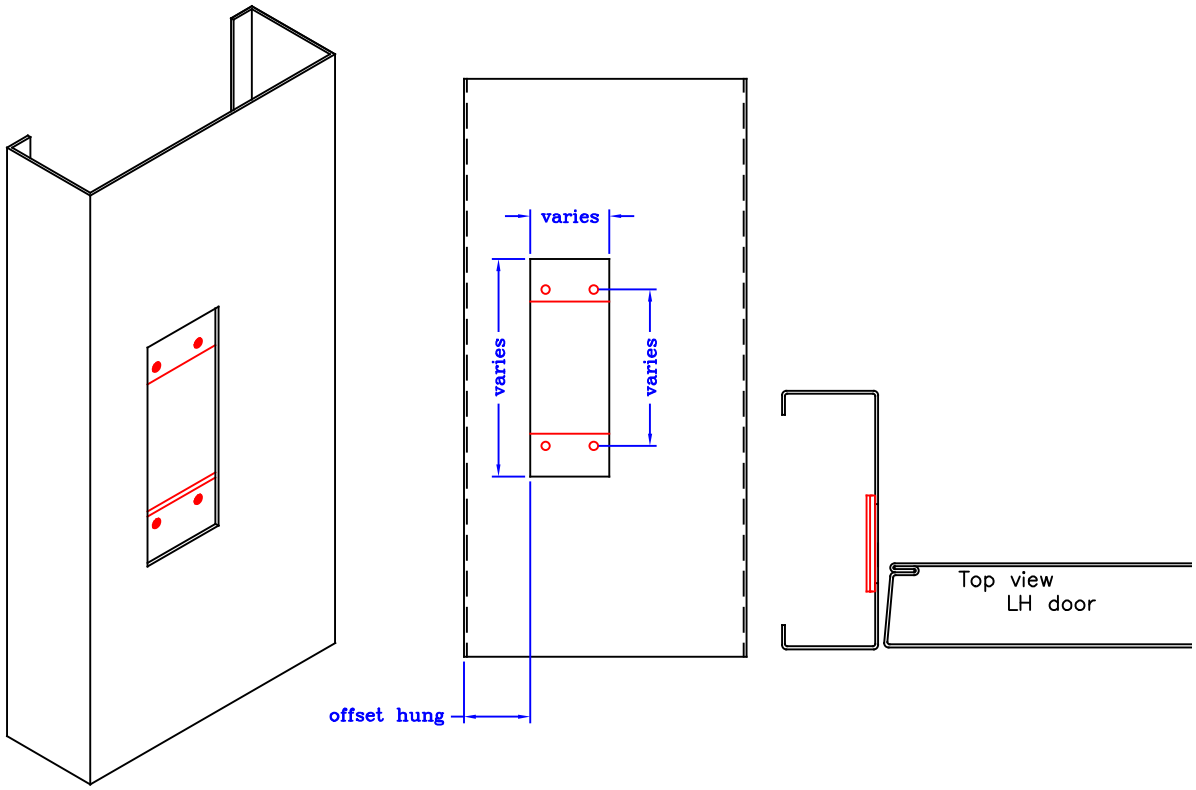


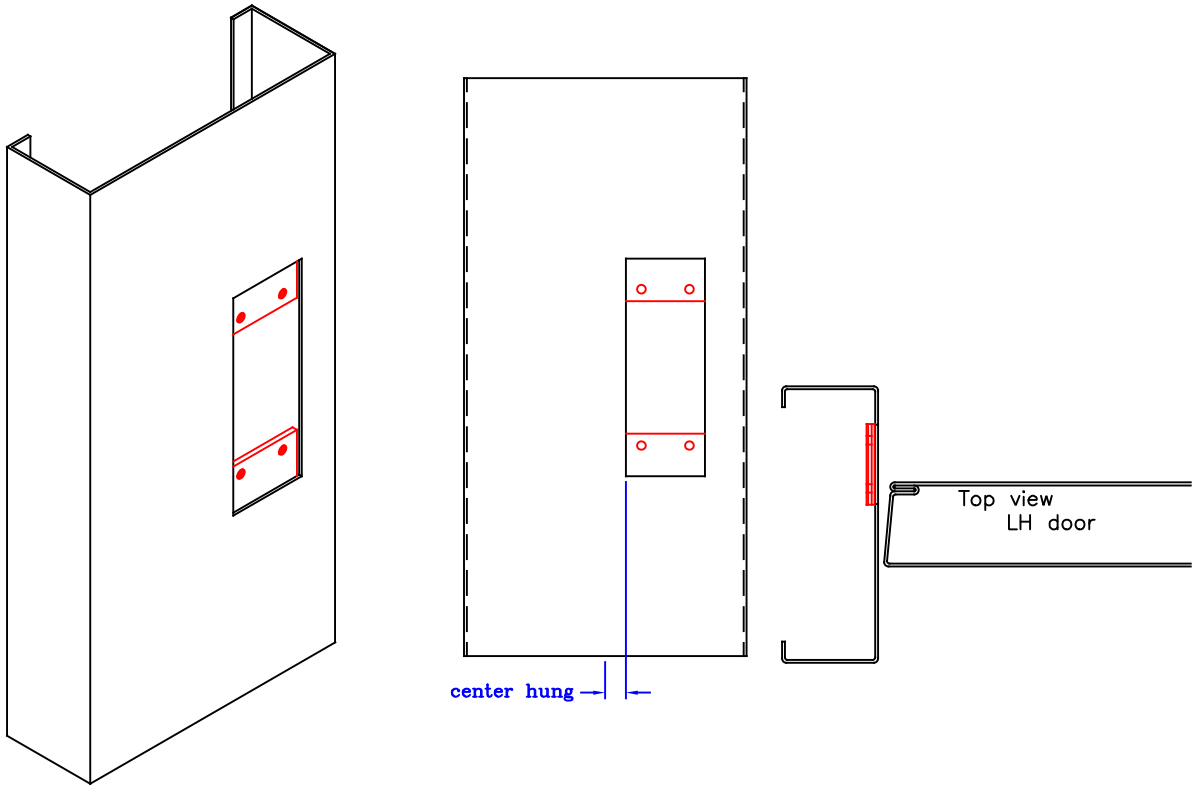


*manufacturer's template to be provided

Prep. for emergency stop release reinforcement, 12ga

Spot welded

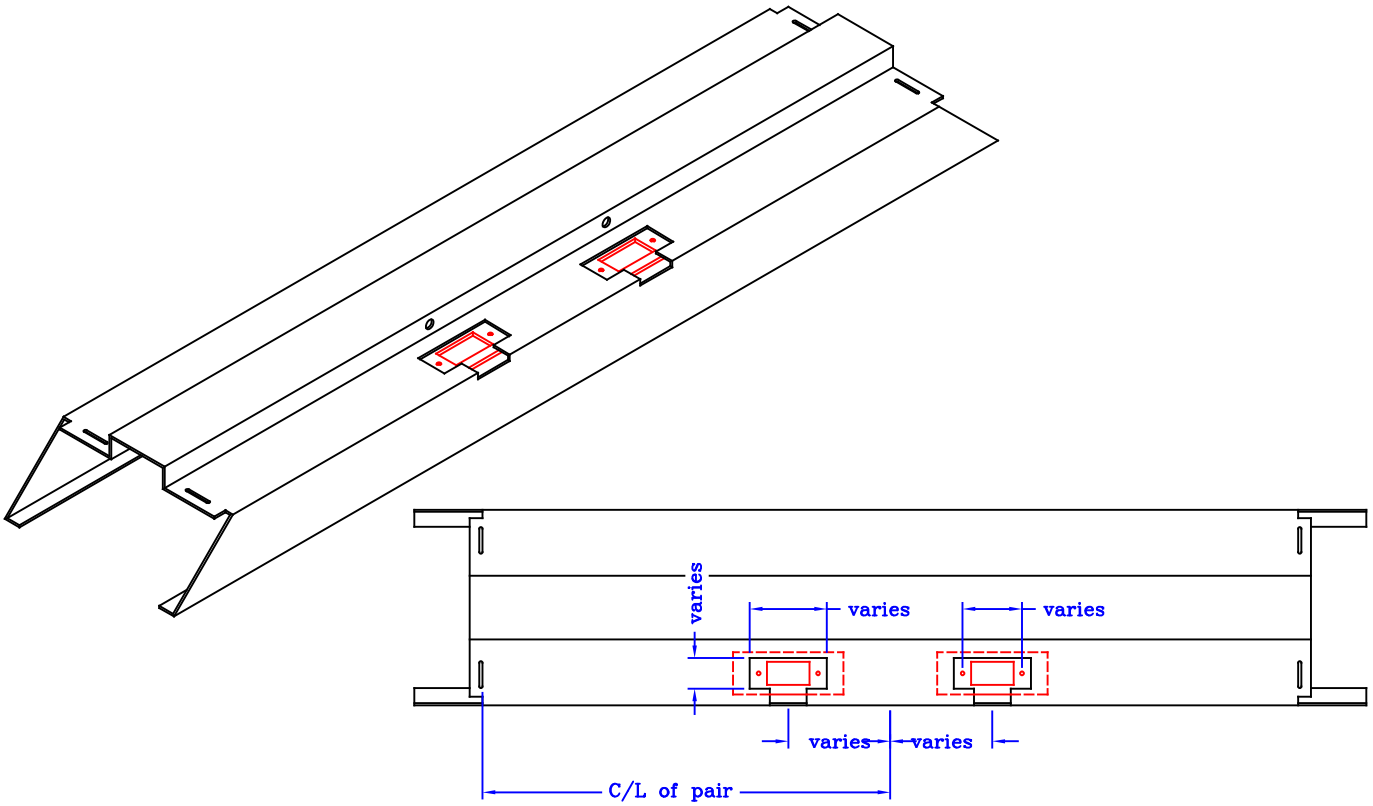


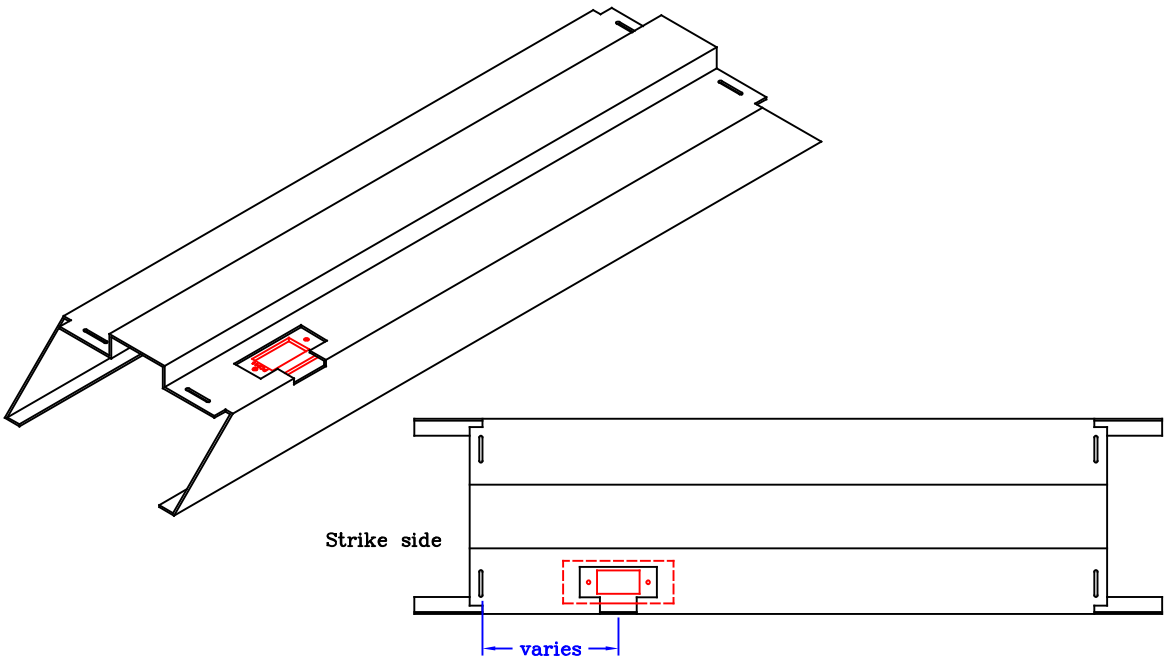


*manufacturer's template to be provided

Roller latch strike reinforcement at head, 12ga

Spot welded



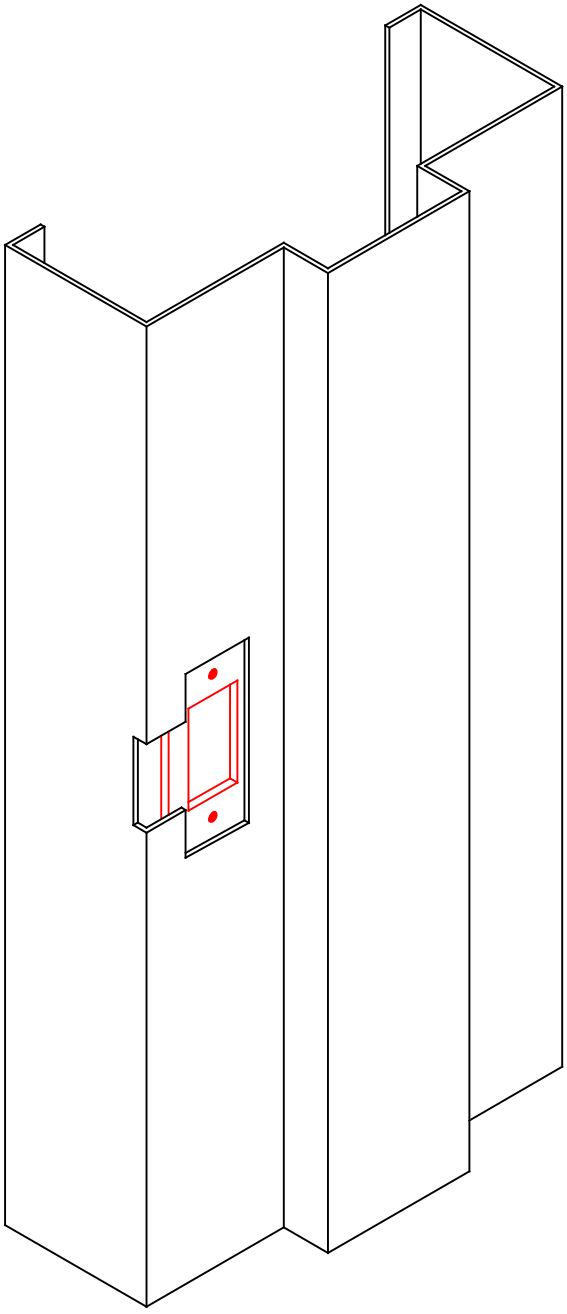


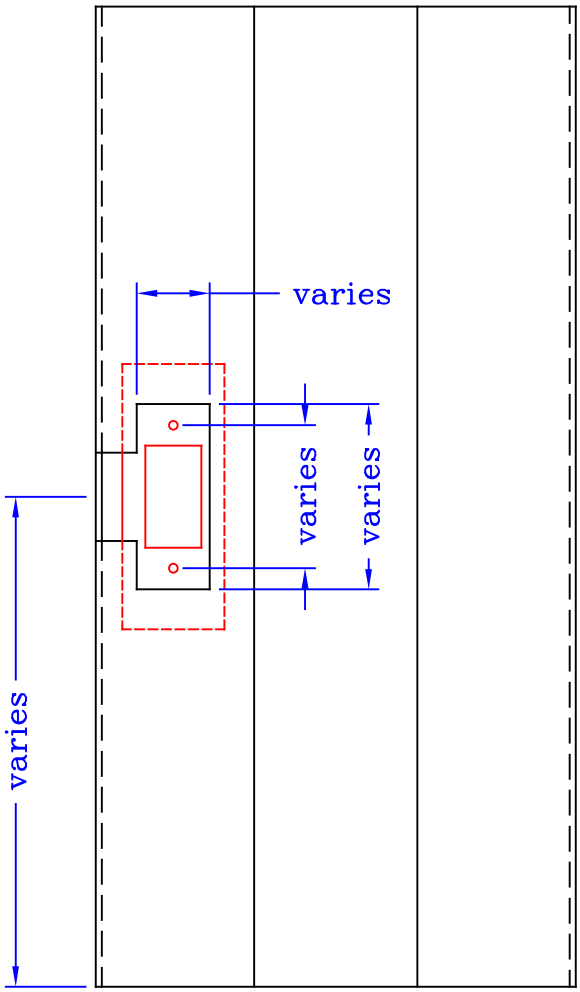
RLH

*manufacturer's template to be provided

Roller latch strike reinforcement at jamb, 12ga

Spot welded



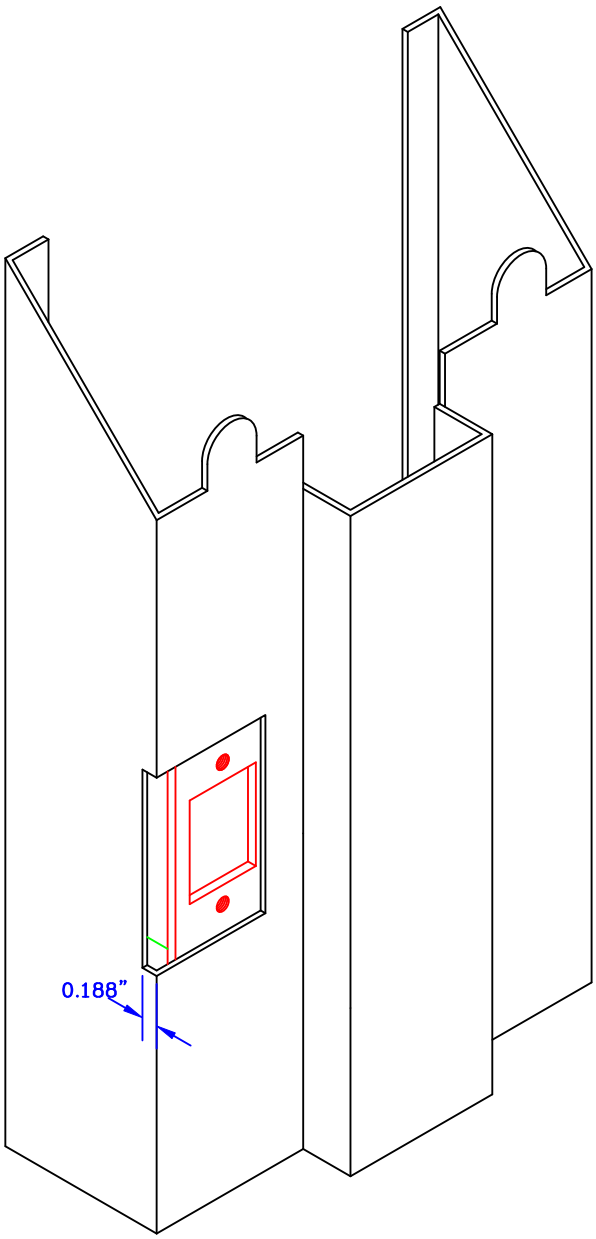


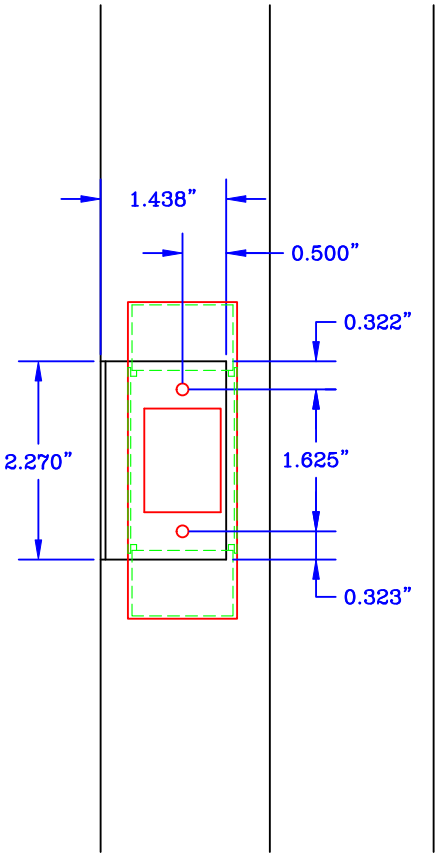
*manufacturer's template to be provided

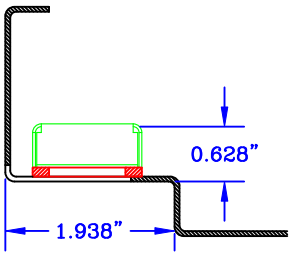
RLJ

Full lip strike 2-1/4", 12ga

Spot welded

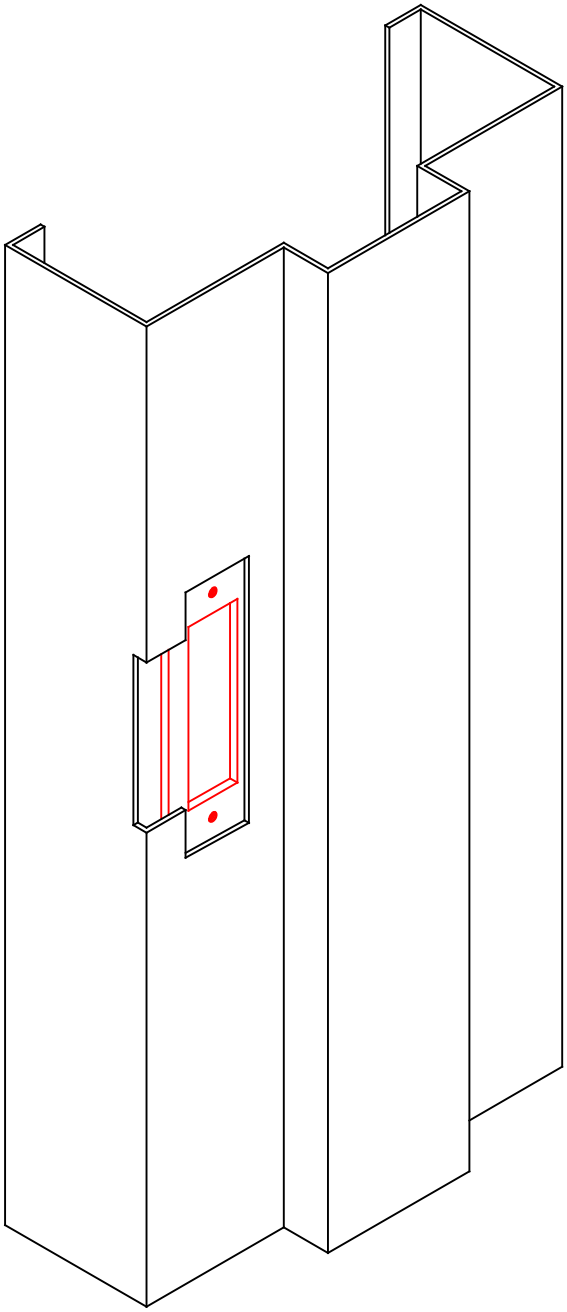


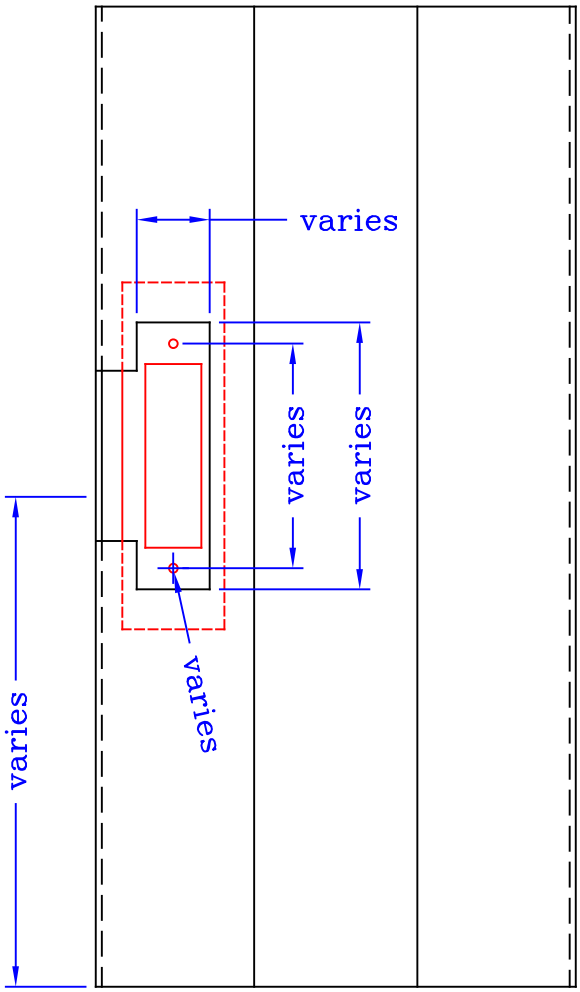




Special strike reinforcement, 12ga

Spot welded

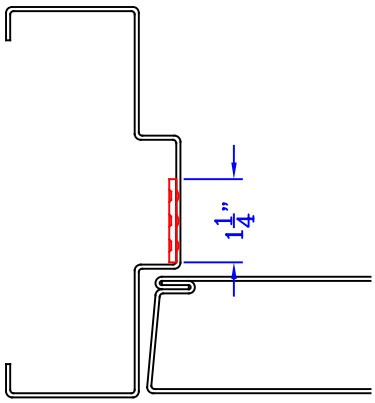


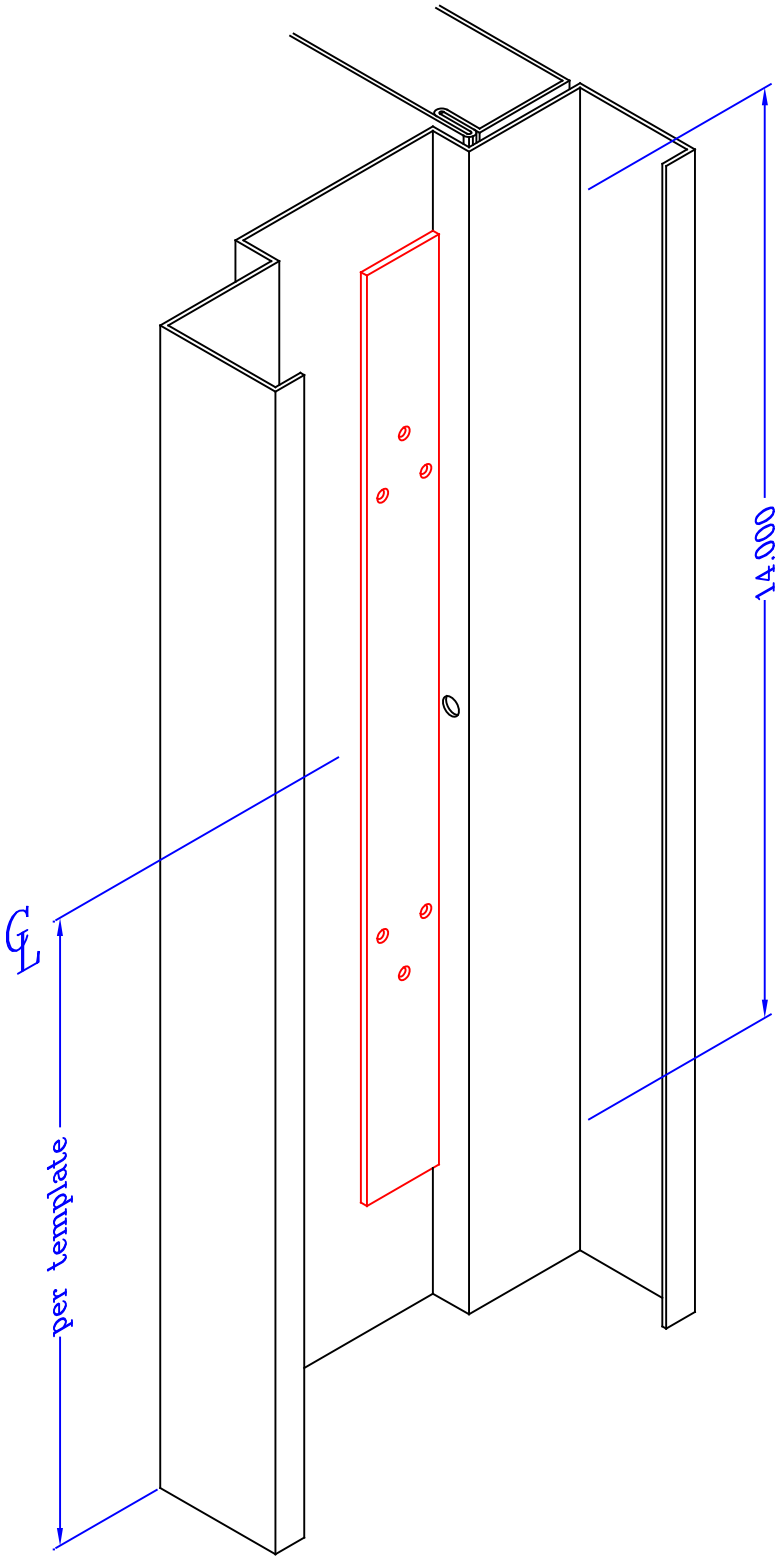


*manufacturer's template to be provided

Rim exit device reinforcement, 12ga

Projection welded

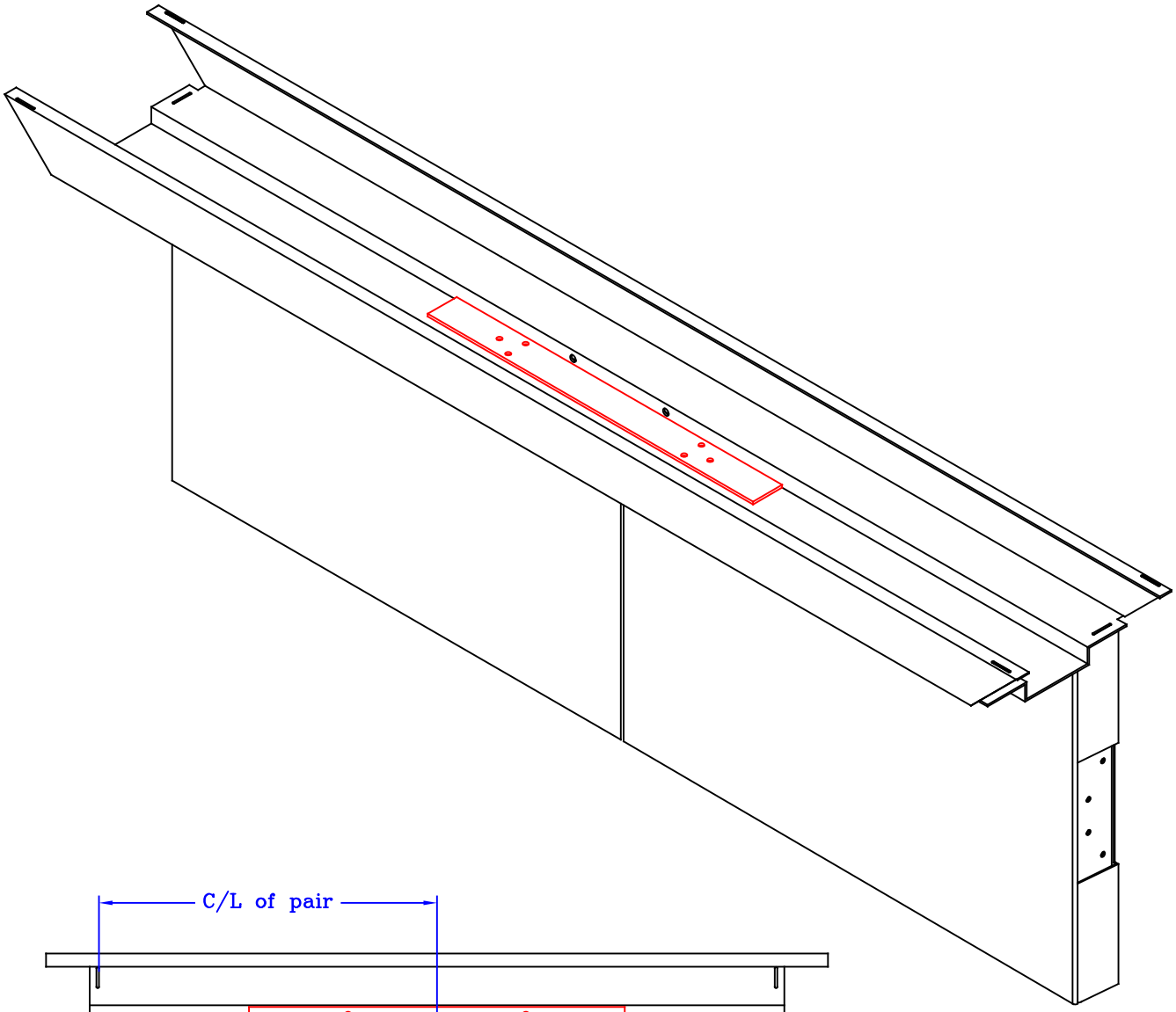


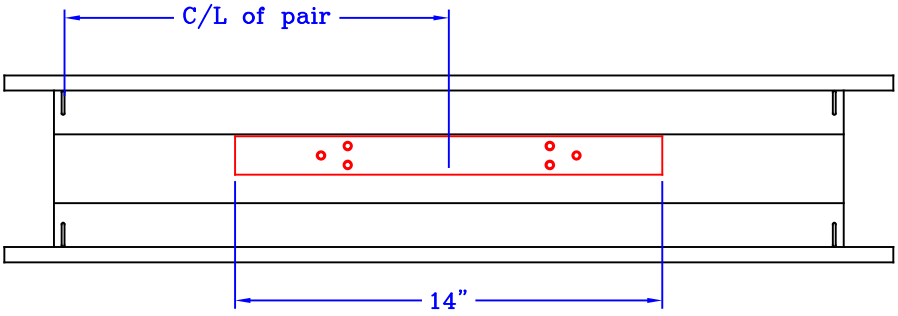


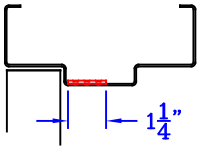
RED

Prep for surface vertical rod strike, 12ga

Projection welded



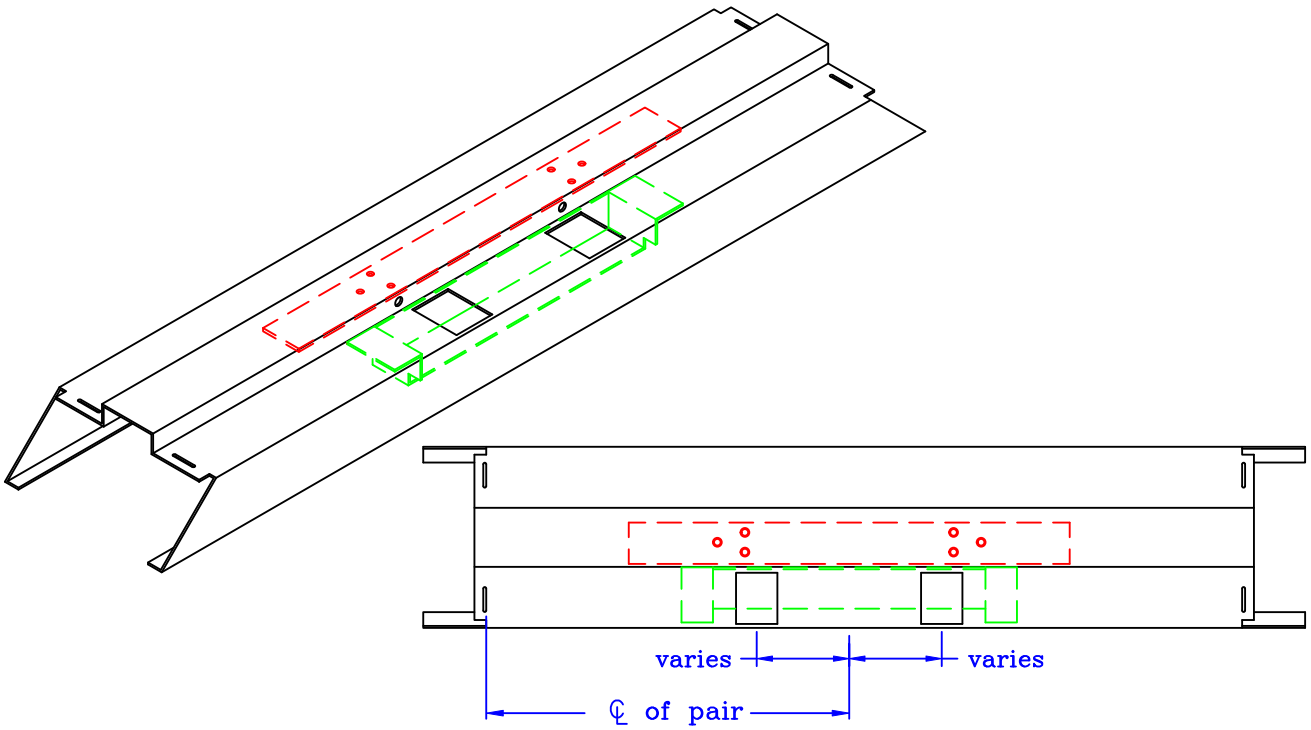




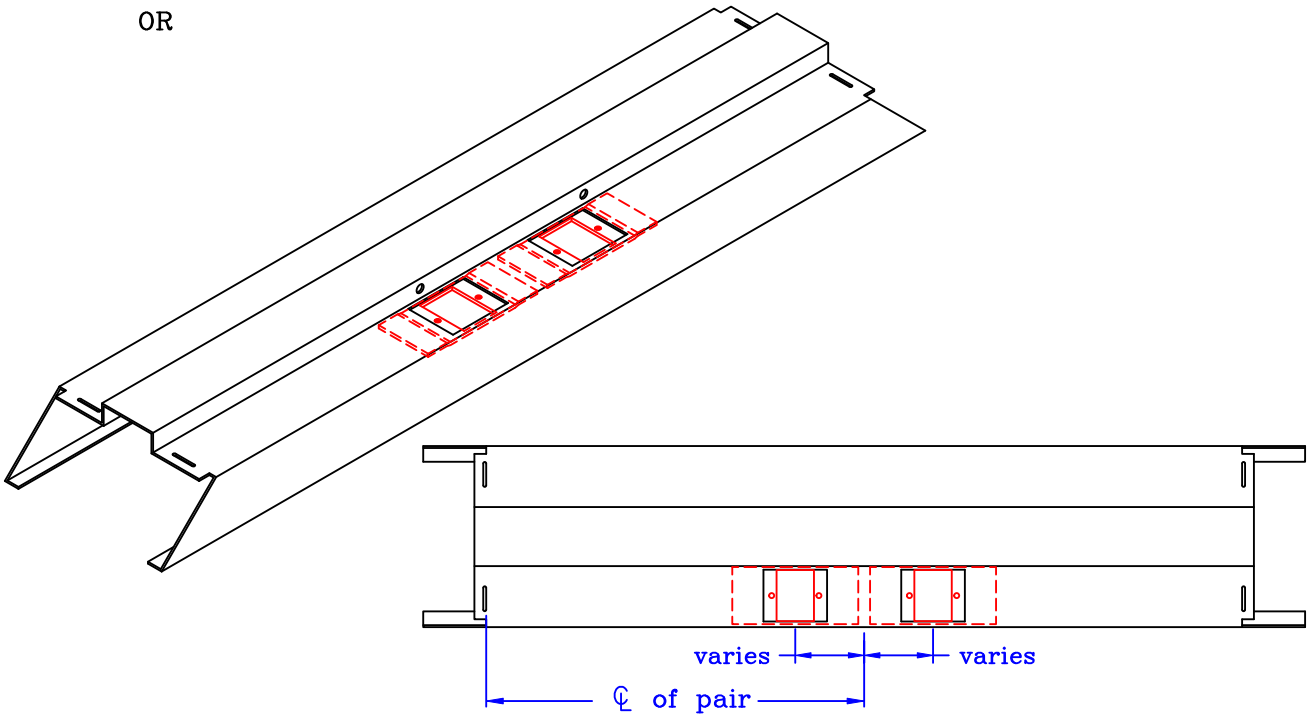
SVRS

Prep for concealed vertical rod strike, 12ga

Spot welded



OR

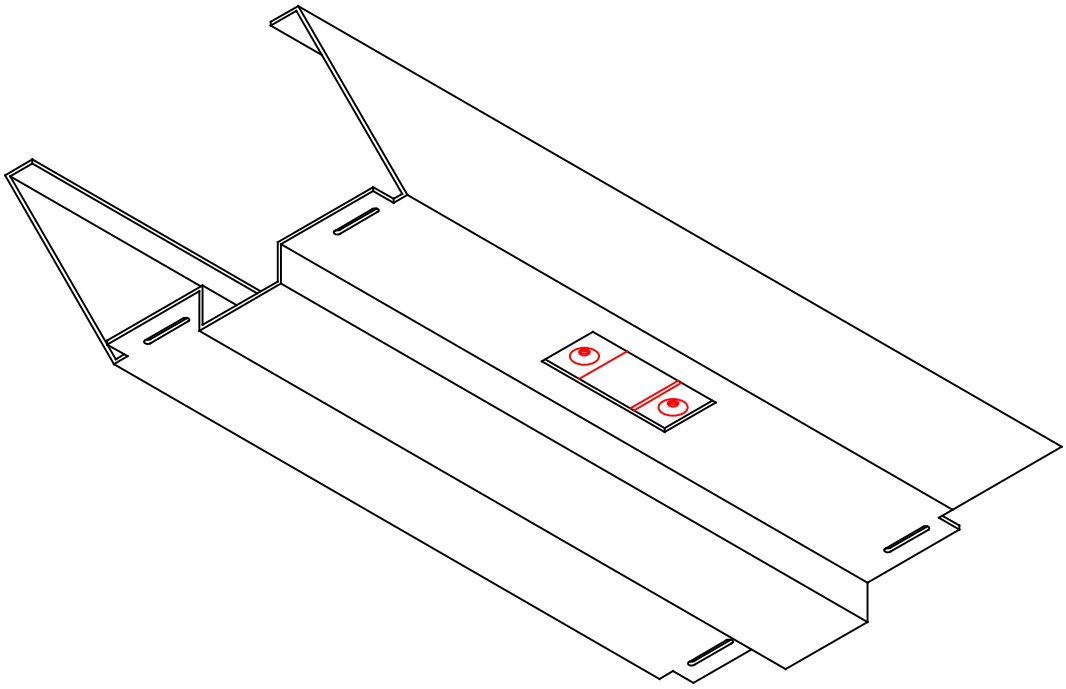


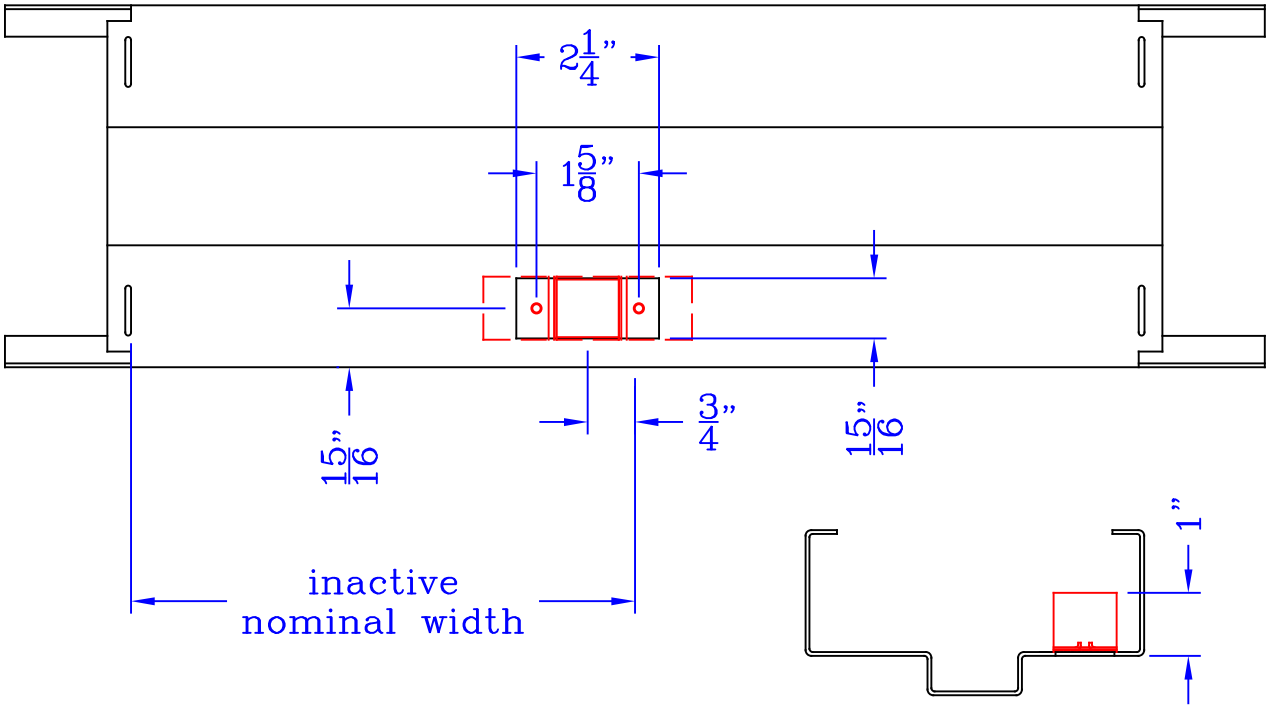
CVRS

*manufacturer's template to be provided

Ansi A156-16 flush bolt strike reinforcement, 18ga

Spot welded



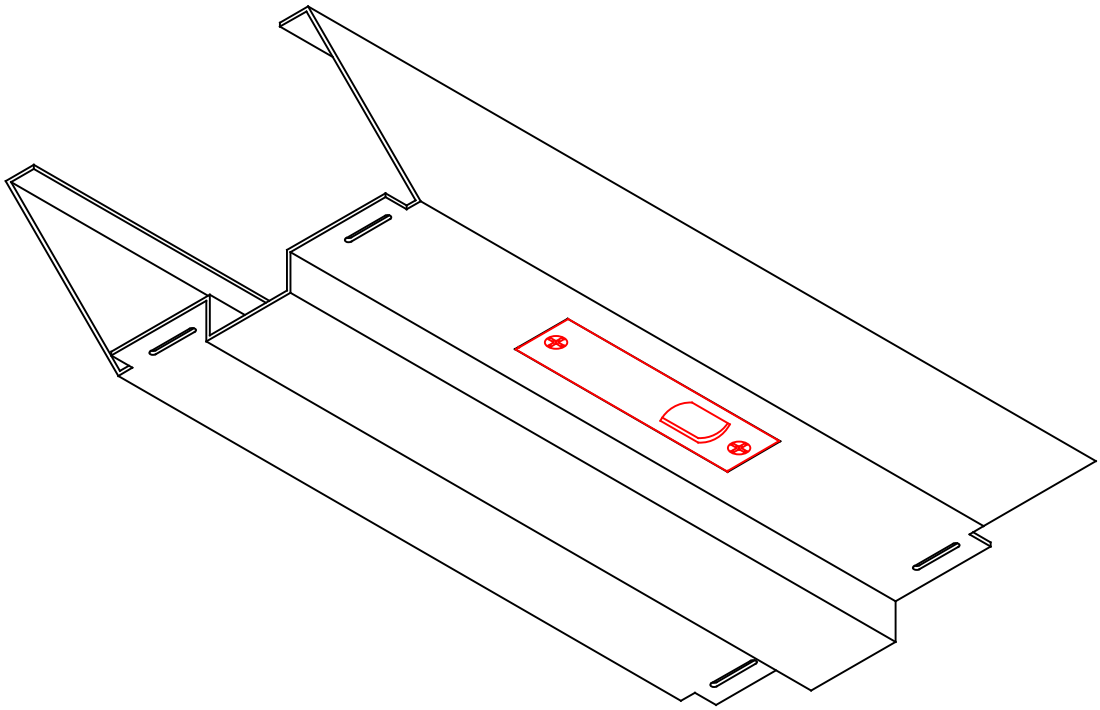


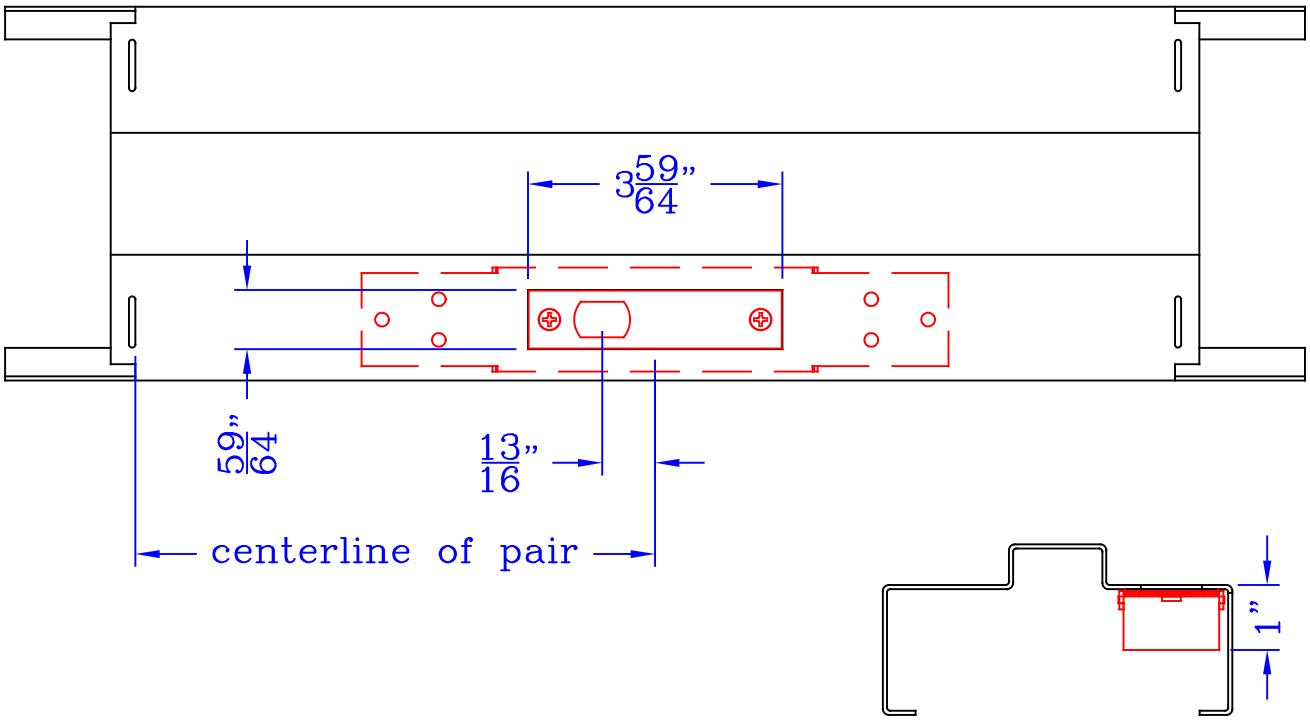
FBS

Tapped extruded holes per ANSI/SDI A250.6.

Reversible flush bolt strike reinforcement, 18ga

Projection welded



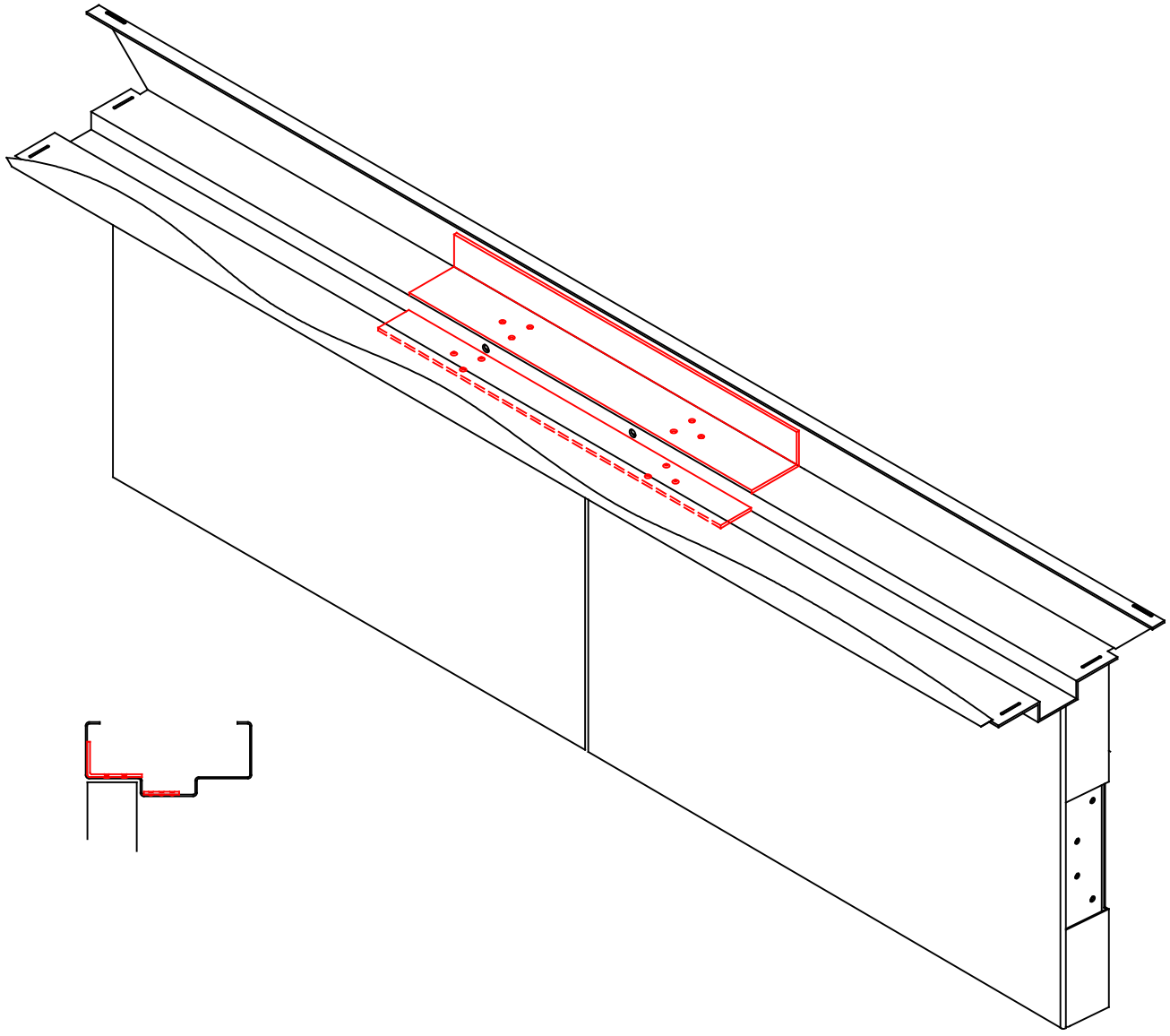


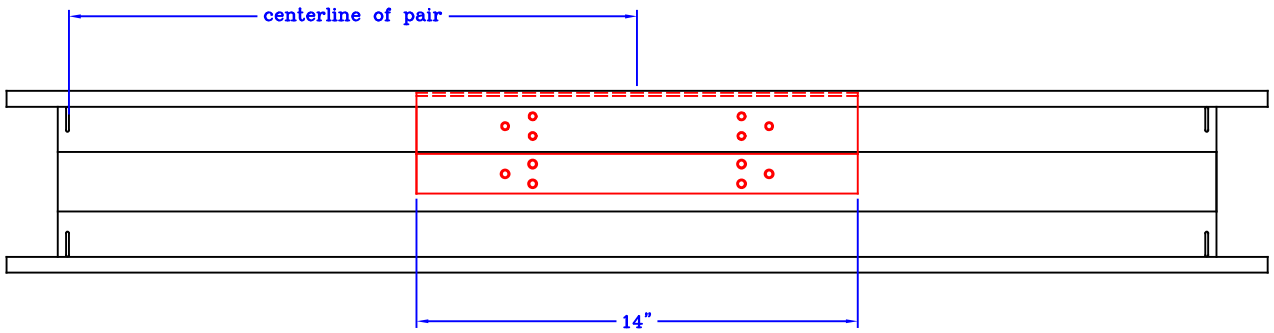
RFBS

Tapped extruded holes per ANSI/SDI A250.6.

Surface bolt strike reinforcement, 12ga

Projection welded

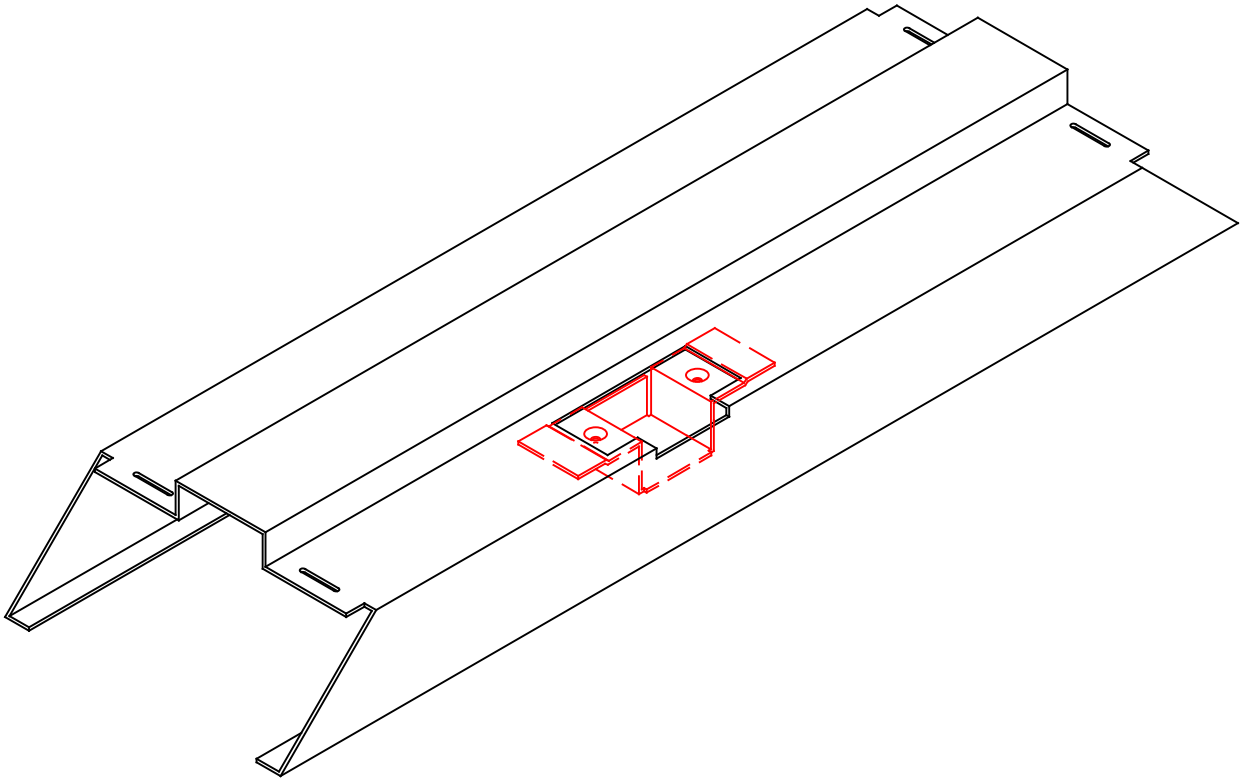


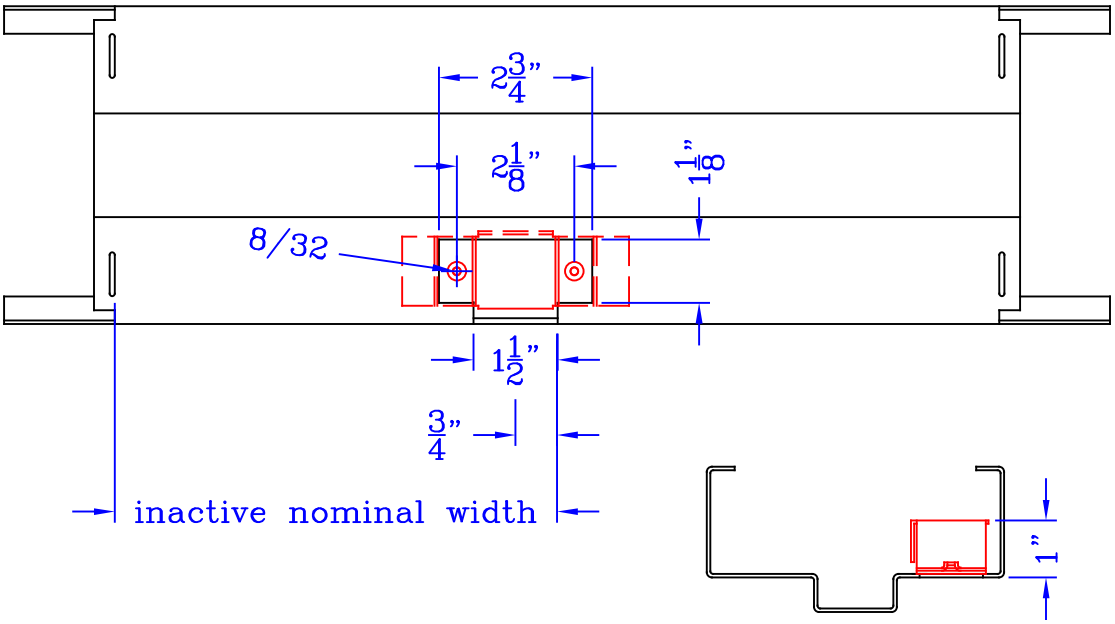


SBS

Self latching flush bolt strike reinforcement, 18ga

Projection welded



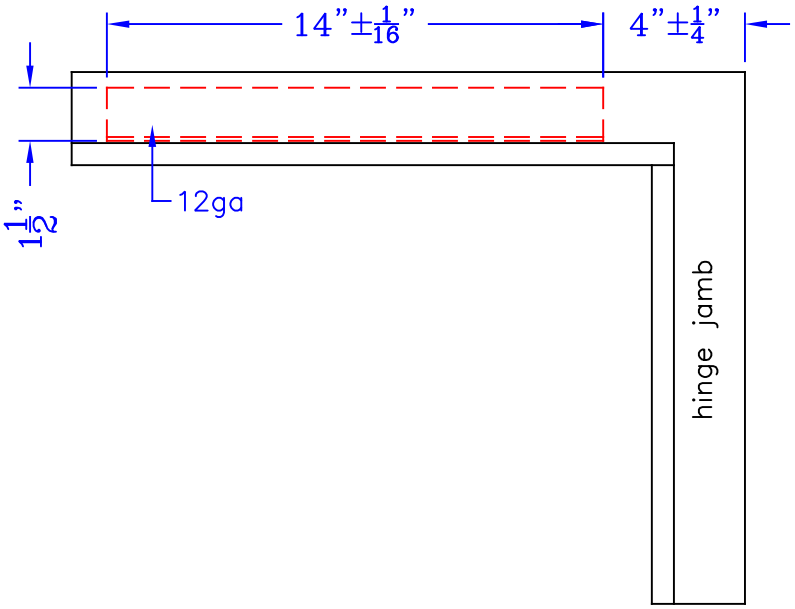


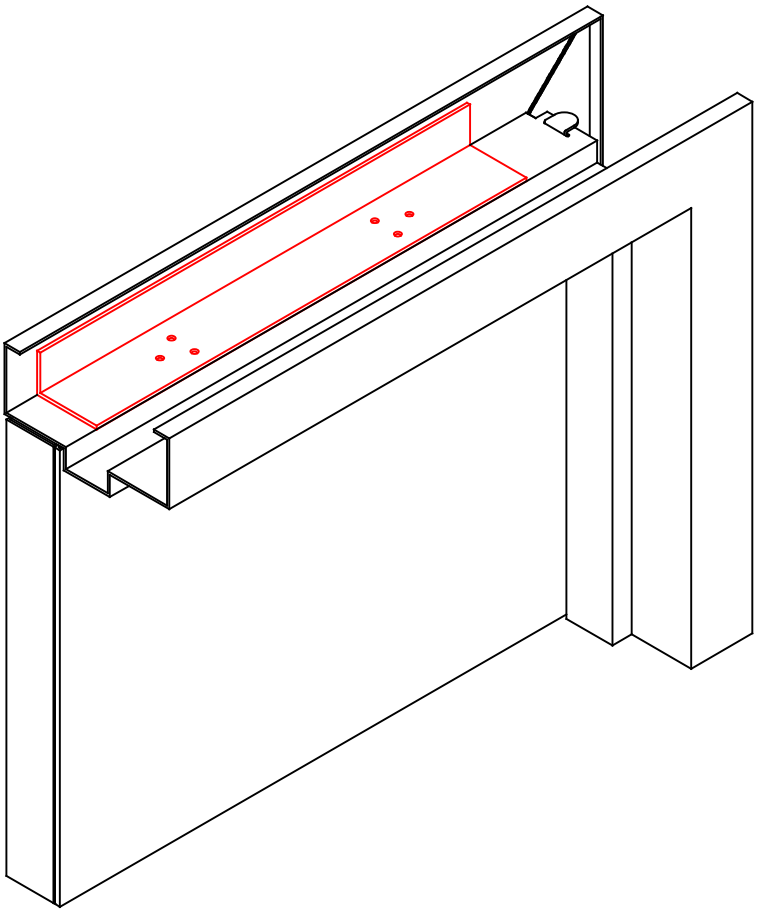
SLFBS

Tapped extruded holes per ANSI/SDI A250.6.

Regular arm closer reinforcement, 12ga

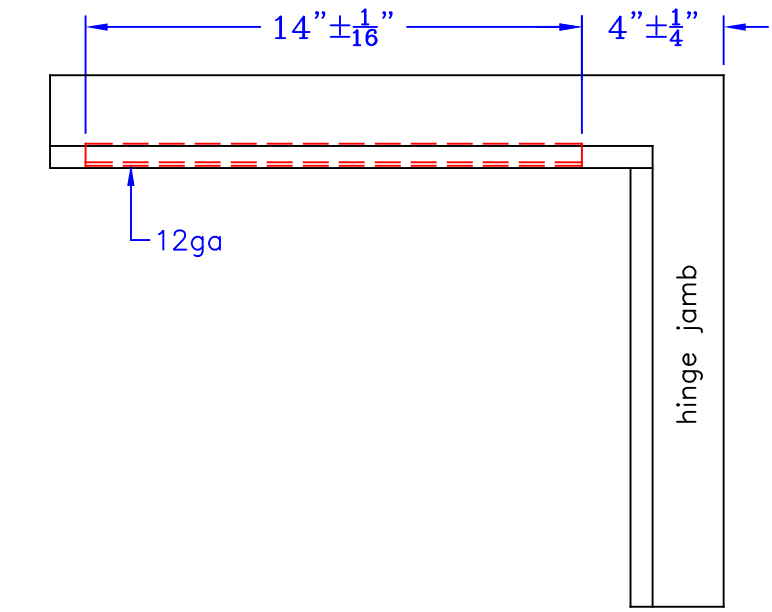
Projection welded

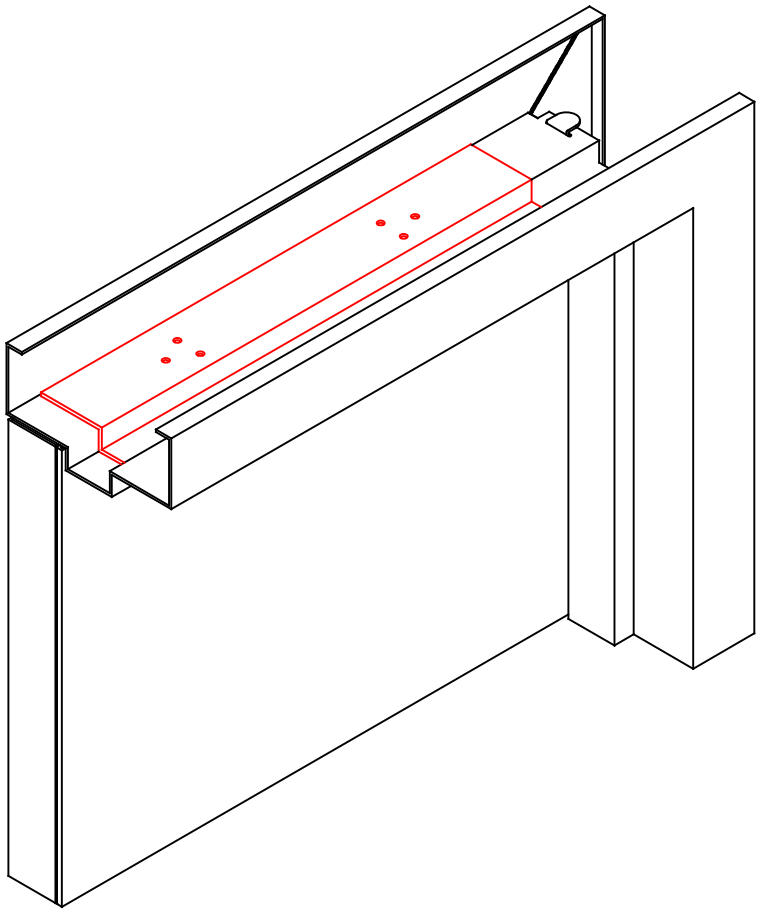




Parallel arm closer reinforcement, 12ga

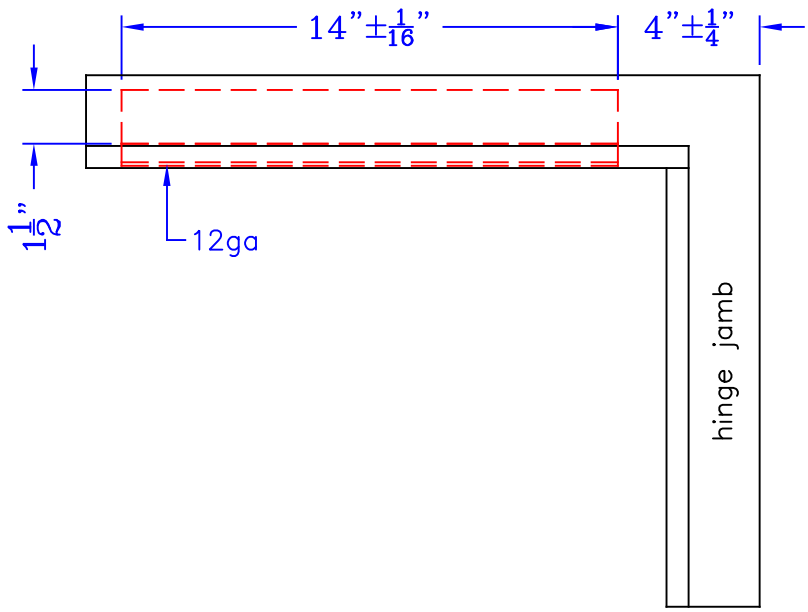
Projection welded

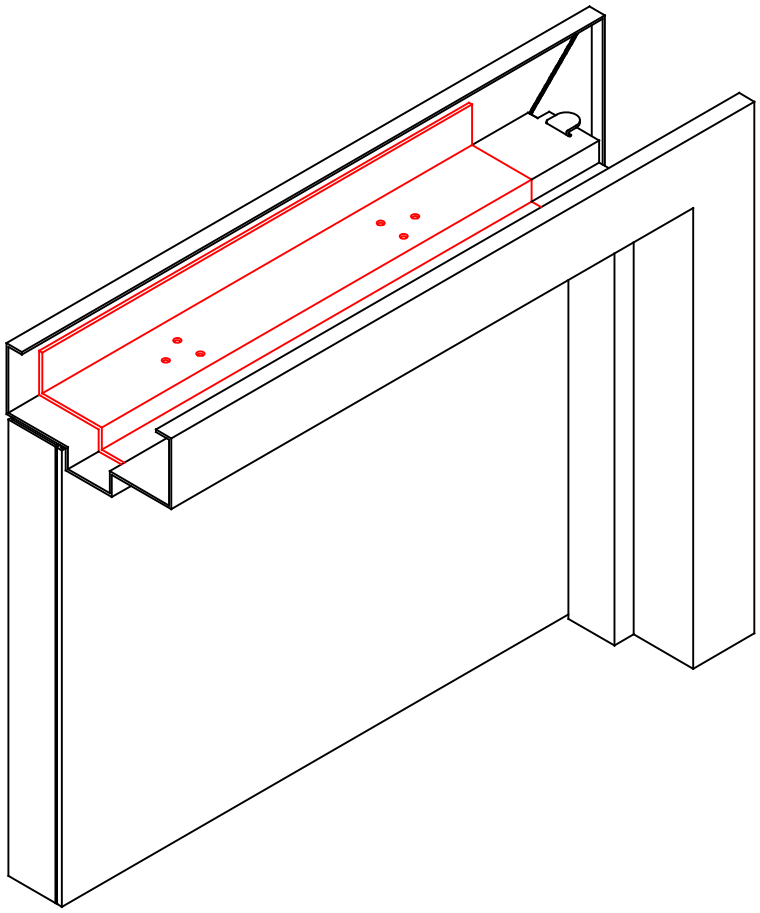




Regular and parallel arm closer reinforcement, 12ga

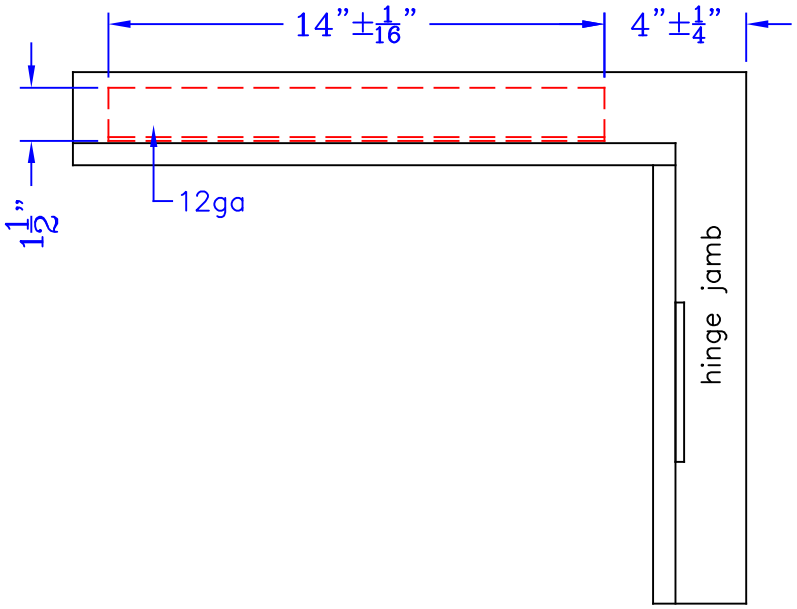
Projection welded

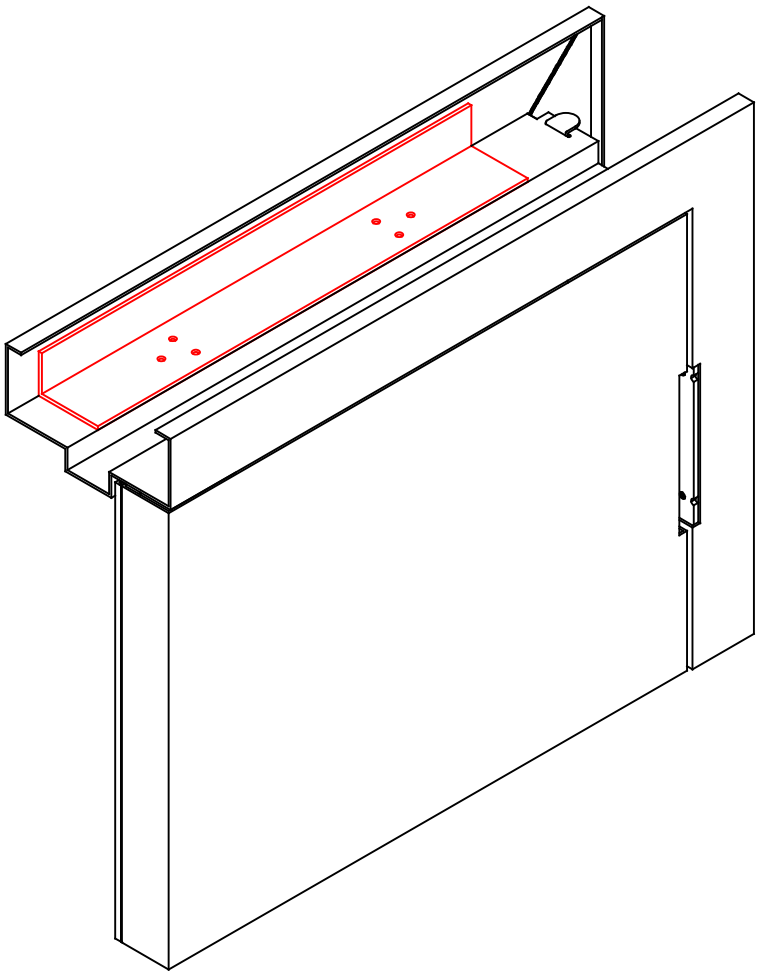




Top jamb closer reinforcement, 12ga

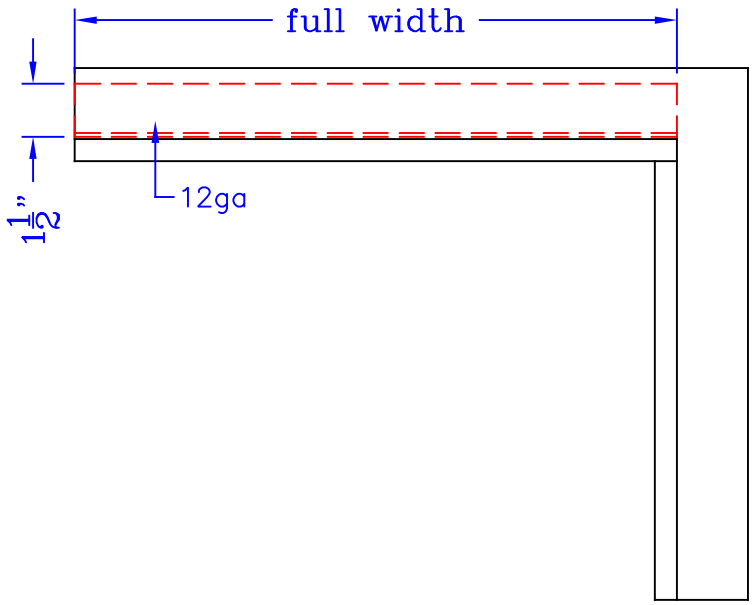
Projection welded

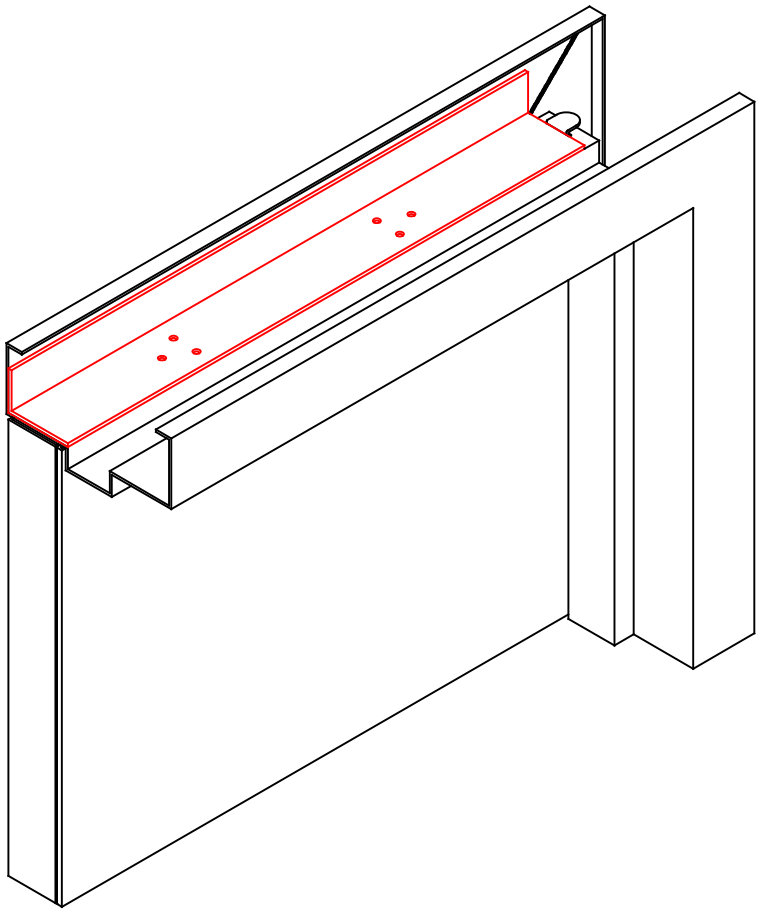




Full width regular arm closer reinforcement, 12ga

Projection welded

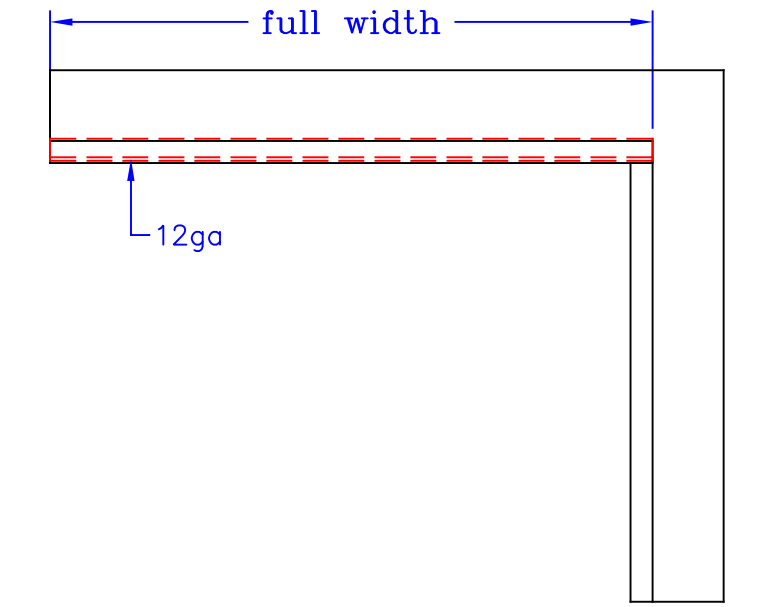


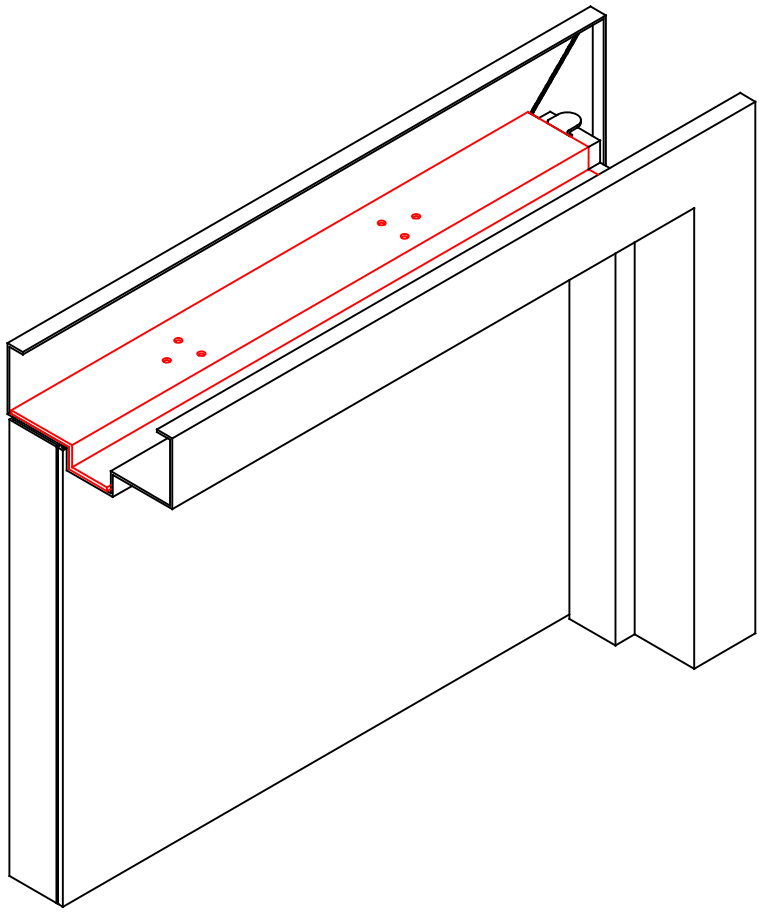


FWR

Full width parallel arm closer reinforcement, 12ga

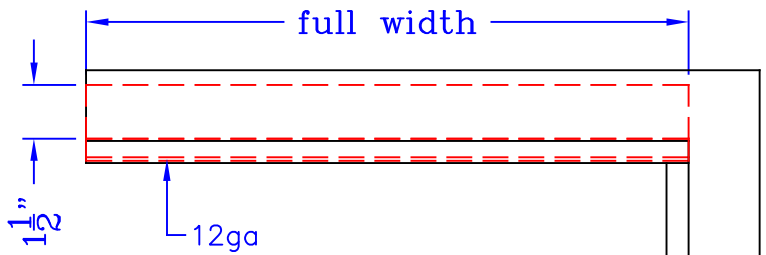
Projection welded

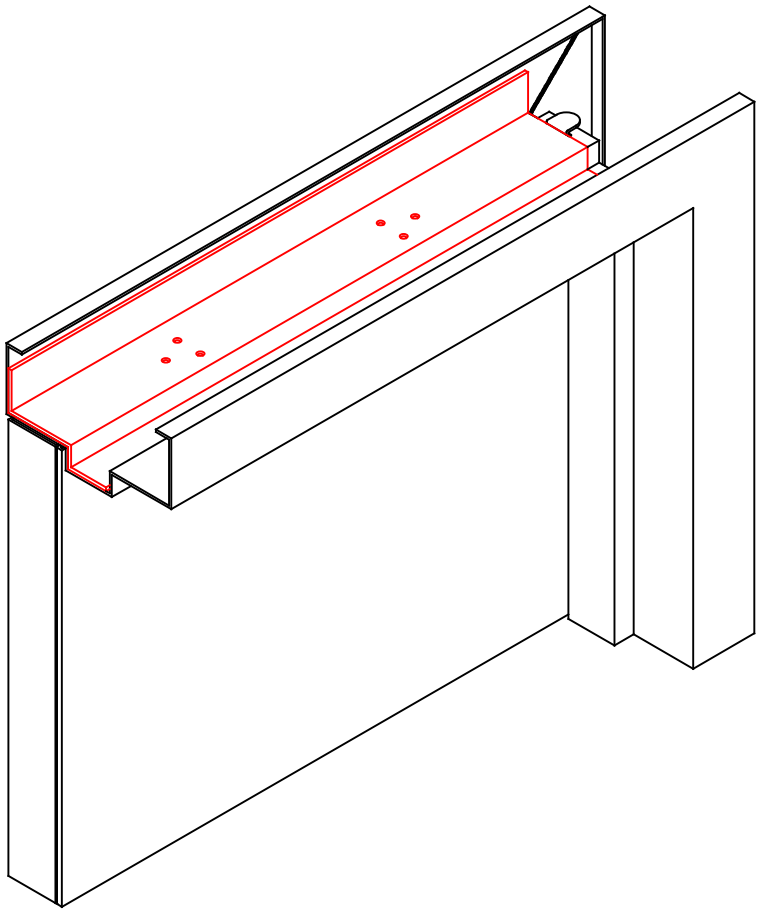




FWP

Full width regular and parallel arm closer reinforcement, 12ga
Projection welded

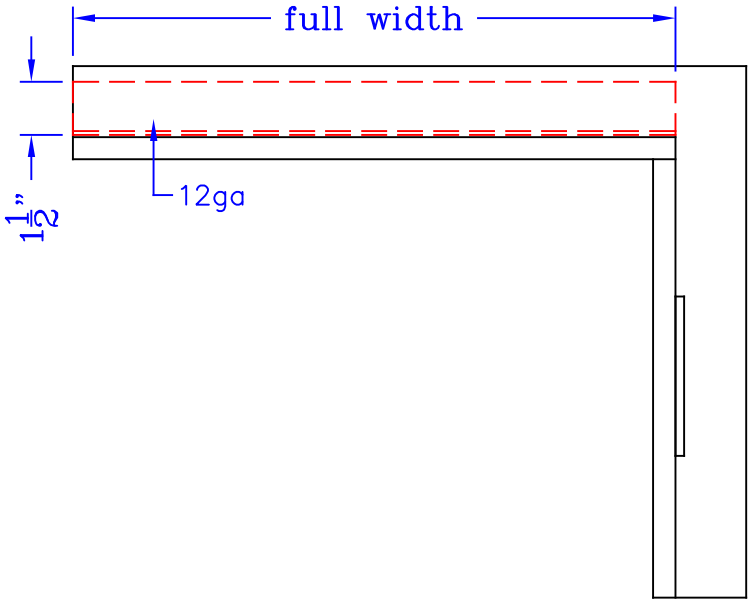


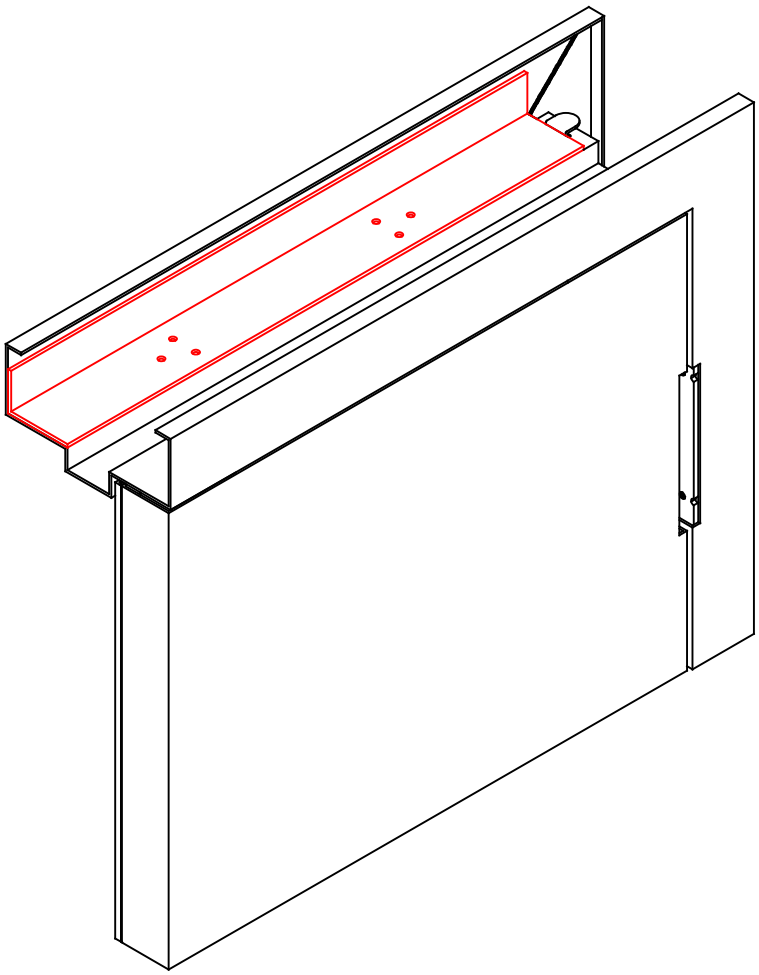


FWRP

Full width top jamb closer reinforcement, 12ga

Projection welded

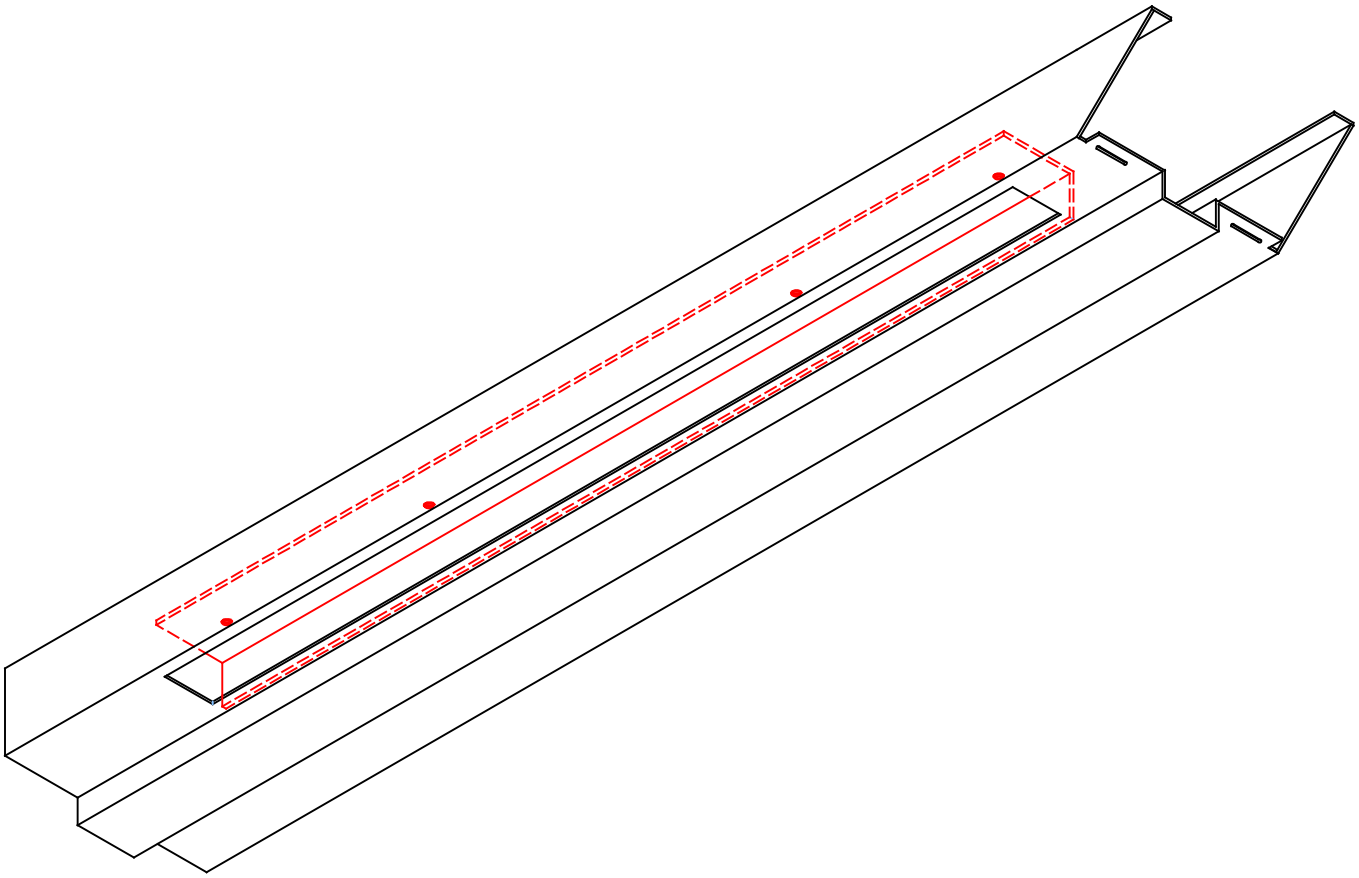


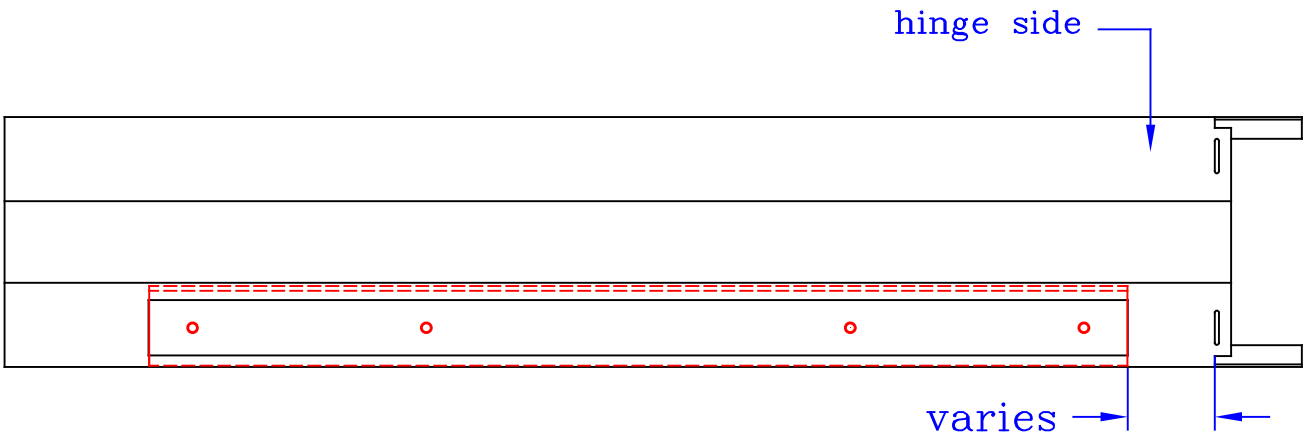


FWTJ

Concealed closer, 12ga

Spot welded

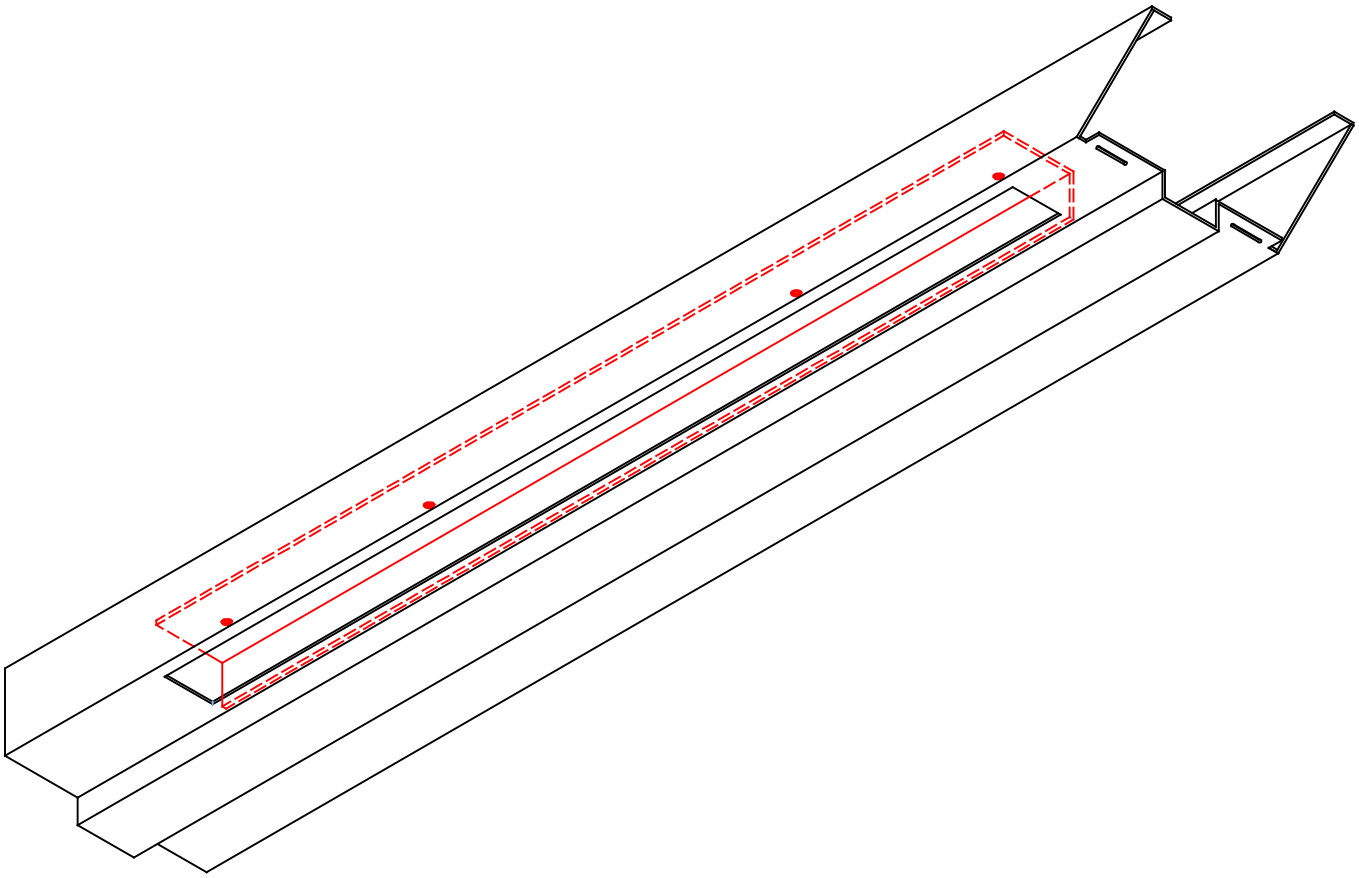


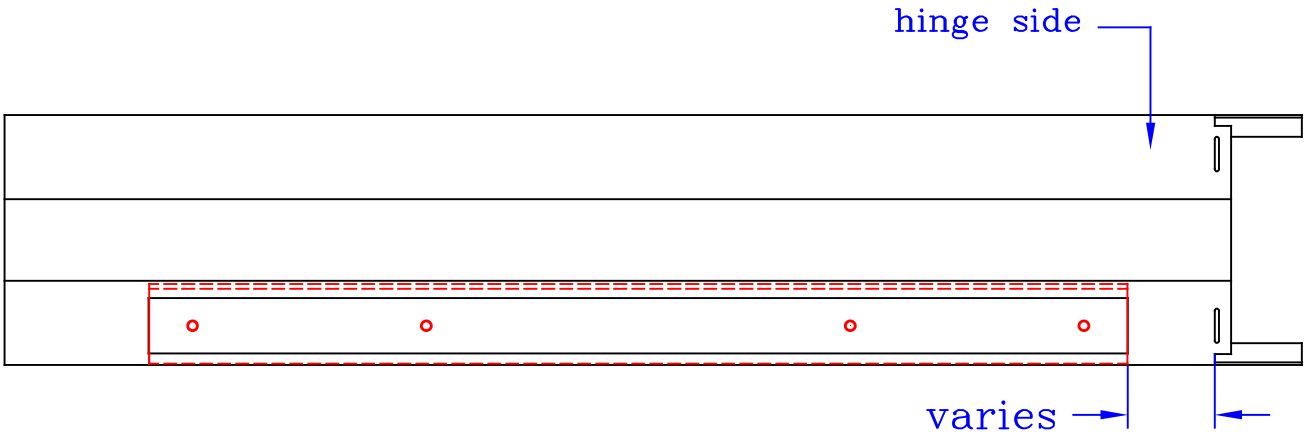


CCR

*manufacturer's template to be provided

Prep. for concealed overhead stop, 12ga
Spot welded



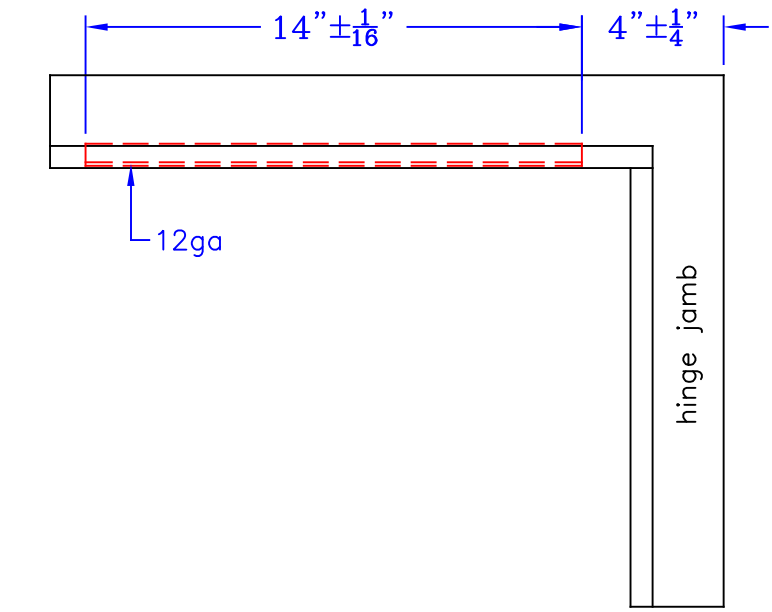


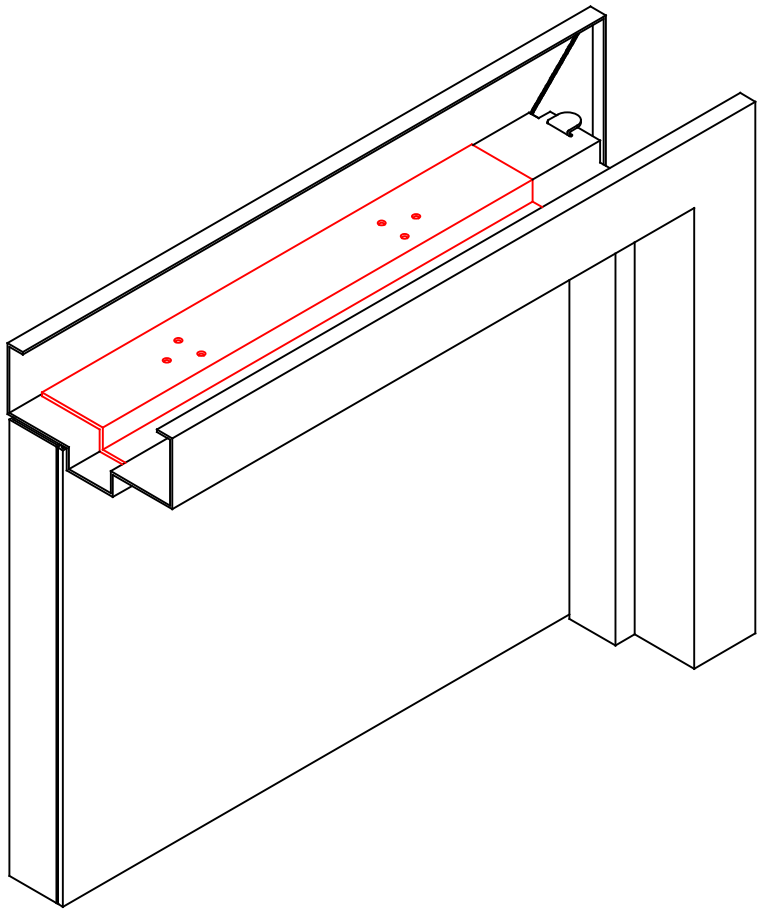
COHS

*manufacturer's template to be provided

Prep. for surface overhead stop, 12ga

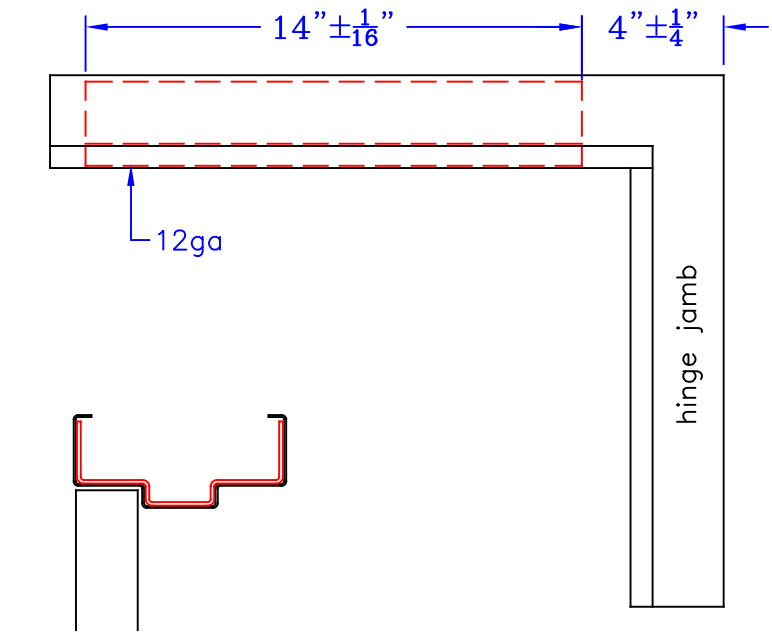
Projection welded

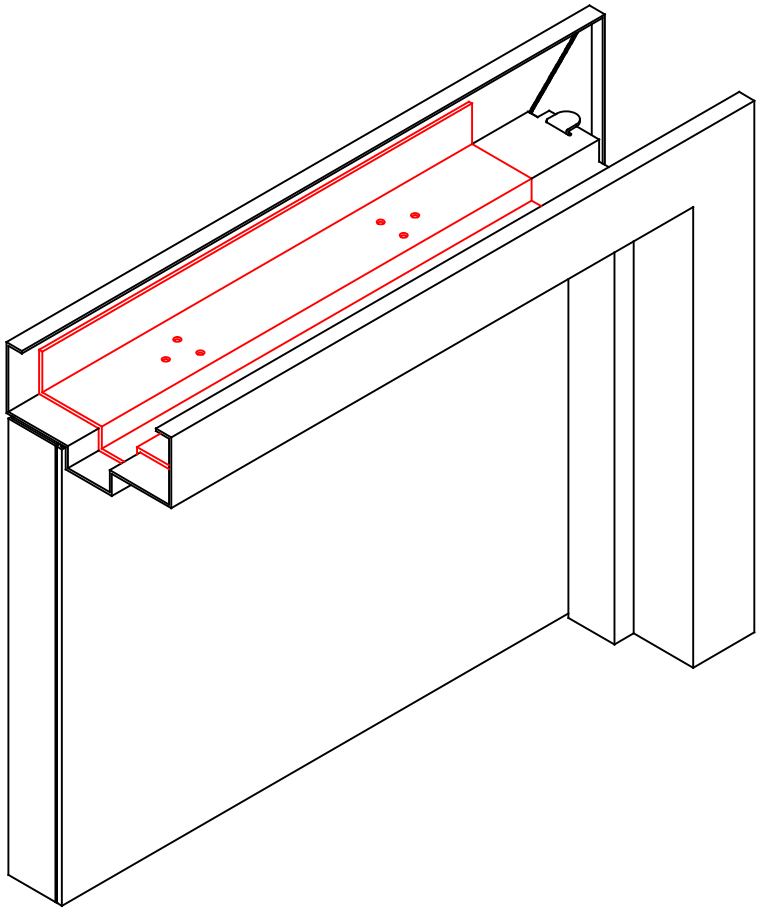




Full sleeve closer reinforcement, 12ga

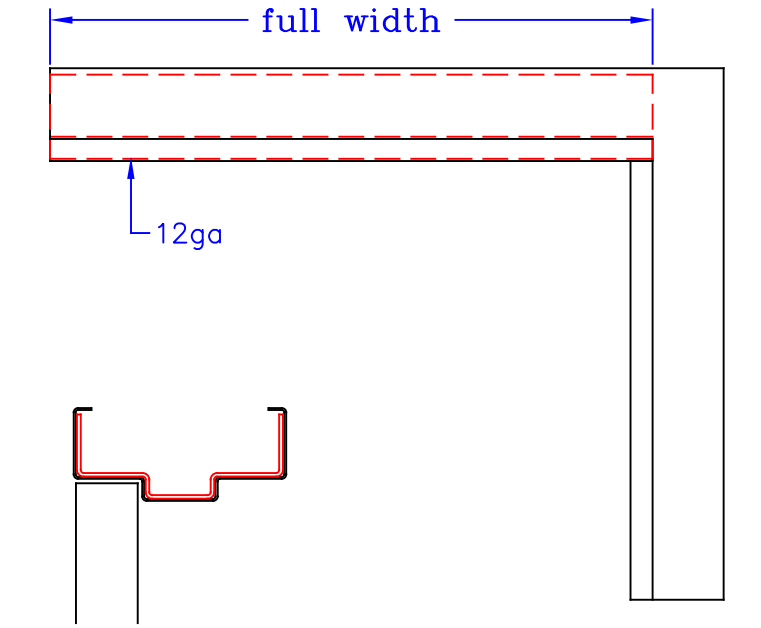
Projection welded

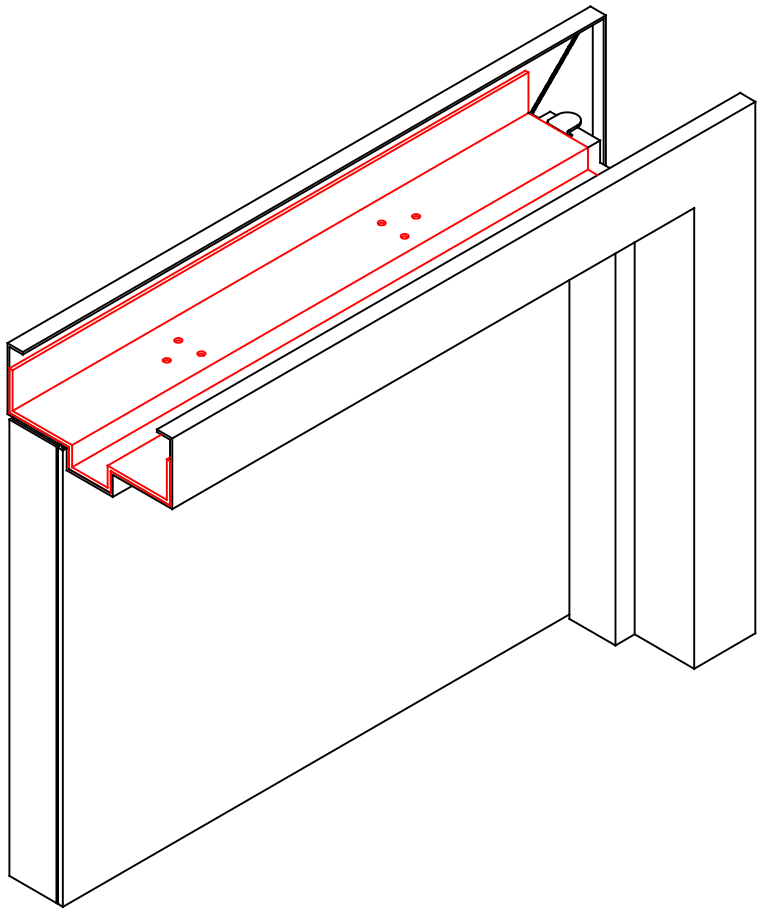




Full width full sleeve closer reinforcement, 12ga

Projection welded

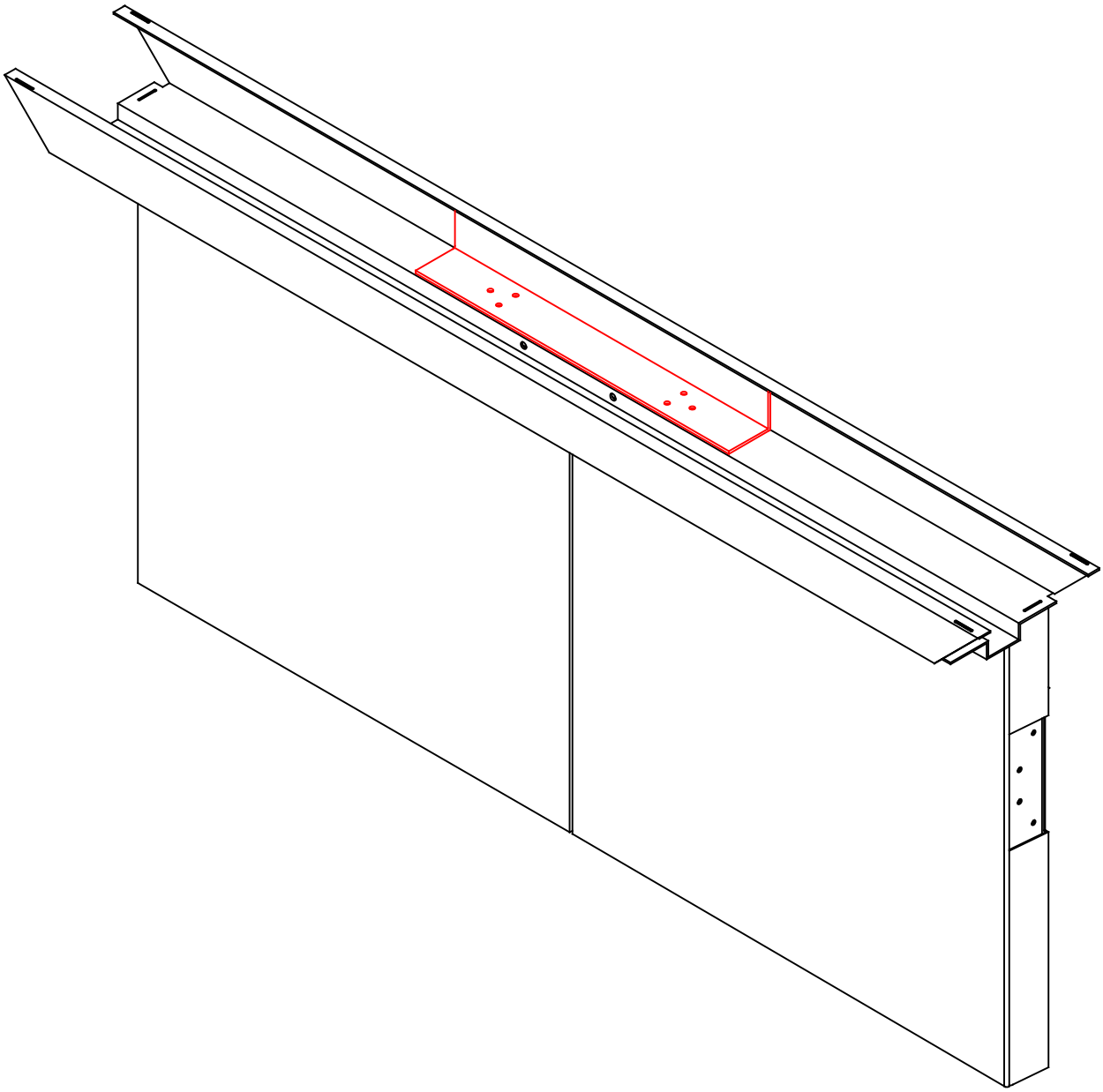


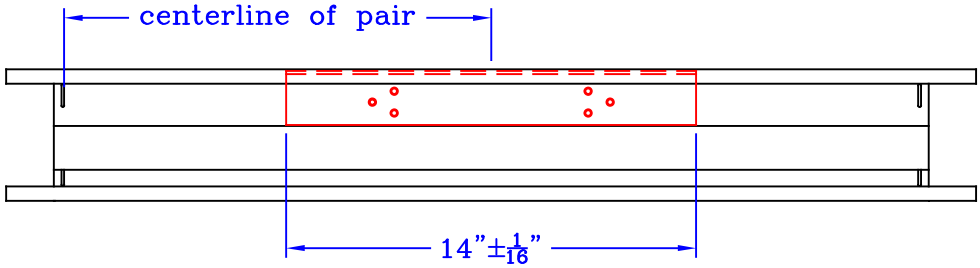


FWFS

Face mounted coordinator reinforcement, 12ga

Projection welded

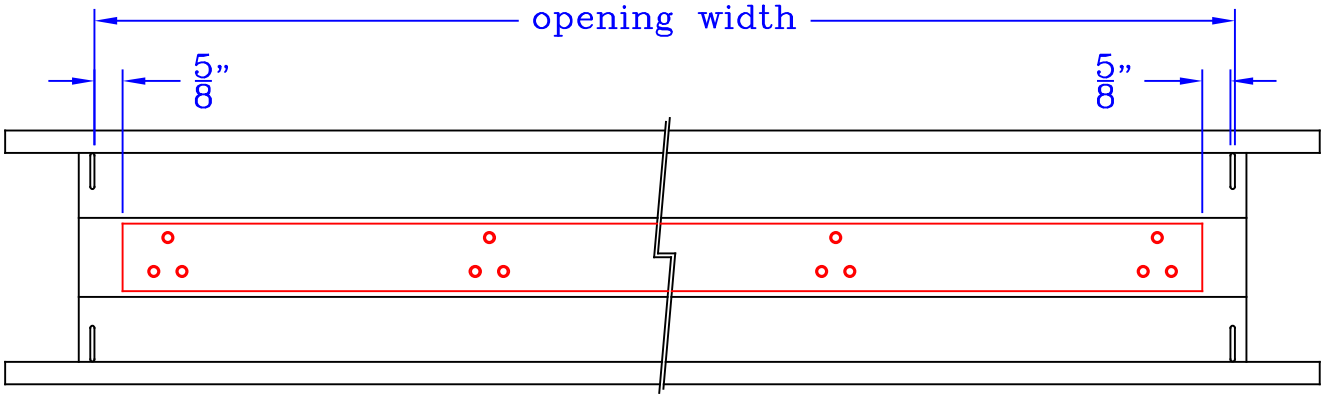


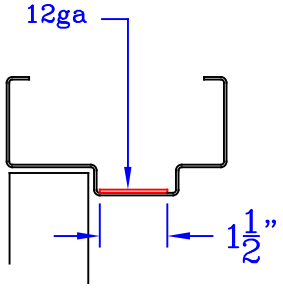


FCR

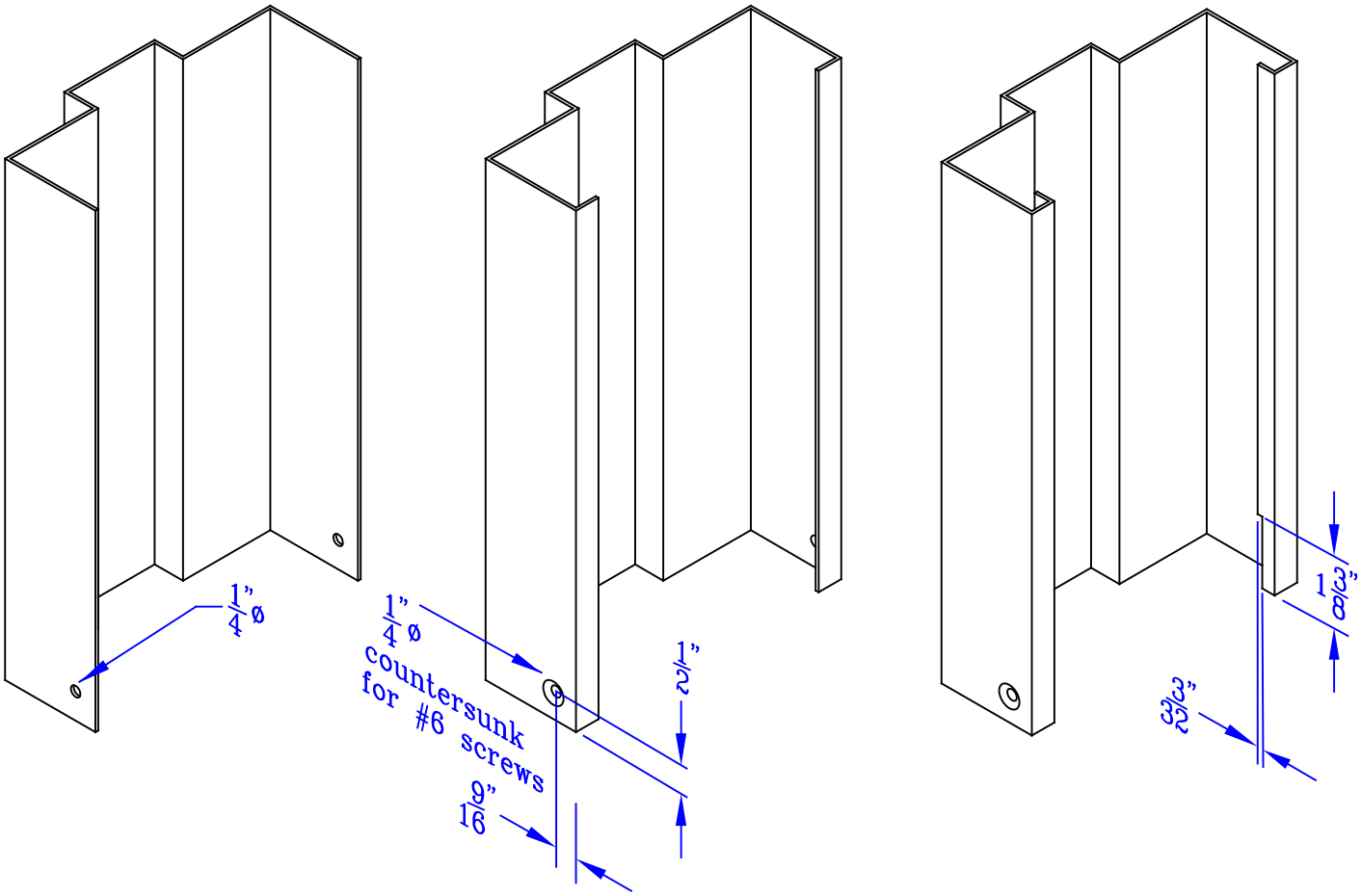
Soffit mounted coordinator reinforcement, 12ga

Projection welded





Screw base anchor



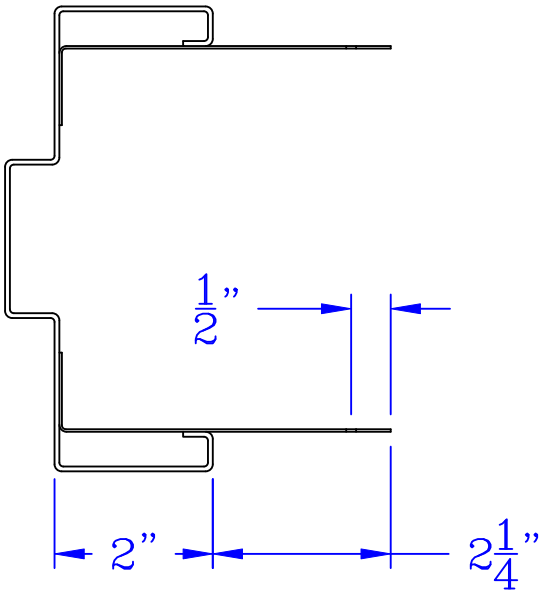
LR series SR series DW series

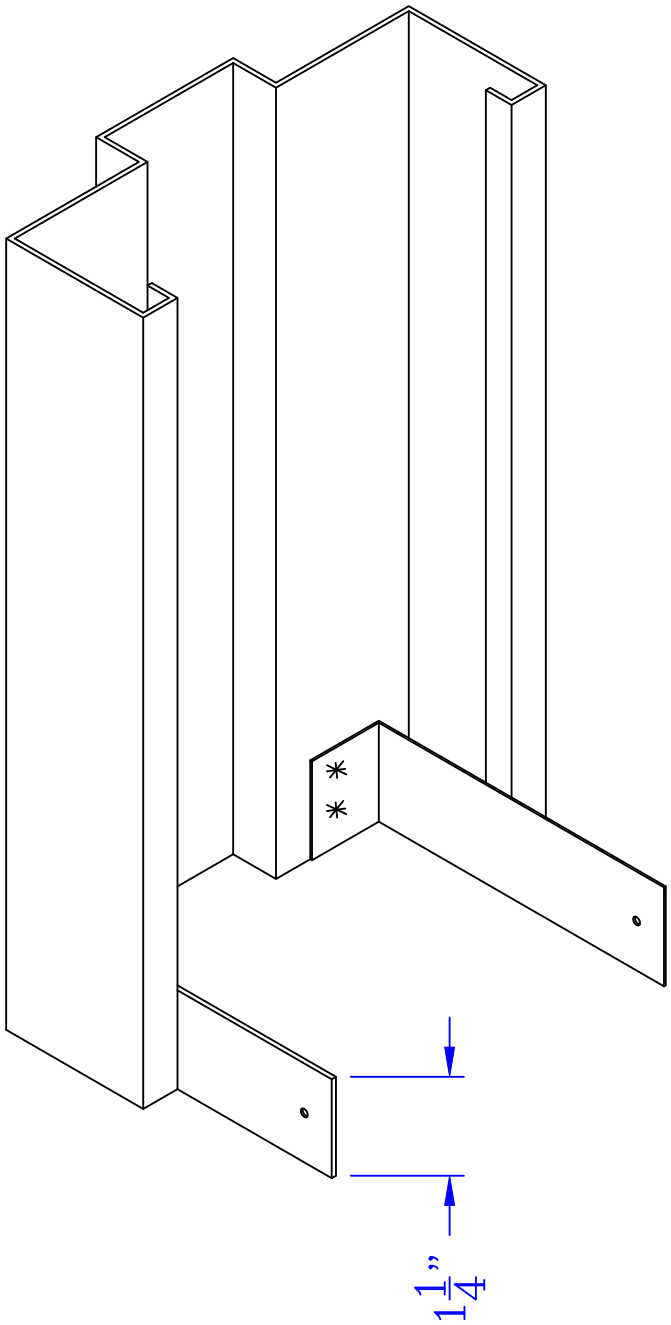
SBA

Fasteners by others, use #6 drywall screws.

Drywall strap anchor, 18ga

Spot welded



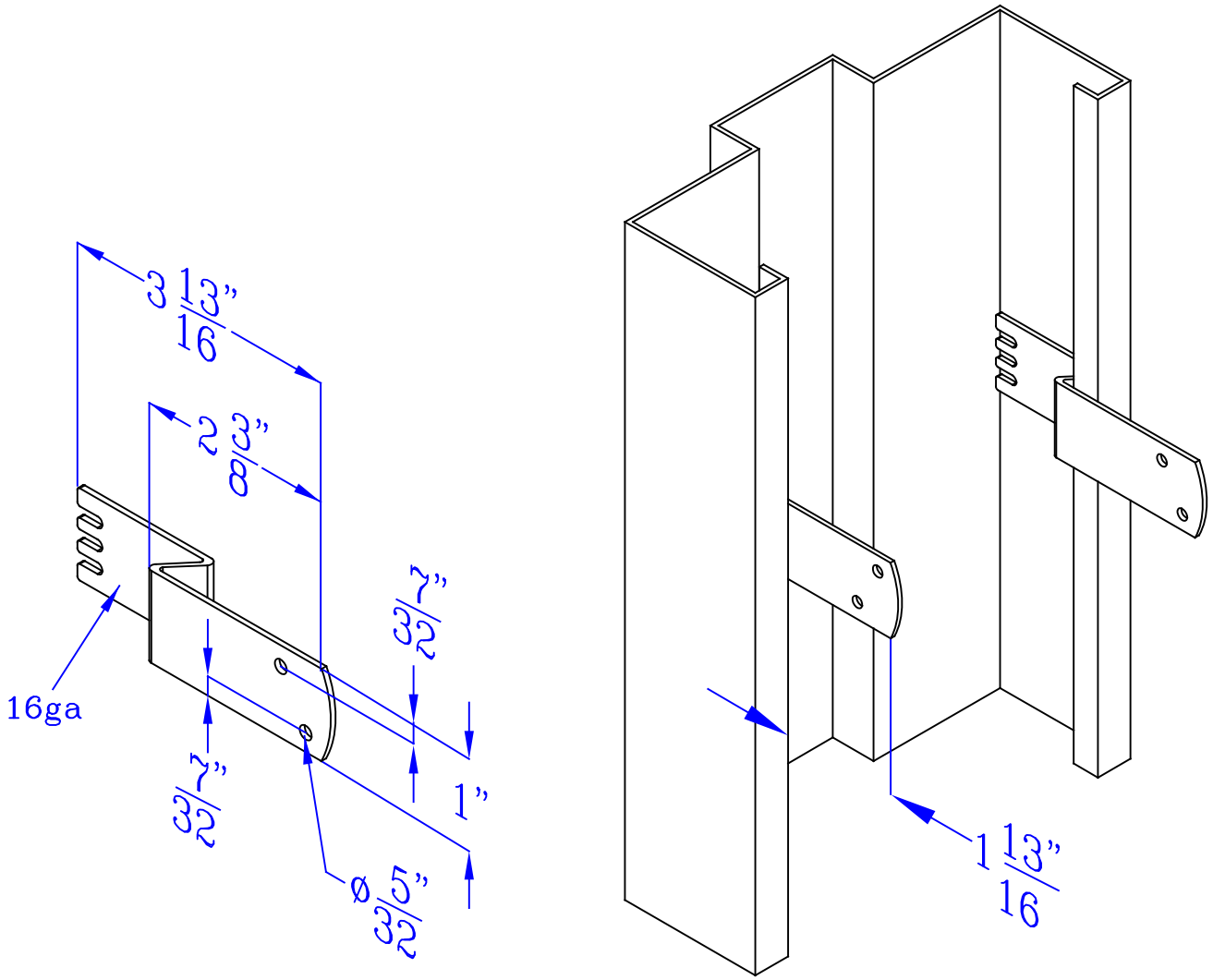


DSA

*at 5/8" from returns if requested on pre-drywall frame

Snap in anchor for drywall partition, 16ga

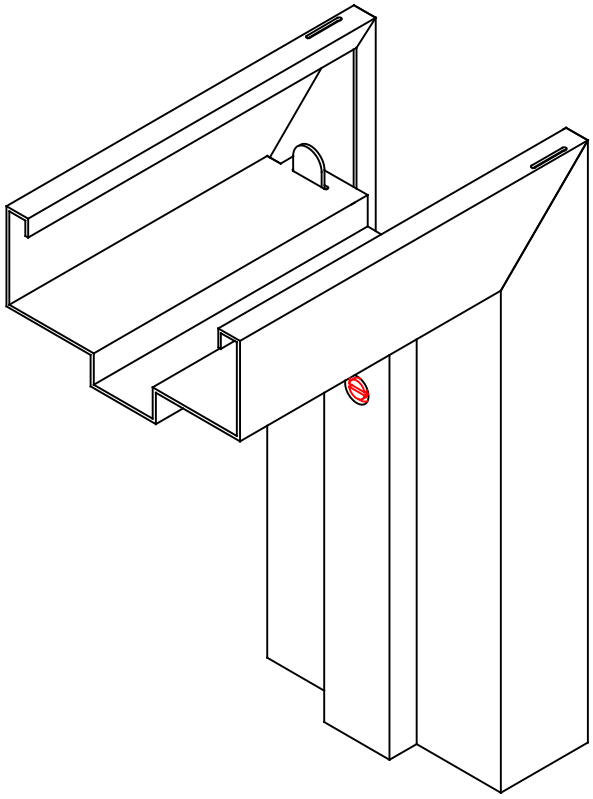
Shipped loose

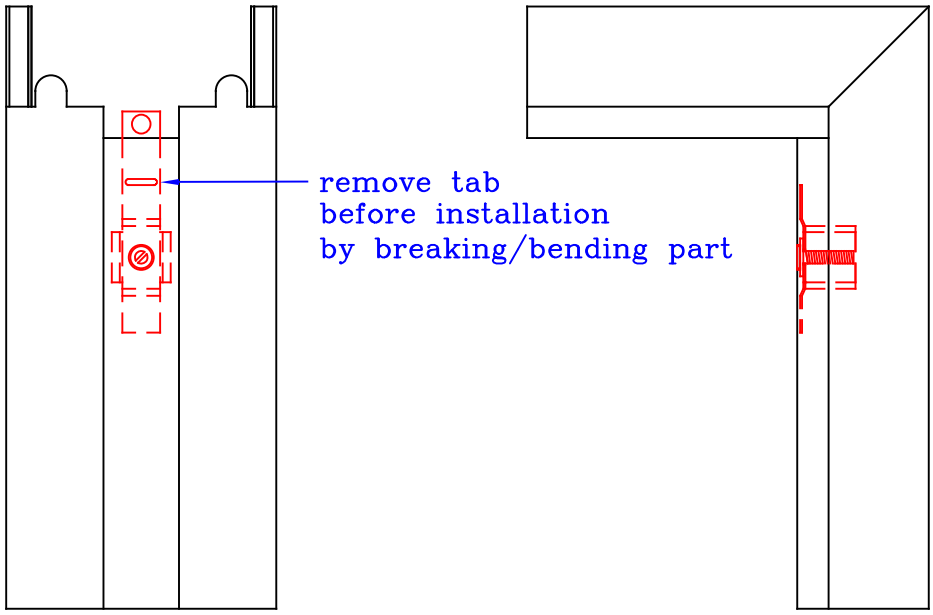


DW/DR series with 2" face and 16ga frame only.
Must order 2 pieces for a full anchor

Compression anchor, 18/20ga

Spot welded



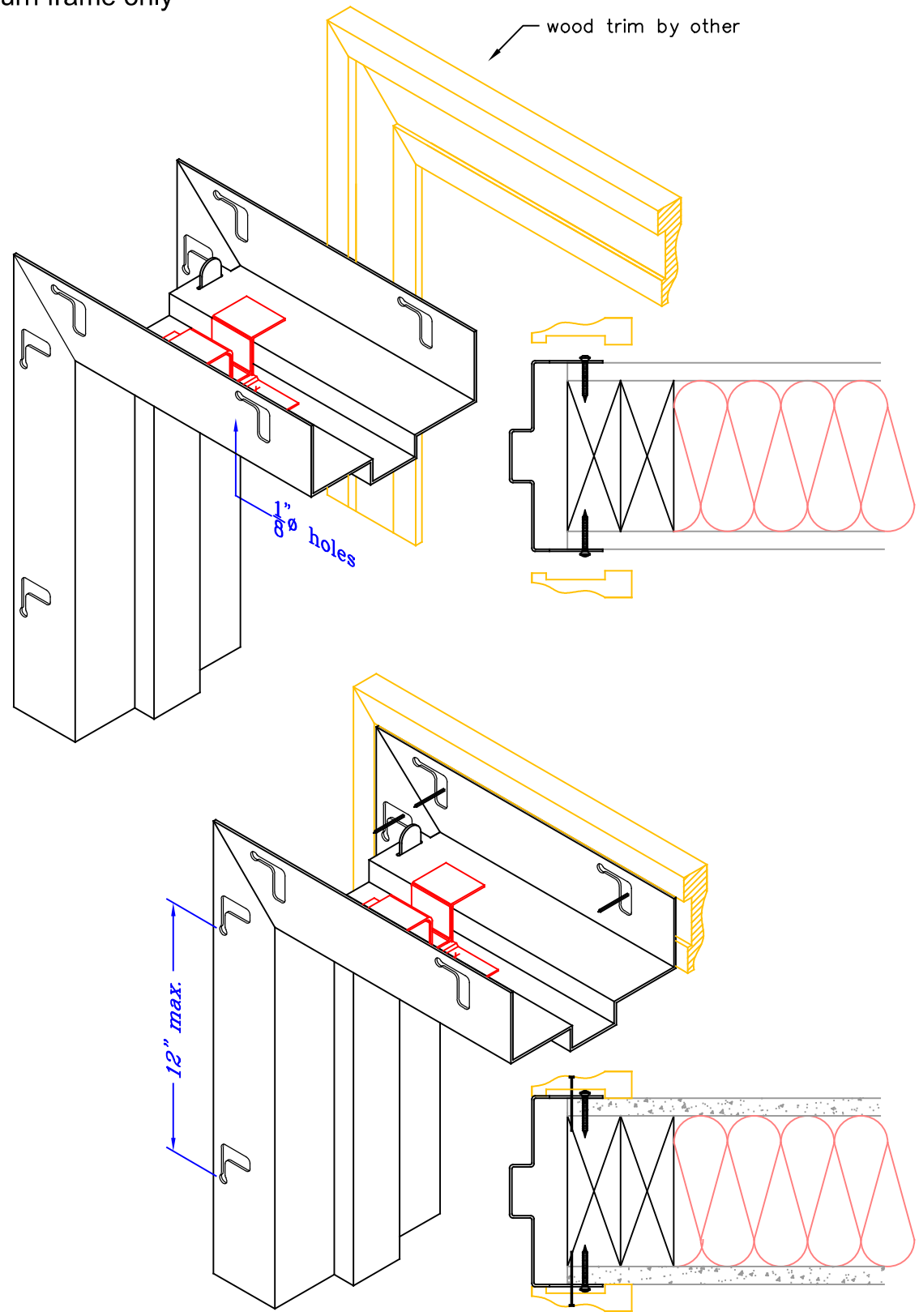


CPA

By default at knock down frames.
Additional CPA at head when 4" face and/or LR series.
2 of in width from 8-3/4"JD and up.

Wood trim prep

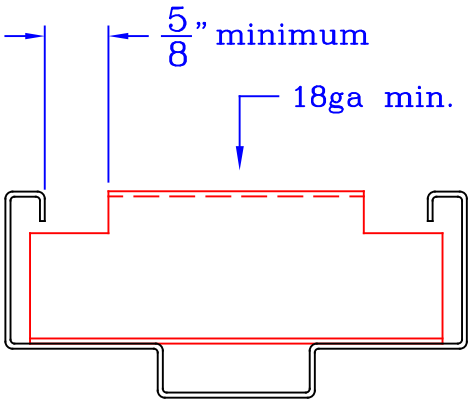
Less return frame only

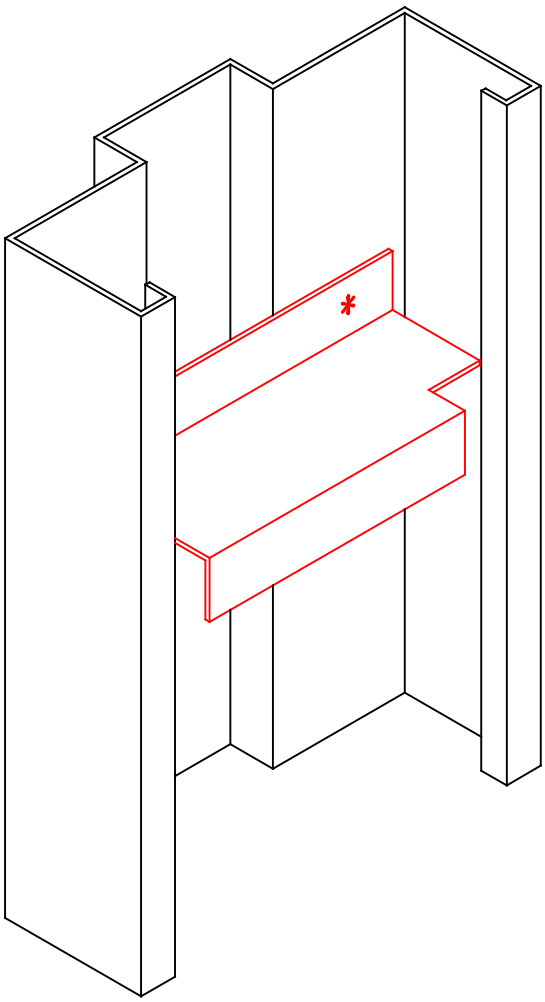


WTP

"Z" bracket anchor

Spot welded

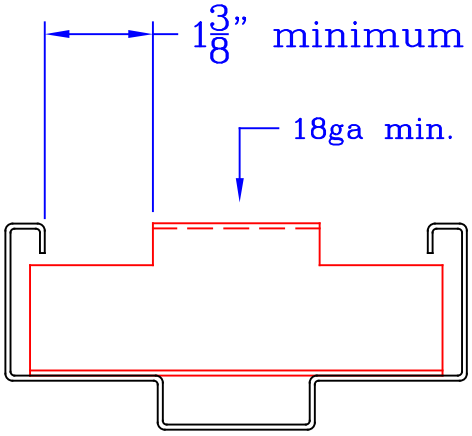


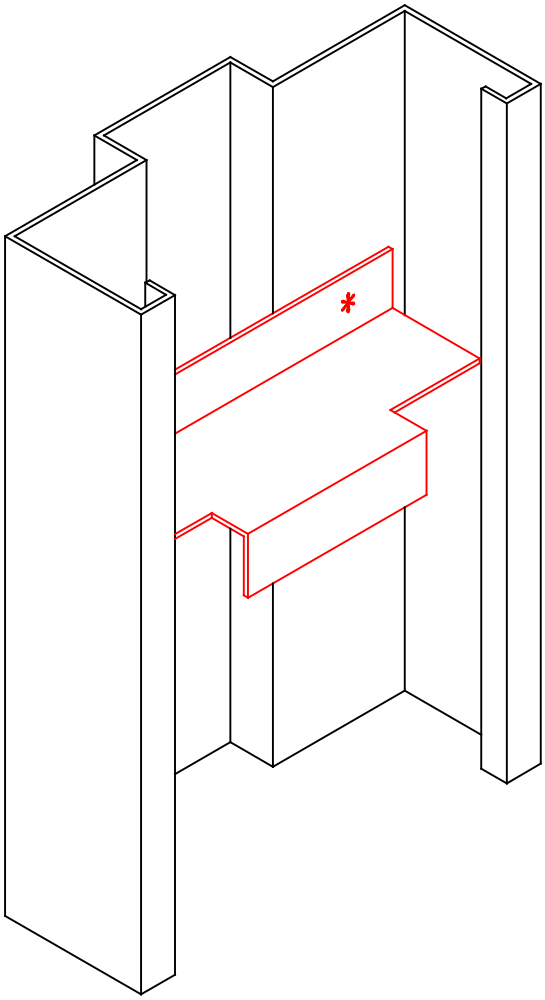


ZBA

"Z" bracket anchor for double layer of dryall

Spot welded

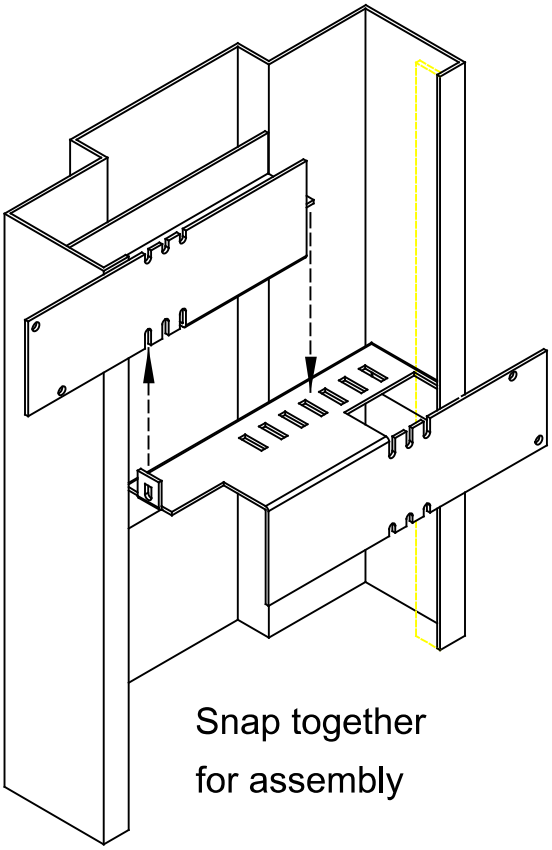




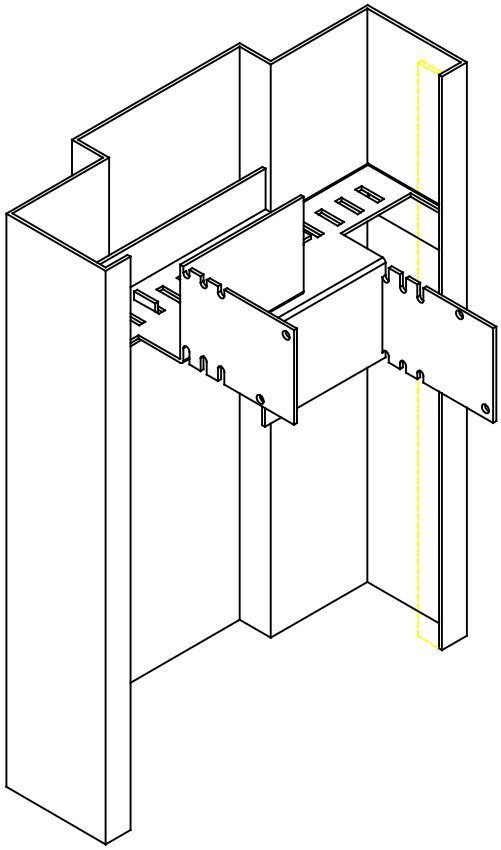
ZBA2

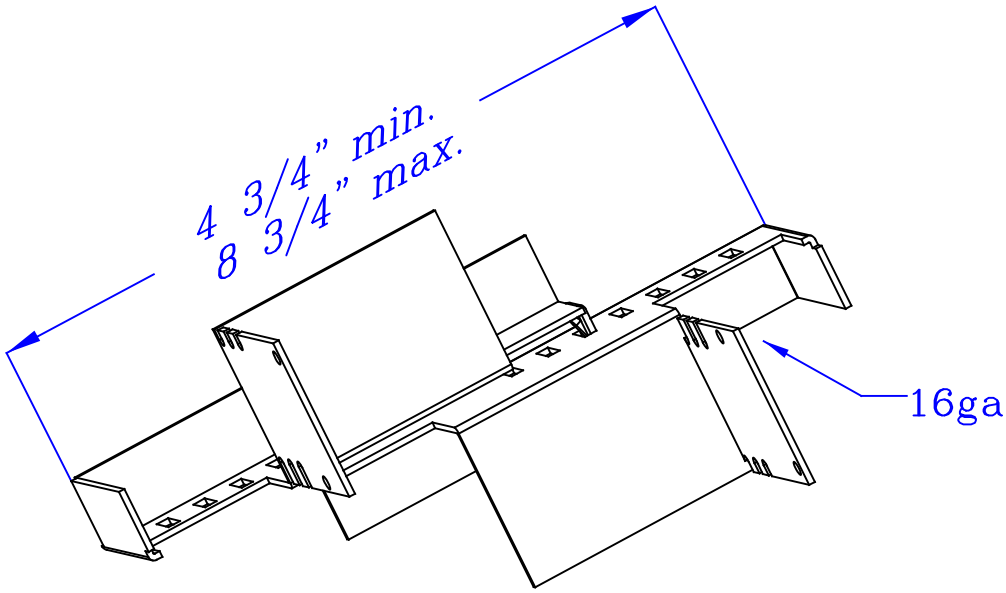
Snap in for wood and steel stud

Shipped loose



Snap together
for assembly



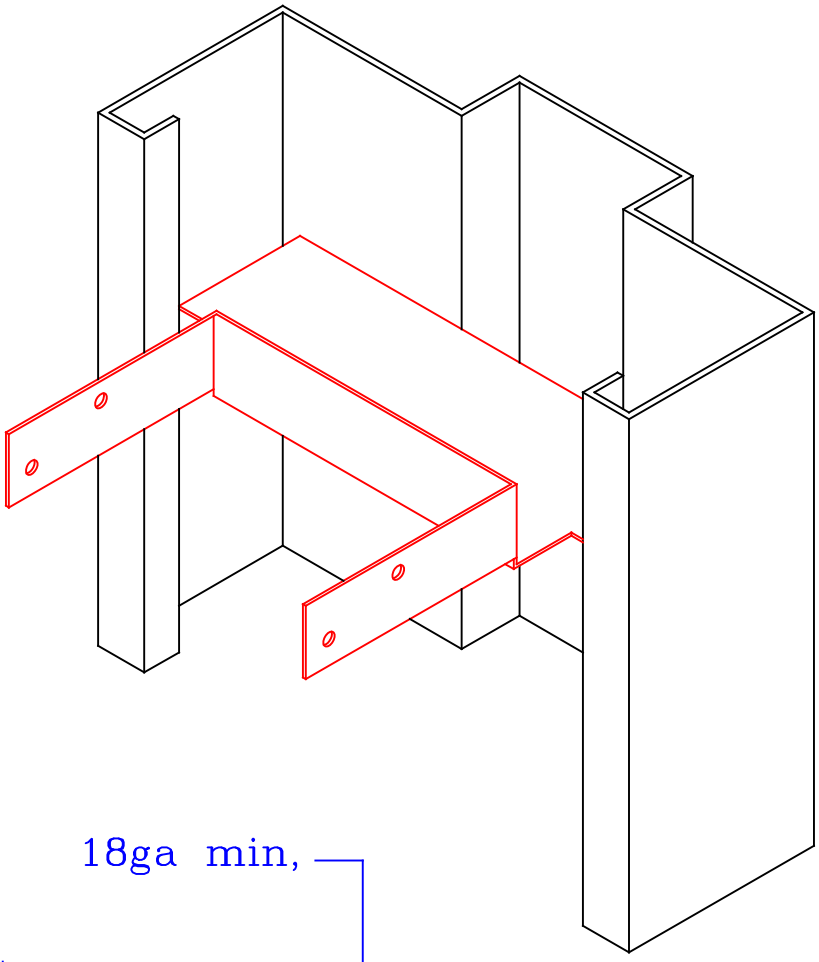


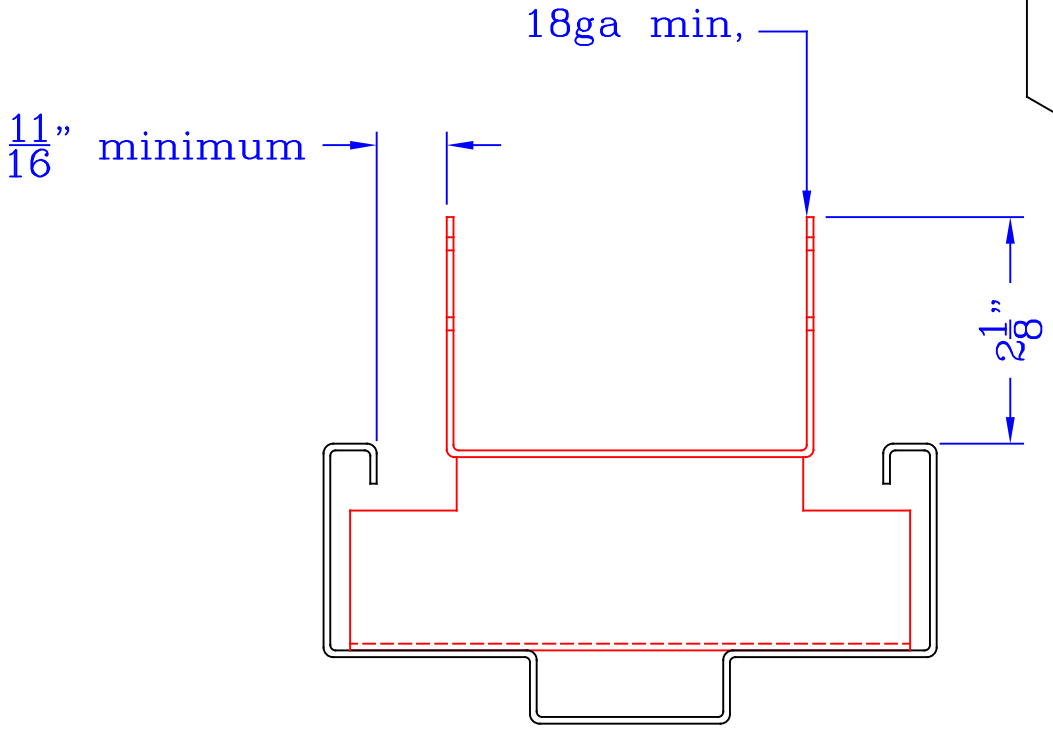
SWS

Available for 4 3/4", 5 1/4", 5 3/4", 6 1/4", 6 3/4", 7 1/4", 7 3/4", 8 1/4" & 8 3/4"JD.
Anchor can be adjusted to work with jamb depth ± 1/8" of ones listed above.

Combination wood and steel stud anchor

Spot welded



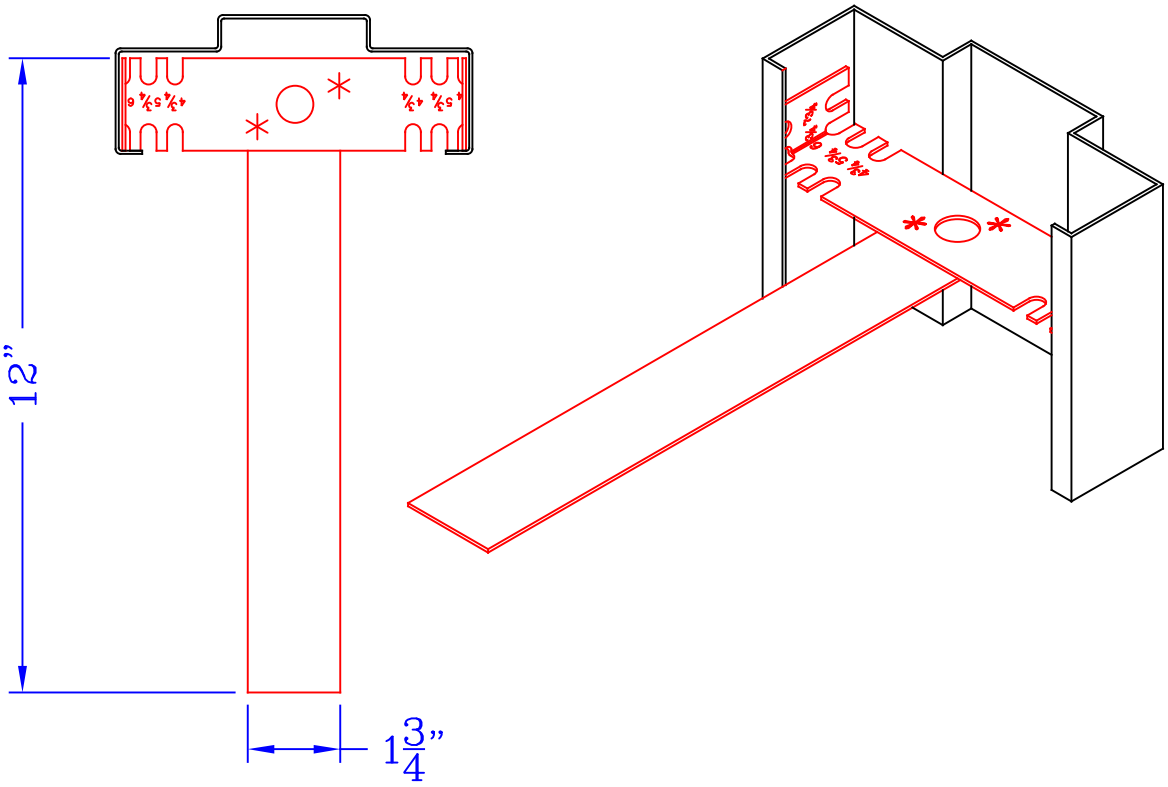


DCA

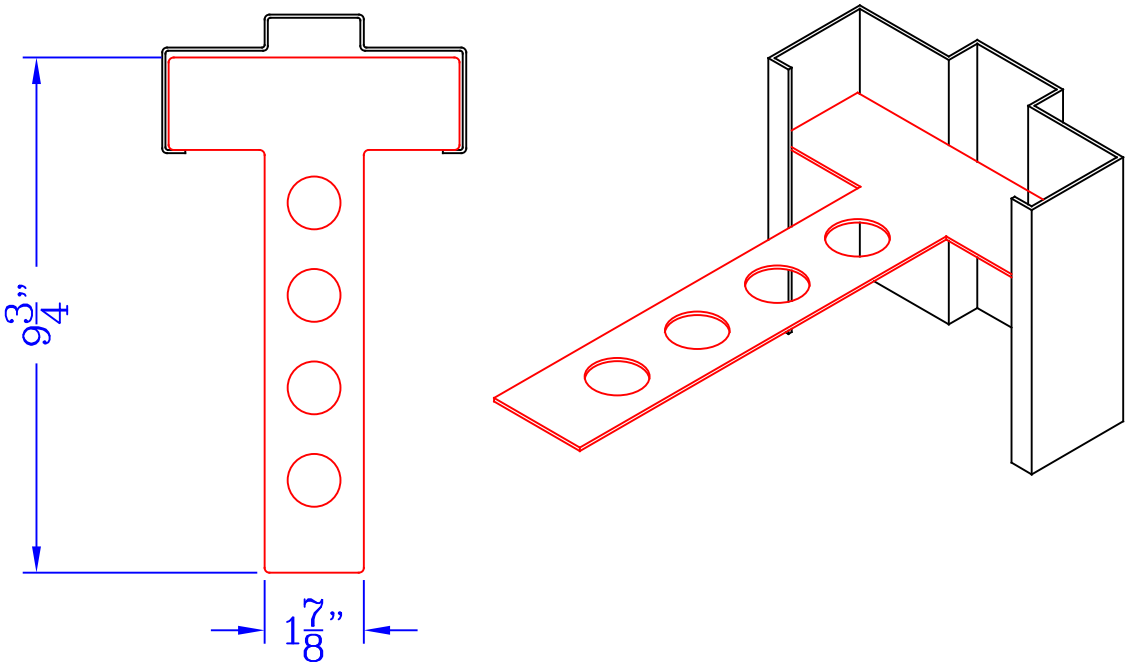
"T" masonry anchor, 16ga

Shipped loose

From 4 3/4" to 8 3/4" JD



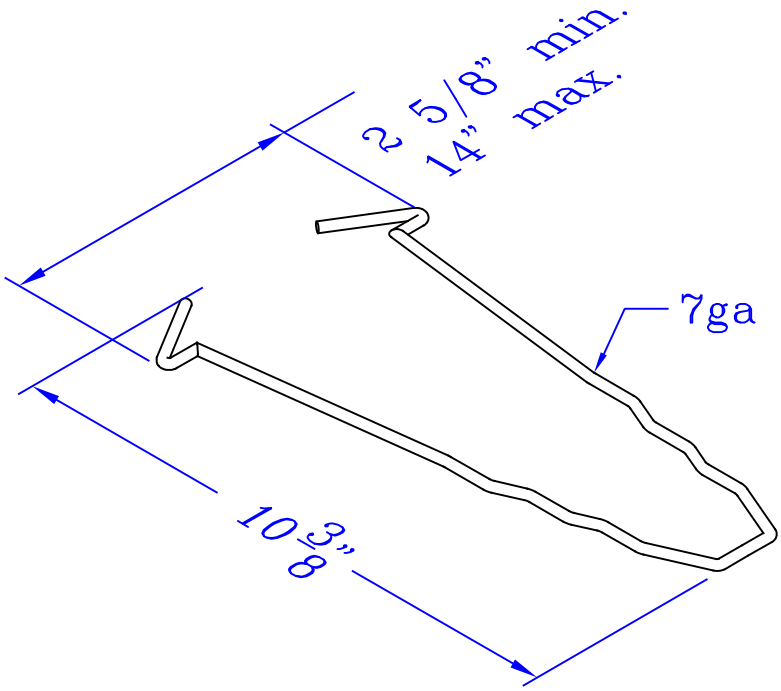
SR16 5 3/4"-4 7/8" frames

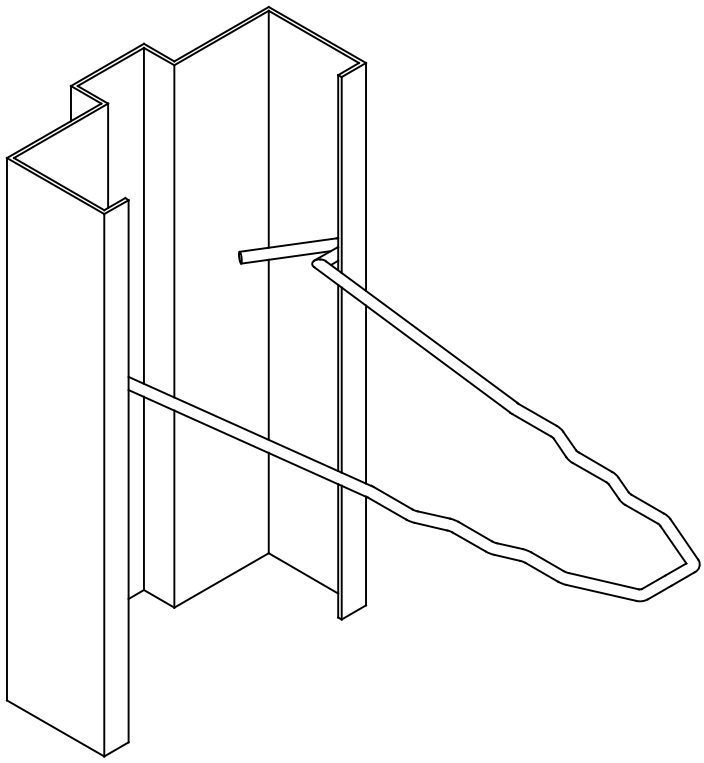


Available for DR series.

Wire masonry anchor

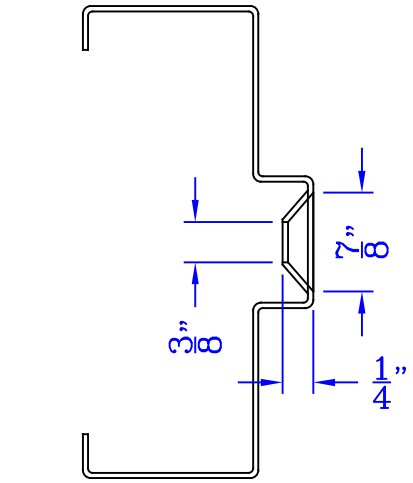
Shipped loose

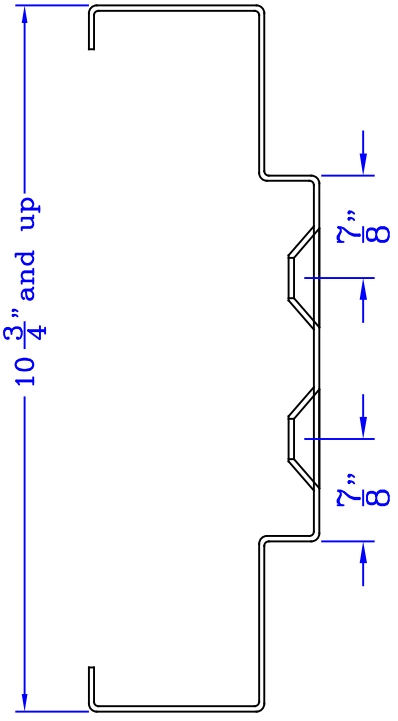


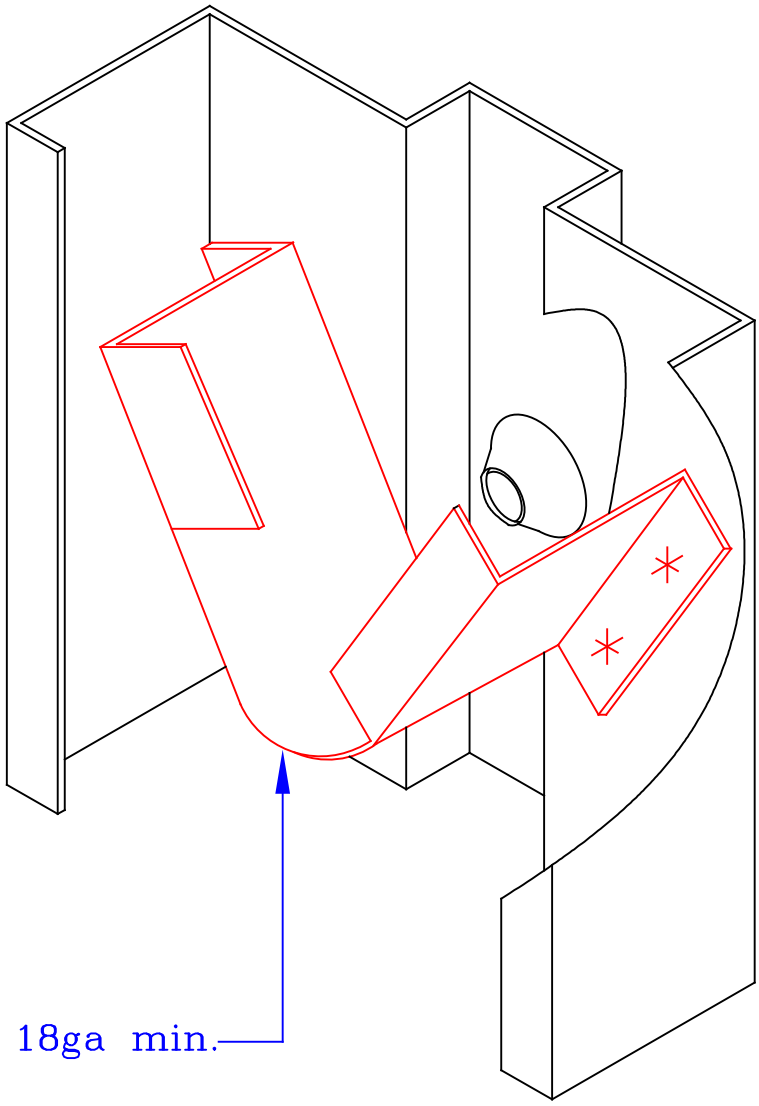


Existing wall anchor

Spot welded





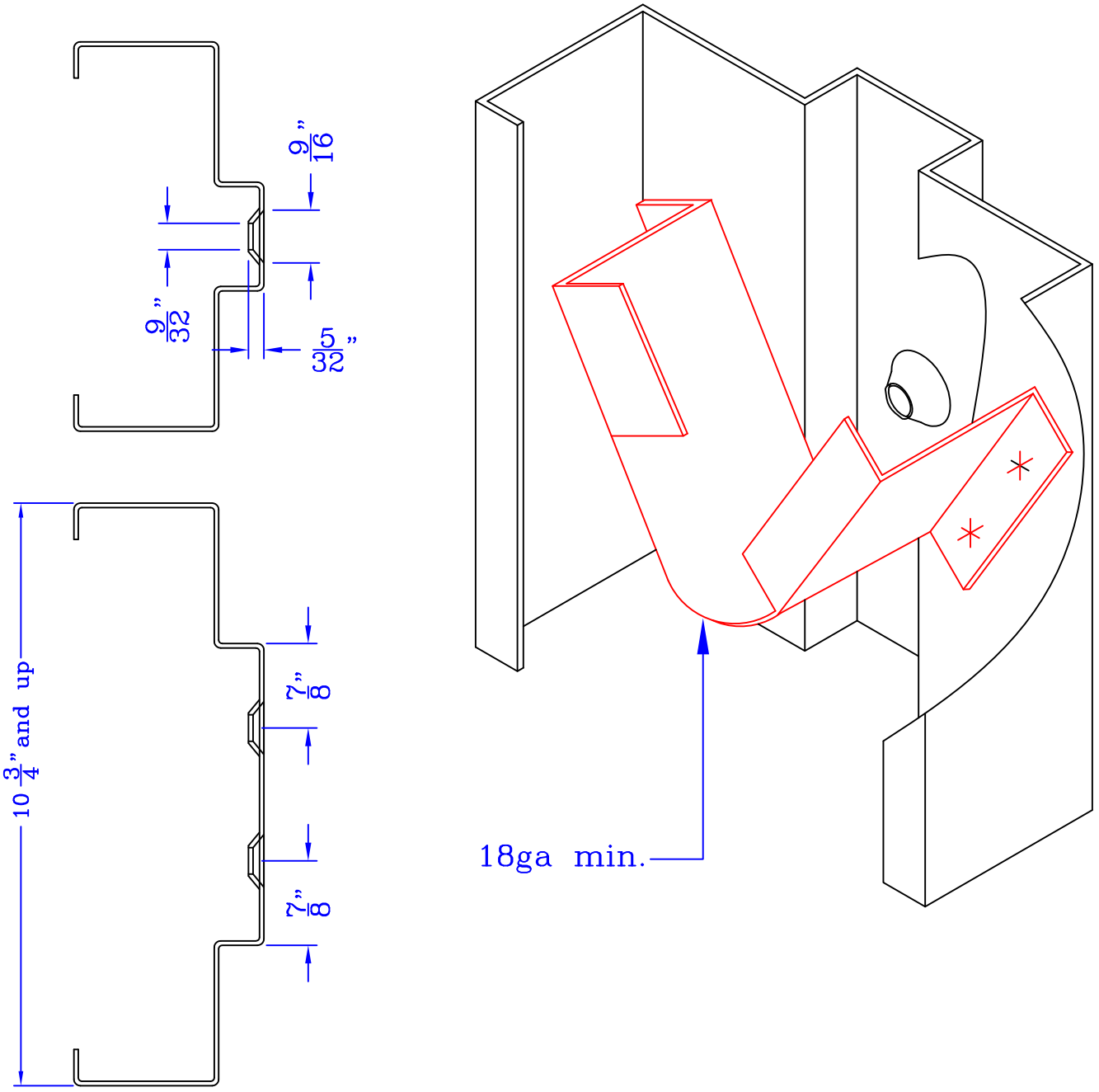


EWA

Dynabolts are optional see option DYN4 and DYN5.

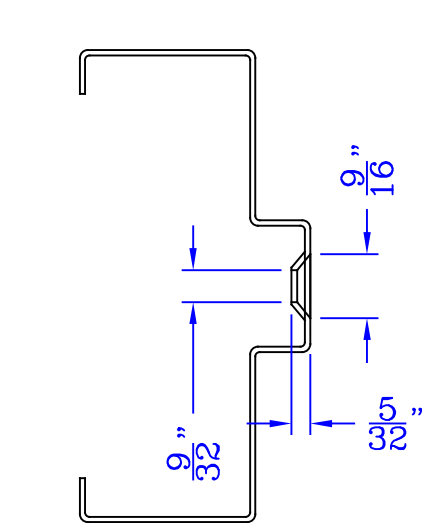
Existing wall anchor for 1/4" screw

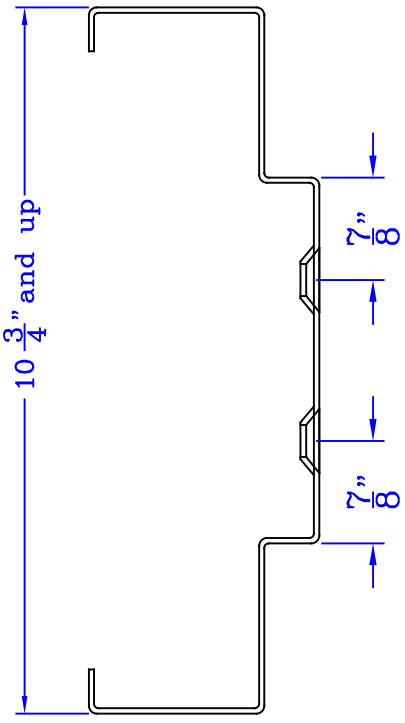
Spot welded

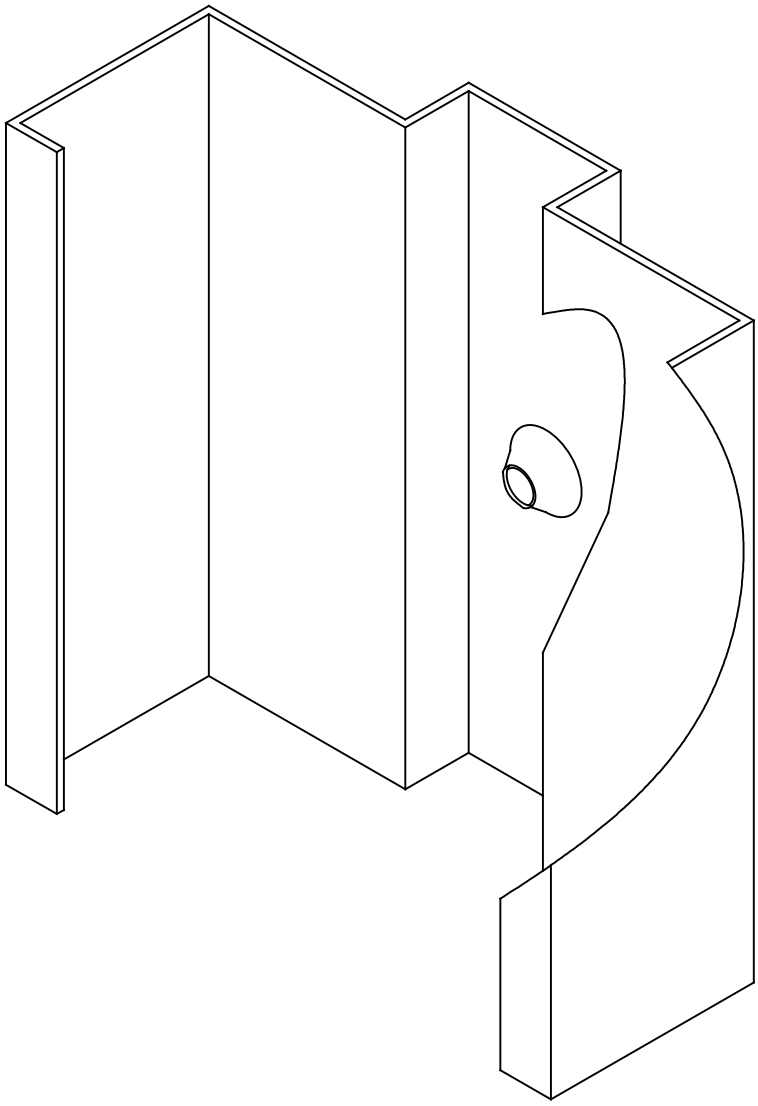


1/4" wood screws by others.

Existing wall anchor for 1/4" screw without reinforcement

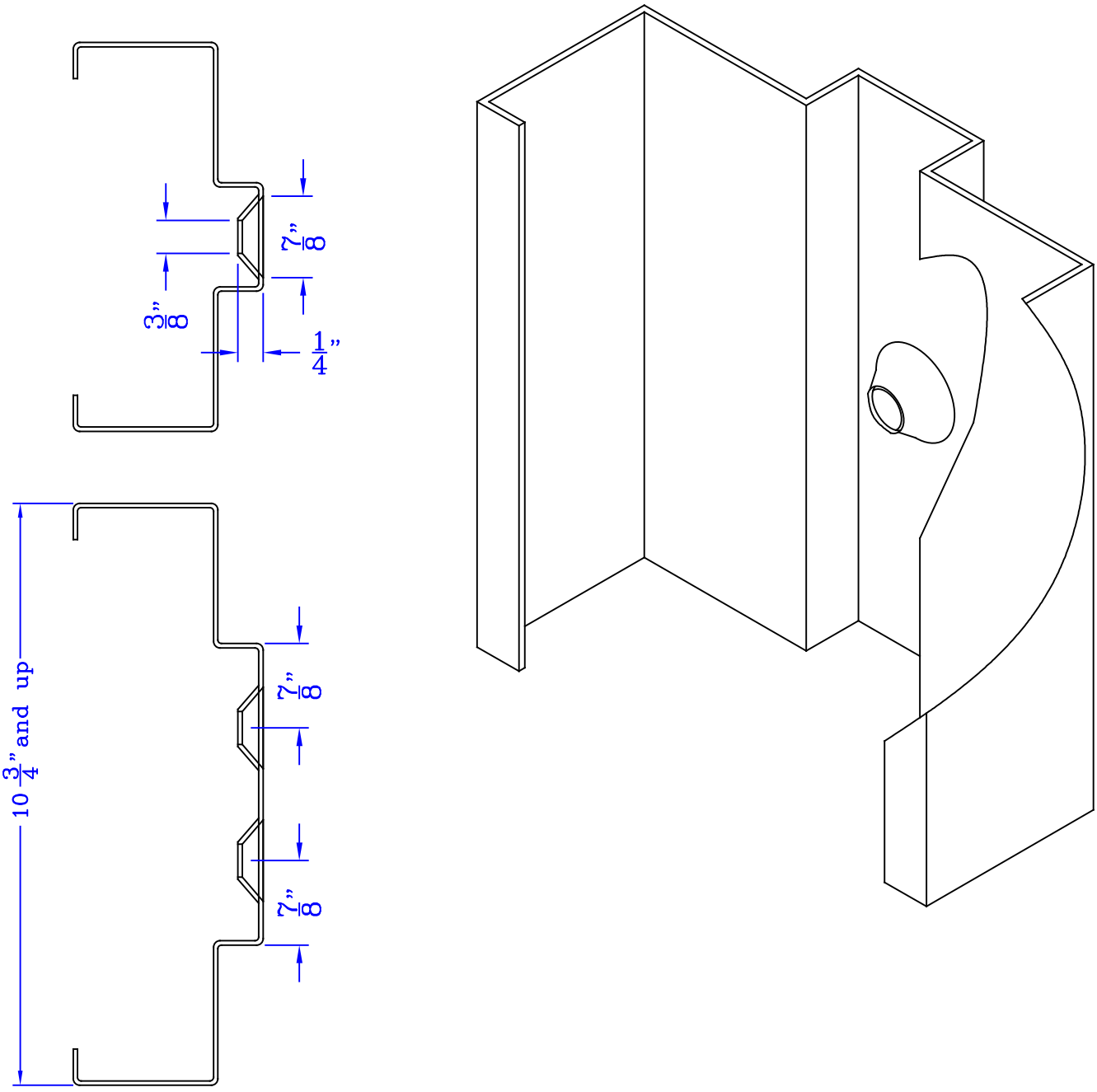






1/4" wood screws by others.

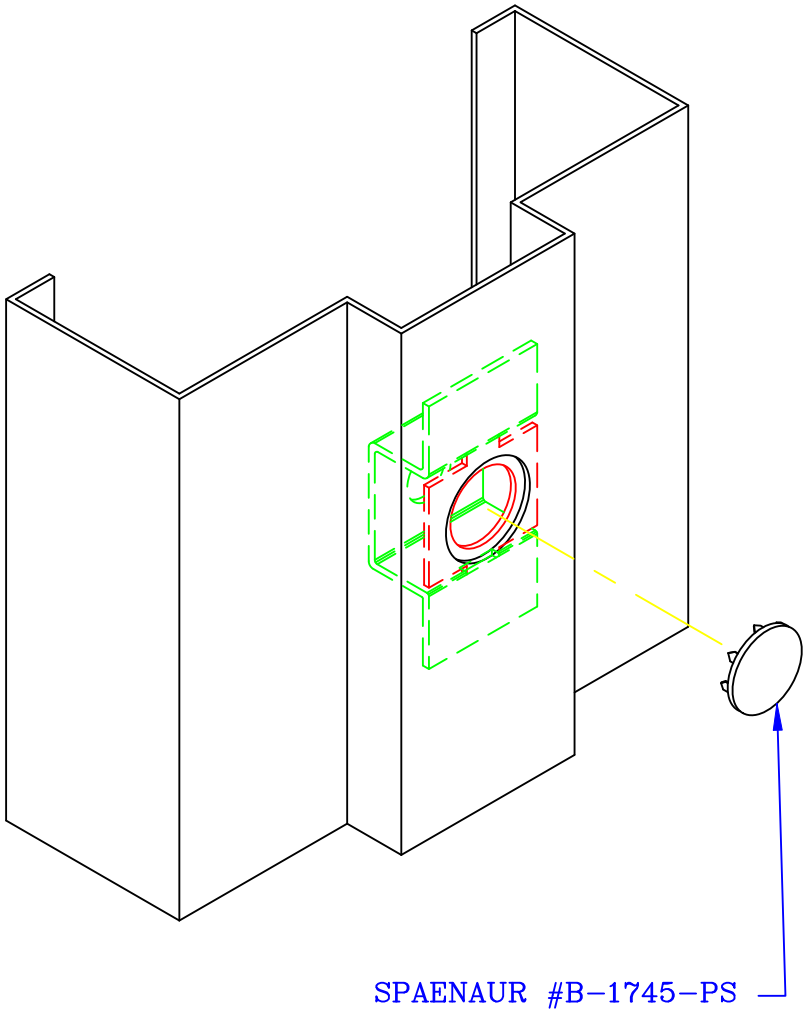
Existing wall anchor without reinforcement

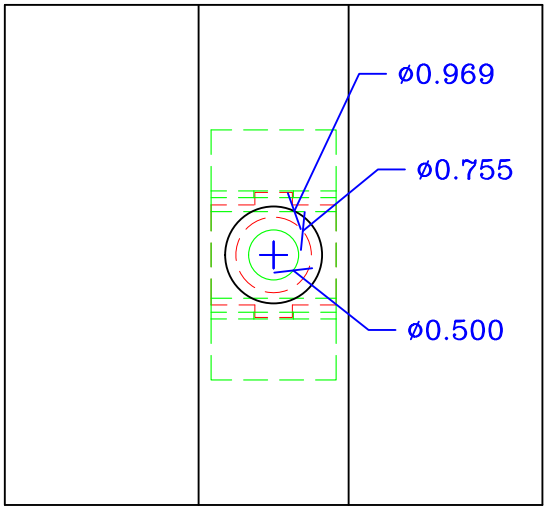


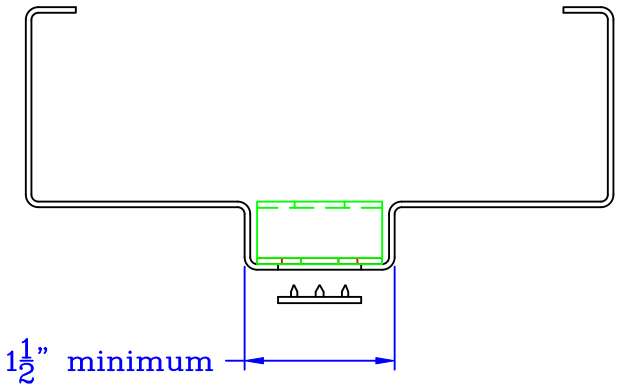
Dynabolts are optional see option DYN4 and DYN5.

Existing wall anchor with plug

Spot welded



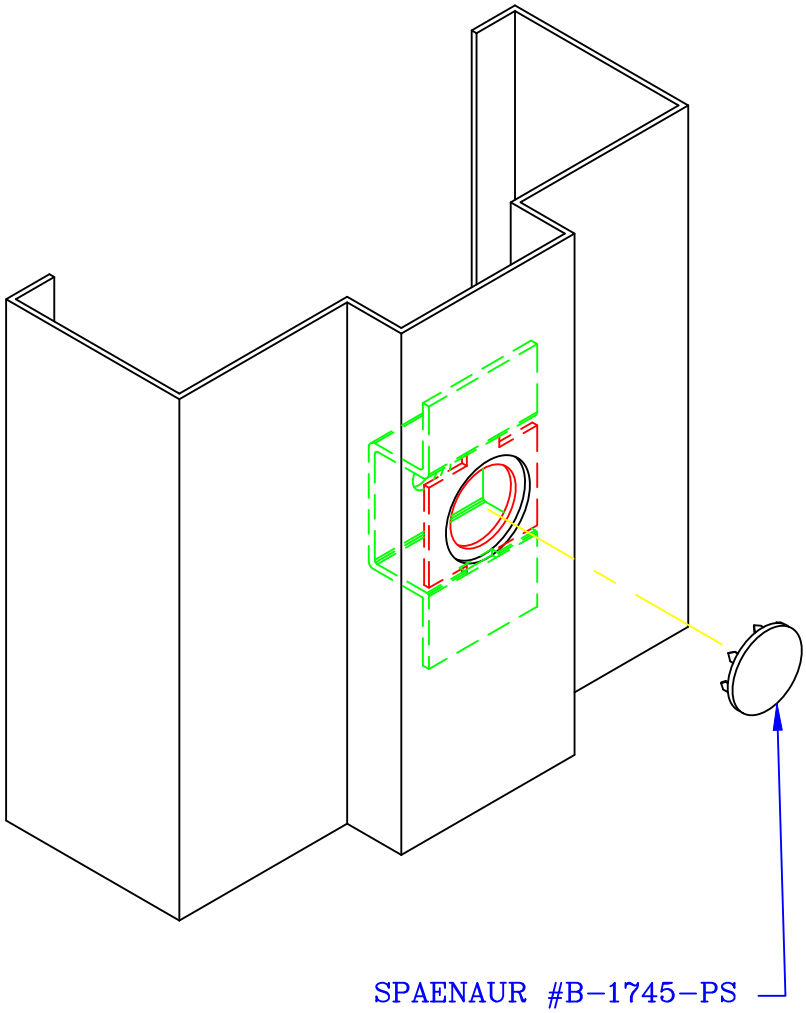


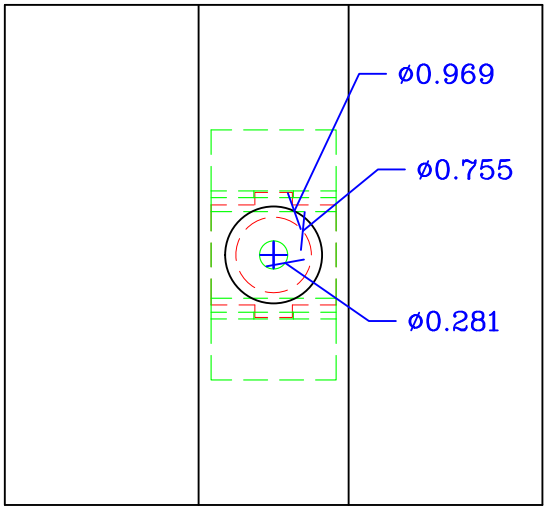


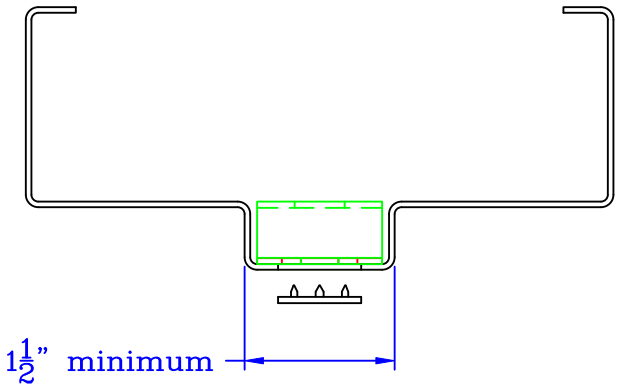
2 sets of anchors for 10 3/4" JD and up.
Dynabolts are optional see option DYN4 and DYN5.

Existing wall anchor for 1/4" screw with plug

Spot welded



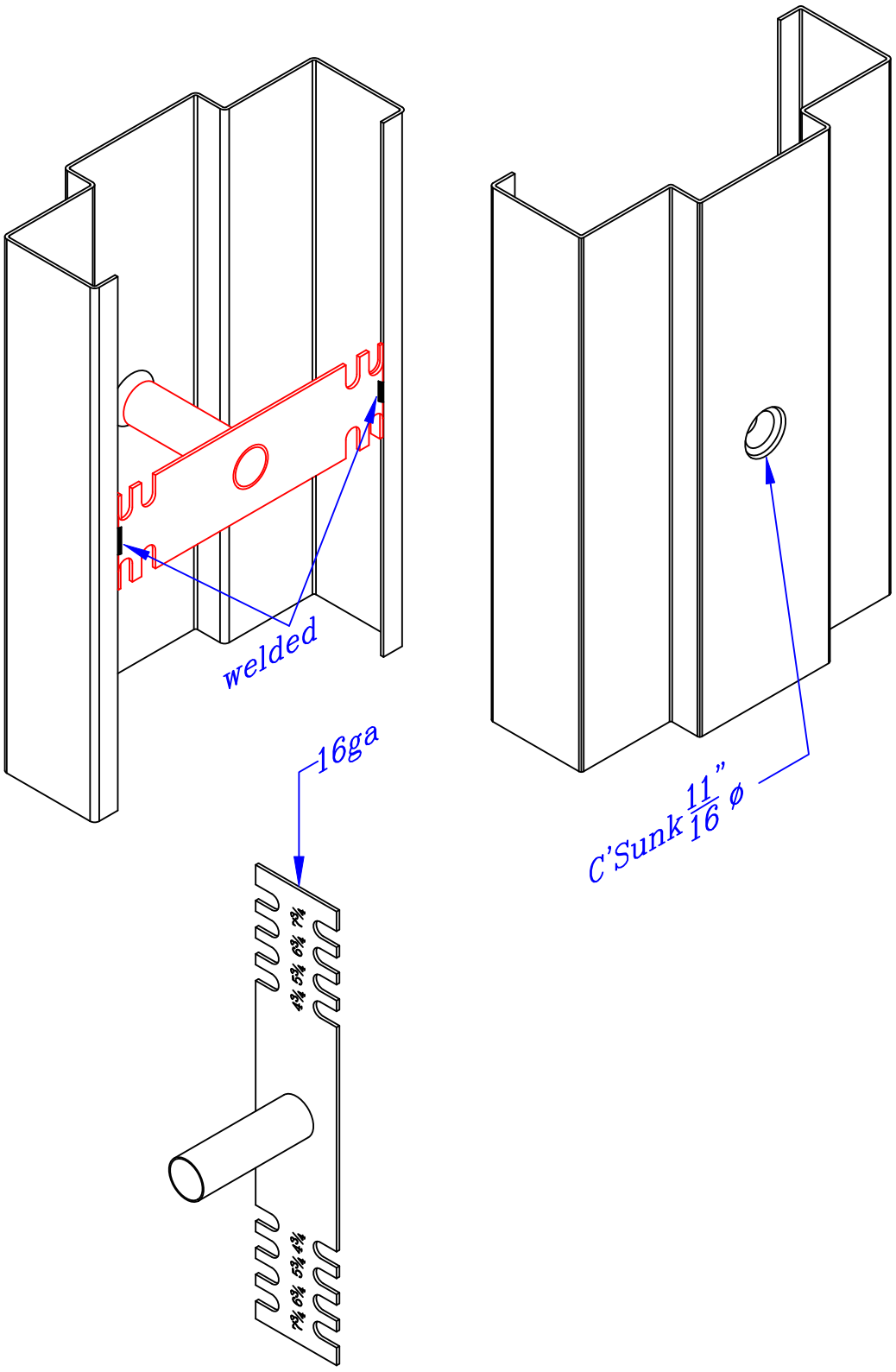




2 sets of anchors for 10 3/4" JD and up.
1/4" wood screws by others.

Existing wall anchor with tube

Tack welded

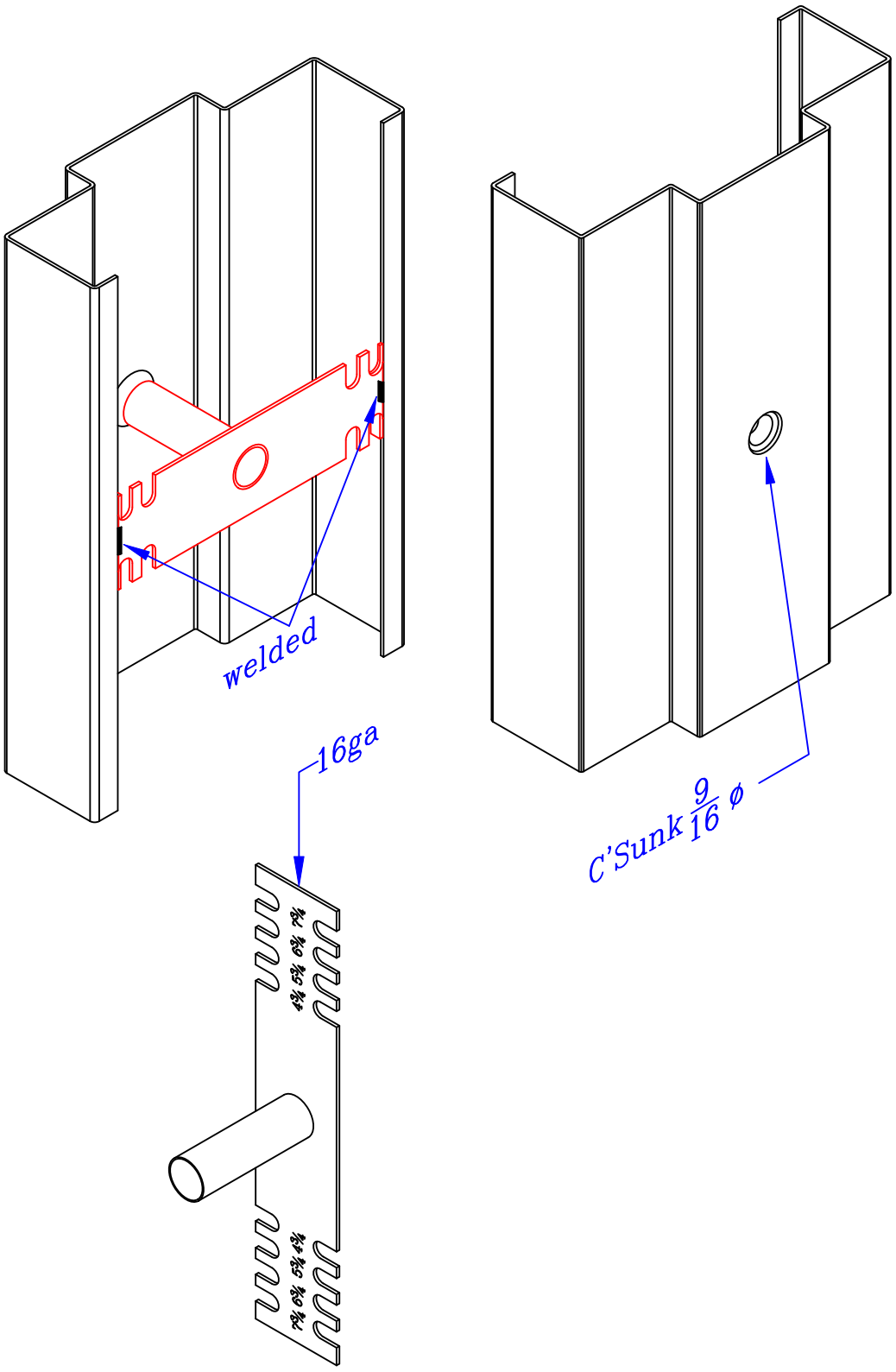


2 sets of anchors for 10 3/4" JD and up.
Dynabolts are optional see option DYN4 and DYN5.

EWAT

Existing wall anchor for 1/4" screw with tube

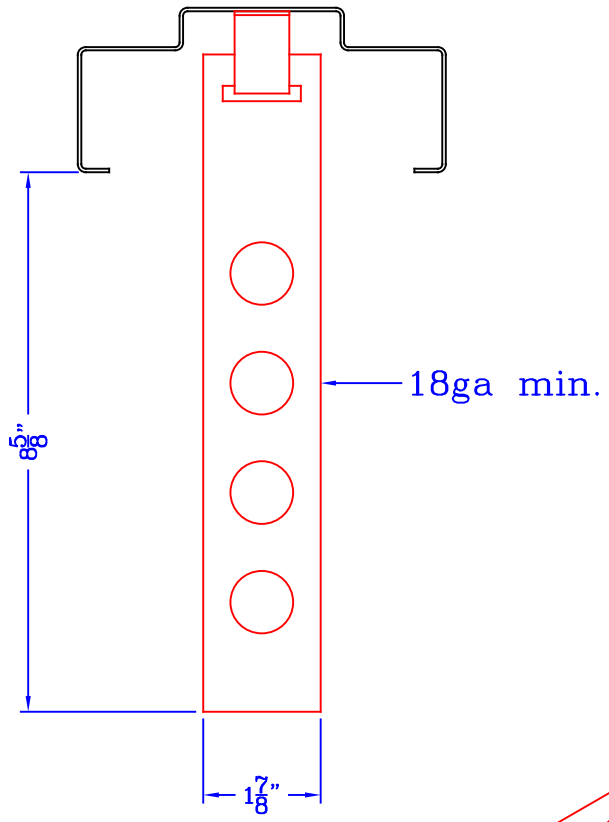
Tack welded

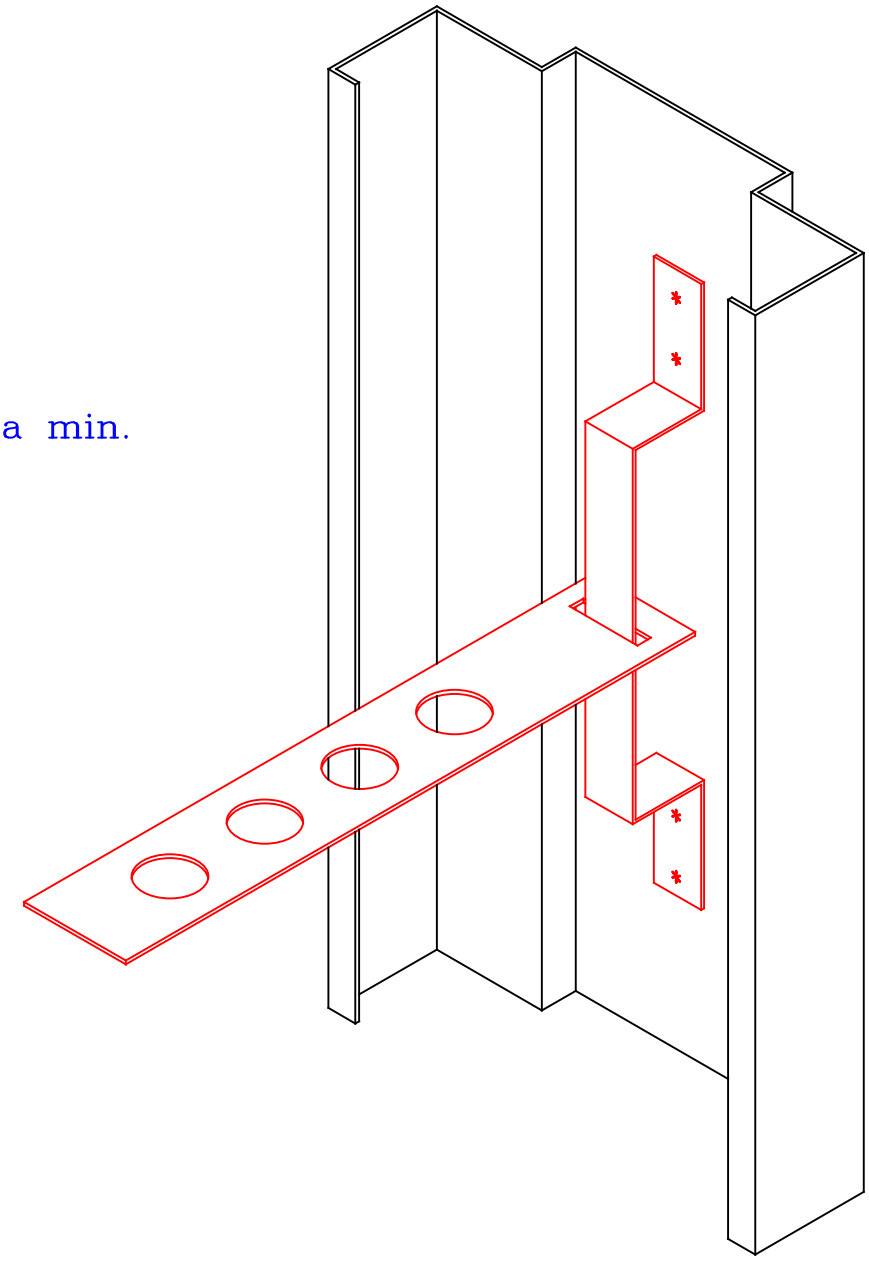


2 sets of anchors for 10 3/4" JD and up.
1/4" wood screws by others.

Adjustable "T" anchor

Spot welded

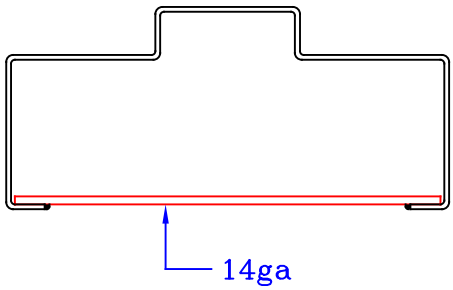


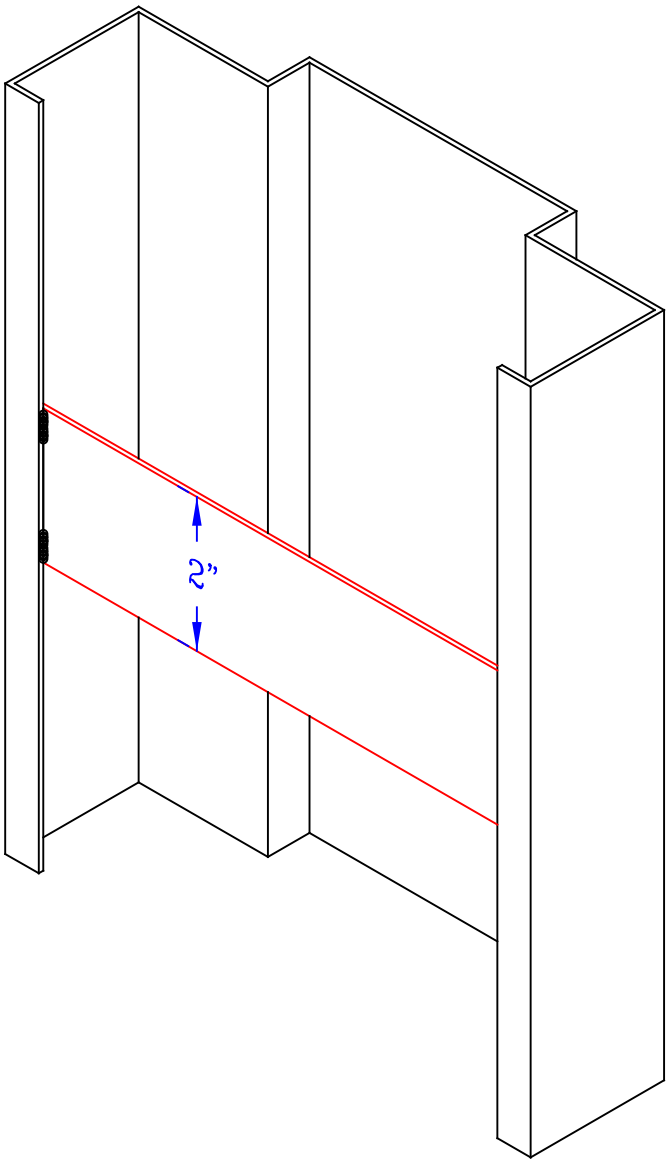


ATMA

Metal builder anchor

tack welded

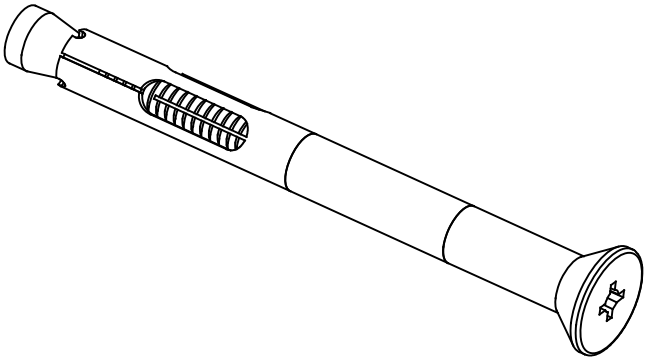


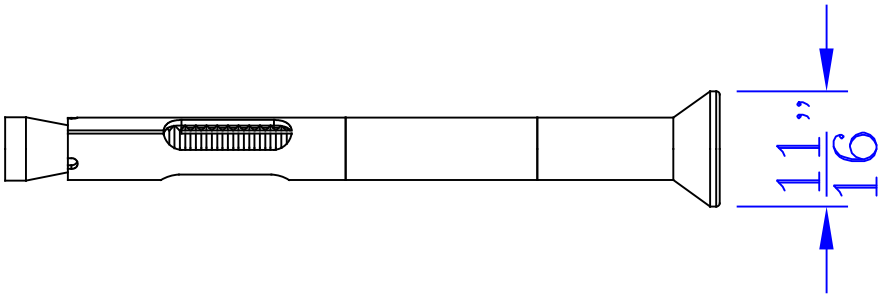


MBA

Available for SR series only

4" long dynabolt for existing wall
ship loose

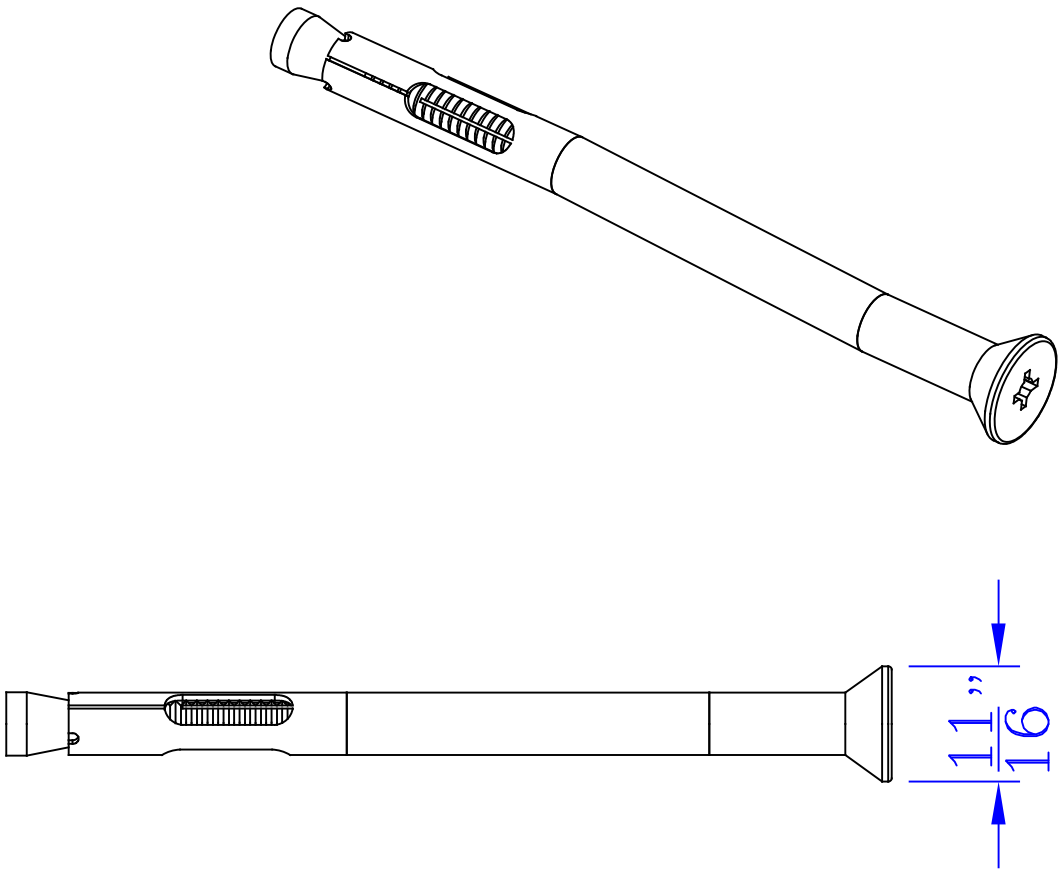




DYN4

Not by default when ordering EWA, EWANOR, EWAP & EWAT.

5" long dynabolt for existing wall
ship loose

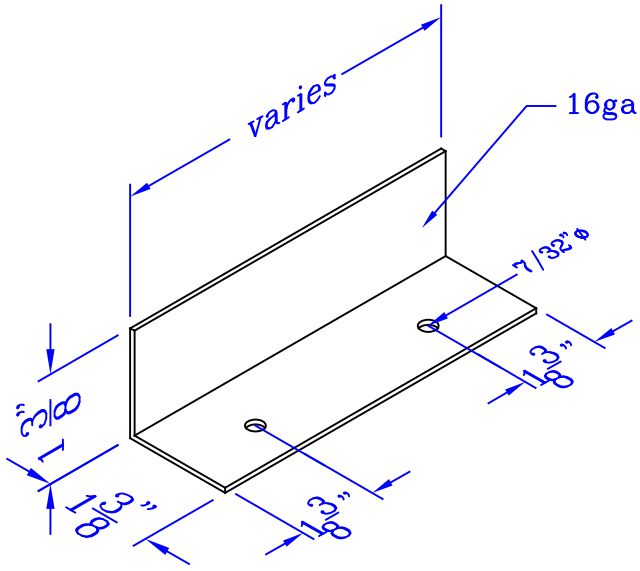


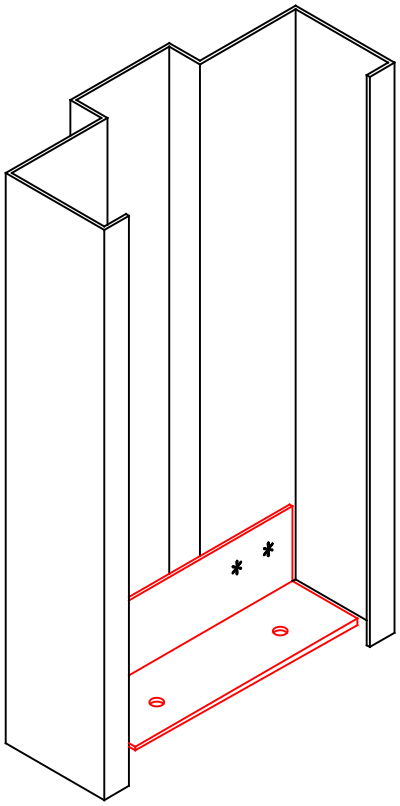
Not by default when ordering EWA, EWANOR, EWAP & EWAT.

Floor anchor

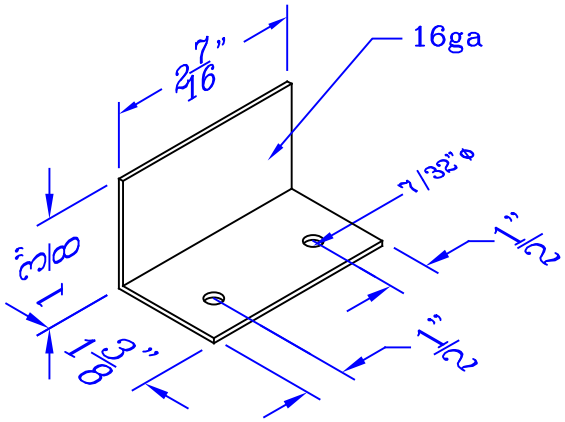
Spot welded

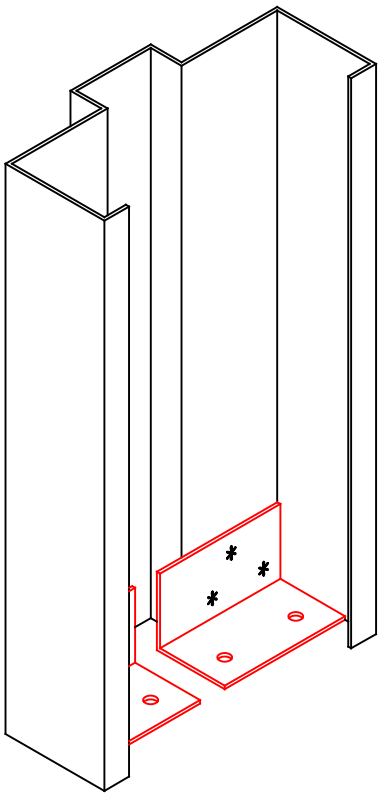
One part model
up to 5 7/8" JD





Two parts model
6"JD and up



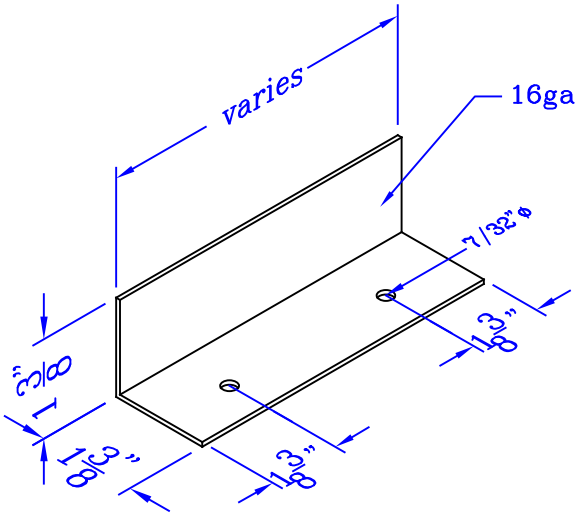


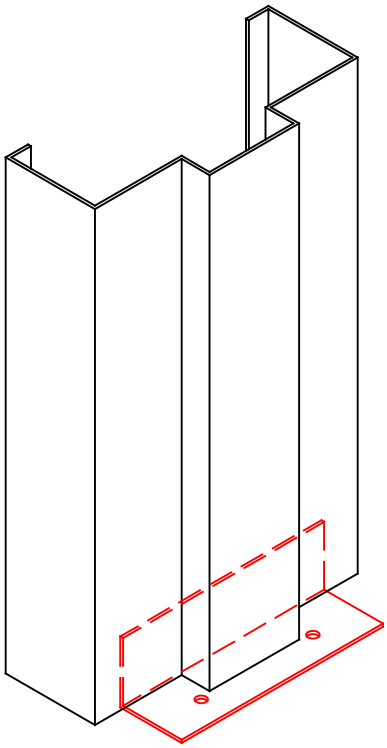
FA

Inverted floor anchor

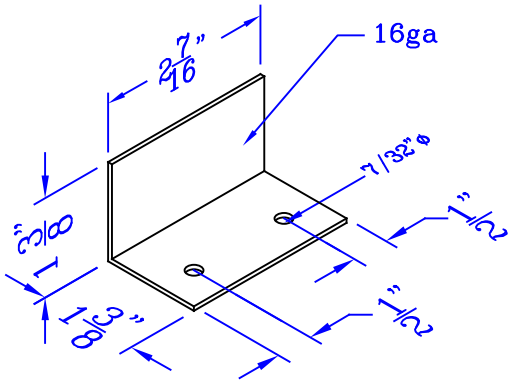
Spot welded

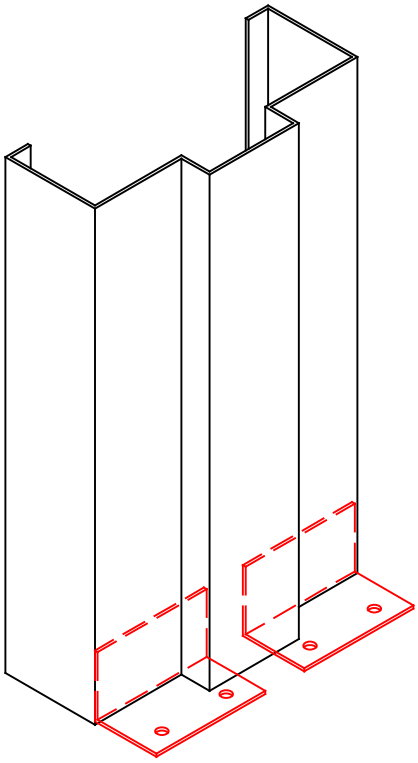
One part model
up to 5 3/8" JD





Two parts model
5 1/2"JD and up

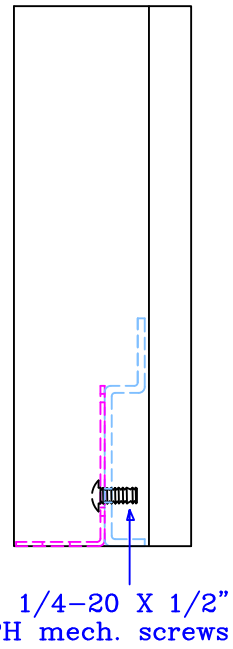


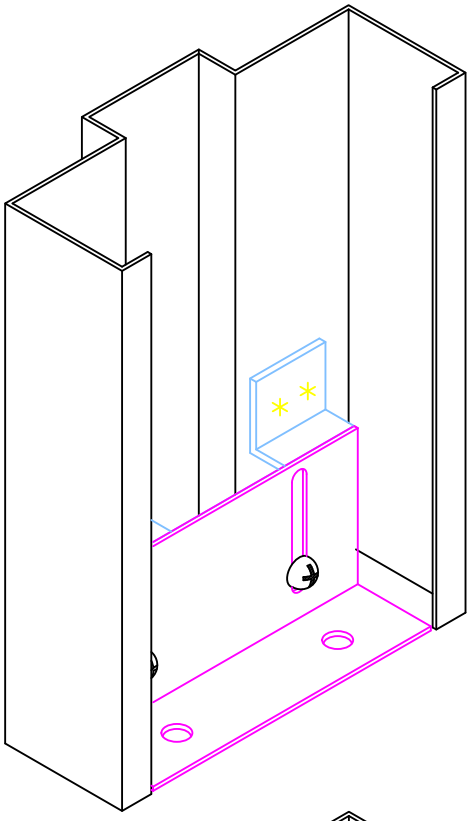


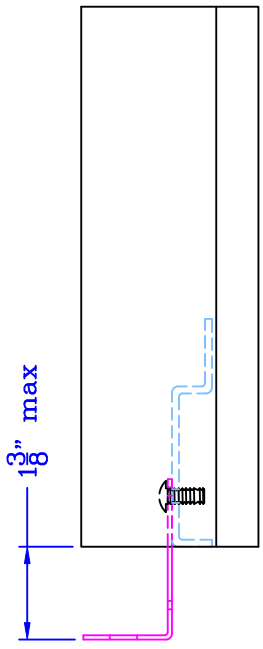
INVFA

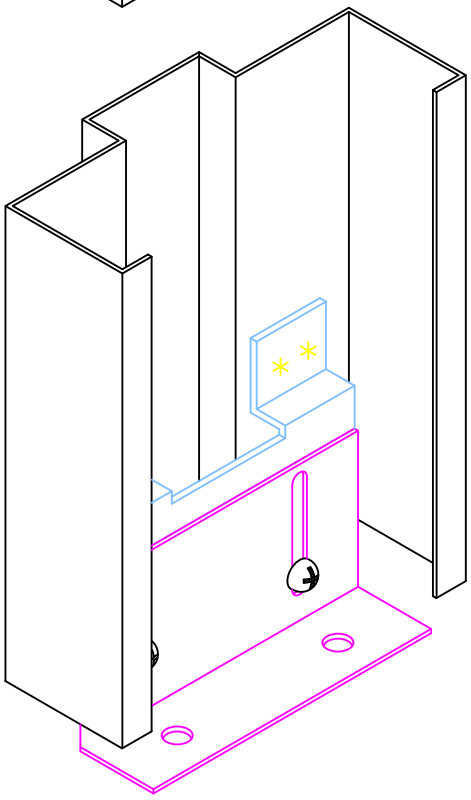
Adjustable floor anchor, 16/12ga

Spot welded



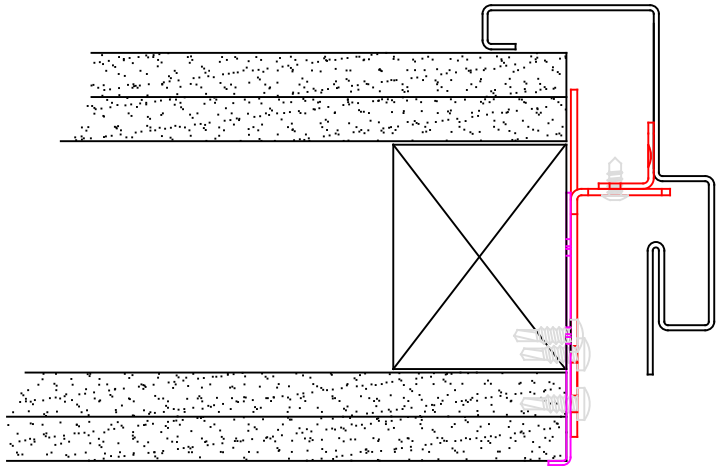


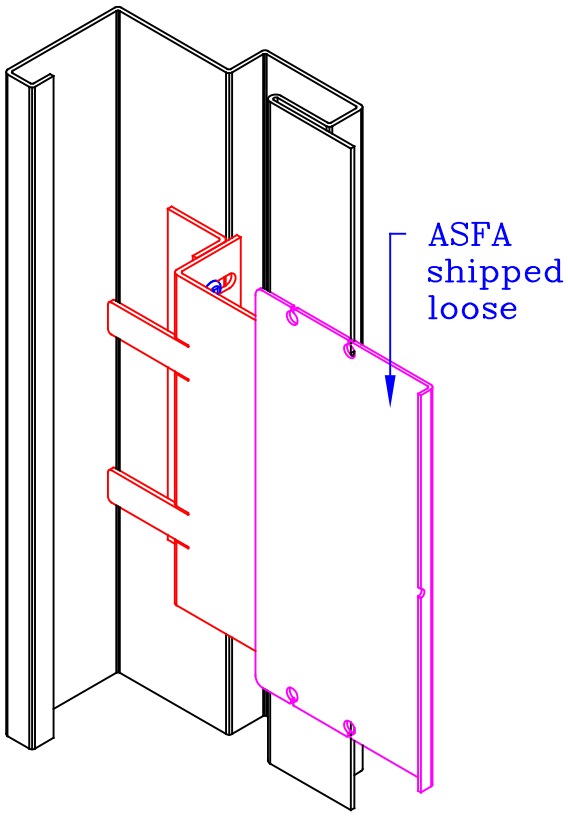




ADJFA

Additional split frame anchor, 16ga

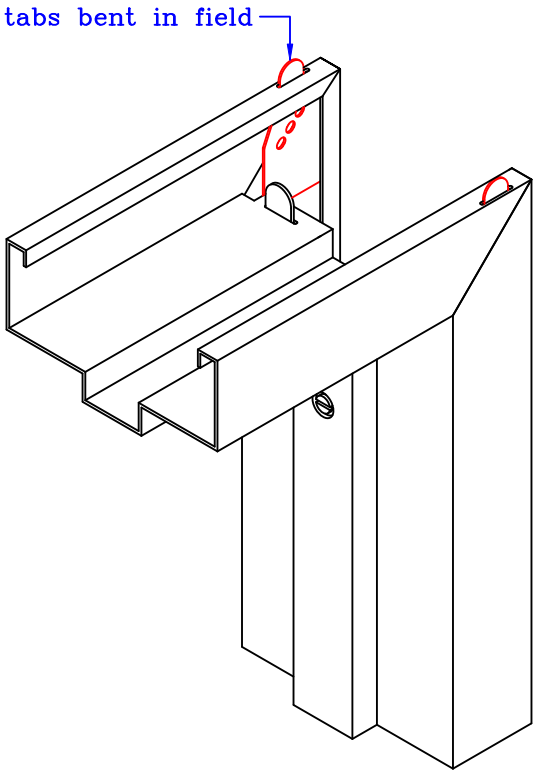


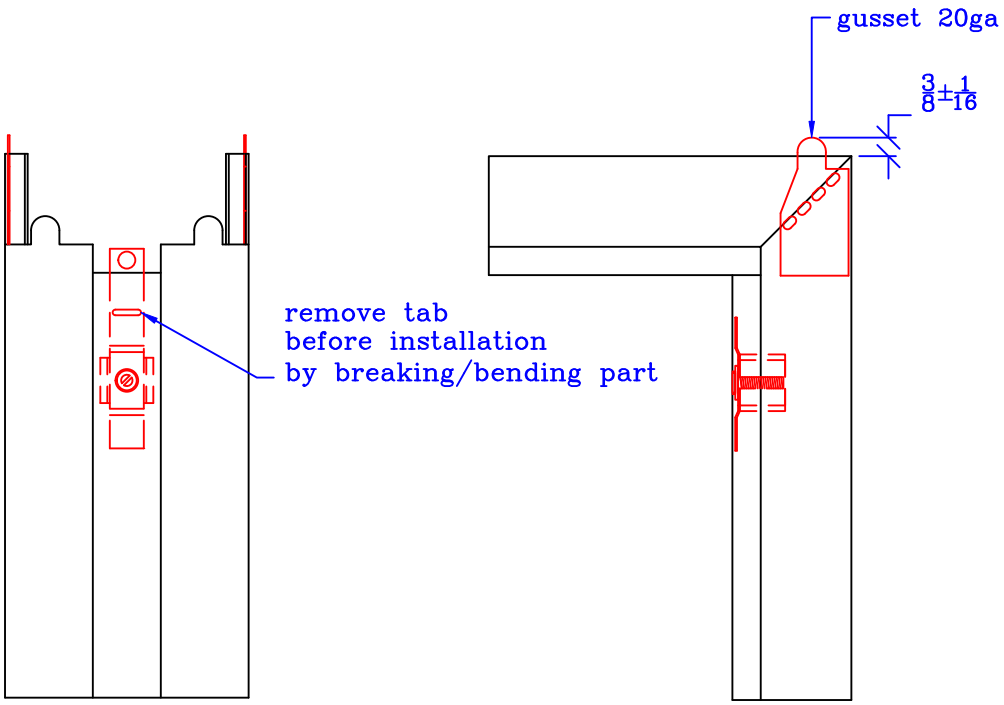


ASFA

Knocked down corner with tabs

Corner detail with compression anchor at jamb,

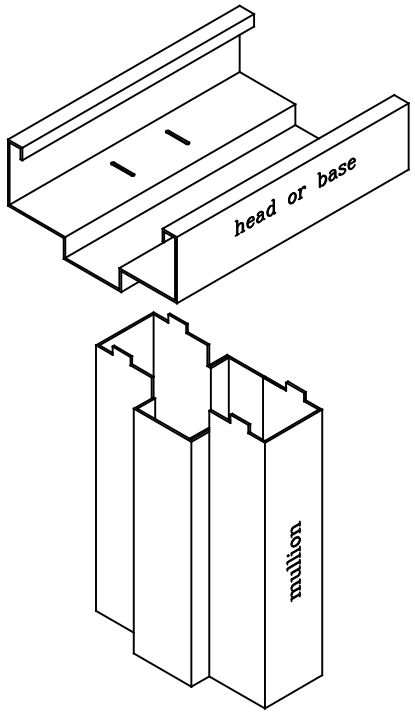


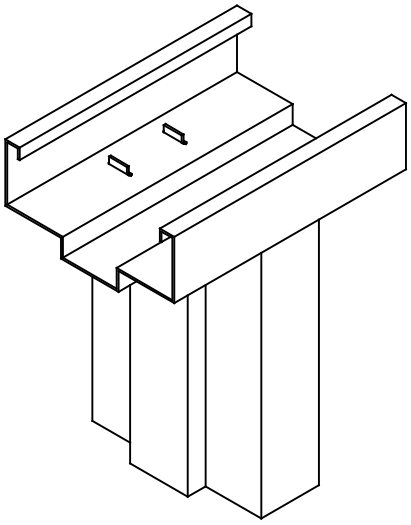


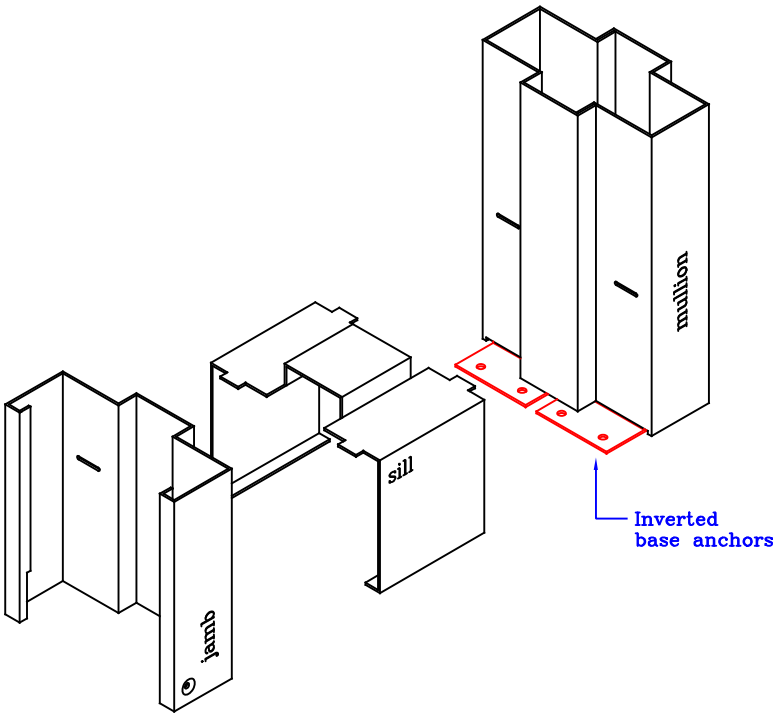
KD

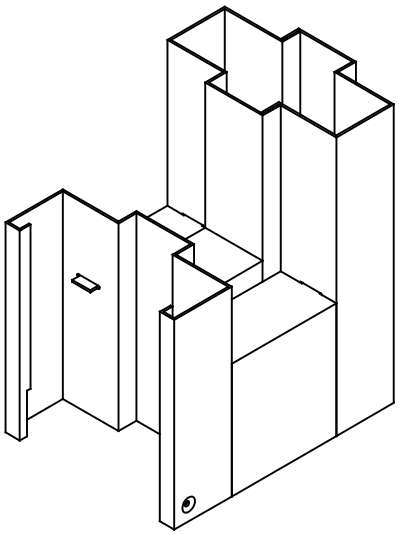
Knocked down intersection

Corner detail with compression anchor at jambs.





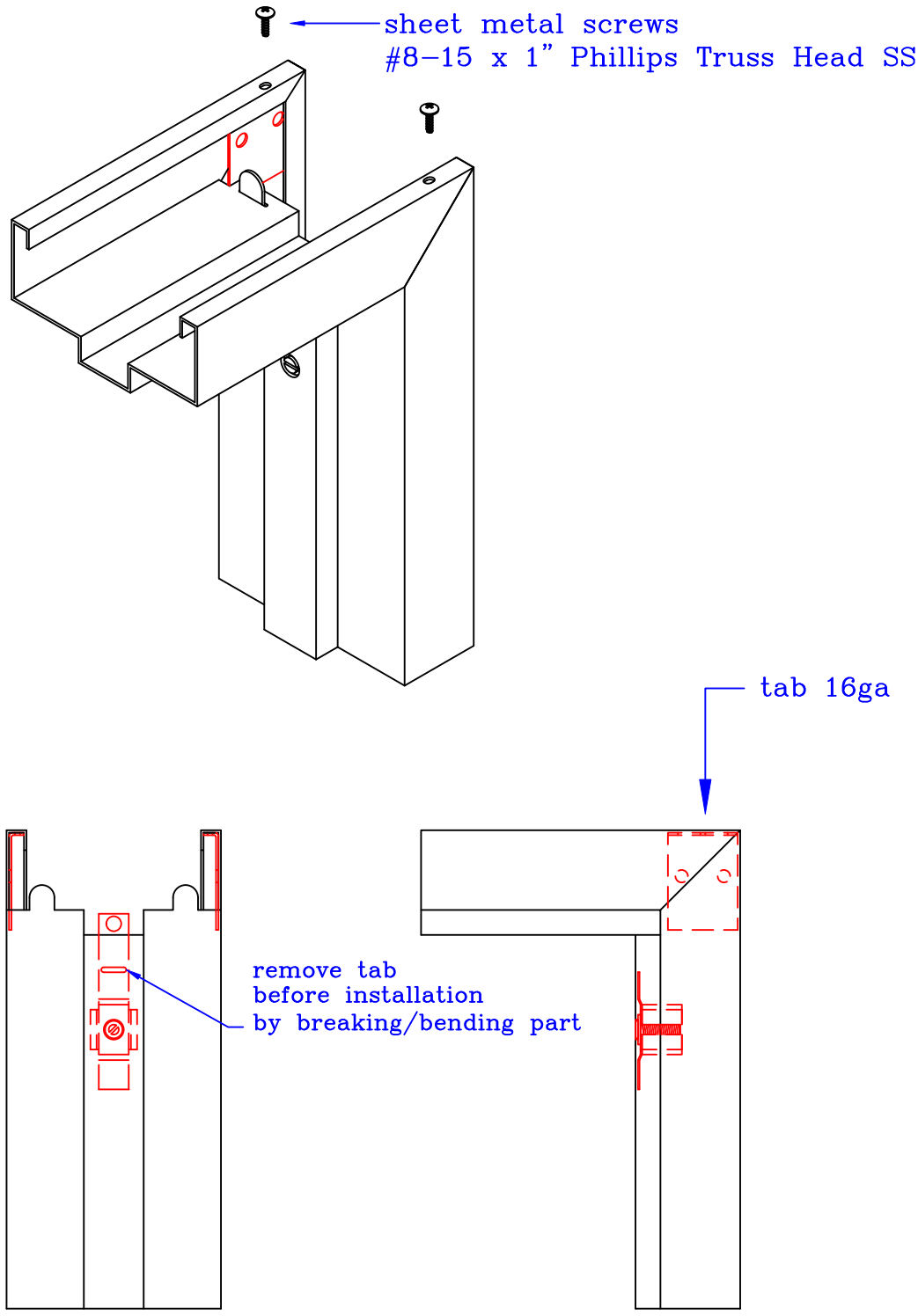




KDI

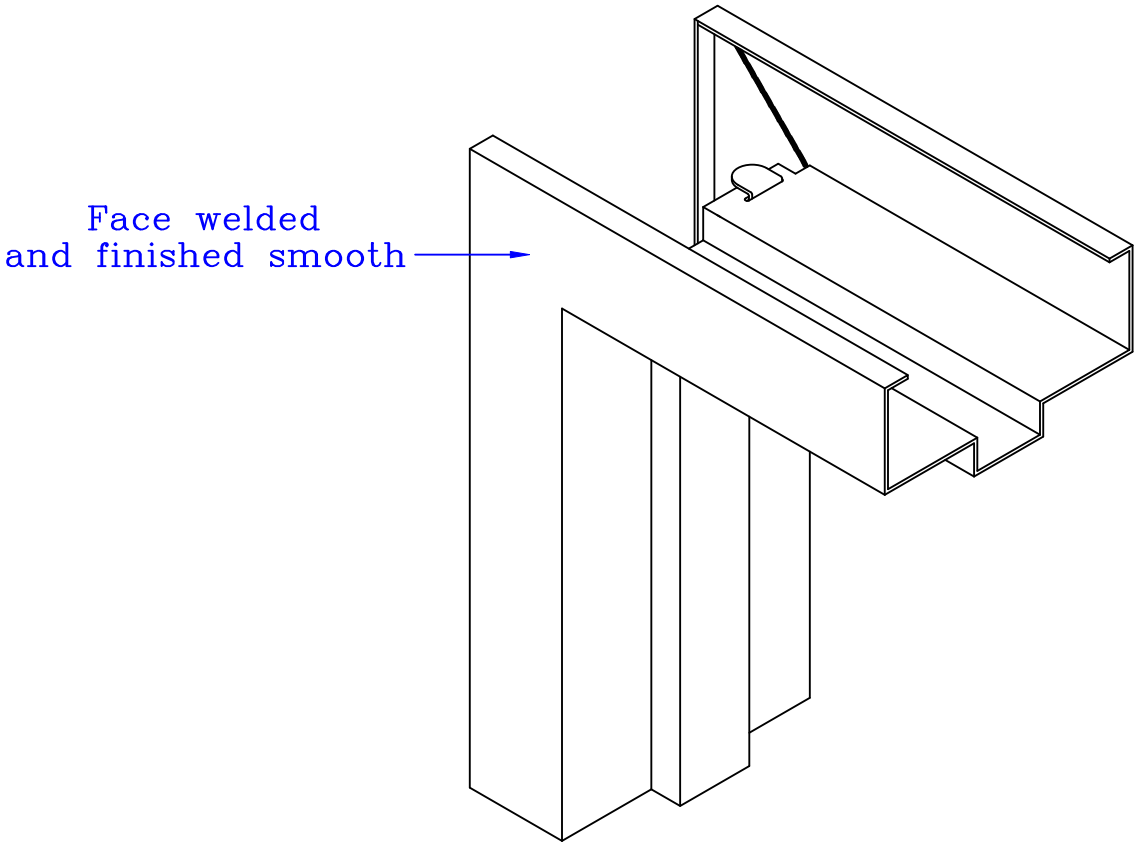
Knocked down corner with screws

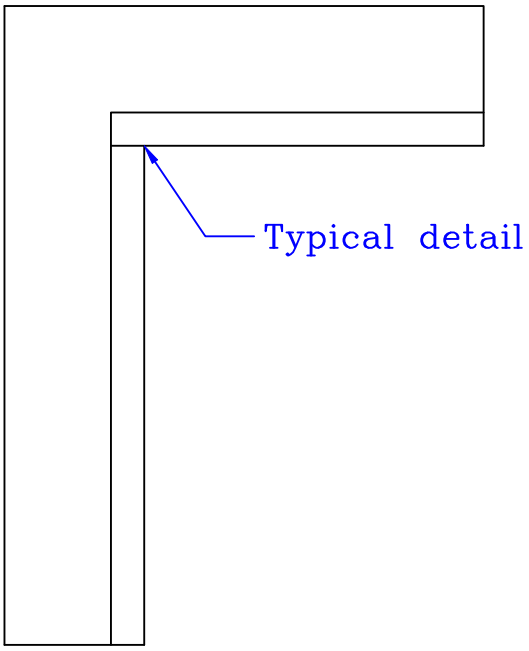
Corner detail with compression anchor at jamb,



KDS

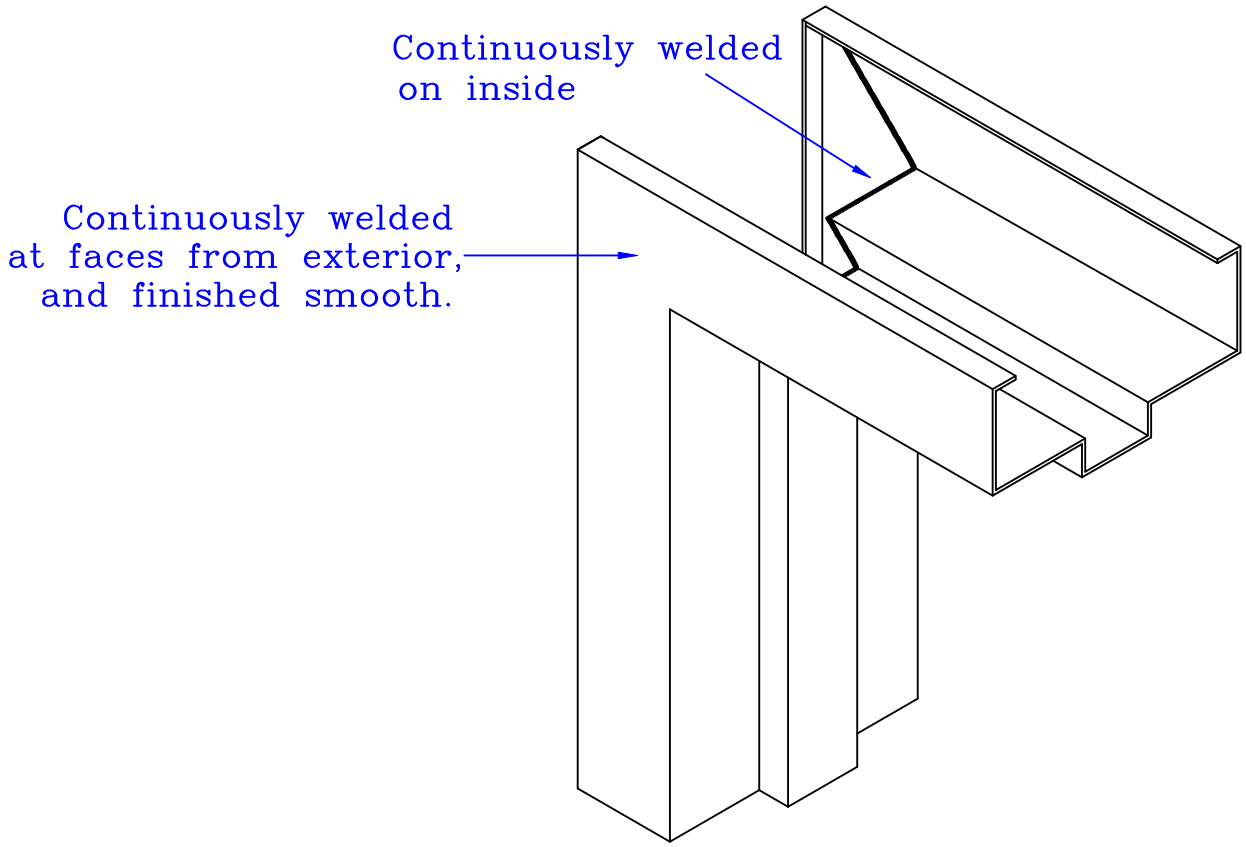
Face welded corner

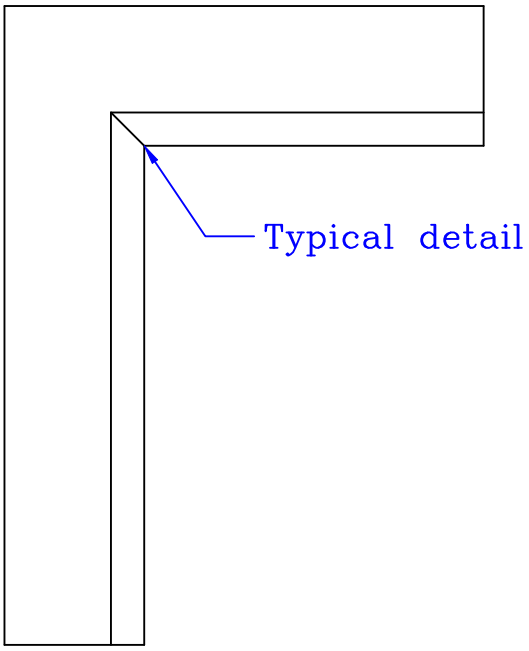




FW

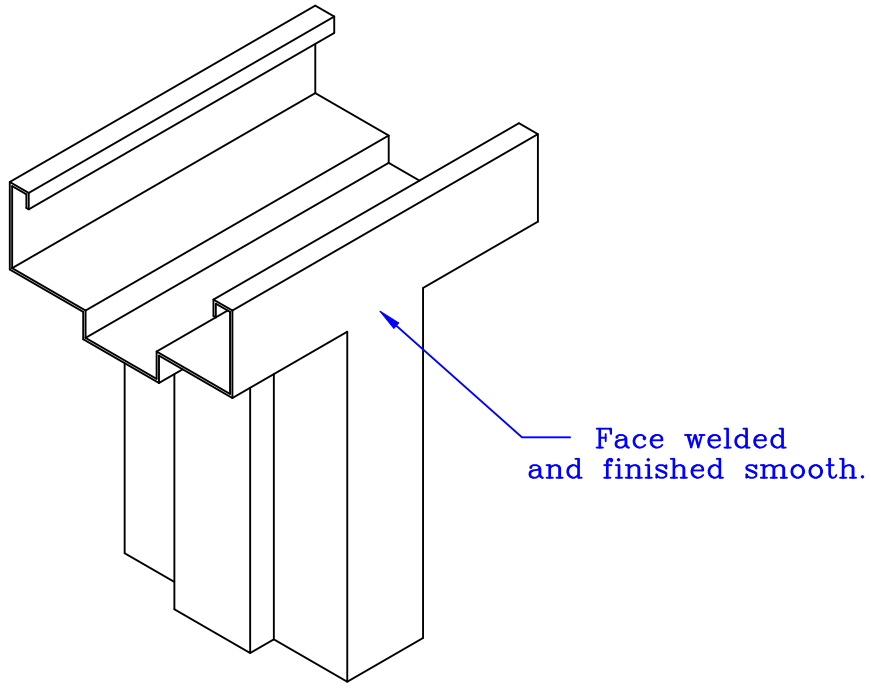
Full depth continuous welded corner

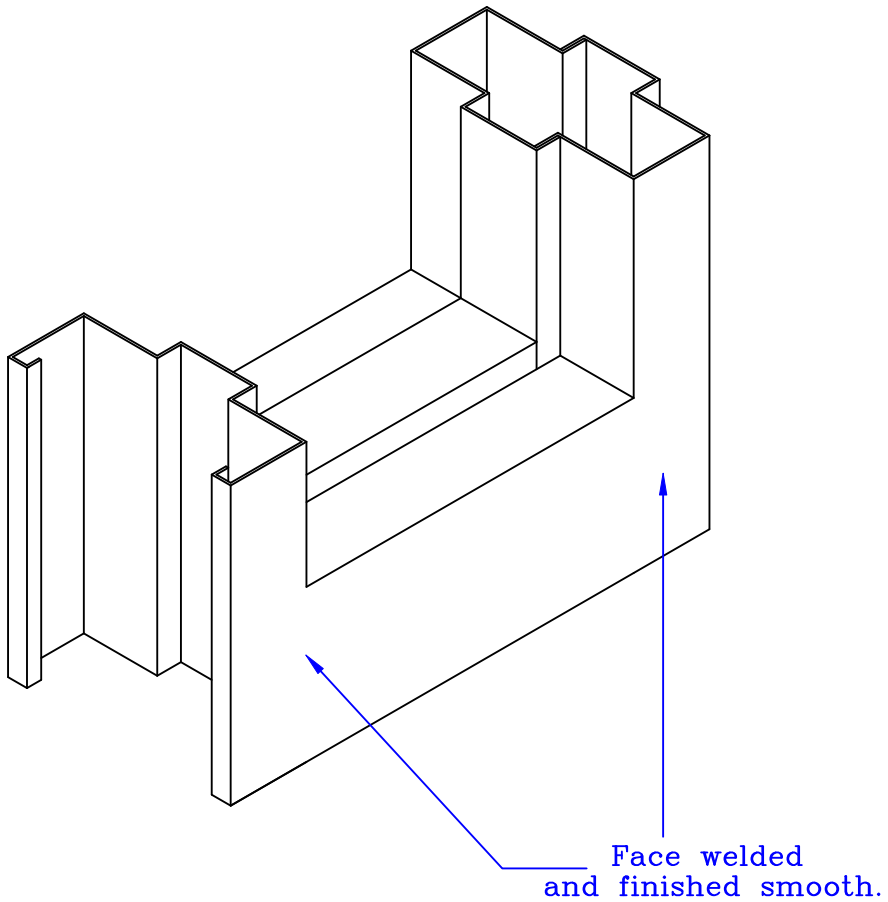




CFW

Face welded intersection

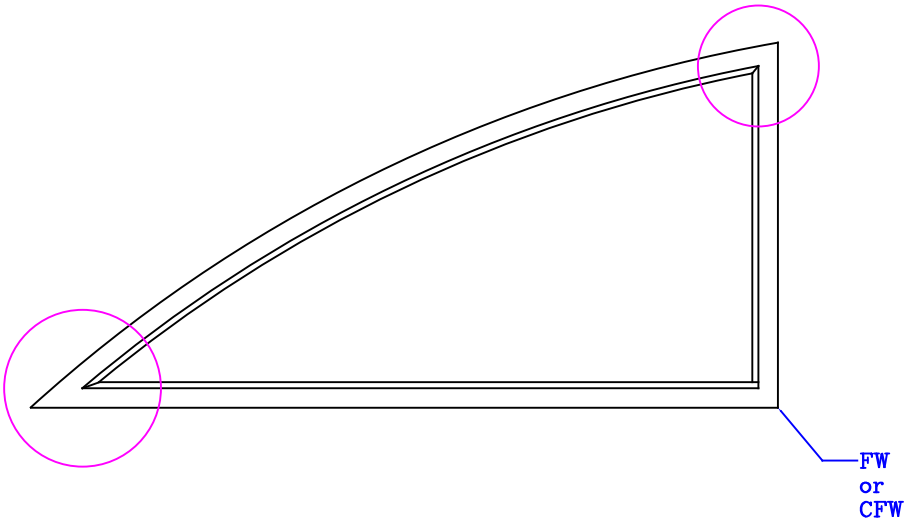


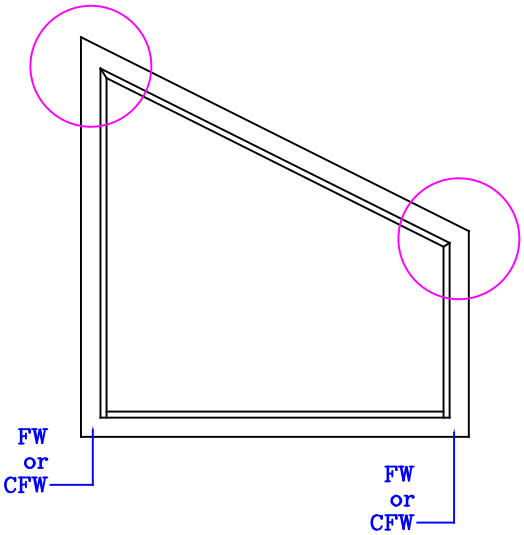


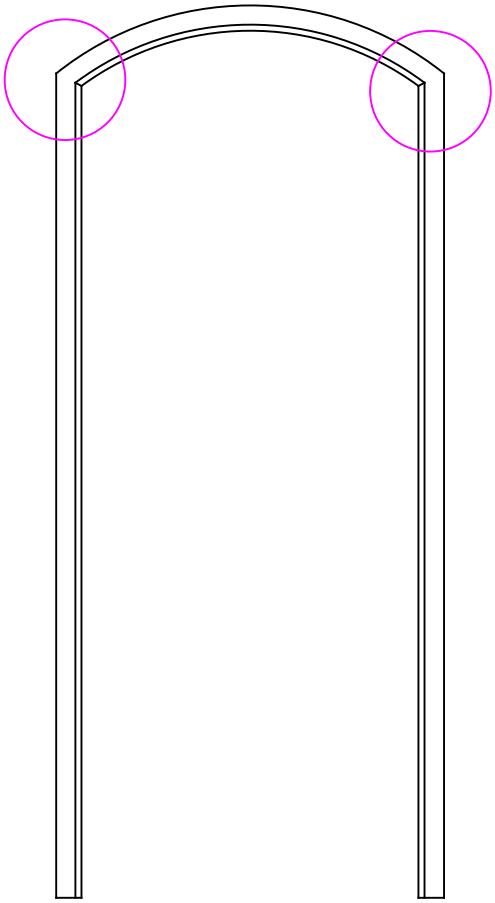
FWI

Non standard welded corner

At all corners other then 90°

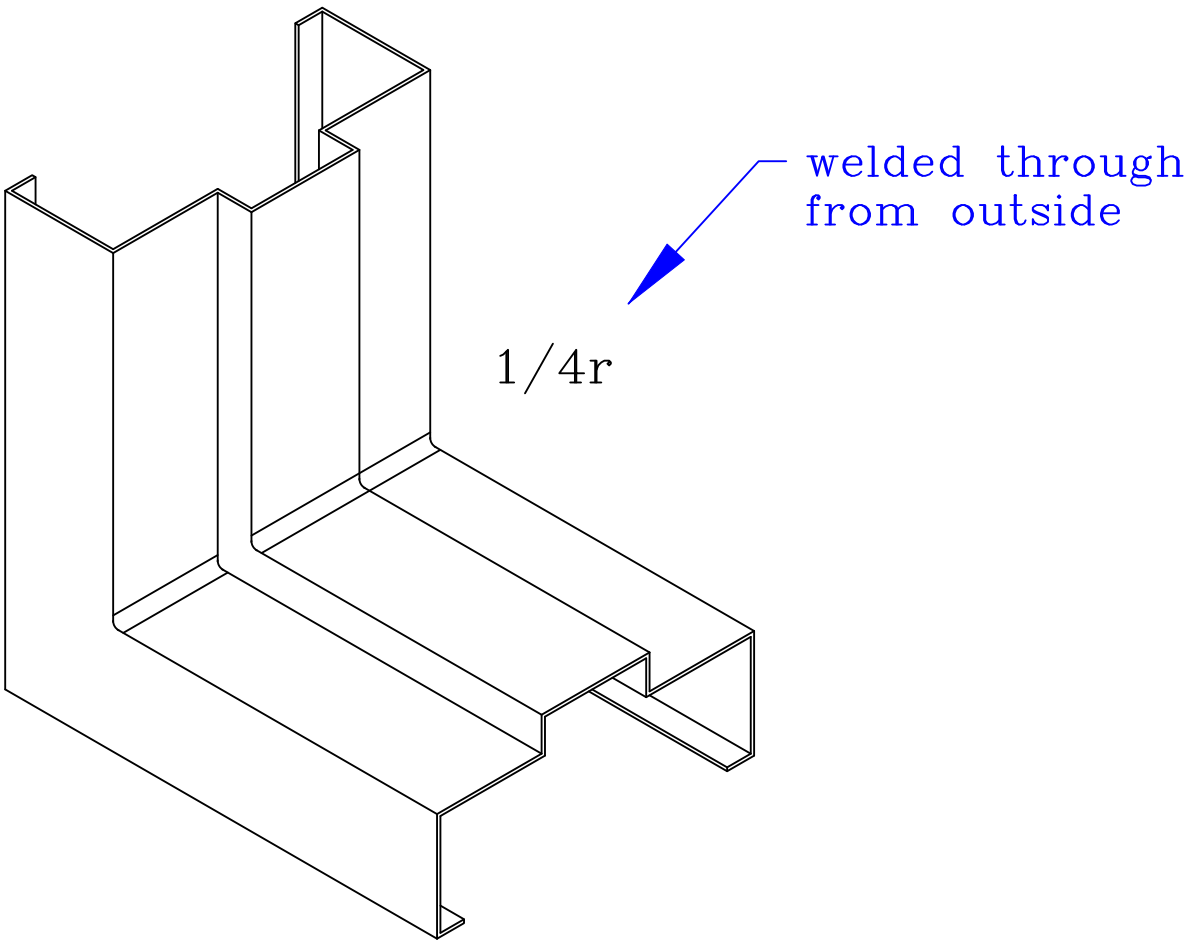






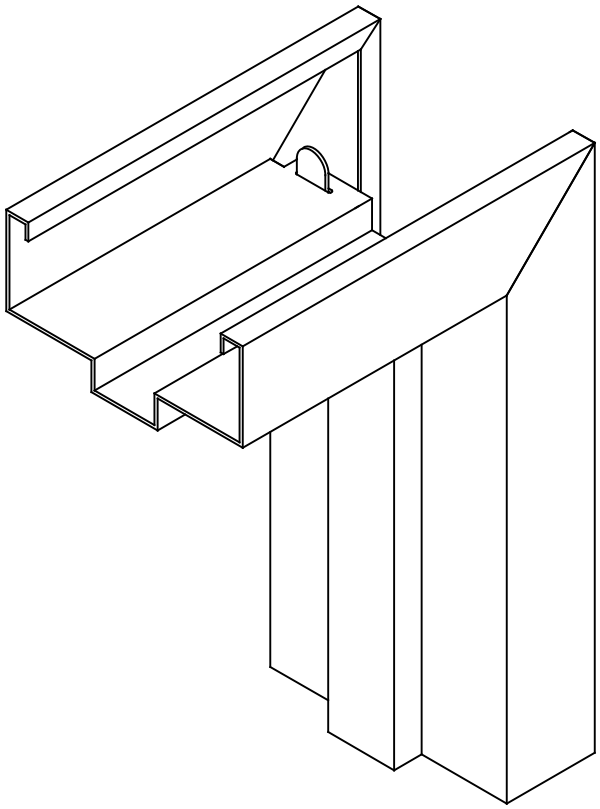
NSW

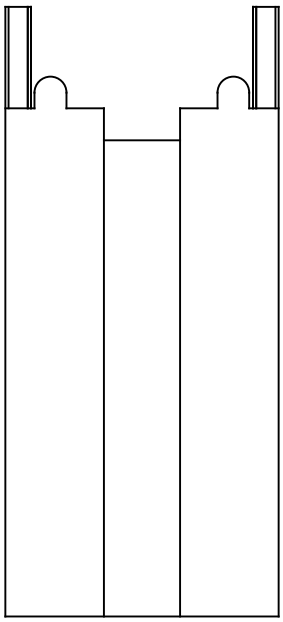
Sanitary weld

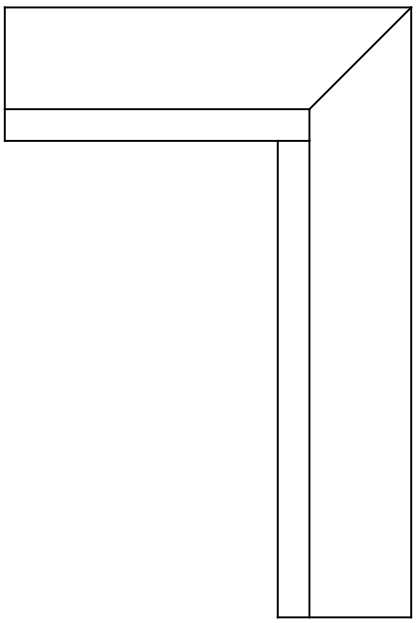


SW

Welded by others (KD w/o tabs)



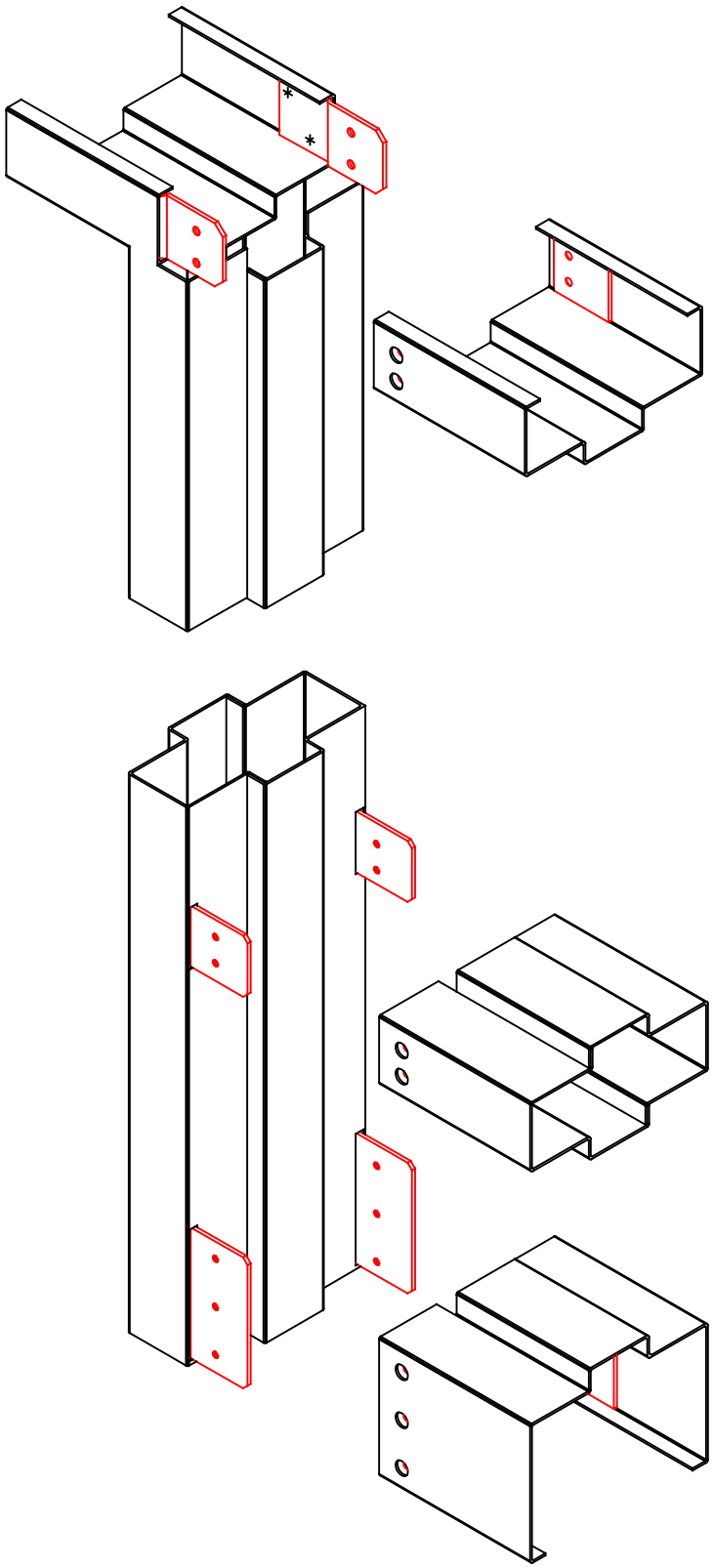




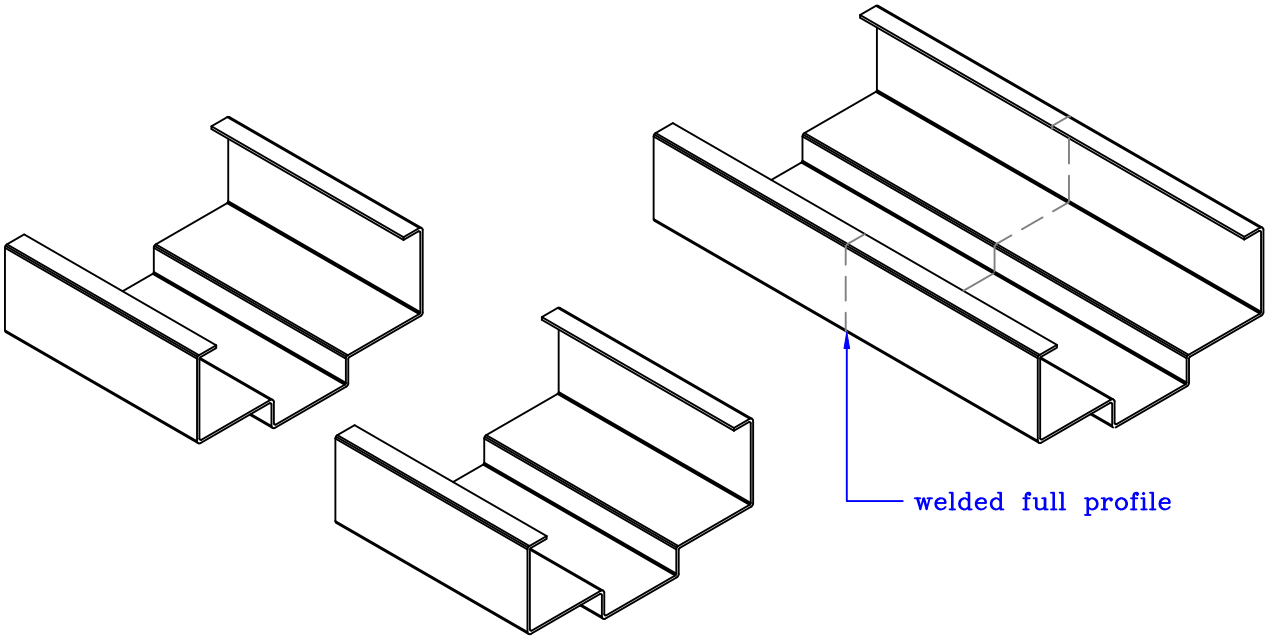
WBO

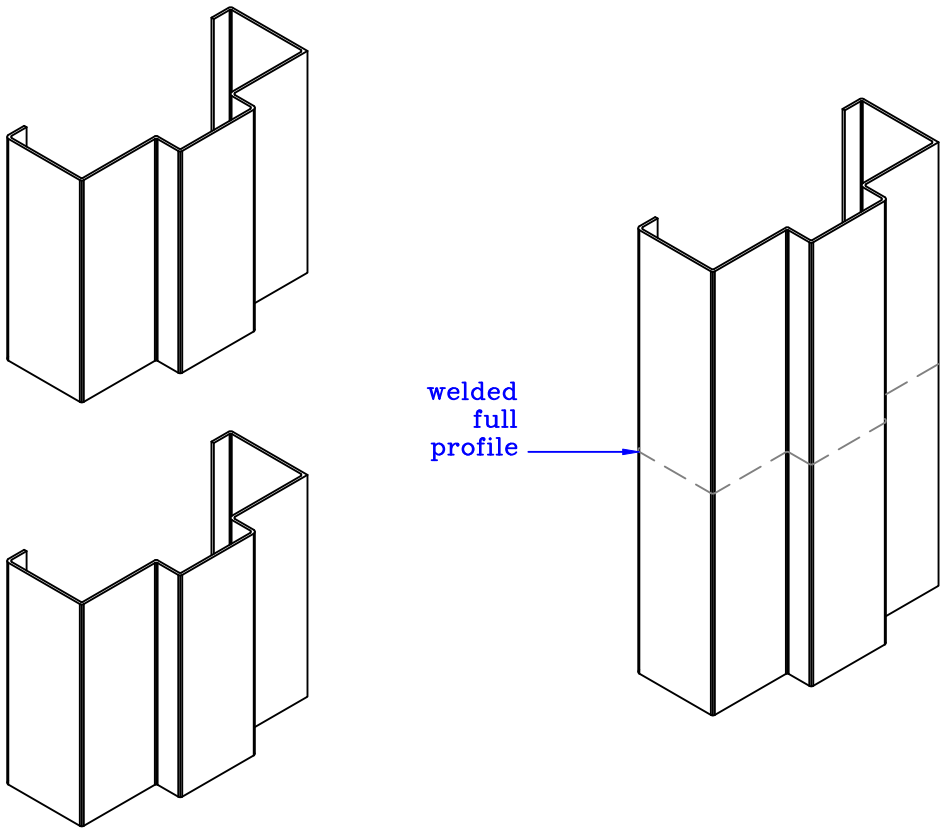
Mechanical field splice for oversized units

Includes #12-24 mechanical screws



Splice for oversized units



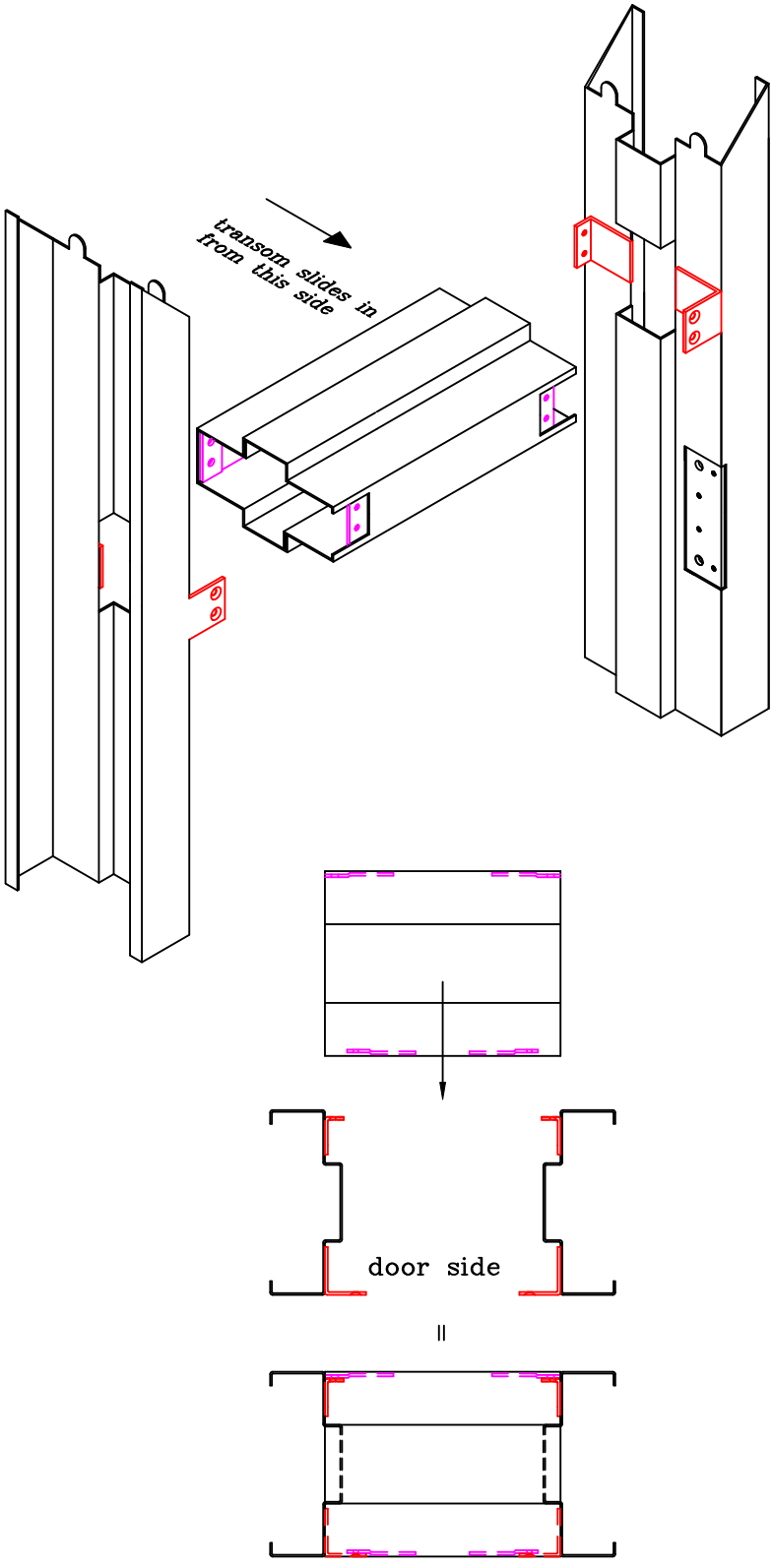


SOU

Over 9'8" in width and 9'10" in height, when no adjacent mullion.

Removable mullion/transom bar

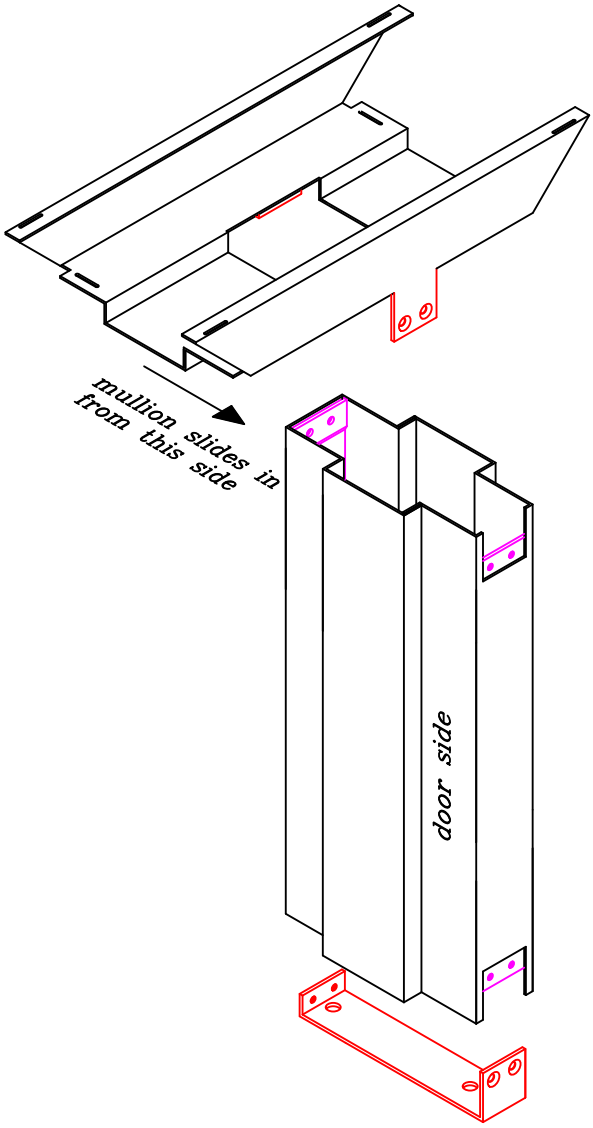
Includes #12-24 mechanical screws

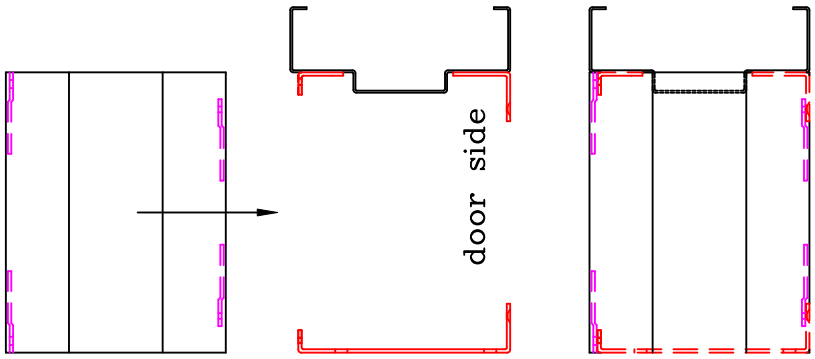


RM

Removable mullion with floor anchor

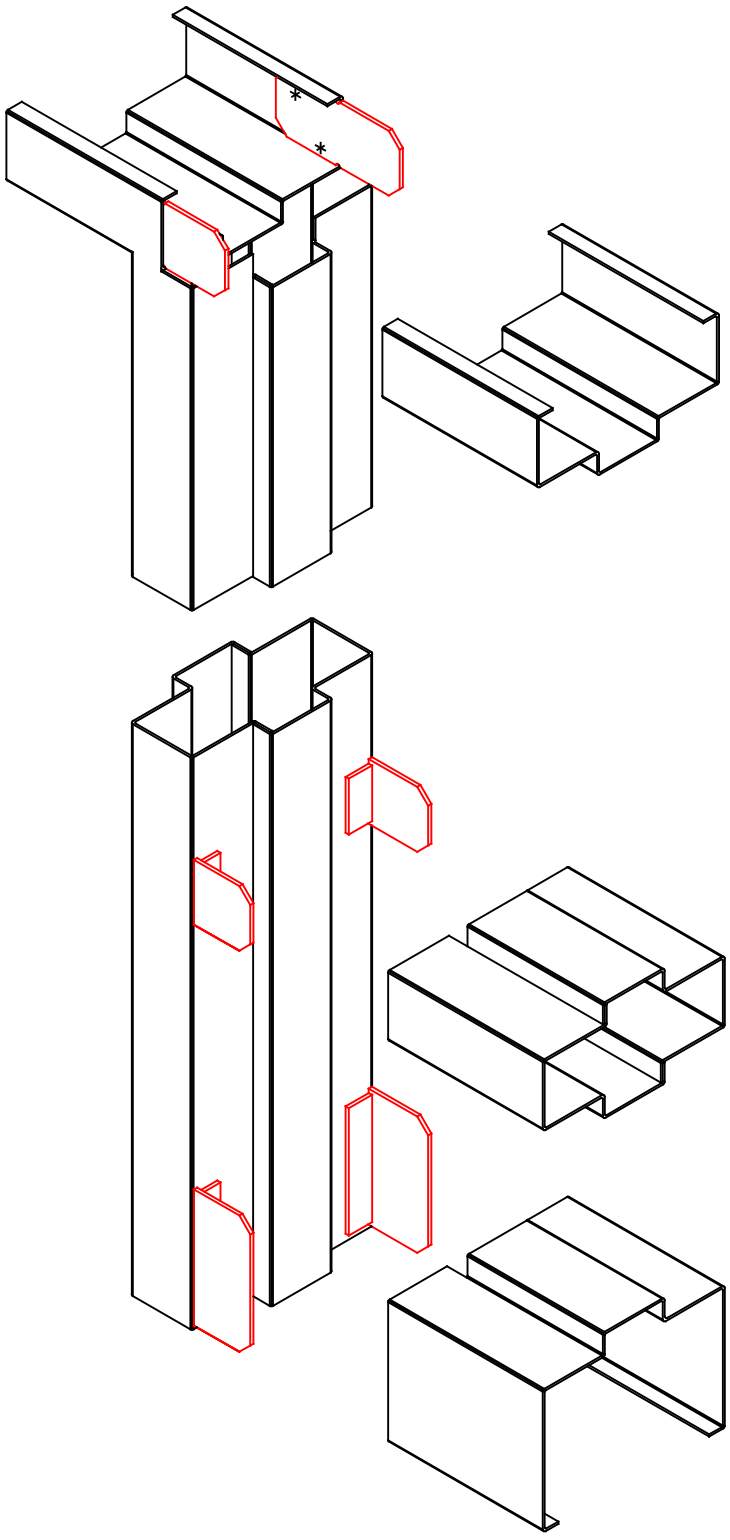
Includes #12-24 mechanical screws





RMF

Splice for field welding of oversized units



Baked on primer

Grey Waterborne Primer

General Properties

A quick drying water-based primer designed for application to galvannealed surfaces. This product has excellent adhesion and corrosion resistance properties and is compatible with a wide variety of architectural topcoat paints. This primer can be topcoated immediately, or at any time in the future. Note that per NAAMM/HMMA 840 it is recommended to apply the finish coat of paint within 30 days of delivery. This product contains low VOC's and is engineered to surpass ANSI A250.10 Specifications when applied to galvannealed substrates.

Product Information

Generic type: Acrylic resins
Pigment type: Anti-corrosive
Color: grey
Finish: low sheen

Average volume solids: 34.3%

Mix ratio: Single component
Viscosity: 68 -72 K.U.
V.O.C. mixed: 141 g/l (1.17 lbs/gla)
Temperature resistance (dry):
75°C (167°F) continuous
100°C (212°F) intermittent
Thinner: water

Recommended Topcoats

Topcoat with any water or solvent base architectural paints.

Performance Criteria Tested to ANSI A250.10-1998(R2011)

Salt spray test:
Standard practice for operating salt spray (fog) apparatus
Method: ASTM B117-03
"X" scribe per ASTM D1654-92 (2000) section 4.1 and 5.1
120 hours continuous exposure
Acceptance criteria:
rust grade less than 6 as defined by ASTM D610-01
undercut less than 1/8" on each side
Performance on galvanneal: pass

Condensation testing (humidity)
Standard practice for testing water resistance of coatings using controlled condensation
Method: ASTM D4585-99
100°F minimum temperature
240 hours continuous exposure
Acceptance criteria:
any amount of #8 blisters as defined by ASTM D714-02
less or equal few #6 blisters as defined by ASTM D714-02
Performance on galvanneal: pass

Impact test:
Standard test method for resistance of organic coatings to the effect of rapid deformation
Method: ASTM D2794-93 (1999)e1
20 inch pounds direct using a Gardner impact tester with ½" diameter ball at 70-75°F
tape (3/4" wide) pull off test using #600 Scotch tape

Acceptance criteria:
no paint film removal other than an area 1/8" in diameter at the center of the impact test
Performance on galvanneal: pass

Film adhesion test:
Standard test methods for measuring adhesion by tape test
Method: ASTM D3359-02
method B with 11 parallel cuts made 1mm apart
tape (1" wide) pull off test
Acceptance criteria:
less or equal 3B as defined by ASTM D3359-02
less or equal 5 -15 % film removal
Performance on galvanneal: pass

Powder coated standard color prefinished at frames

General Properties

POWDURA RAL® Series Durable Polyester TGIC-free Powder Coatings are recommended for a broad range of interior/exterior decorative applications. They are designed for superior weatherability compared to standard polyester powder coatings.

Advantages

Excellent exterior color and gloss retention

Excellent overbake resistance

Good chemical resistance

Application

Cure schedule	10mn @ 205 C
Film thickness range (mils)	2.0-3.0

Attributes

Specific gravity (g/ml)	1.68
Coverage at 1.0 Mil (ft2/lb)	114.8
60° gloss (ASTM D-523)	28-42
Adhesion (ASTM D-3359)	5B
Flexibility (ASTM D-522)	pass 1/8”
Pencil hardeness (ASTM D-3363)	H-2H
Impact resistance (in lb.) (ASTM D-2794)	Dir 160 in-lbs Rev 160 in-lbs

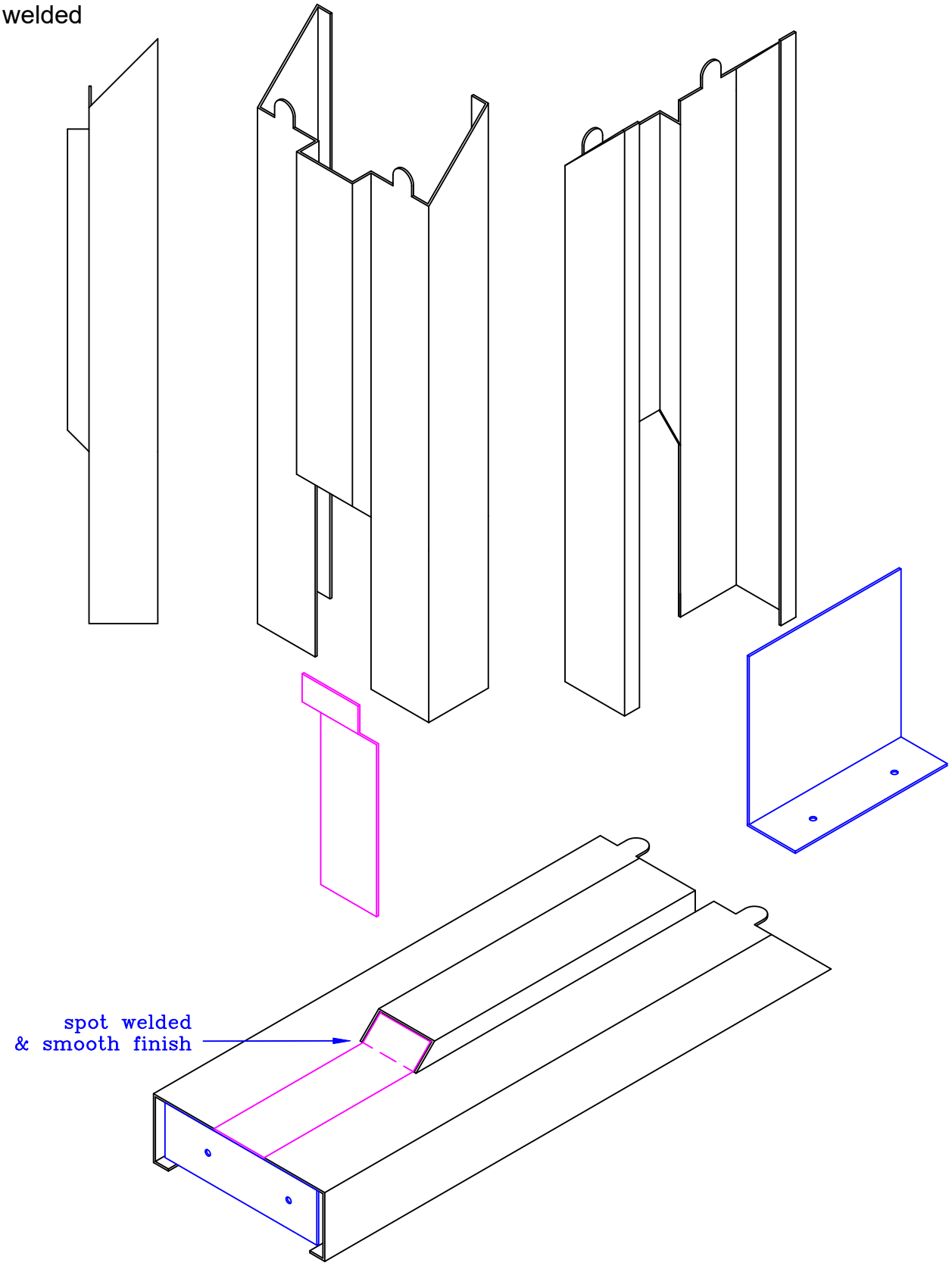
Performance measured using 24-gauge Bonderite® 1000 test panels.

PC

See www.ralcolor.com
All units over 90" in width and 100" in height will be spliced.

Hospital stops 45°

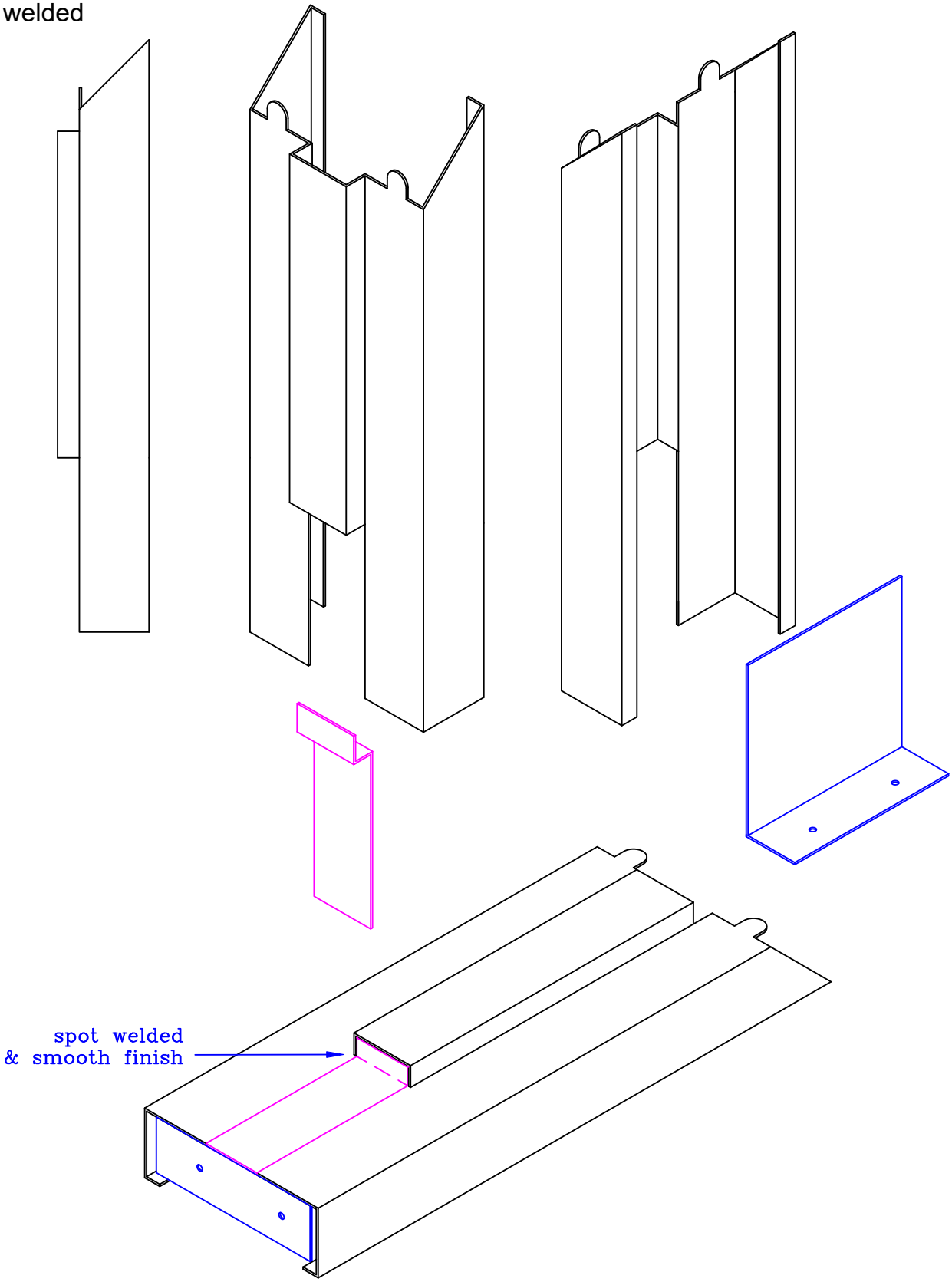
Spot welded



HS45

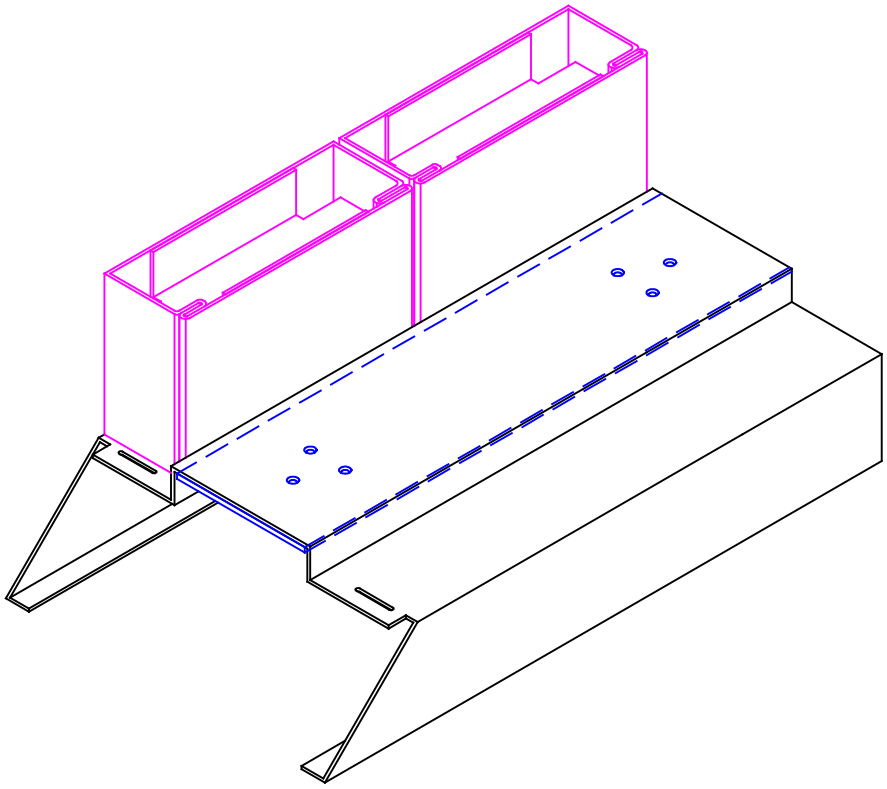
Hospital stops 90°

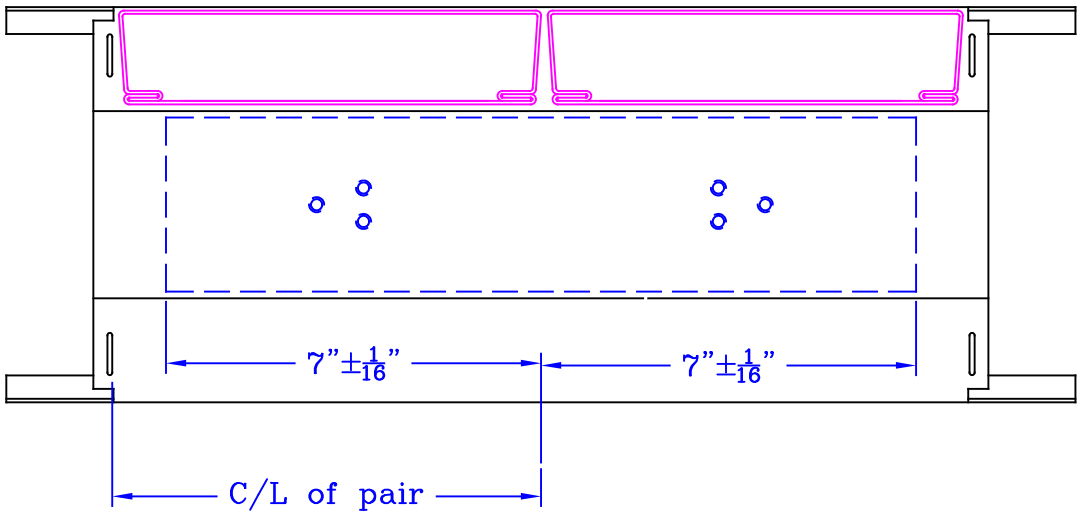
Spot welded

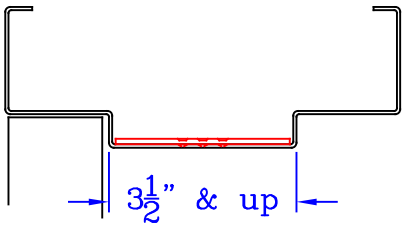


HS90

Removable hardware mullion reinforcement, 12ga, without filler block

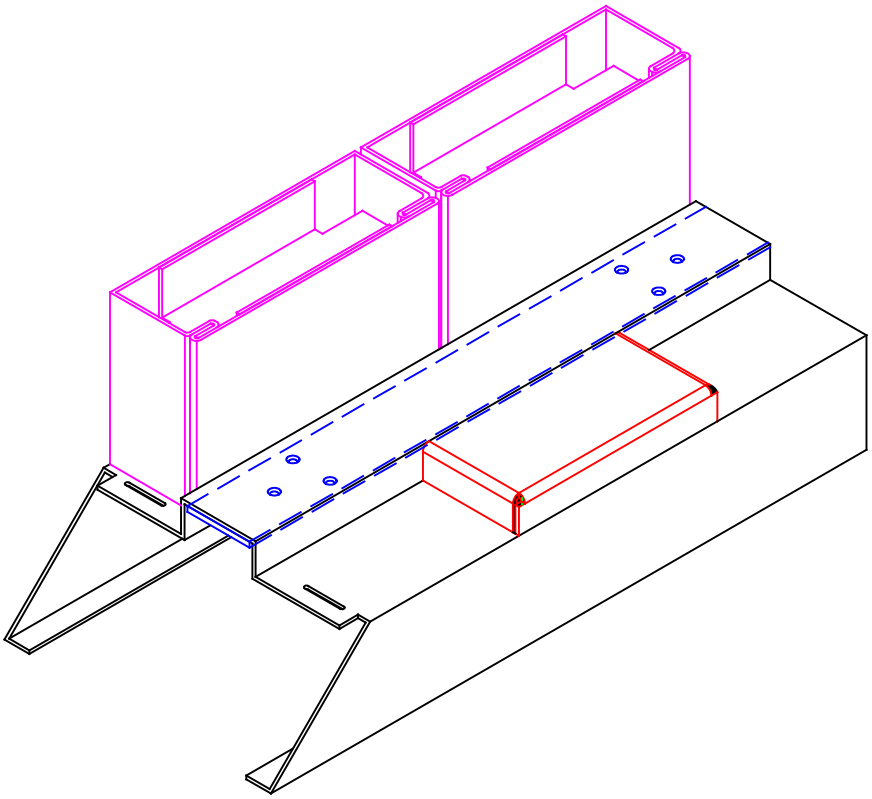


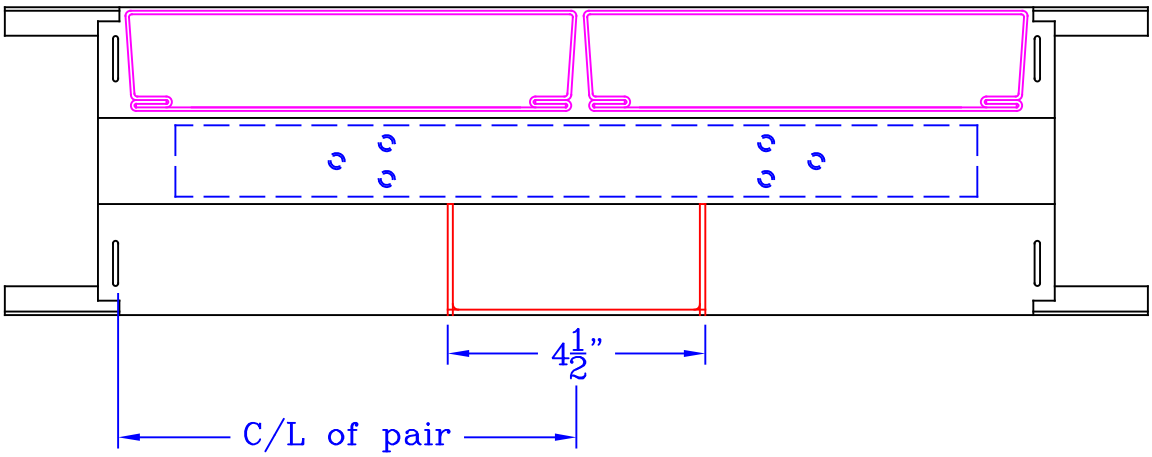


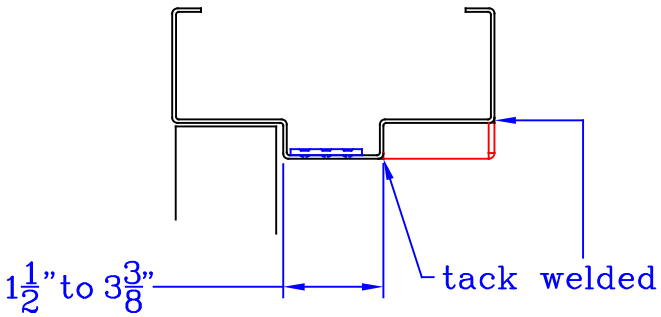


HWEMUA

Removable hardware mullion reinforcement, 12ga, with filler block in 12ga



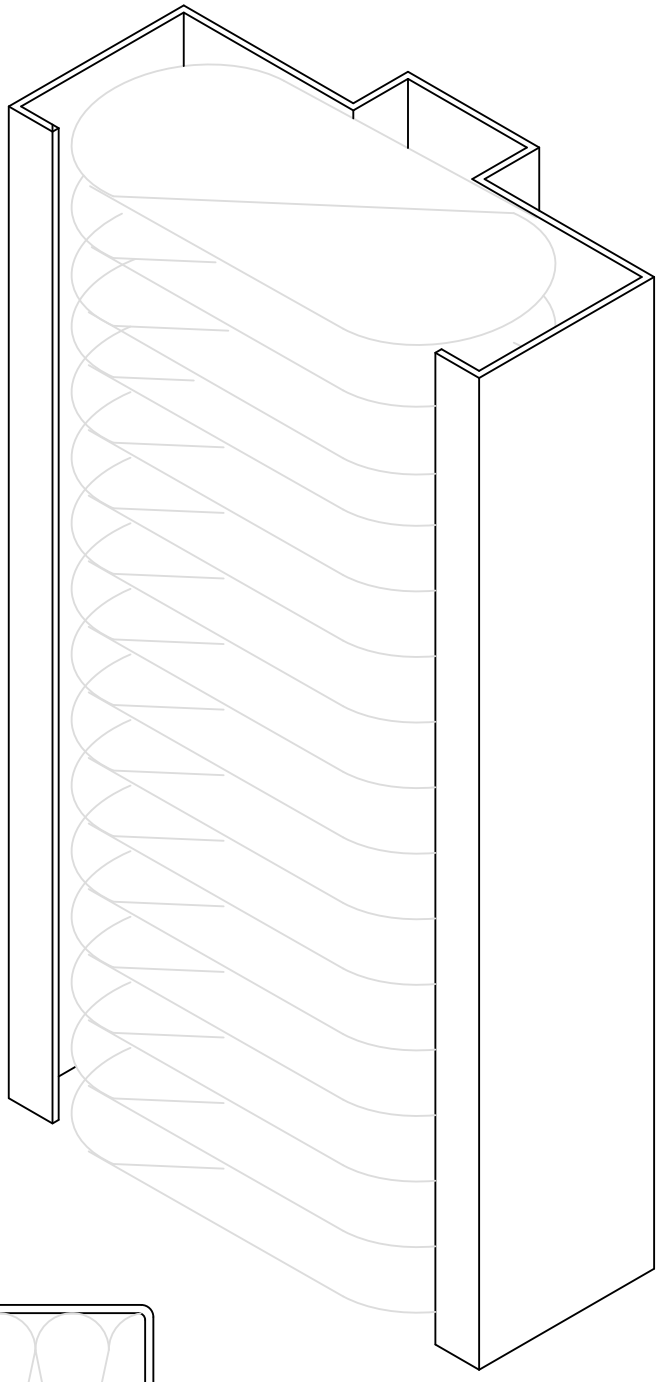


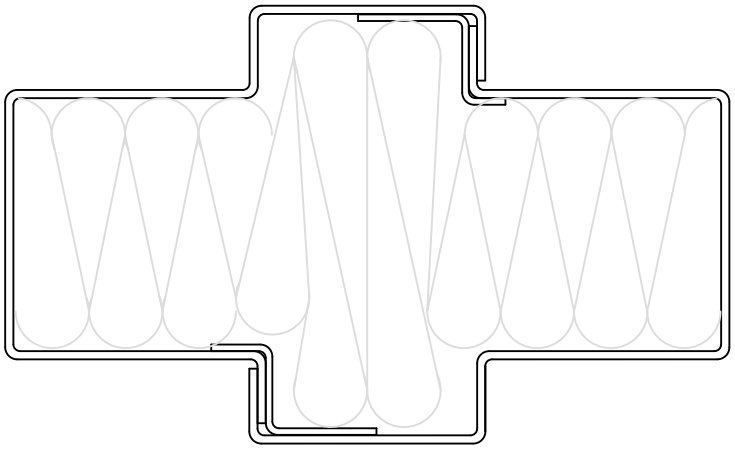


HWEMUB

Sound deadening mineral wool

For mullion upon request



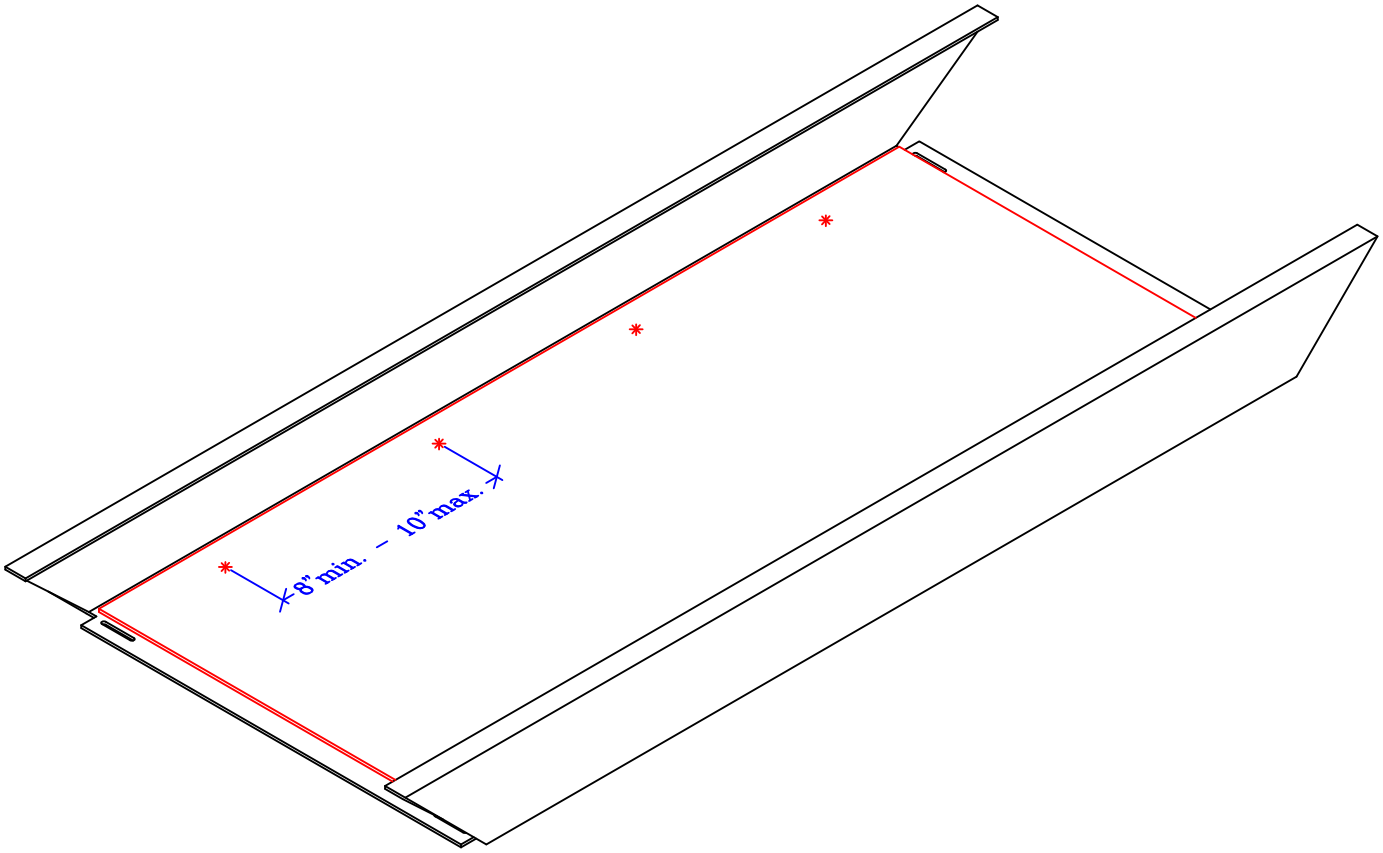


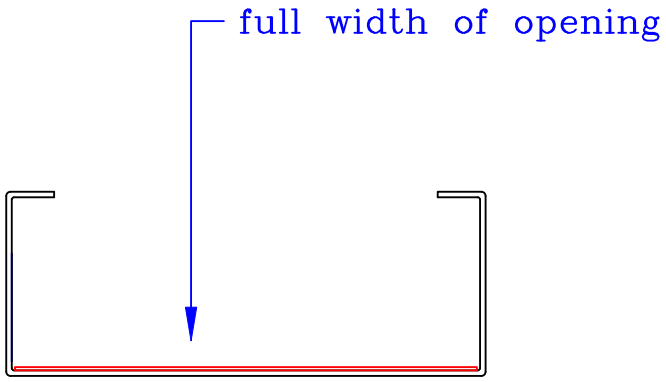
MW

Mandatory for mullion when thermal break frame.

Reinforcing for by passing or bifold hardware, 12ga

Spot welded

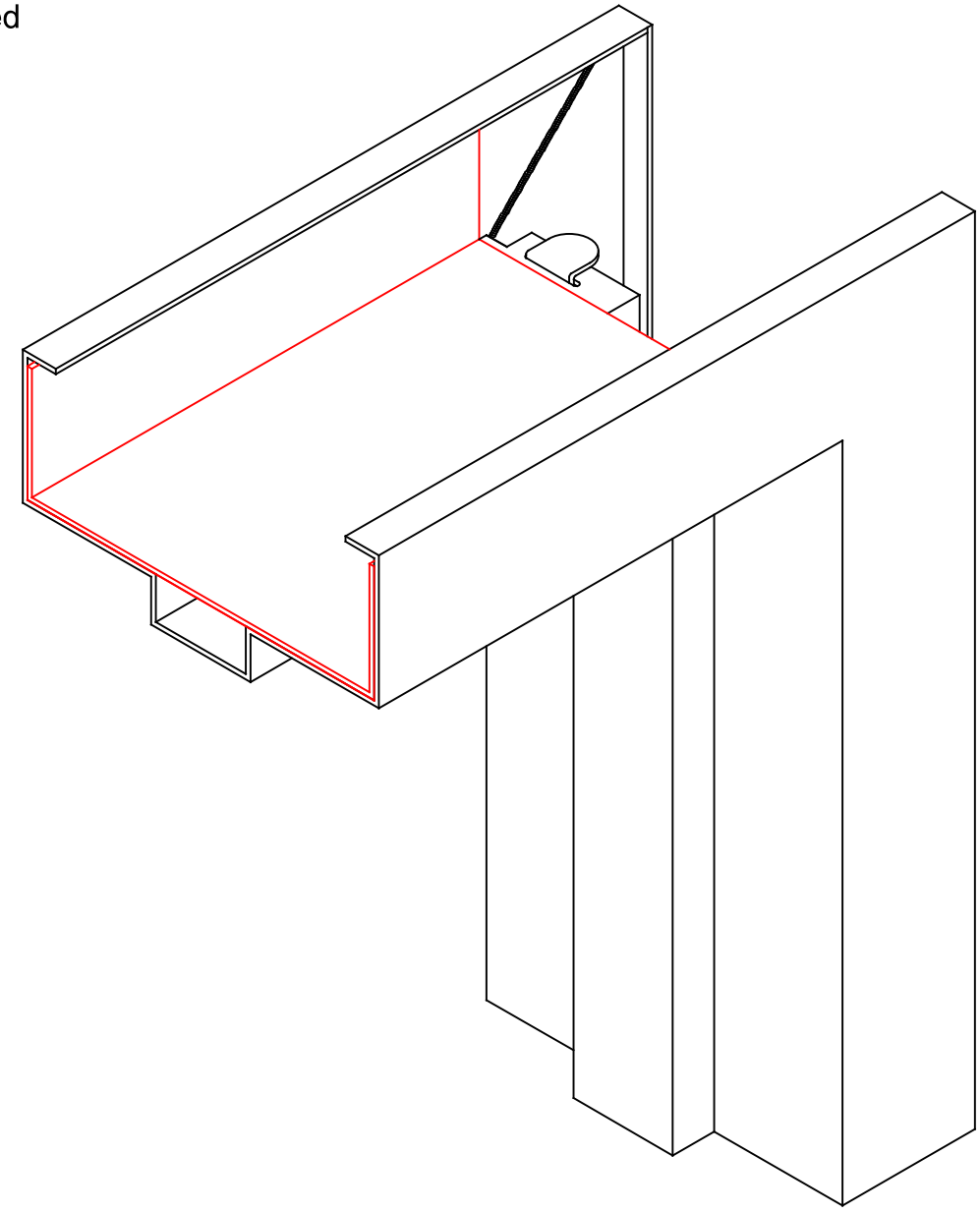


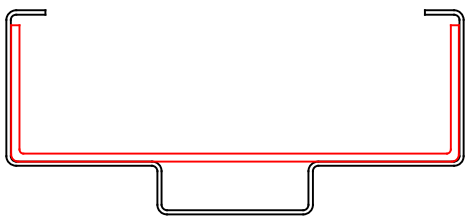


PBH

U reinforcement at head, 14ga

Spot welded

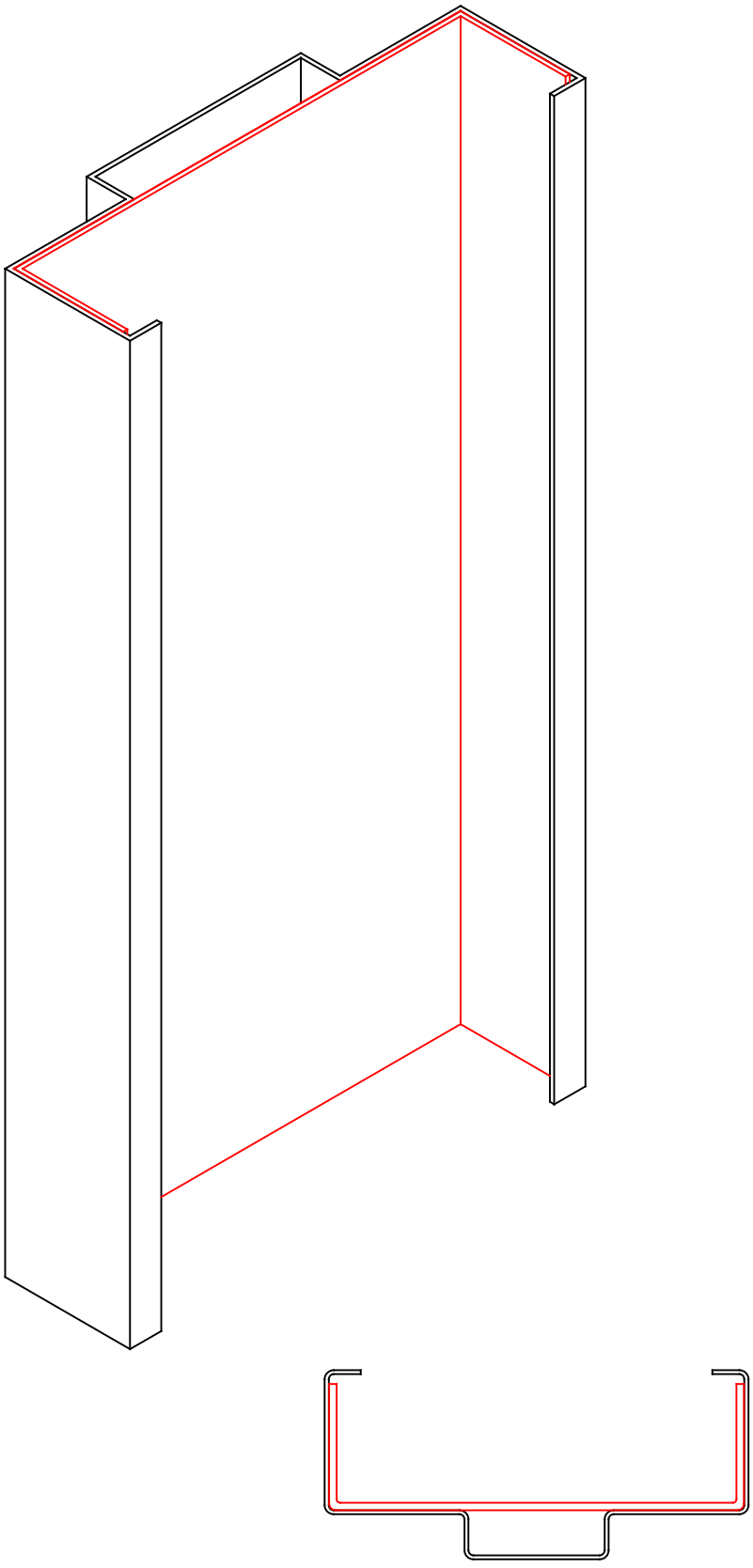




UHD14

U reinforcement at jamb, 14ga

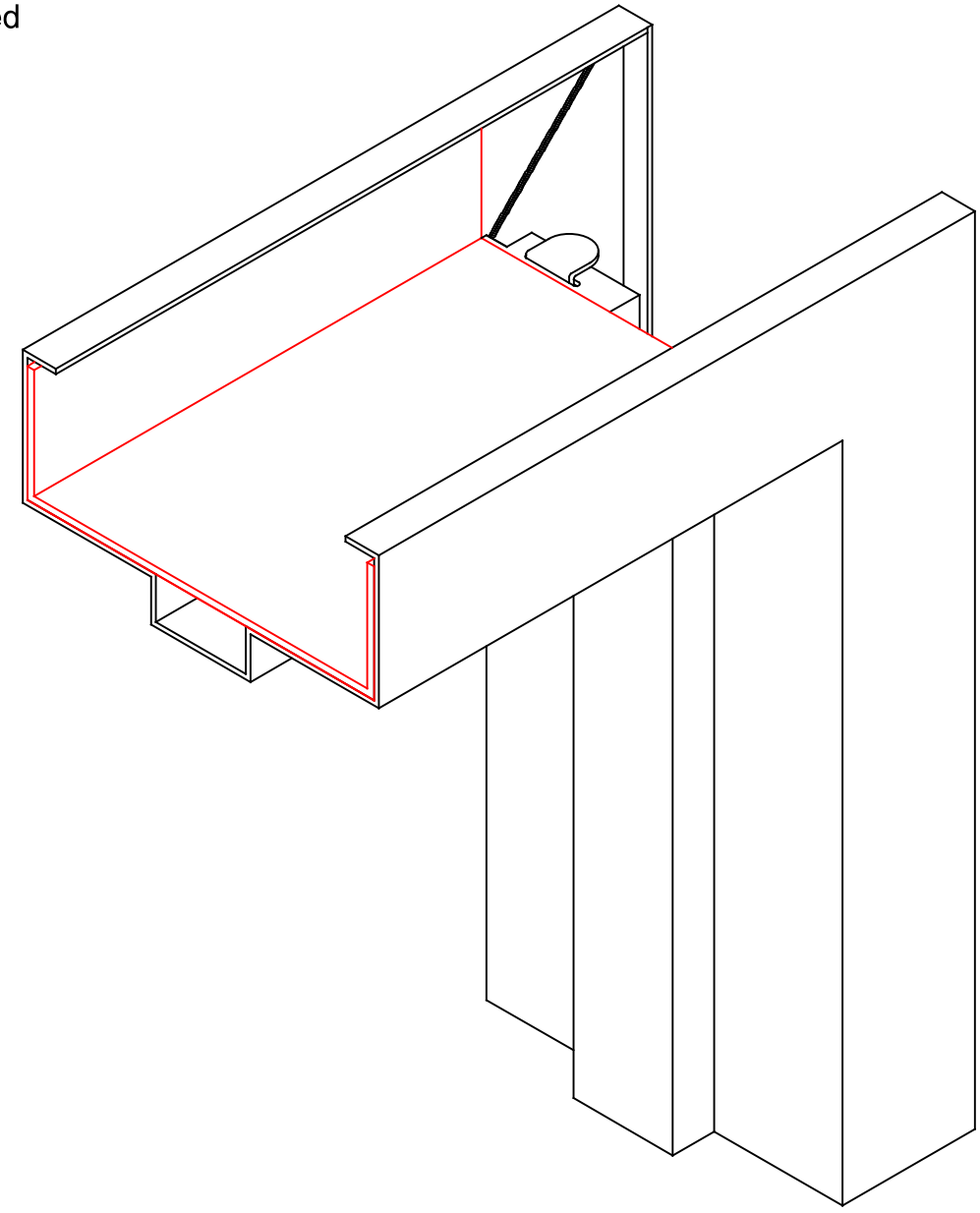
Spot welded

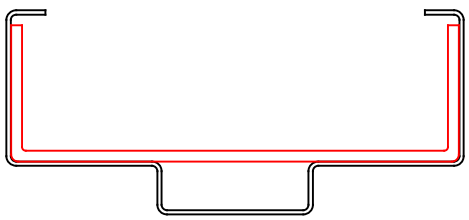


UJMB14

U reinforcement at head, 12ga

Spot welded

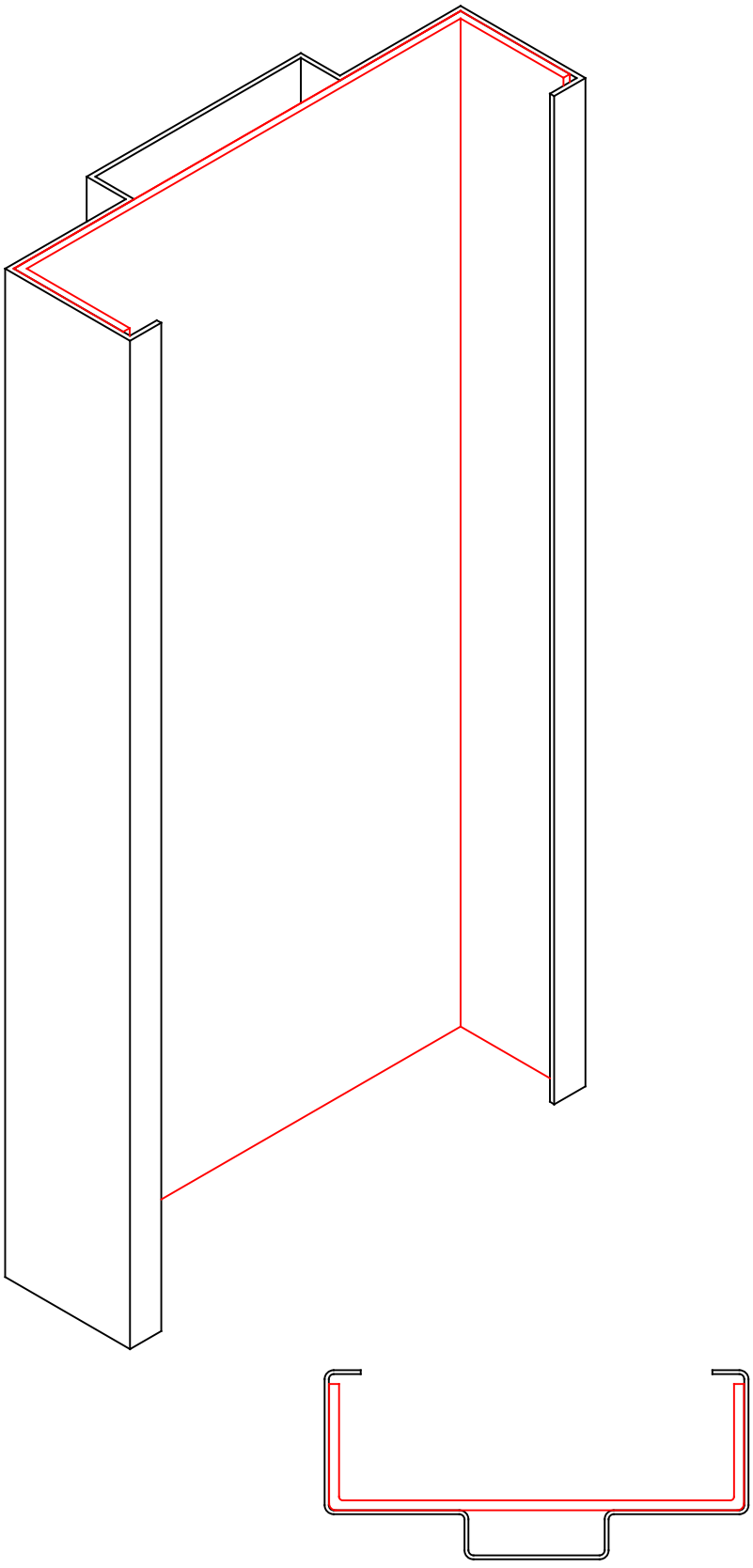




UHD12

U reinforcement at jamb, 12ga

Spot welded



UJMB12

Positive pressure up to 180 minutes, for frame

Mylar label with protective film

180

Located between 1st and 2nd hinge prep when butt hinges or at head when continuous hinge.

Positive pressure up to 90 minutes, for frame
Mylar label with protective film

Located between 1st and 2nd hinge prep when butt hinges or at head when continuous hinge.

Positive pressure up to 60 minutes, for screen or sidelite
Mylar label with protective film

60

Located between 1st and 2nd hinge prep when butt hinges or at head when continuous hinge.

Positive pressure 45 minutes
Mylar label with protective film

For 20, 45 and 60 ratingts, use 90.

45

Located between 1st and 2nd hinge prep when butt hinges or at head when continuous hinge.

Construction Label – Fire Door/Frame

Mylar label with protective film

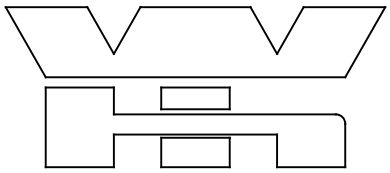
Located between 1st and 2nd hinge prep when butt hinges or at head when continuous hinge.

Embossed positive pressure 180 minutes, for frame
18GA and 16GA frame only.

180E

Located between 1st and 2nd hinge prep when butt hinges or at head when continuous hinge.

Embossed positive pressure 90 minutes, for frame
18GA and 16GA frame only.



DE LA FONTAINE
FIRE DOOR FRAME
RATING 1 1/2 HRS

90E

Located between 1st and 2nd hinge prep when butt hinges or at head when continuous hinge.

Embossed positive pressure 45 minutes, for frame
18GA and 16GA frame only.

For 20E, 45E and 60E ratings, use 90E.

Located between 1st and 2nd hinge prep when butt hinges or at head when continuous hinge.

Positive pressure up to 180 minutes, for frame
Riveted

180R

Located between 1st and 2nd hinge prep when butt hinges or at head when continuous hinge.

Positive pressure up to 90 minutes, for frame, for screen or sidelight
Riveted

90R

Located between 1st and 2nd hinge prep when butt hinges or at head when continuous hinge.

Positive pressure up to 60 minutes, for screen or sidelight
Riveted

60R

Located between 1st and 2nd hinge prep when butt hinges or at head when continuous hinge.

Positive pressure 45 minutes
Riveted

For 20R, 45R and 60R ratings, use 90R.

Located between 1st and 2nd hinge prep when butt hinges or at head when continuous hinge.

Construction Label – Fire Door/Frame

Riveted

CLR

Located between 1st and 2nd hinge prep when butt hinges or at head when continuous hinge.

FBC Hurricane, HVHZ, ±50 PSF, includes door reinforcements

Mylar label with protective film

HUR50

Located between 1st and 2nd hinge prep when butt hinges or at top channel when continuous hinge.

FBC Hurricane, HVHZ, ±70 PSF, includes door reinforcements

Mylar label with protective film

HUR70

Located between 1st and 2nd hinge prep when butt hinges or at top channel when continuous hinge.

FBC Hurricane, Non-HVHZ, ±70 PSF

Mylar label with protective film

HUR70N

Located between 1st and 2nd hinge prep when butt hinges or at top channel when continuous hinge.

Construction Label - Hurricane-Resistant Door/Frame

Mylar label with protective film

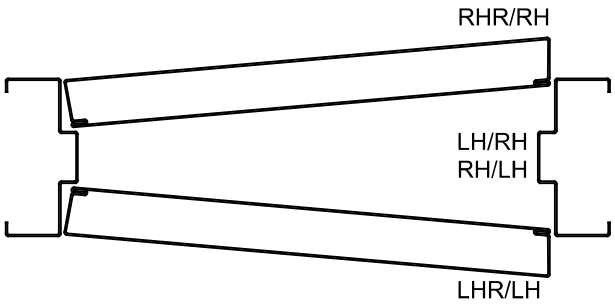
HURCL

Located between 1st and 2nd hinge prep when butt hinges or at top channel when continuous hinge.

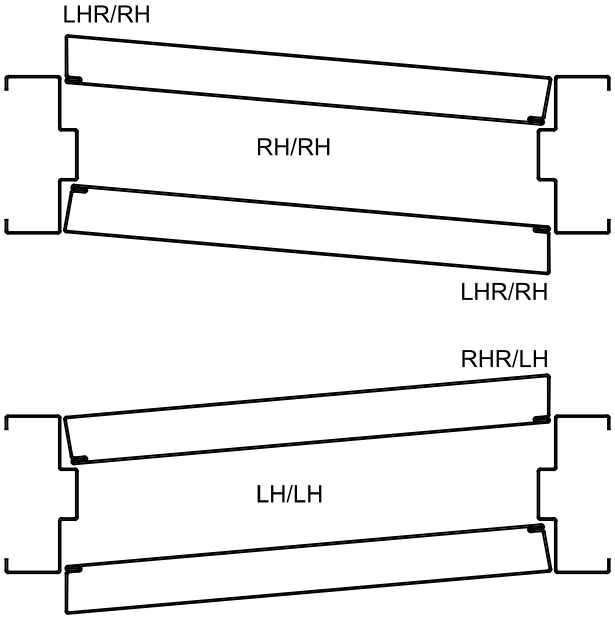
Communicating frame

Handing shown based on any and all point of views

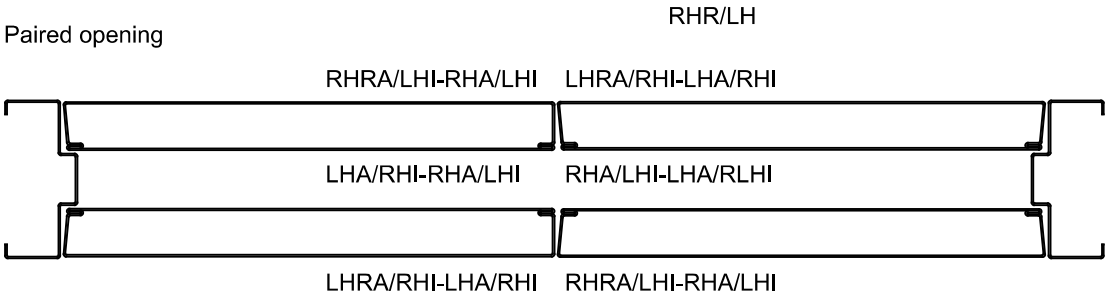
Single opening : hinges on same jamb



Single opening : hinges on opposite jambs

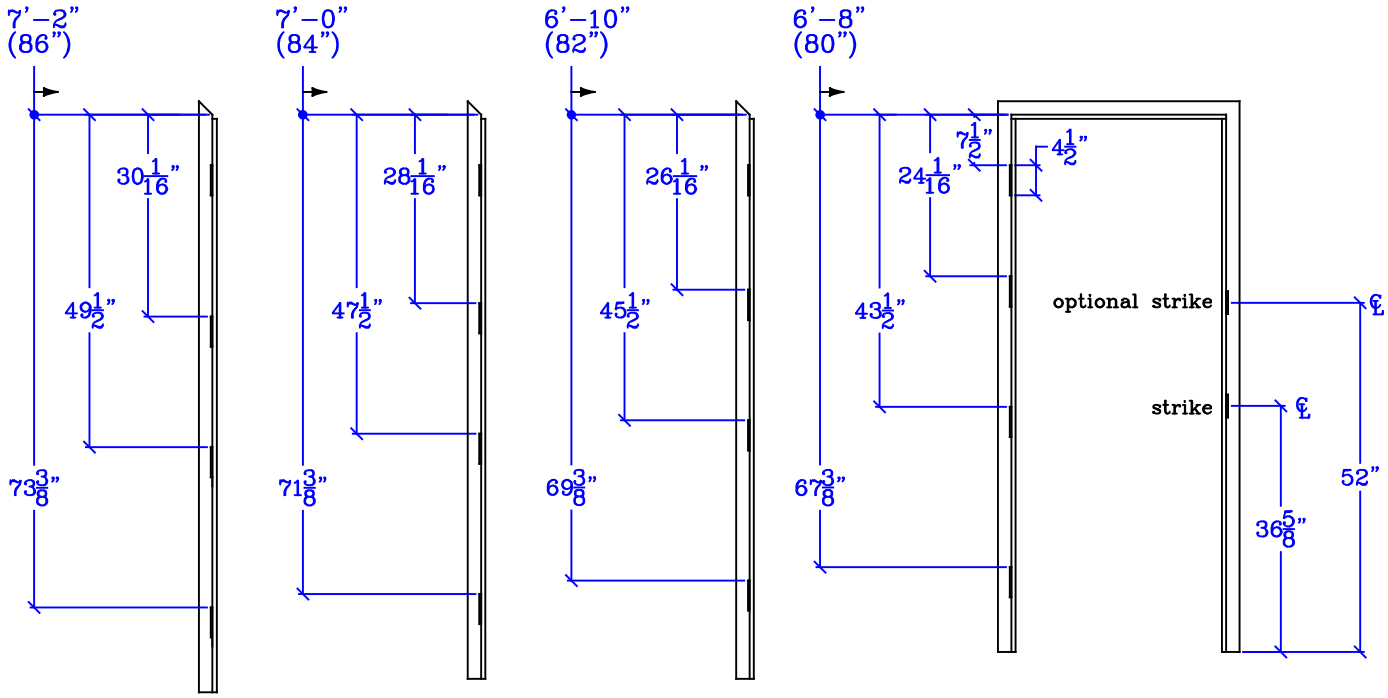


Paired opening

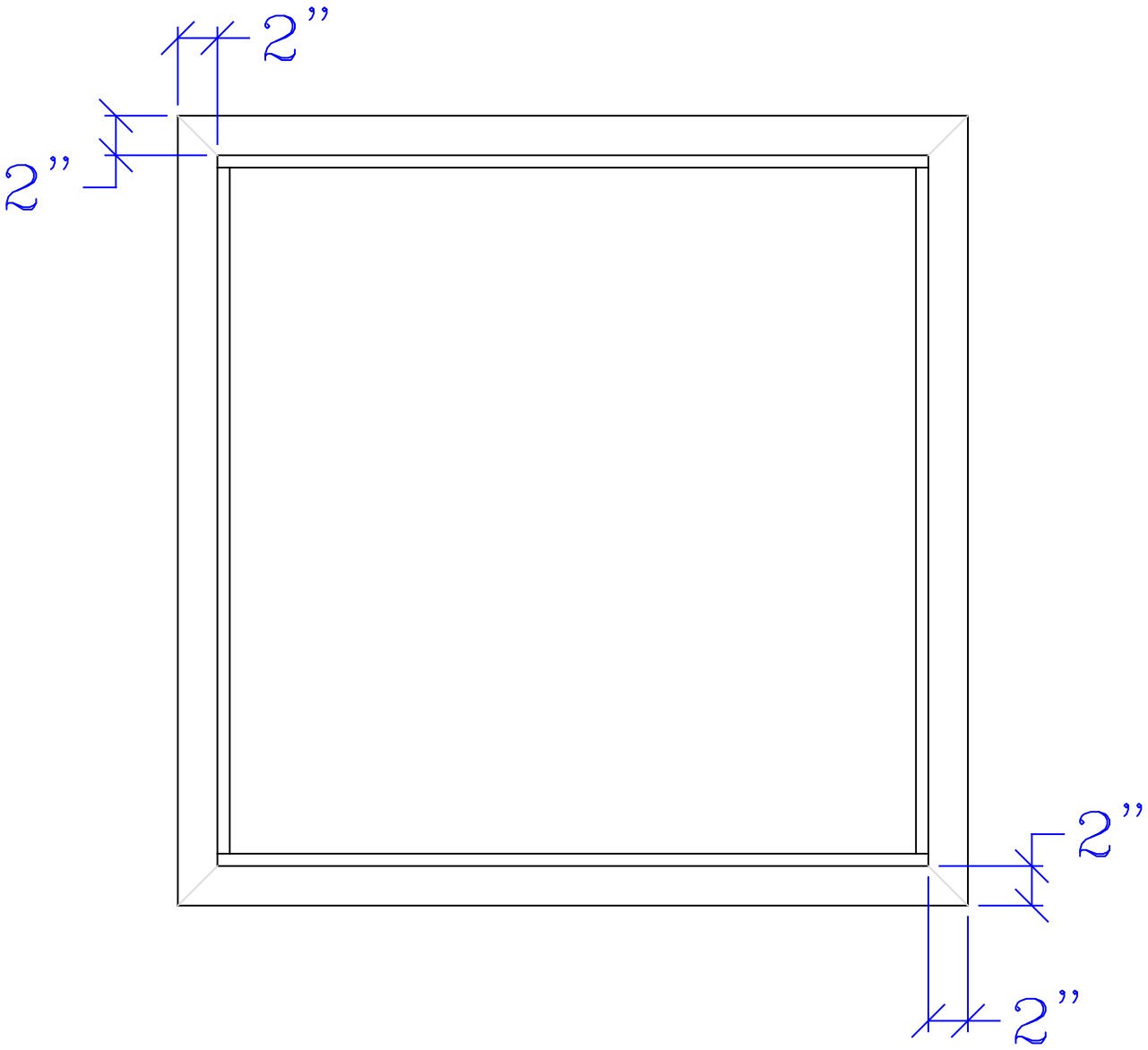


Dutch door frame

DLF location shown

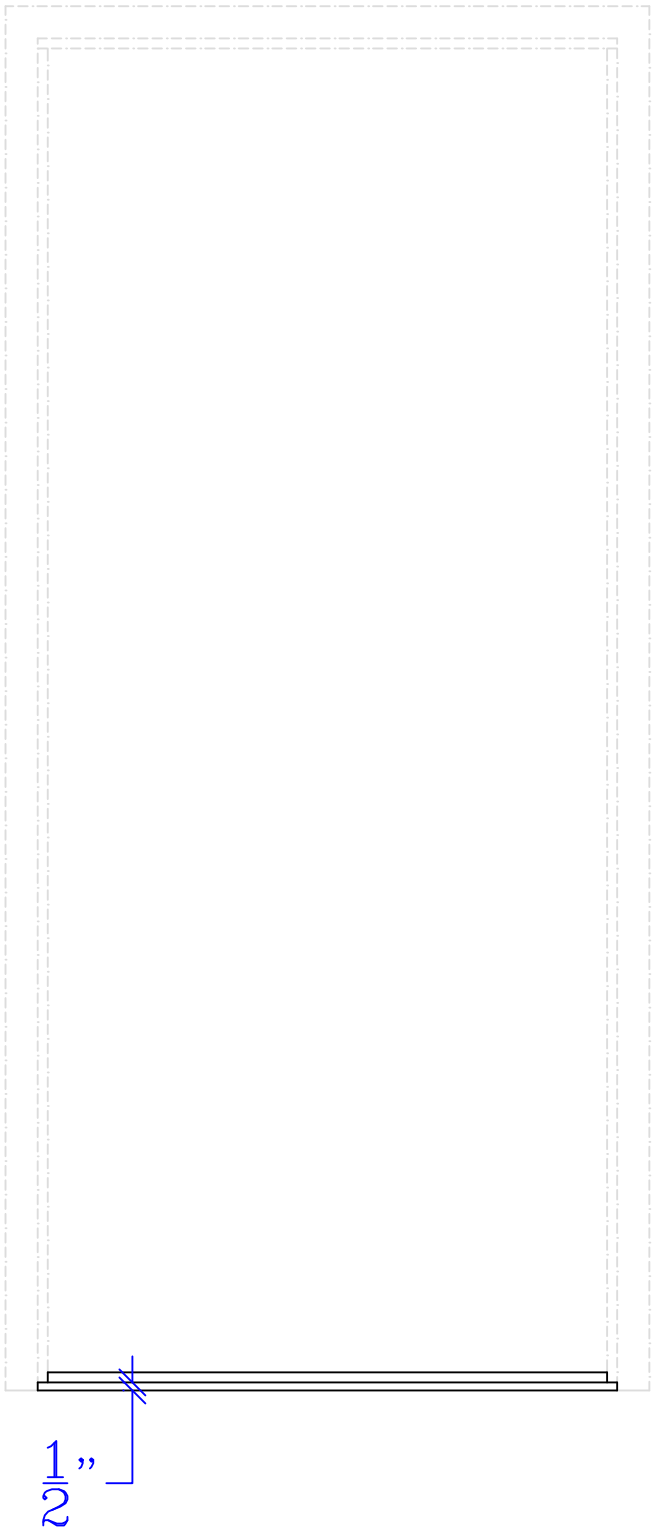


2" sill with 45° miters (4 sided frame)
Welded or knock down

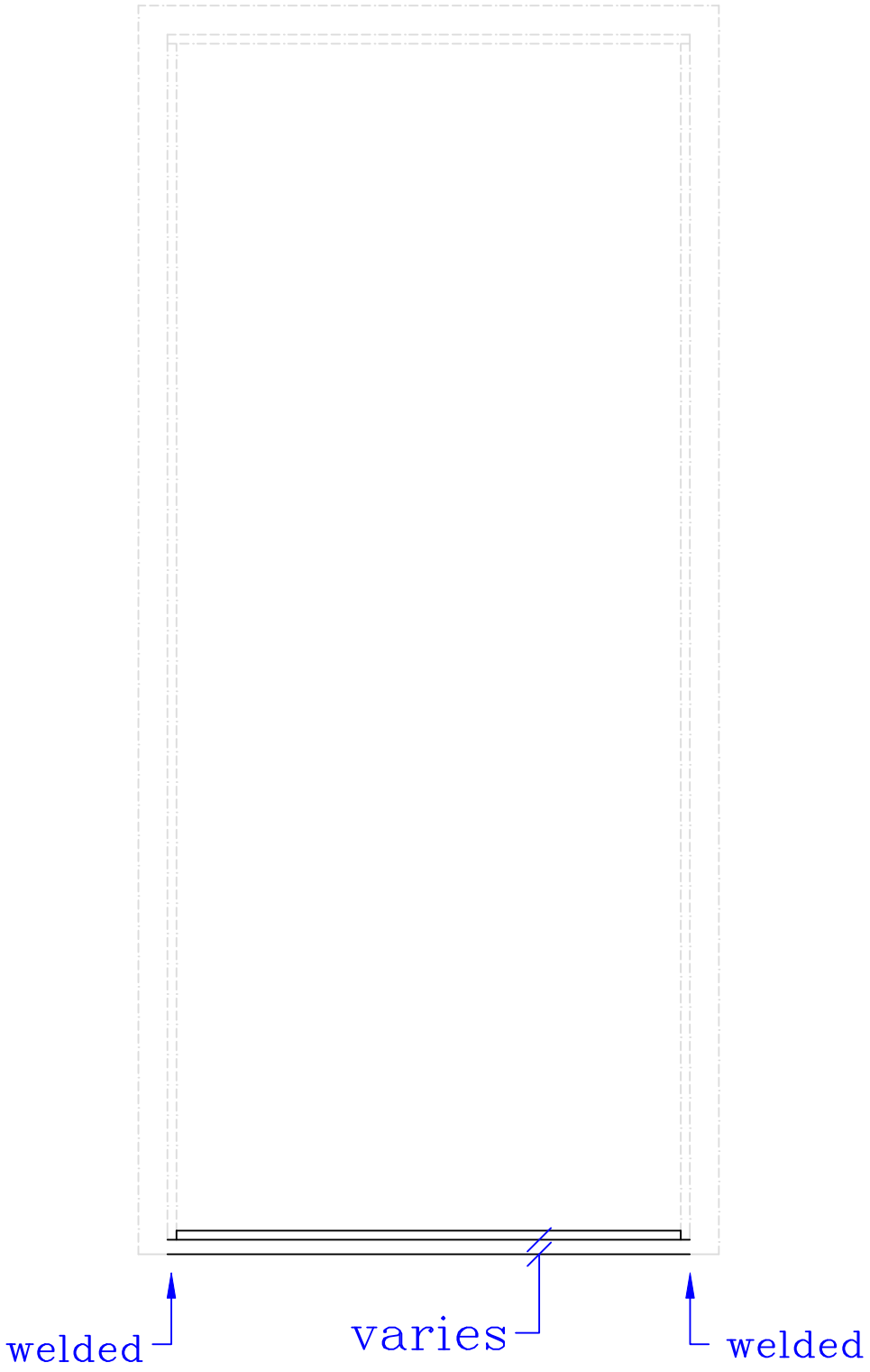


SI45

1/2" sill with square ends for standard 3 sided frame
Shipped loose



Welded sill option



A40 (ZF120) hot dipped galvannealed steel

General information:

Our A40 material is compliant with the ASTM A653/A653M specifications. Which specification for steel sheet, zinc-coated (galvanized) or zinc-iron (galvannealed) by the hot dipped process.

Zinc-iron coating of 0.30 oz/ft² total both sides per the single spot test. In SI units it would be 90g/m² total both sides per the same test and listed under ZF120.

A60 (ZF180) hot dipped galvannealed steel

General information:

Our A60 material is compliant with the ASTM A653/A653M specifications. Which specification for steel sheet, zinc-coated (galvanized) or zinc-iron (galvannealed) by the hot dipped process.

Zinc-iron coating of 0.50 oz/ft² total both sides per the single spot test. In SI units it would be 150g/m² total both sides per the same test and listed under ZF180.

G90(Z275) hot dipped galvanized steel

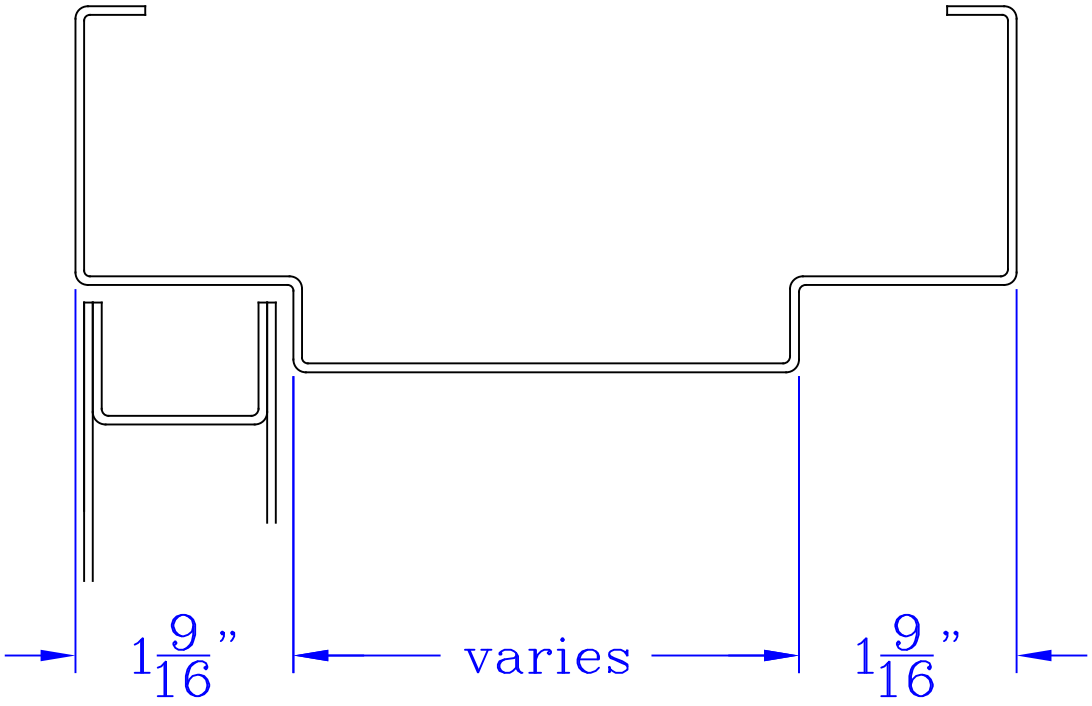
General information:

Our G90 material is compliant with the ASTM A653/A653M specifications. Which specification for steel sheet, zinc-coated (galvanized) or zinc-iron (galvannealed) by the hot dipped process.

Zinc coating of 0.80 oz/ft² total both sides per the single spot test. In SI units it would be 235g/m² total both sides per the same test and listed under Z275.

Frame profile for 1 3/8" door thickness

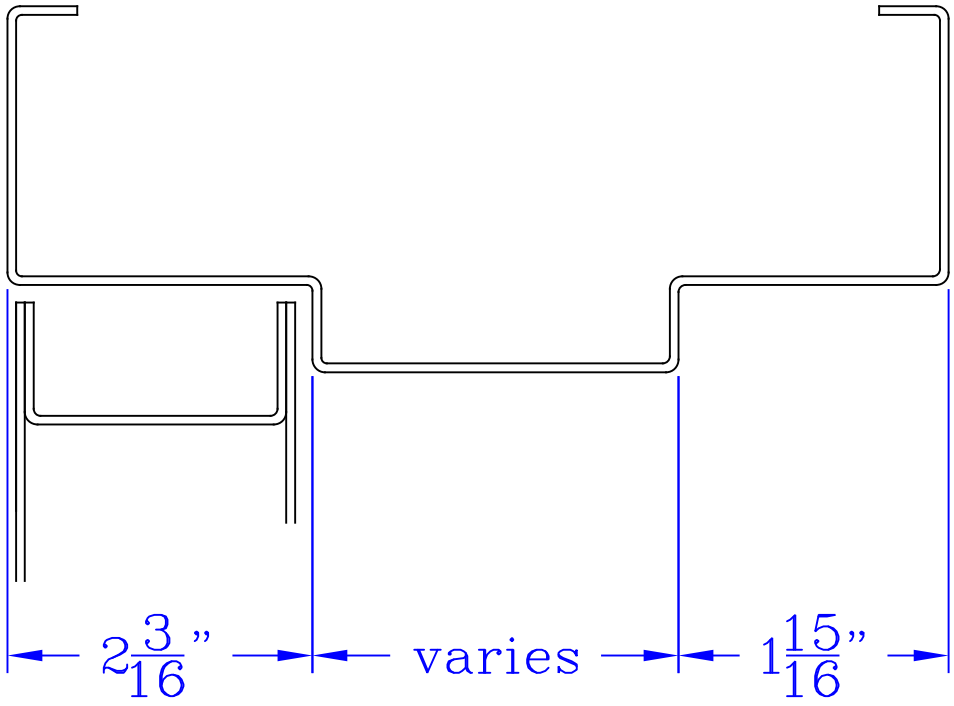
At jambs and head



For LR, SR, DR and DW series

Frame profile for 2" door thickness

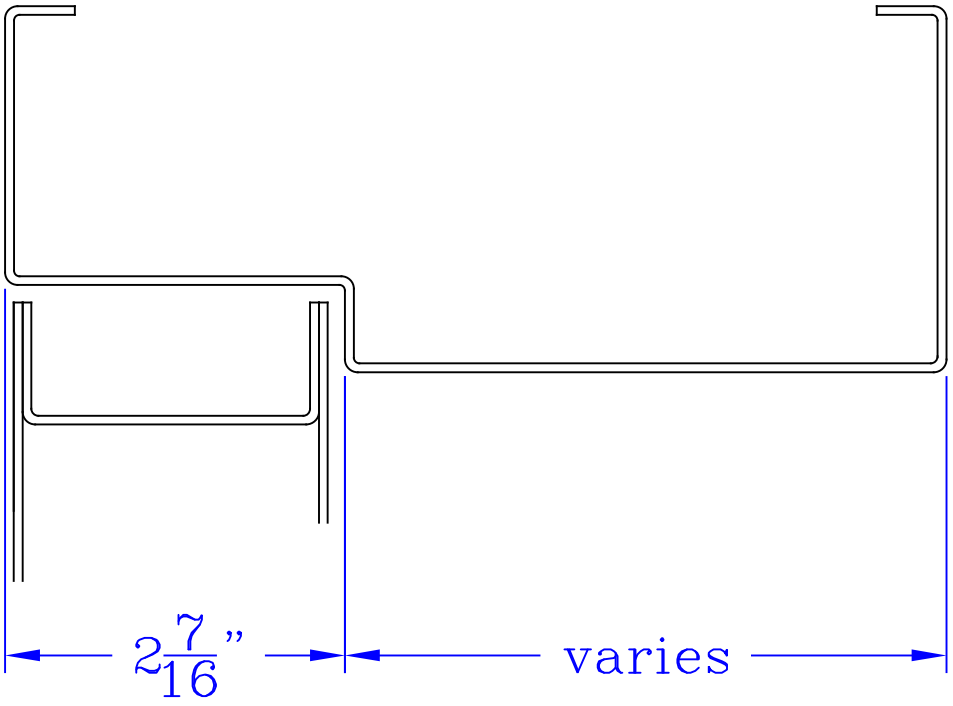
At jambs and head



For LR, SR, DR and DW series

Frame profile for 2 1/4" door thickness

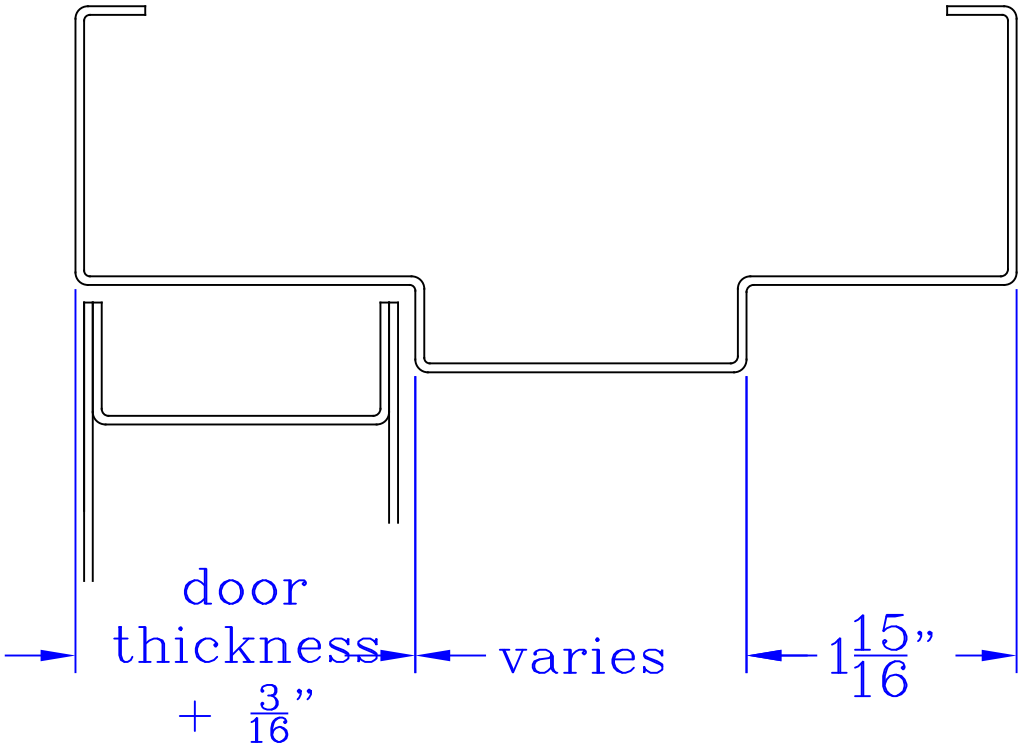
At jambs and head



For LR, SR, DR and DW series

Frame profile for special door thickness

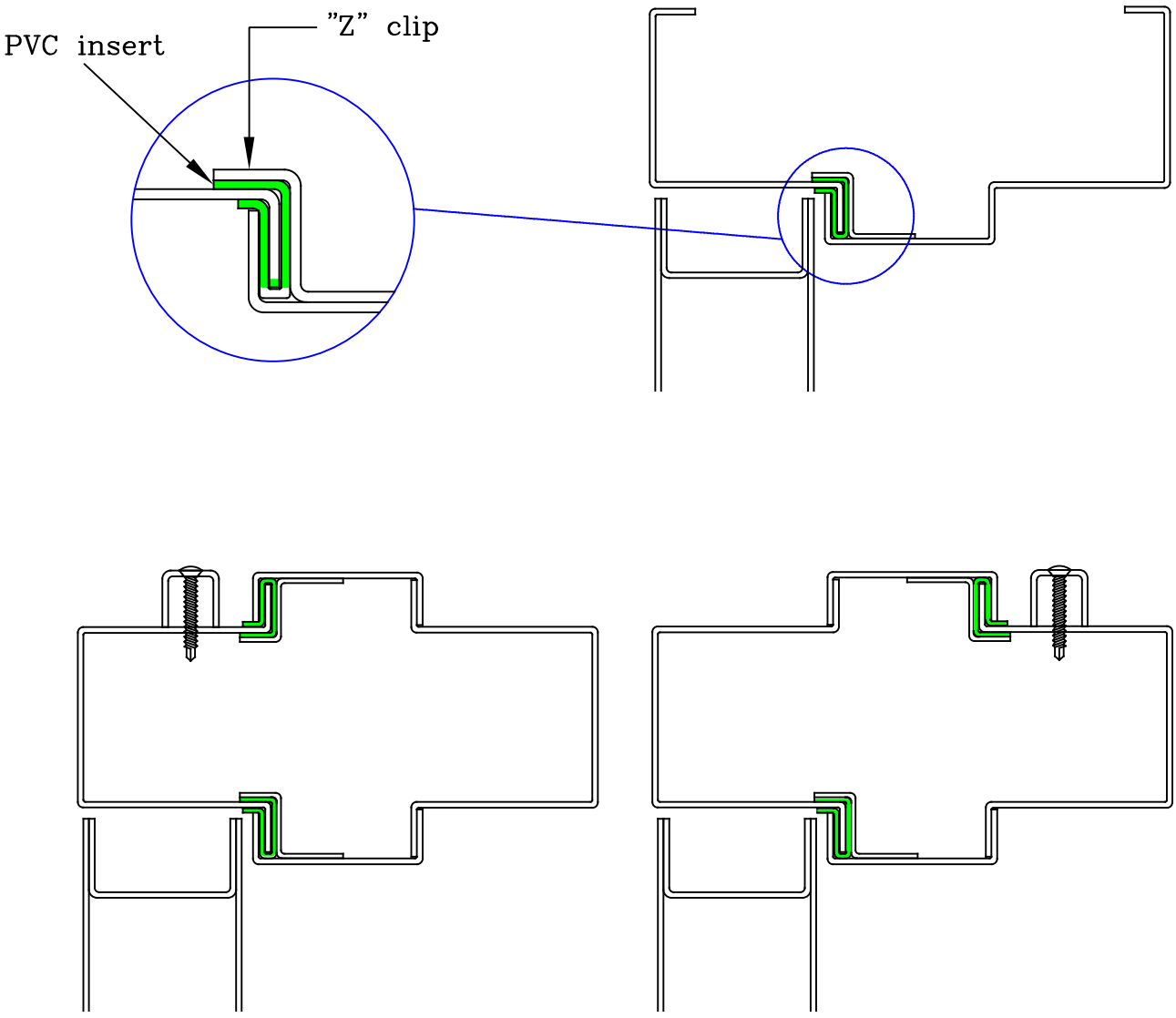
At jambs and head



SPDT

For LR, SR, DR and DW series

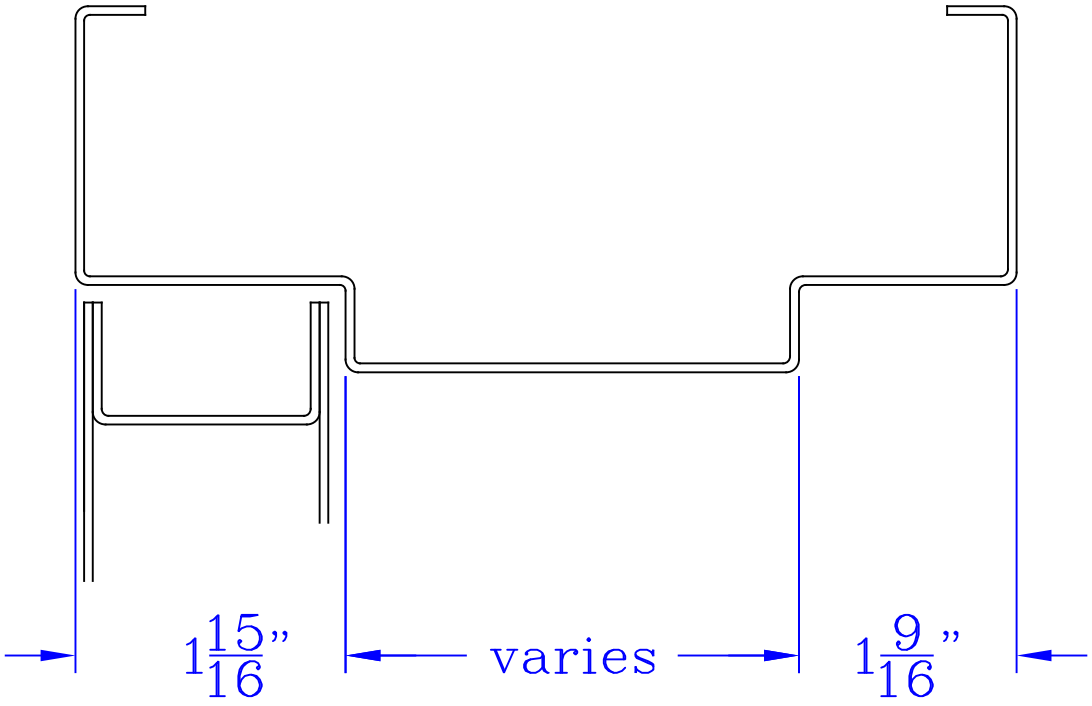
Thermal break frame
At jambs, head and mullion



TB

For welded 16ga or 14ga frames only.
Not available fire rated.

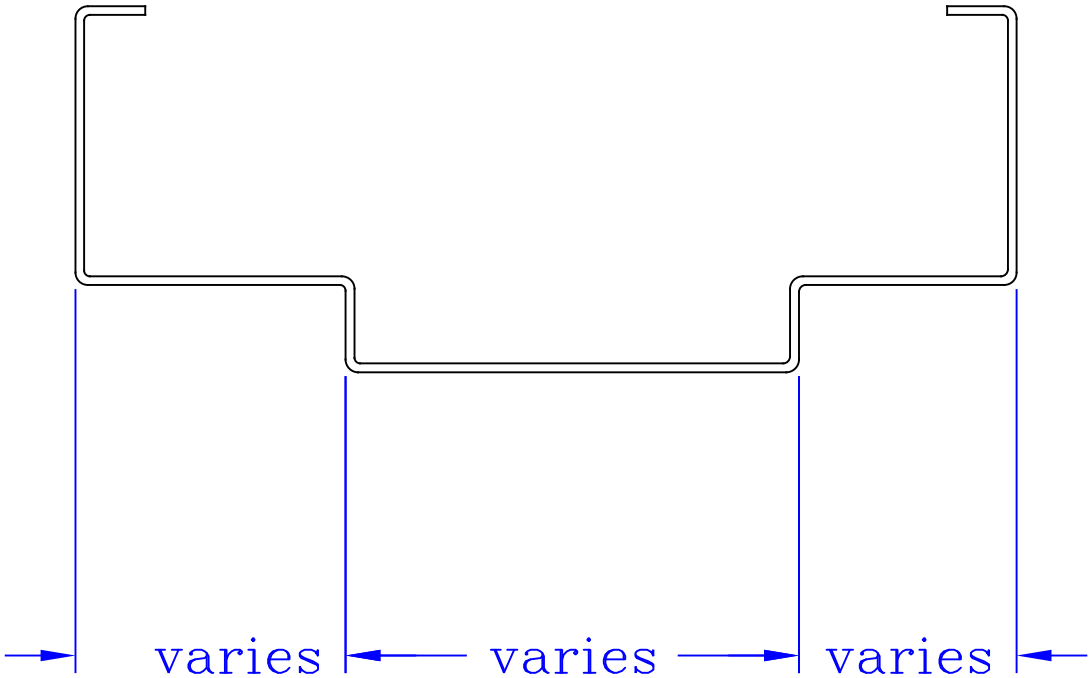
Unequal rabbet
At jambs and head



UEQ

For LR, SR, DR and DW series

Unequal rabbet
For elevations

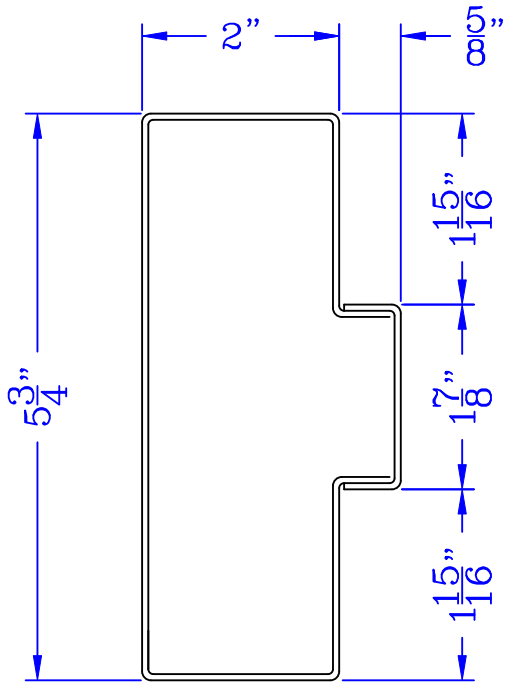


URB

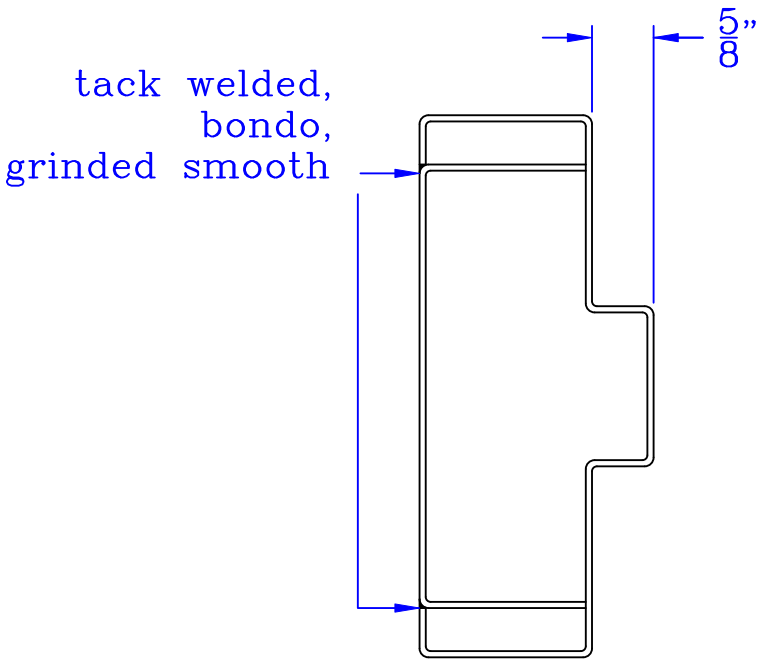
For LR, SR, DR and DW series

Closed back
At jambs and head

For 5 3/4"JD and more,
when 2" face and equal rabbet.



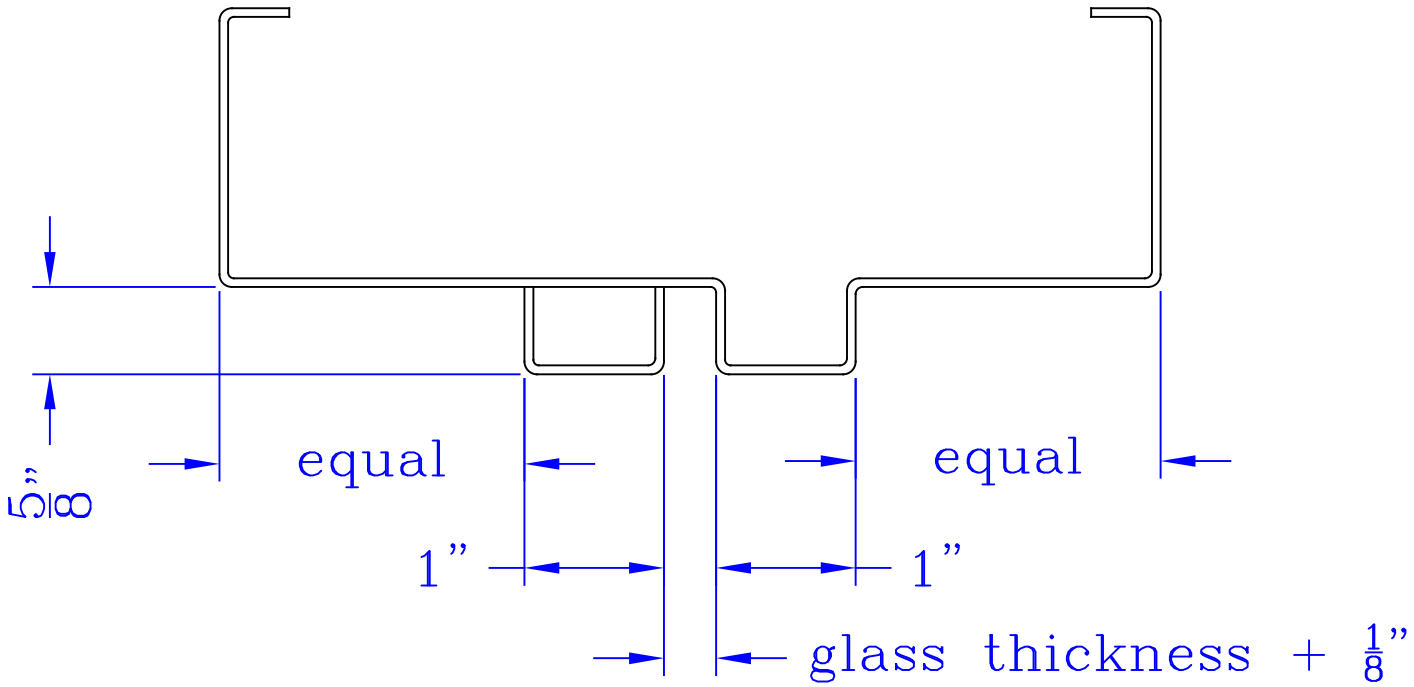
For all else.



CB

Centered glass

At lite(s) in borrowed lite, sidelite and transom section

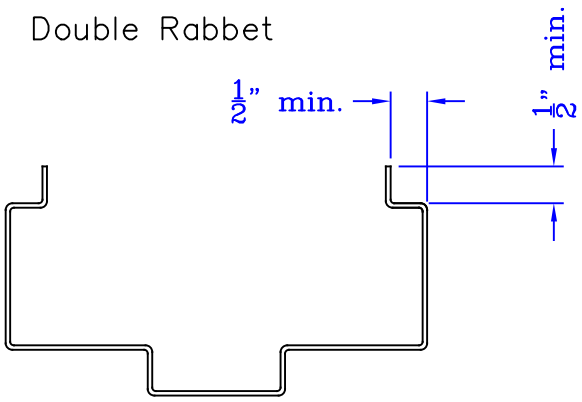


CG

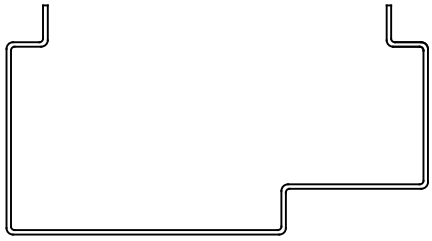
For LR, SR, DR and DW series

Caulking groove
At jambs and head

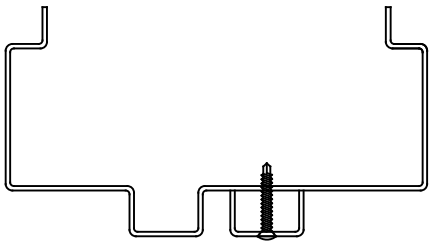
Double Rabbet



Single Rabbet



Centered glass

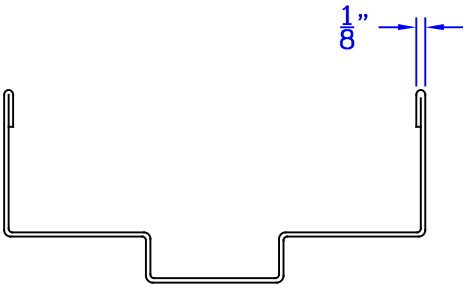


Cased Open

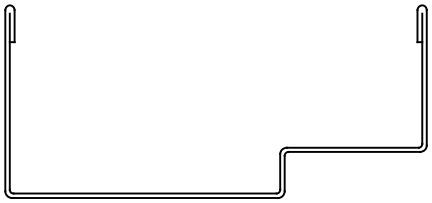
CGG

Hemmed
At jambs and head

Double Rabbet

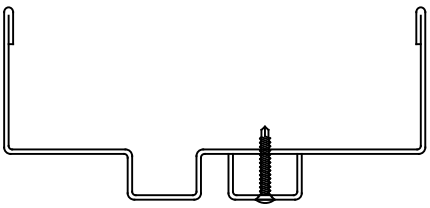


Single Rabbet

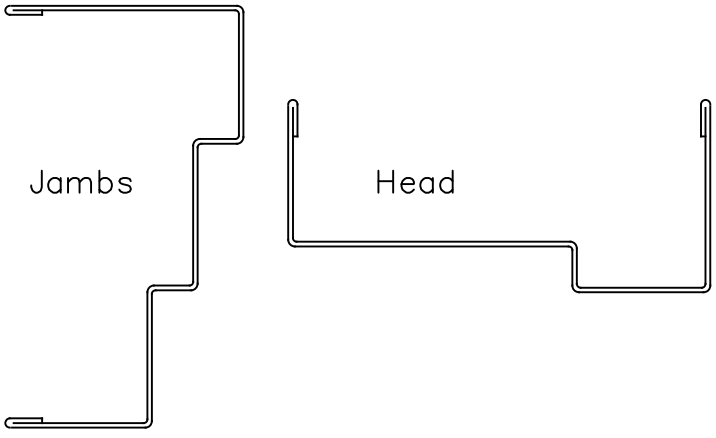


Cased Open

Centered glass

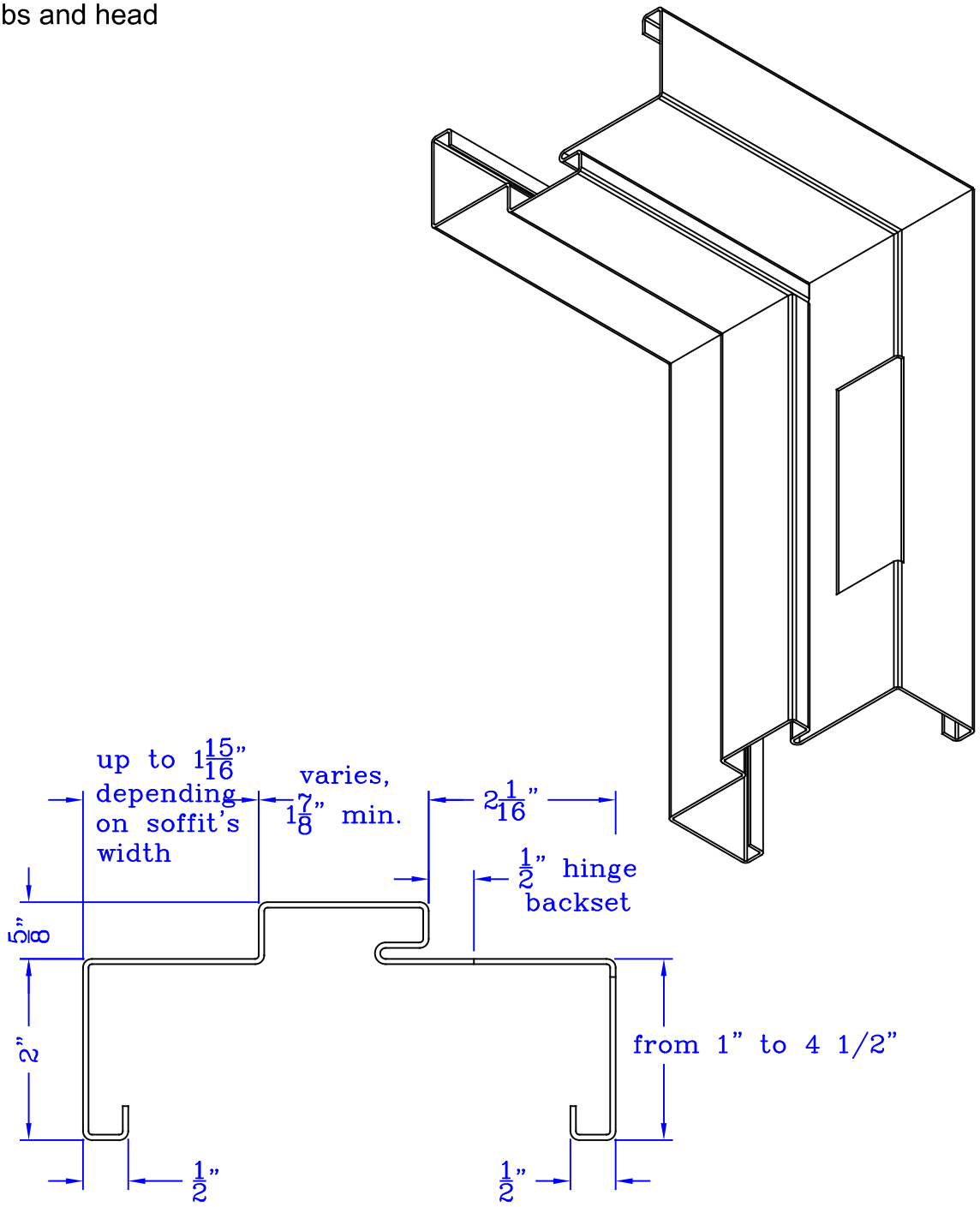


Double Egress



Kerf frame

At jambs and head



- DR,DW,SR,LR series, 16ga only
- 90mn maximum
- minimum 5" JD, maximum 15"
- with or without weatherstripping  see SLW

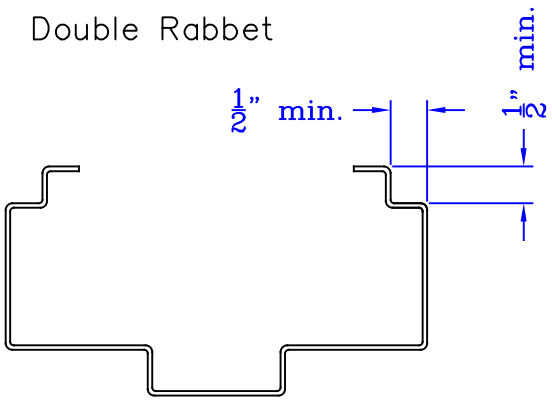
KF

Weatherstripping for Kerf frame
Shipped loose

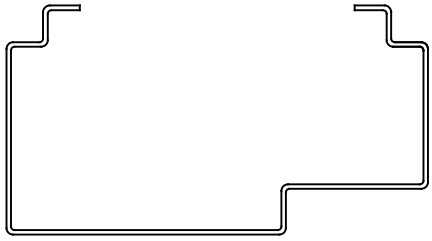
SLW

Shadow line
At jambs and head

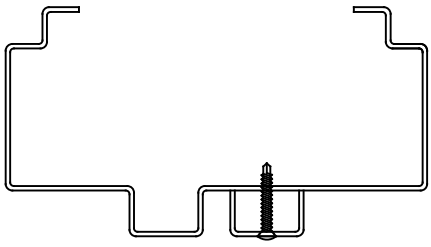
Double Rabbet



Single Rabbet

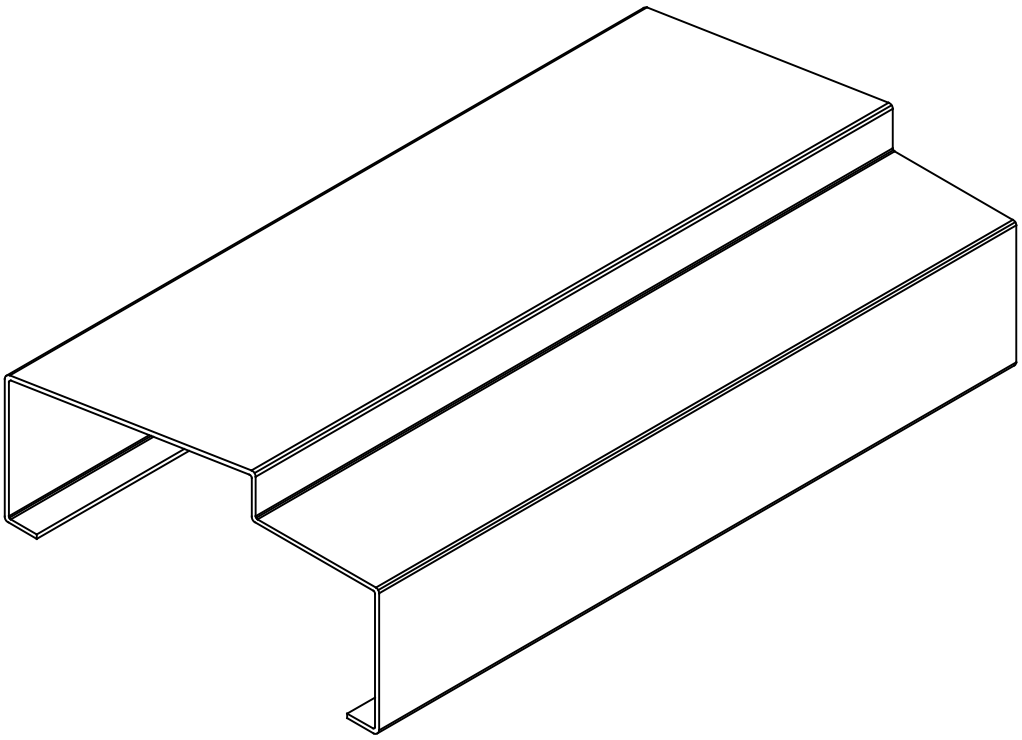


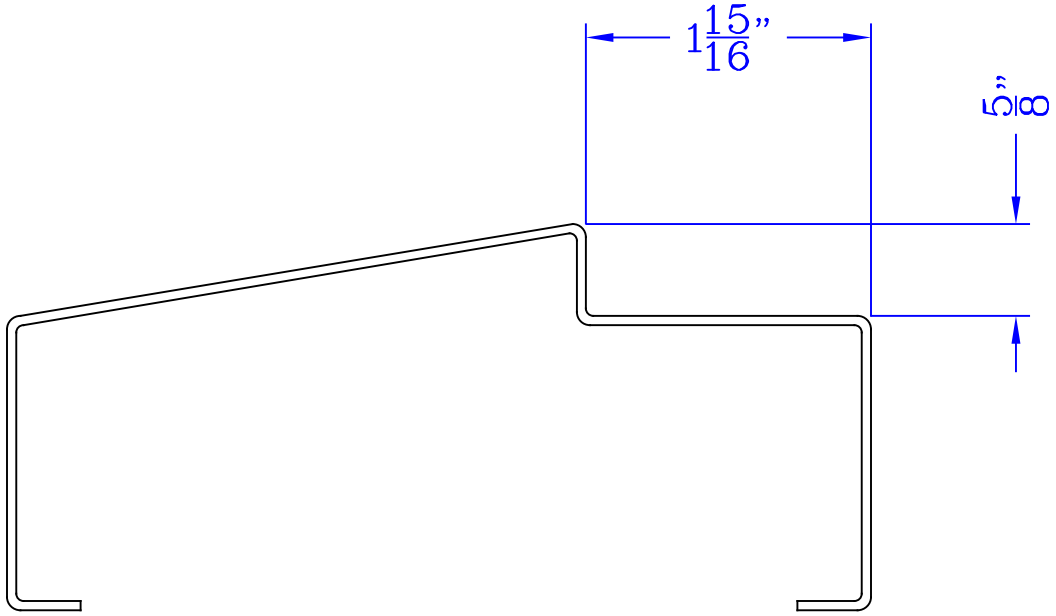
Centered glass



Cased Open

Splayed stop
with single rabbet profile only





SPS

For LR, SR, DR and DW series

DE LA FONTAINE

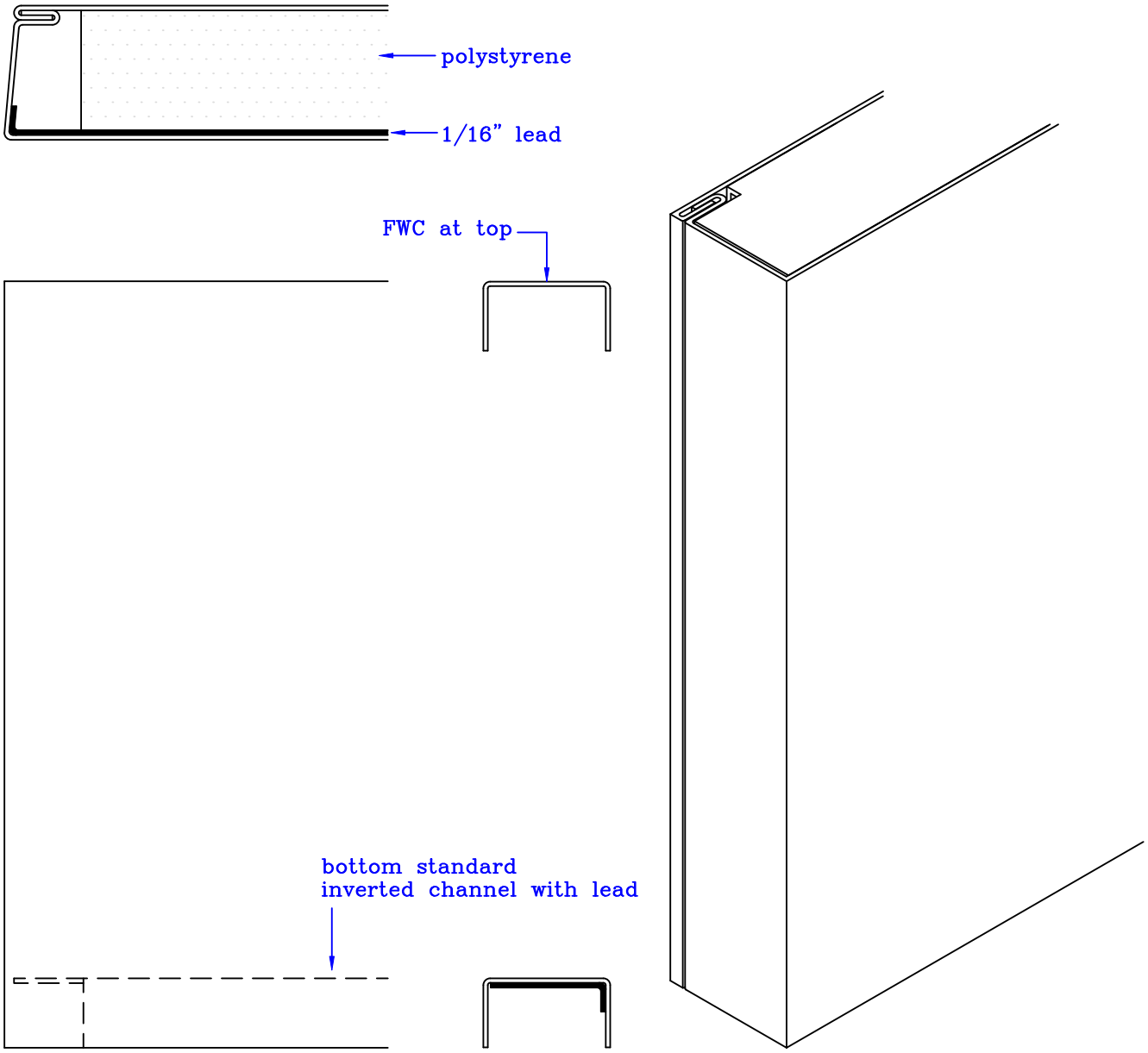
SPECIALTY PRODUCTS

DE LA FONTAINE

SPECIALTY PRODUCTS PAGE

Lead-lined

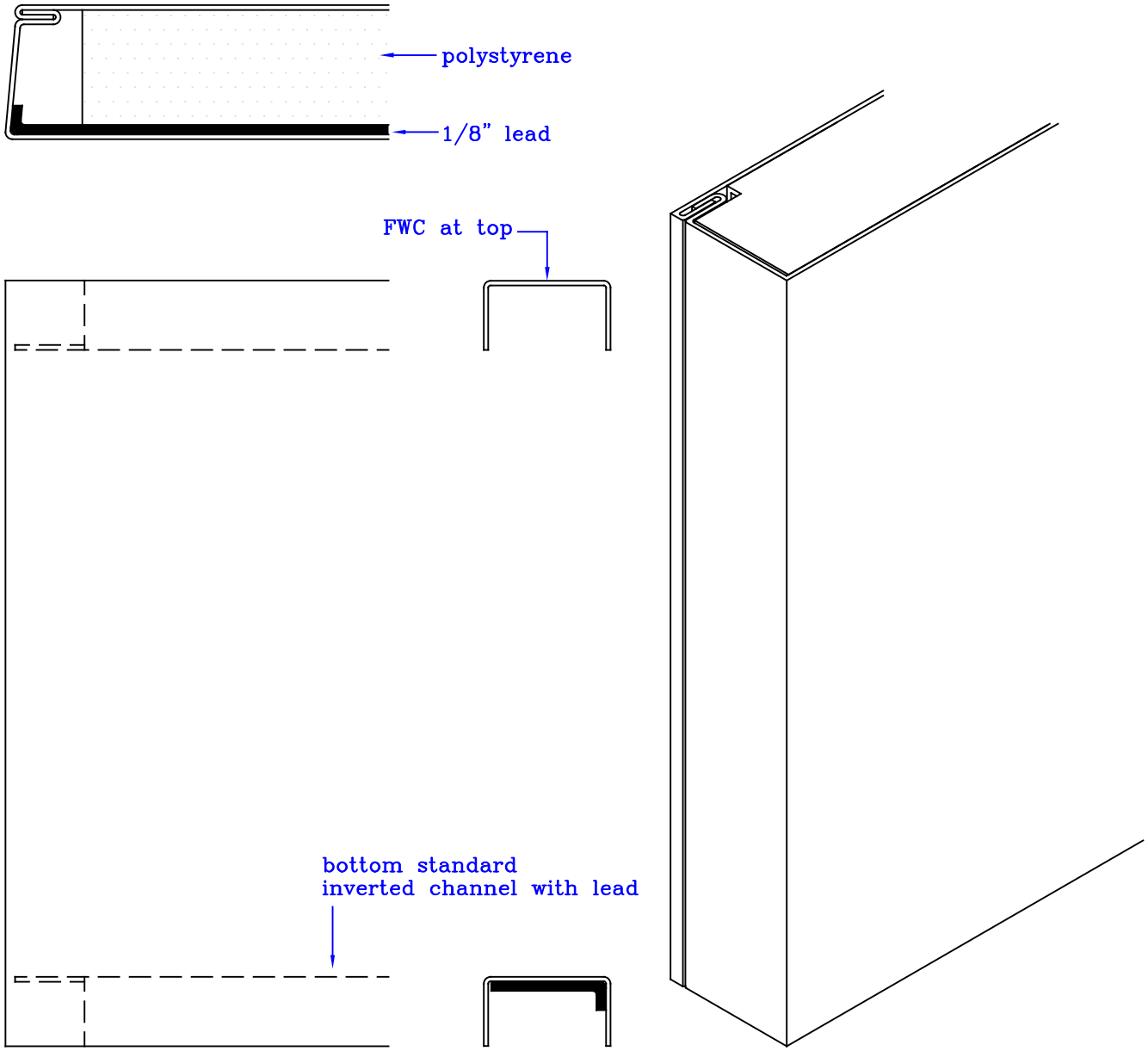
Continuous bonding of core to steel faces.



116LL

Complies with ASTM B29, QQ-L-201 "C" Category and CSA HP2 type 2 lead.
No fire rating available

Lead-lined
Continuous bonding of core to steel faces.

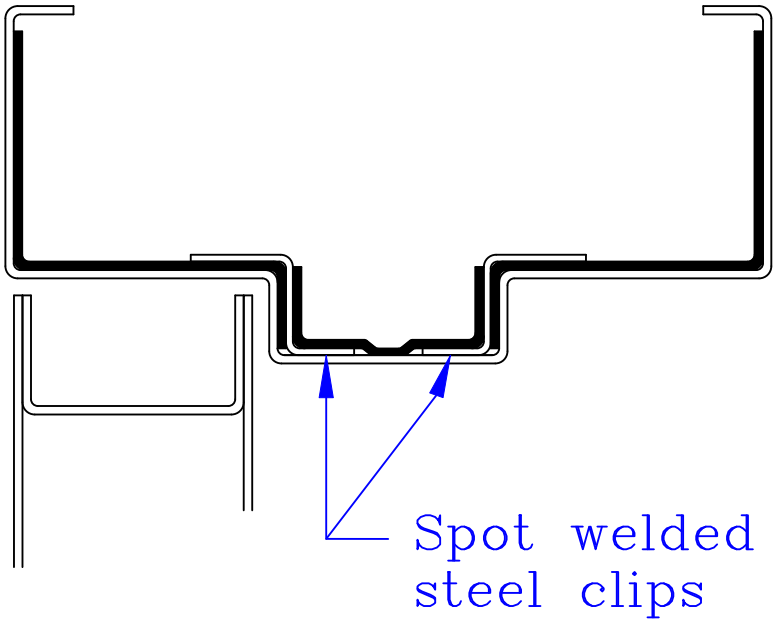


18LL

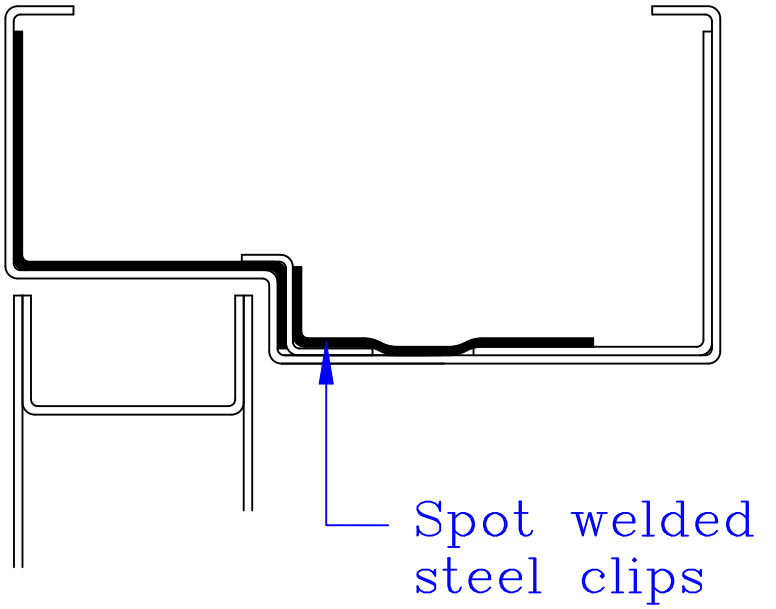
Complies with ASTM B29, QQ-L-201 "C" Category and CSA HP2 type 2 lead.
No fire rating available

Lead lined frame, full width 1/16"

at double rabbet



at single rabbet

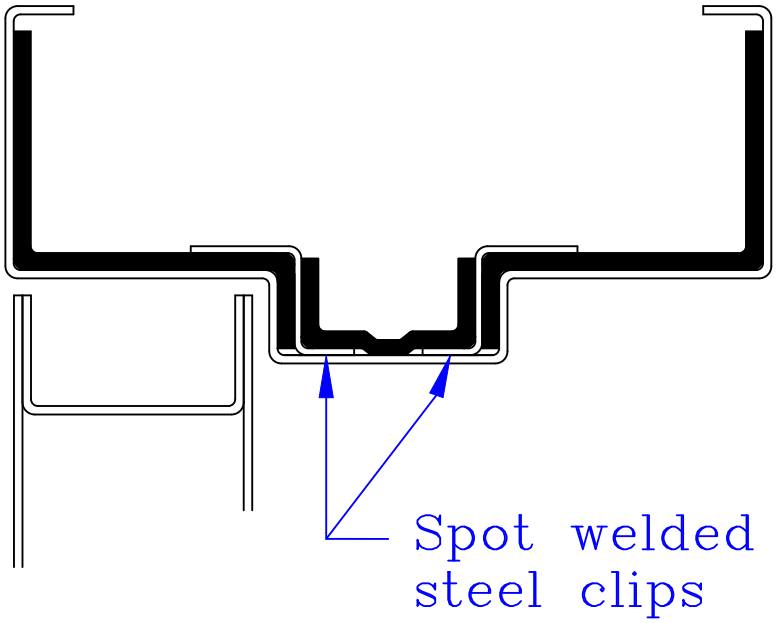


LLFW116

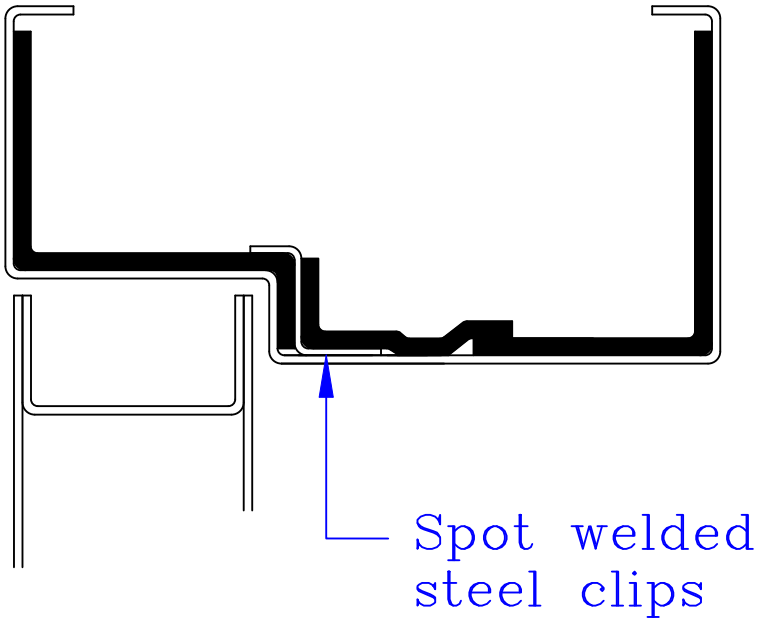
For LR, SR, and DW/DR series
Lead complies with ASTM B749
Installation note:Lead linings need to overlap at miters

Lead lined frame, full width 1/8"
14ga frame minimun

at double rabbet



at single rabbet

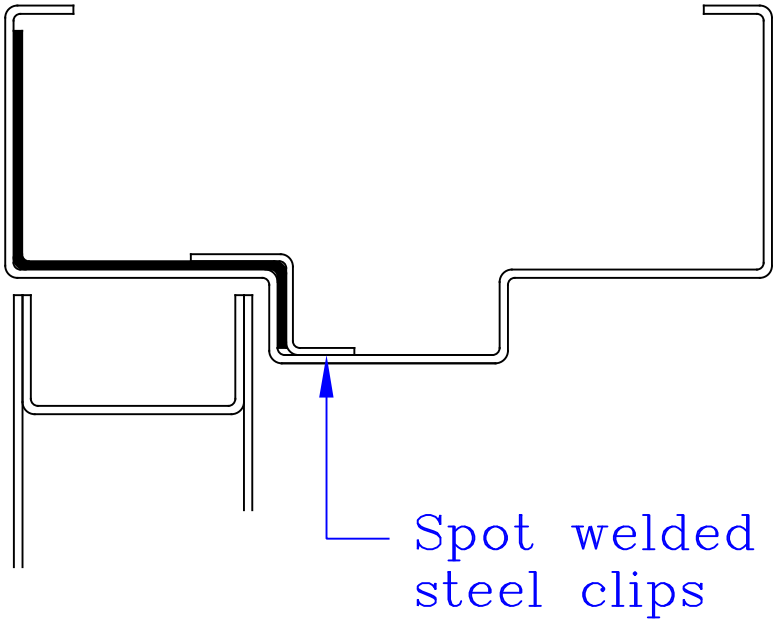


LLFW18

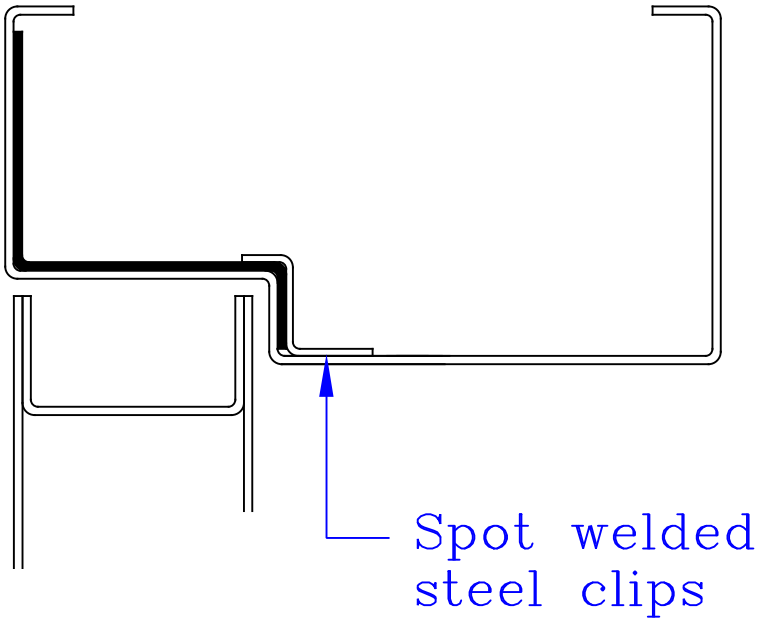
For LR, SR, and DW/DR series
Lead complies with ASTM B749
Installation note:Lead linings need to overlap at miters

Lead lined frame, half width 1/16"
On door/glass side

at double rabbet



at single rabbet

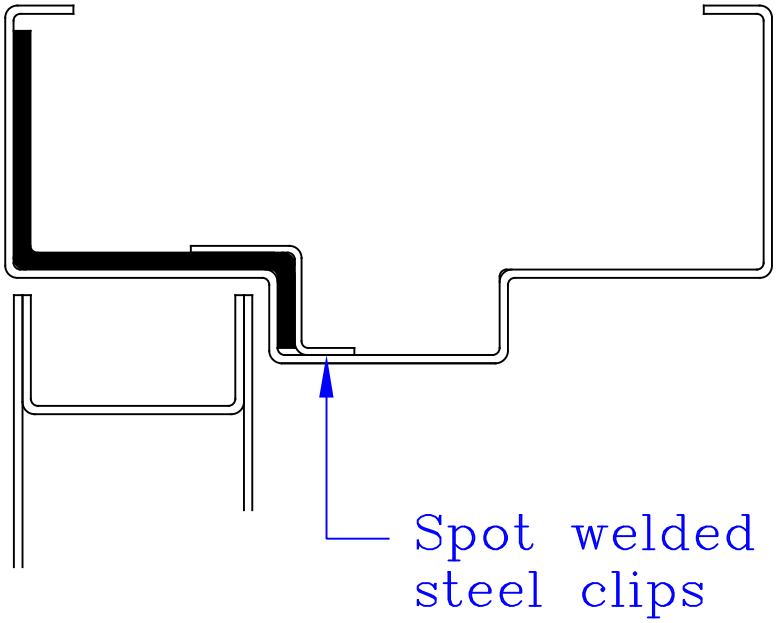


LLHW116

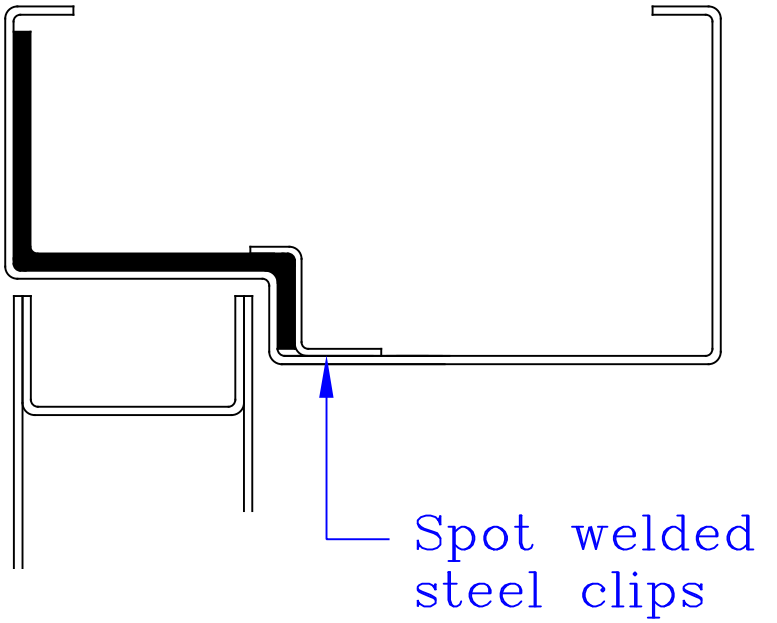
For LR, SR, and DW/DR series
Lead complies with ASTM B749
Installation note:Lead linings to overlap at miters

Lead lined frame, half width 1/8"
14ga frame minimun
On door/glass side

at double rabbet



at single rabbet



LLHW18

For LR, SR, and DW/DR series
Lead complies with ASTM B749
Installation note:Lead linings to overlap at miters

STC general information

DE LA FONTAINE Industries offers openings with STC ratings up to and including STC48, in compliance with the following standards:

-ASTM E90 (Standard Test Method for Laboratory Measurement of Airborn Sound Transmission Loss of Building Partitions and Elements)
-ASTM E413 (Classification Standard for Rating Sound Insulation)
-ASTM E1332 (Standard Classification for Rating Outdoor-Indoor Sound Attenuation)
-ASTM E2235 (Standard Test Method for Determination of Decay Rates for Use in Sound Insulation Test Methods)

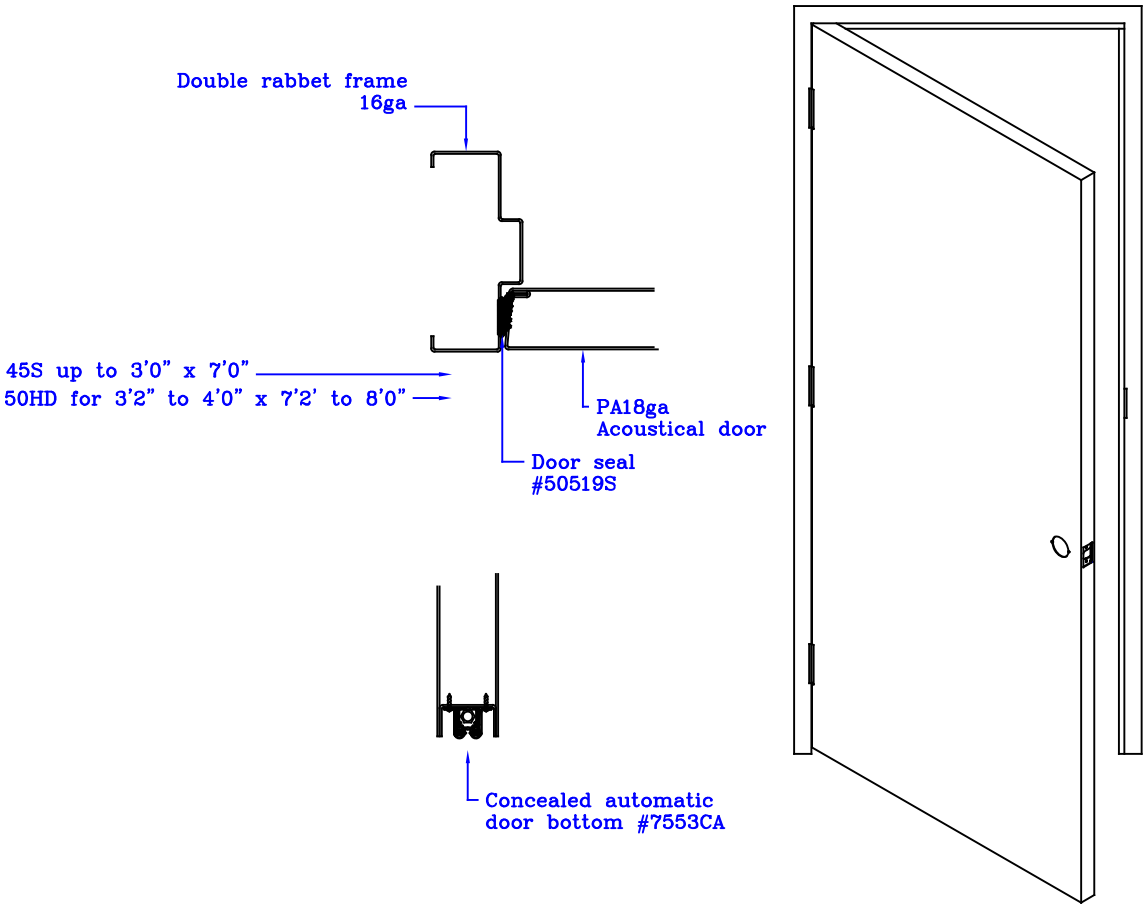
This rating is evaluated according to the operable method. The opening includes the frame, the door, and the acoustical gasketing.

The maximum dimensions for this opening are 4'0" x 8'0" with a door thickness of 1 3/4". Double doors are also available; however, this option has a rating for which we have not yet conducted an official evaluation.

-Cased open regular profile frame based on STC required. The frame must be filled with mortar on the job site.
-Door (PA series), 14-, 16- or 18-gauge.
-Soudproof jamb and head gasketing.
-Automatic door bottom.

The hardware must nonetheless be installed in accordance with the manufacturer's specifications and by a qualified installer. Because DE LA FONTAINE does not assembled the frame and hardware in the factory, we cannot guarantee that the opening will meed the desired rating.

Up to STC32

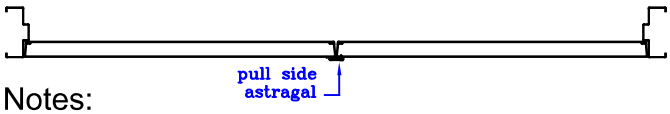


*Hardware is provided by others. Prep for hinges, cylindrical or mortise lock and surface closer reinforcements.

Door assembly includes:

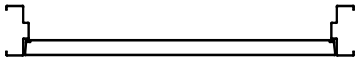
1) Double rabbet frame, 16ga, face welded, filled with sound deadening material, by others.
2) Flush hollow metal, PA18 acoustical door. Closed (FWC) at top.
3) Sound jamb gasketing.
4) Sound automatic door bottom, aluminum finish.
5) Astragal for pair of doors, aluminum finish.

Double opening assembly



Notes:
- -Pairs: calculated rating
- -This for active by in-active leaf installation, contact customer service for both doors active.
- -Gasketing items are shipped loose to be installed after painting.

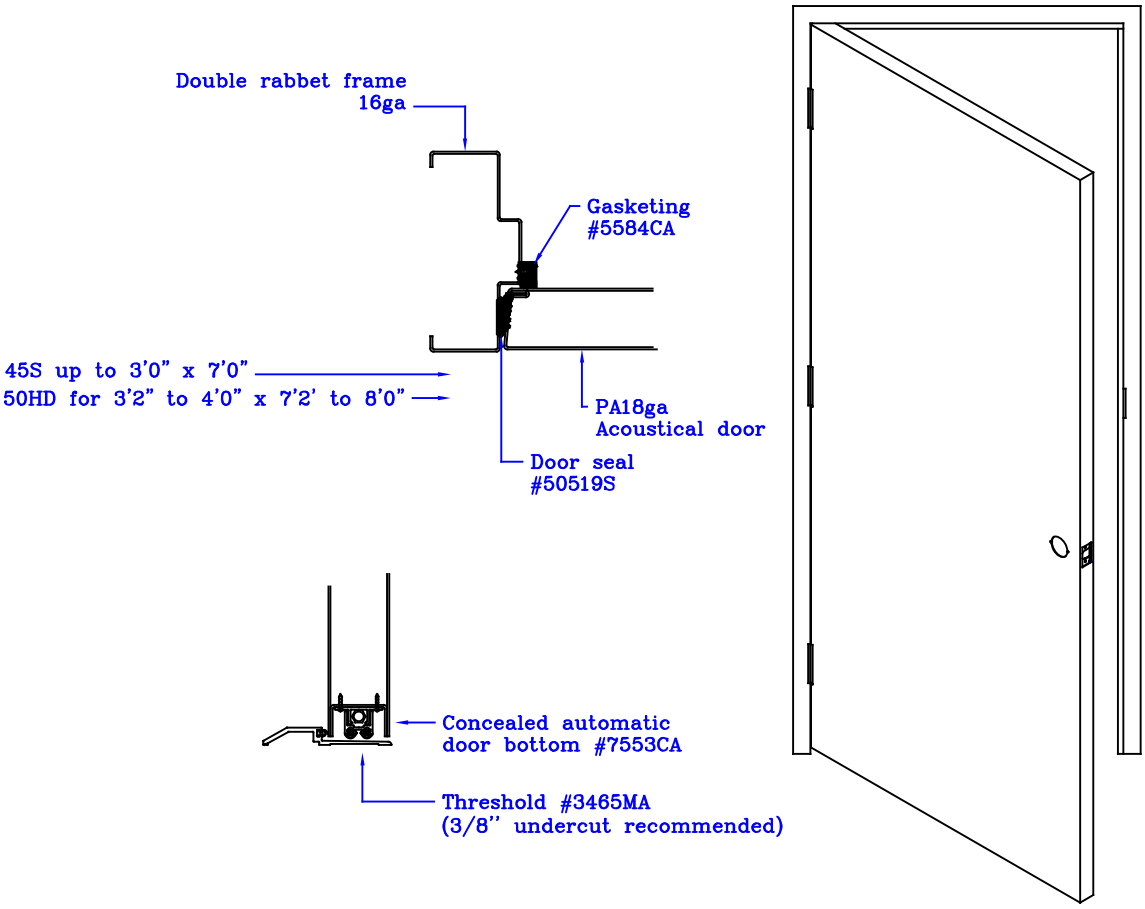
Single opening assembly



Notes:
- -Size limitation: up to 4080 : 1 3/4" door only
- -Gasketing items are shipped loose to be installed after painting.

All STC Legacy gasketing items are supplied by DeLaFontaine Industries
For Single: 50519S at head and jambs, 7553CA door bottom.
For Pairs: 50519S at head and jambs, 7553CA door bottom, 7383 SLC astragal.
Can be rated up to 180mn if within limits.

STC33 to 37

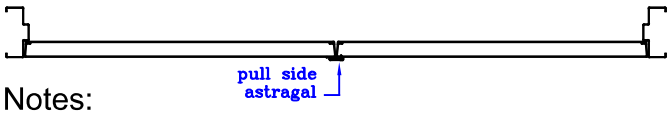


*Hardware is provided by others. Prep for hinges, cylindrical or mortise lock and surface closer reinforcements.

Door assembly includes:

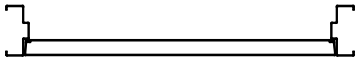
1) Double rabbet frame, 16ga, face welded, filled with sound deadening material, by others.
2) Flush hollow metal, PA18 acoustical door. Closed (FWC) at top.
3) Sound jamb gasketing.
4) Sound automatic door bottom, aluminum finish.
5) Astragal for pair of doors, aluminum finish.

Double opening assembly



Notes:
- -Pairs: calculated rating
- -This for active by in-active leaf installation, contact customer service for both doors active.
- -Gasketing items are shipped loose to be installed after painting.

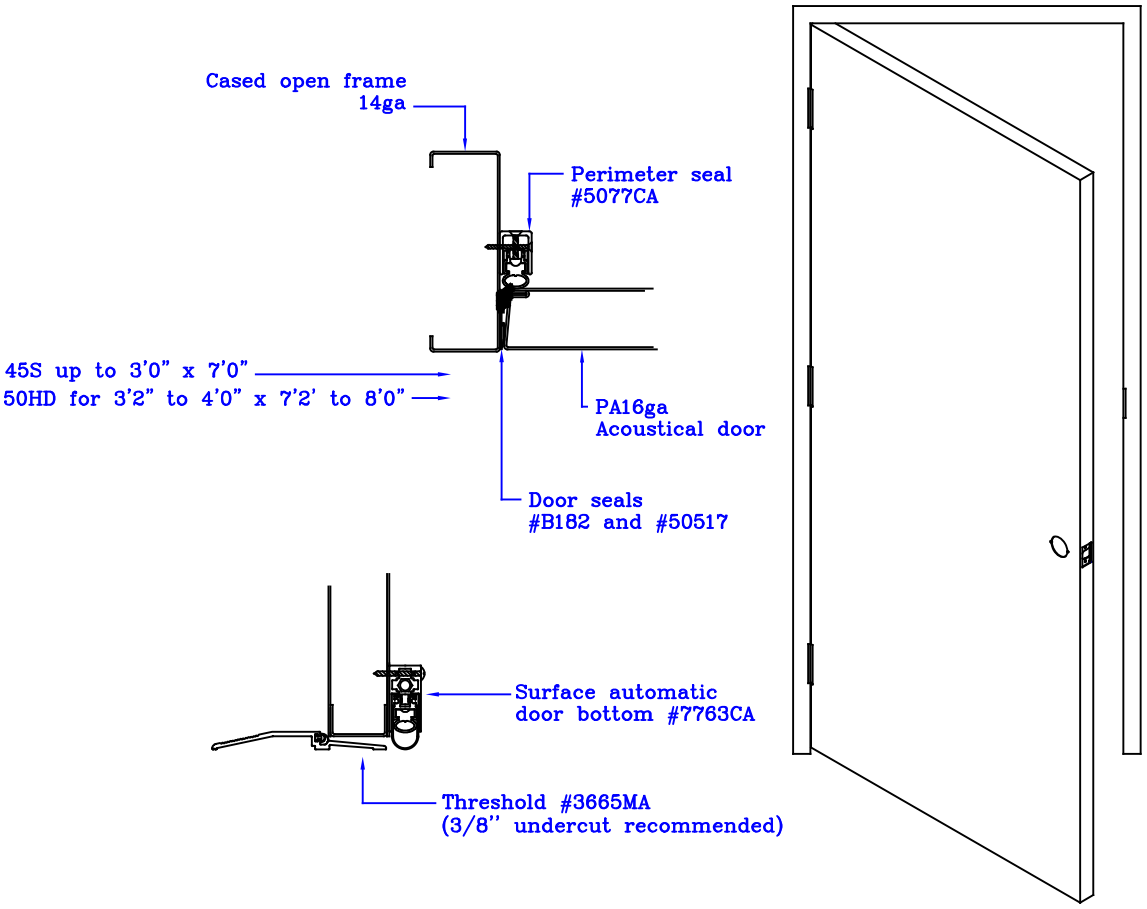
Single opening assembly



Notes:
- -Size limitation: up to 4080 : 1 3/4" door only
- -Gasketing items are shipped loose to be installed after painting.

All STC Legacy gasketing items are supplied by DeLaFontaine Industries
For Single: 50519S + 5584CA at head and jambs, 7553CA door bottom, 3465MA threshold.
For Pairs: 50519S + 5584CA at head and jambs, 7553CA door bottom, 3465MA threshold, 7383 SLC astragal.
Can be rated up to 180mn if within limitations.

STC38 to 48



*Hardware is provided by others. Prep for hinges, cylindrical or mortise lock and surface closer reinforcements.

Door assembly includes:

1) Cased open frame, 14ga,
face welded,
filled with sound deadening material, by others.

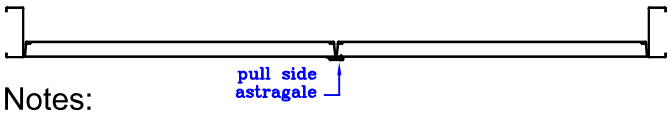
2) Flush hollow metal, PA16
acoustical door.
Closed (FWC) top and bottom.

3) Sound jamb gasketing.

4) Sound automatic door
bottom, aluminum finish.

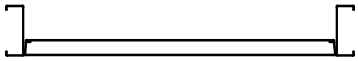
5) Astragal for pair
of doors, aluminum finish.

Double opening
assembly



Notes:
-Pairs: calculated rating
-This for active by in-active leaf installation,
contact customer service for both doors active.
-Gasketing items are shipped loose
to be installed after painting.

Single opening
assembly

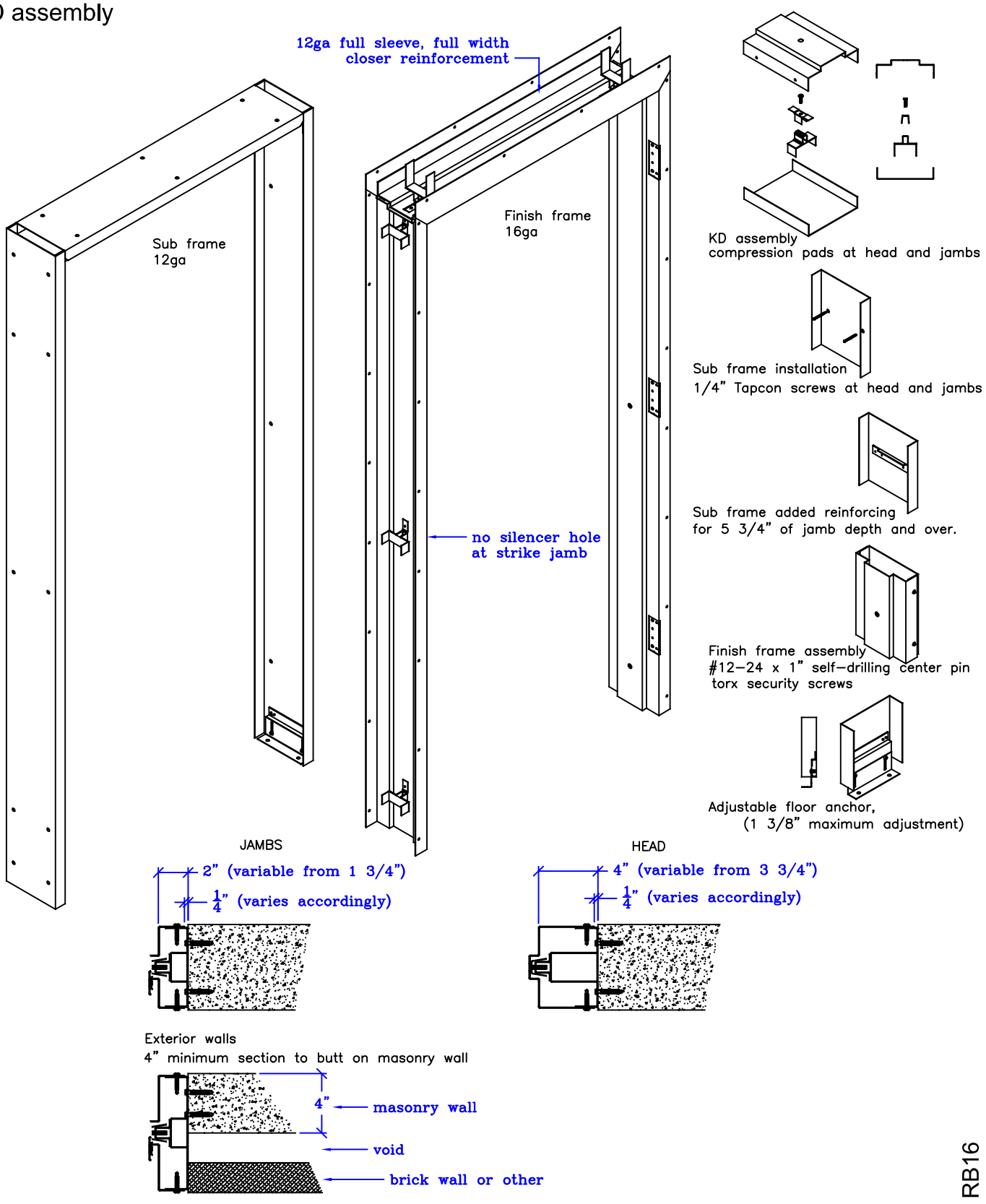


Notes:
-Size limitation: up to 4080
: 1 3/4" door only
-Gasketing items are shipped loose
to be installed after painting.

All STC Legacy gasketing items are supplied by DeLaFontaine Industries
For Single: 5077CA + B182 + 50517 at head and jambs, 7763CA door bottom, 3665MA threshold.
For Pairs: : 501CA + 5883S at head and jambs, 7763CA door bottom, 3465MA threshold., 7383SLC astragal.

16ga Rough buck frame

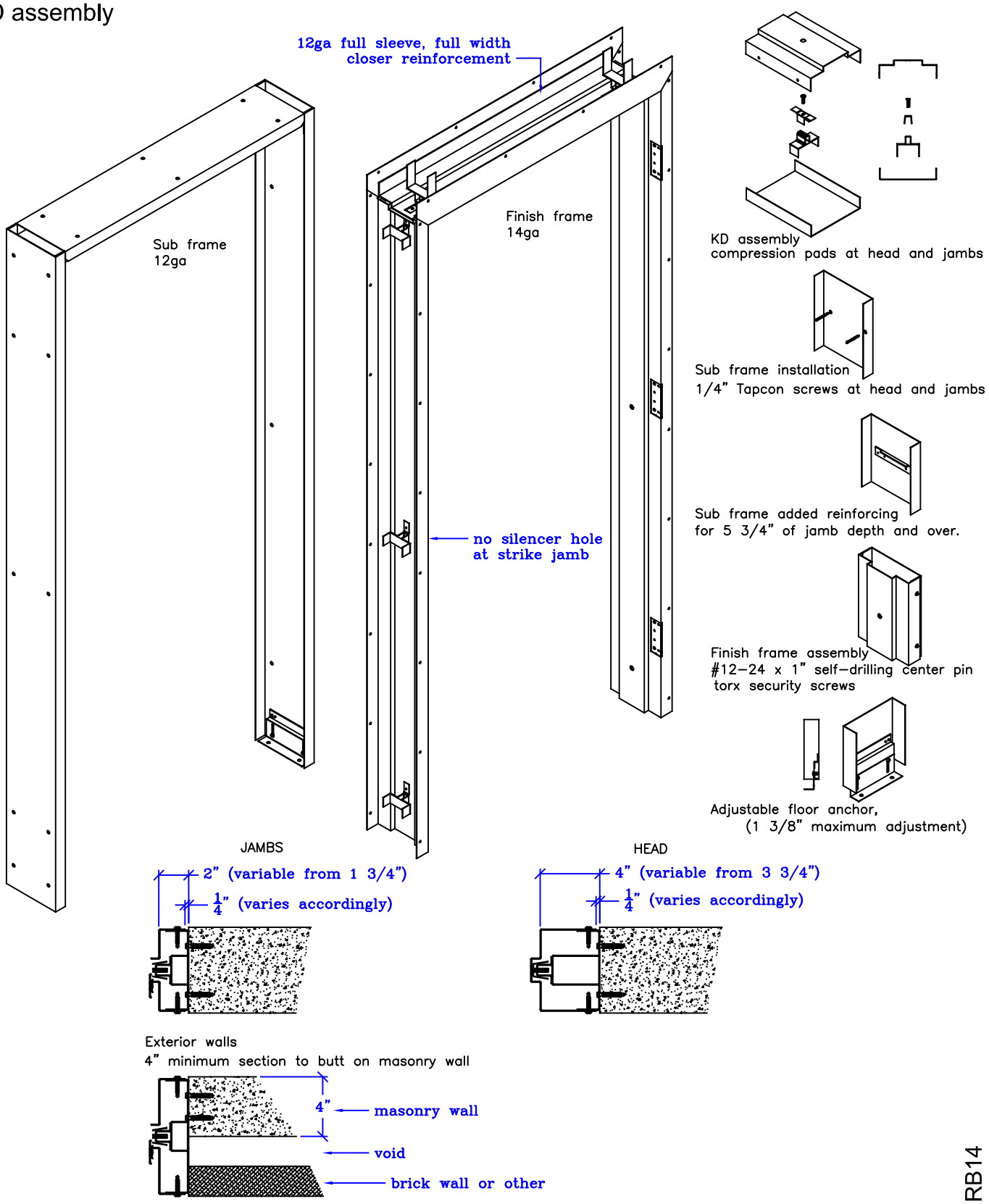
KD assembly



Sub frame legs 1/4" shorter than R.O. for floor irregularities.
Nominal opening equals rough opening less 4" in height and width.

14ga Rough buck frame

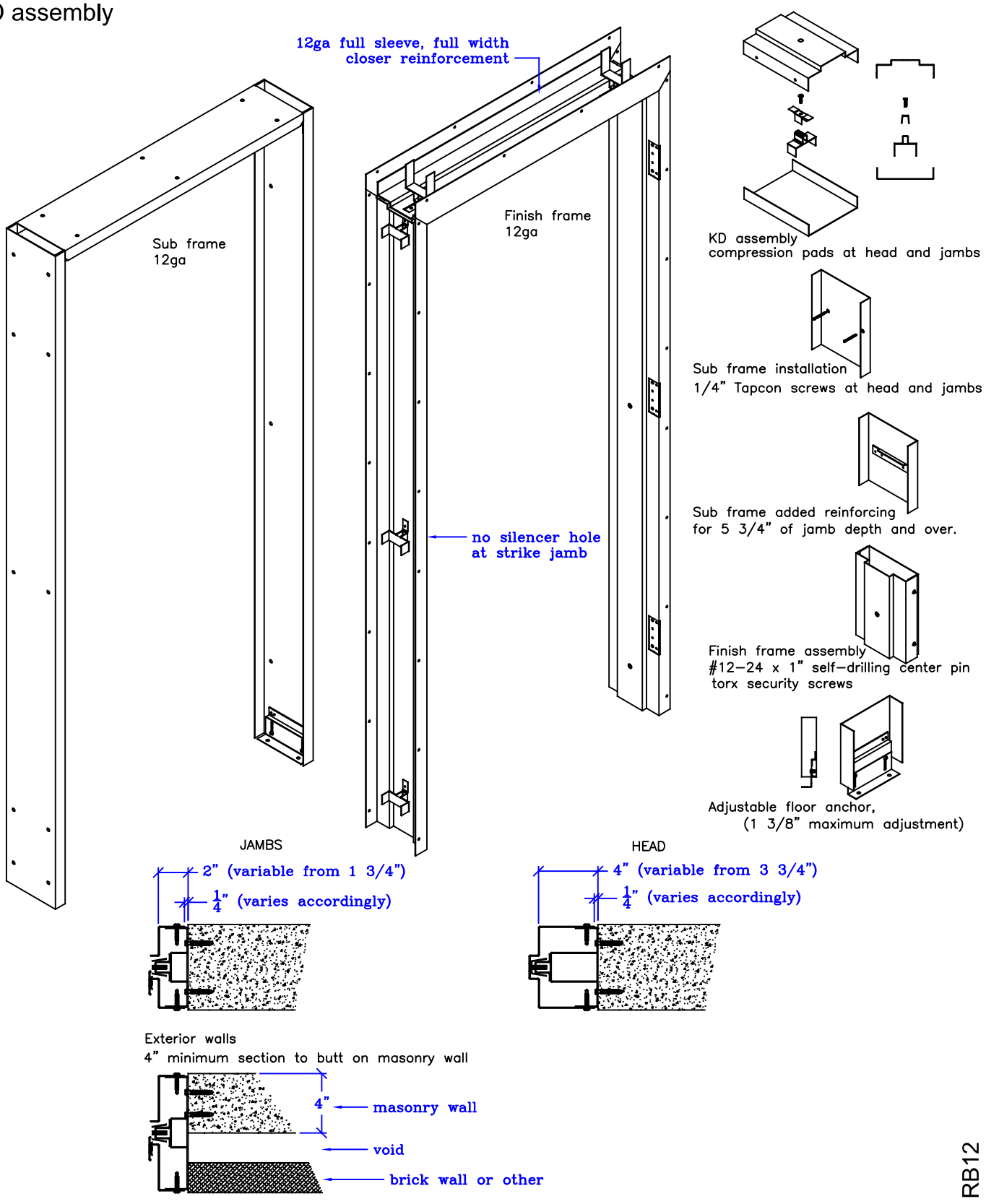
KD assembly



Sub frame legs 1/4" shorter than R.O. for floor irregularities.
Nominal opening equals rough opening less 4" in height and width.

12ga Rough buck frame

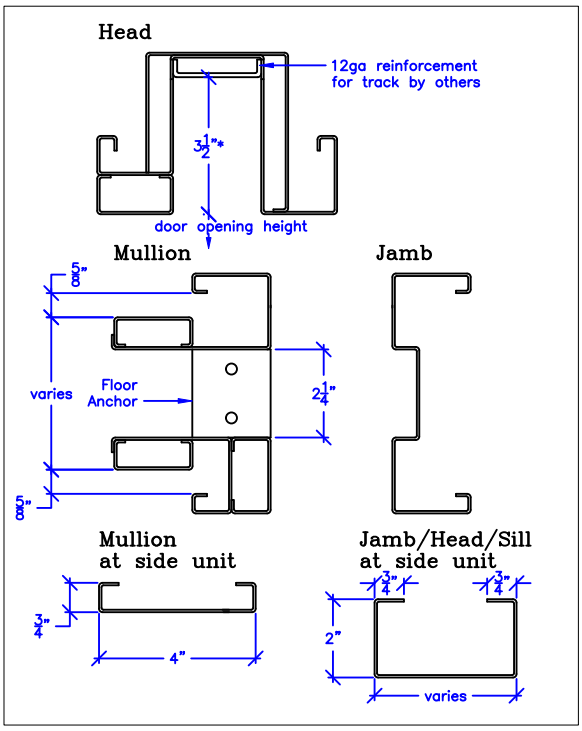
KD assembly

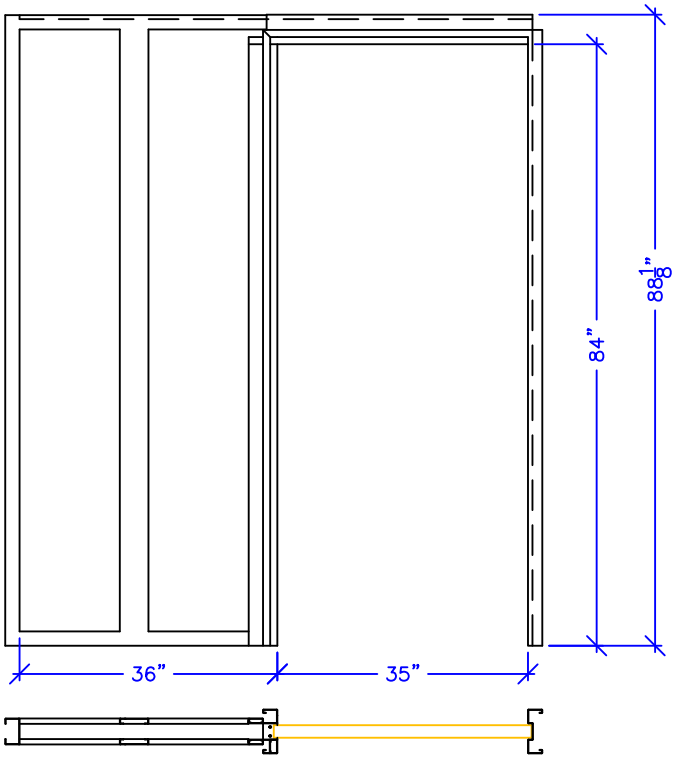


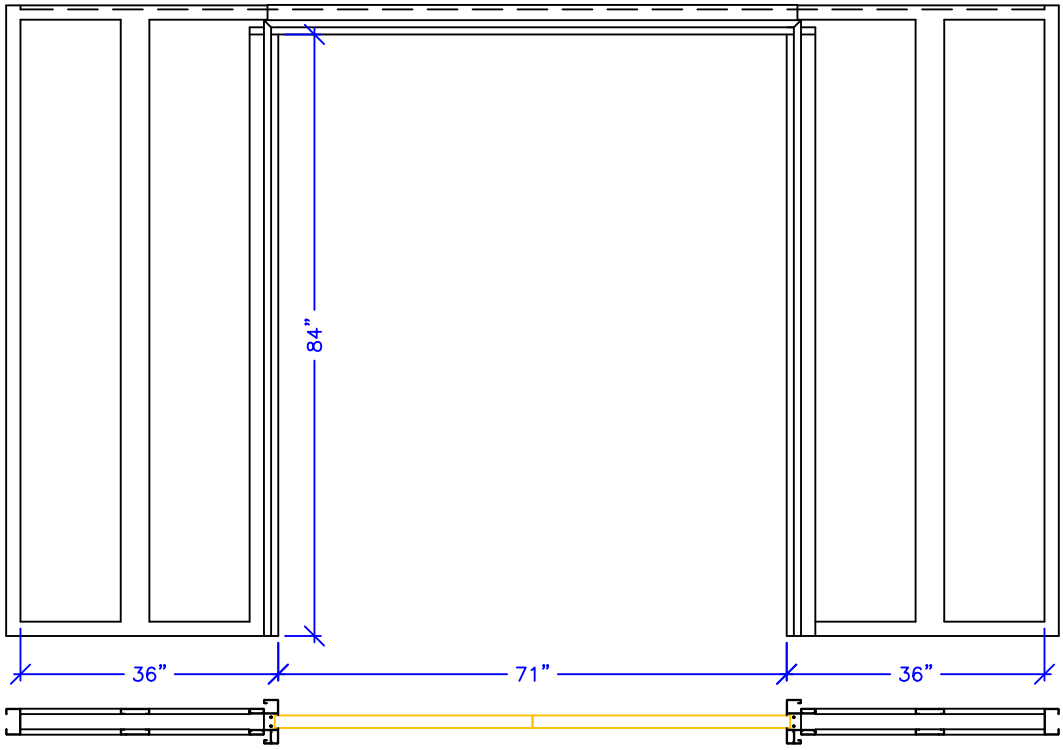
Sub frame legs 1/4" shorter than R.O. for floor irregularities.
Nominal opening equals rough opening less 4" in height and width.

Pocket door frame

Available single or double, with or without side unit



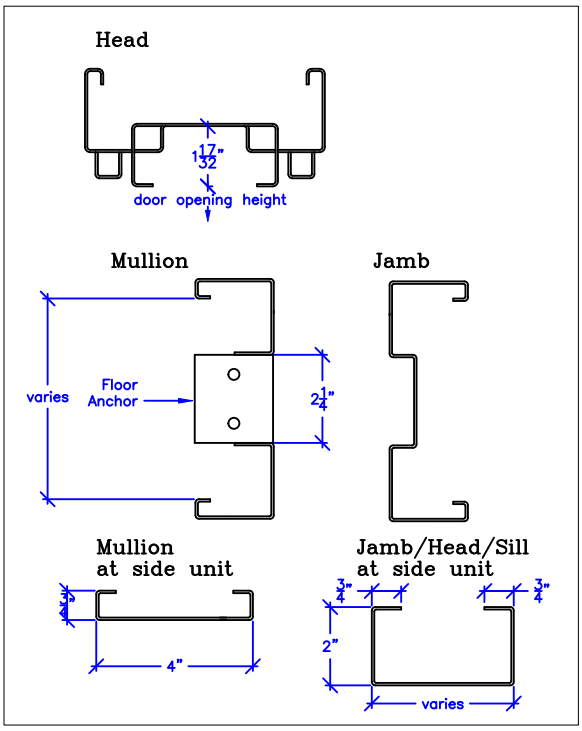


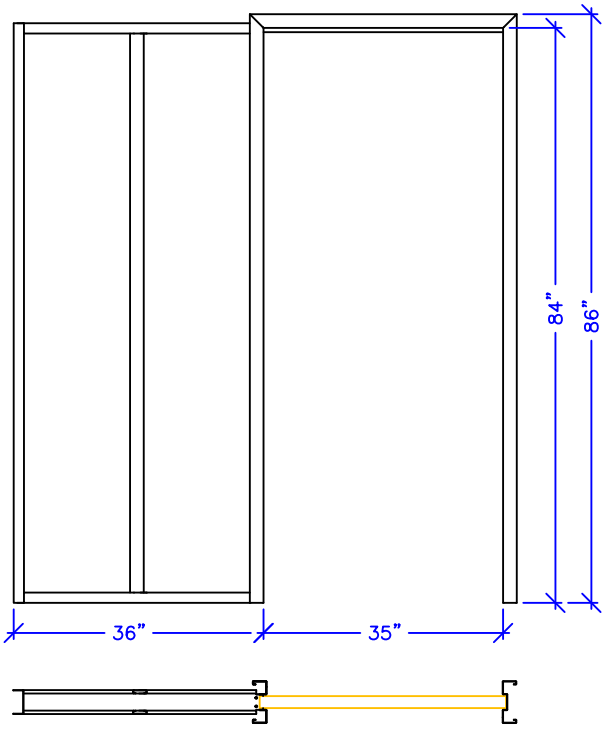


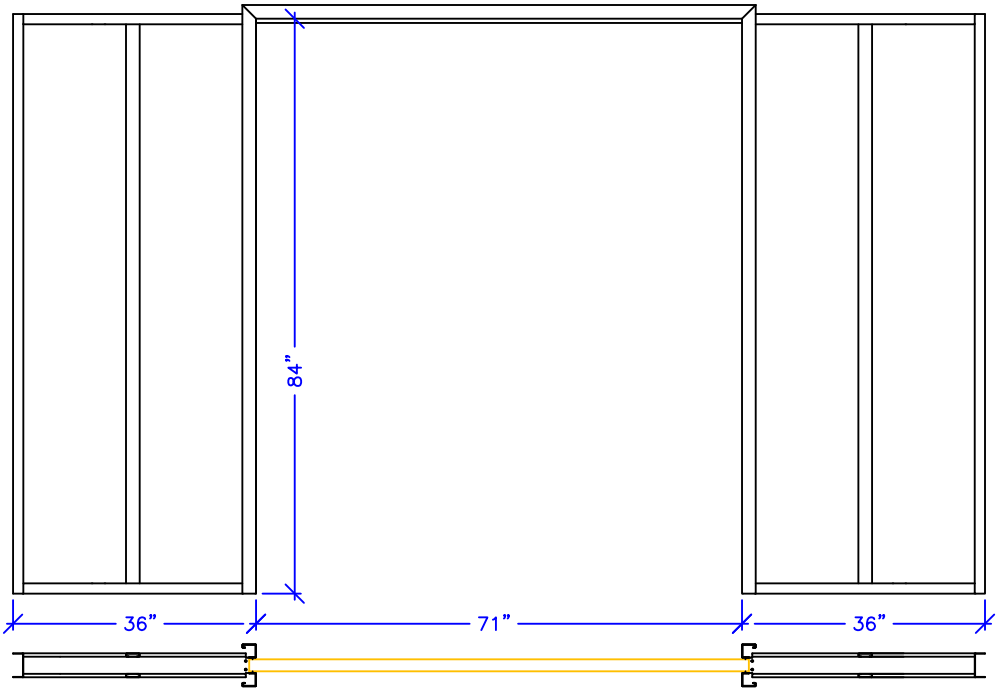
Face welded, 16ga, "Z" anchors, 1 3/4" door, 5 3/4" minimum jamb depth.
Based on a 3070 slab door.
* manufacturer's template to be provided

Pocket door frame

Available single or double, with or without side unit





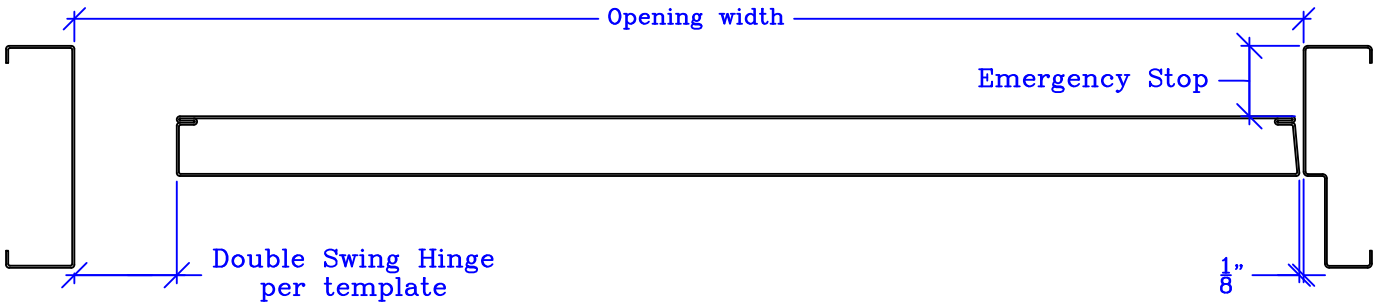


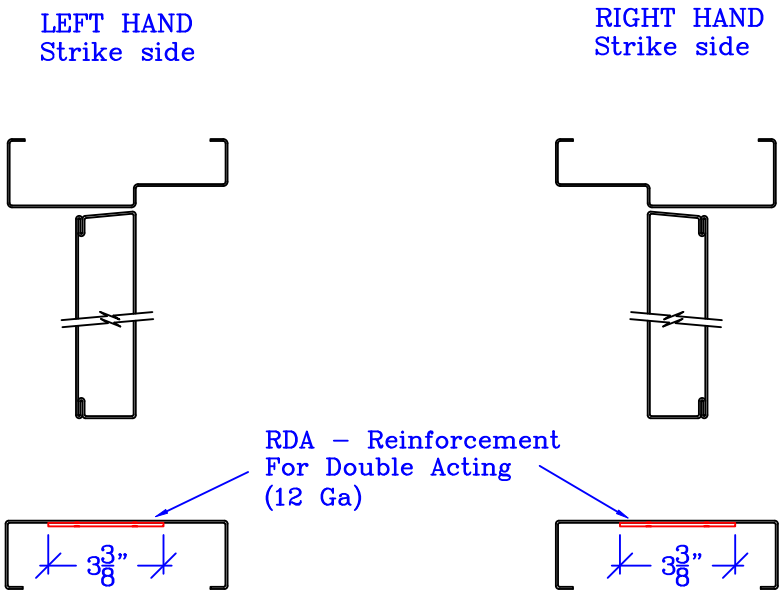
Face welded, 16ga, "Z" anchors, 1 3/4" door, 5 3/4" minimum jamb depth.

PD2

Emergency Release Stop Frame

Cased open with single rabbet strike jamb





Windstorm general information

DE LA FONTAINE Industries offers windstorm-resistant assemblies with HUR ratings, that meets the industry's stringent standards.

Standards Compliance

- ASTM E1886, ASTM E1996, ASTM E330, ASTM E283
- TAS 201, TAS 202, TAS 203
- ANSI A250.1

Certifications and Listing

- Approved by Florida Building Commission (FBC)
- Approved by Texas Departement of Insurance (TDI)
- Quality Assurance by Intertek Testing Services (ITS)

Features and Options

- Design pressure up to ±70 PSF
- Approved for both Non-HVHZ and HVHZ applications
- Minimum 18 gage door with standard edge seam (PA) and standard end channels (ST)
- Pre-embossed (EMB) and custom embossed (CED) door designs available
- 90 minutes fire-rating available

Consult our Technical Data Sheet for limitations on the DE LA FONTAINE website.
www.delafontaine.com/products/speciality-products/

DE LA FONTAINE

DOOR AND FRAME PARTS

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DOOR PARTS PAGE

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DOOR PARTS PAGE

Fillers

Astragals

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FRAME PARTS PAGE

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FRAME PARTS PAGE

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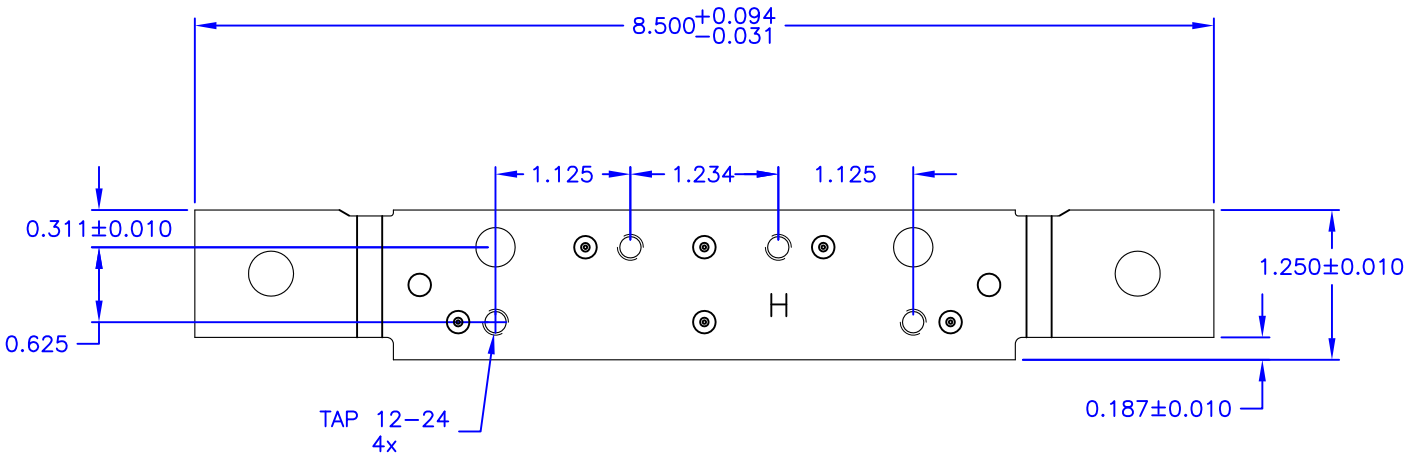
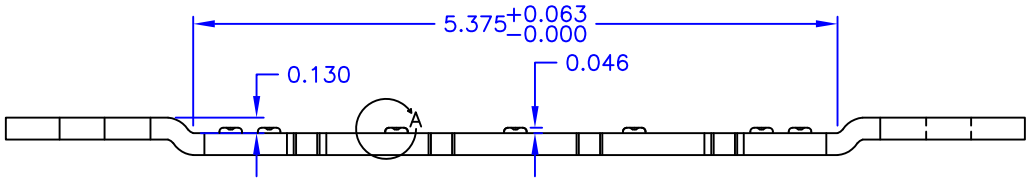
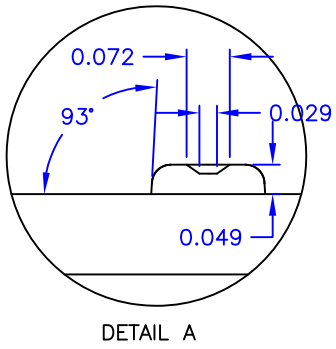
MISCELLANEOUS PAGE

4 1/2" standard weight hinge reinforcement (0.134), 7ga

at PA door



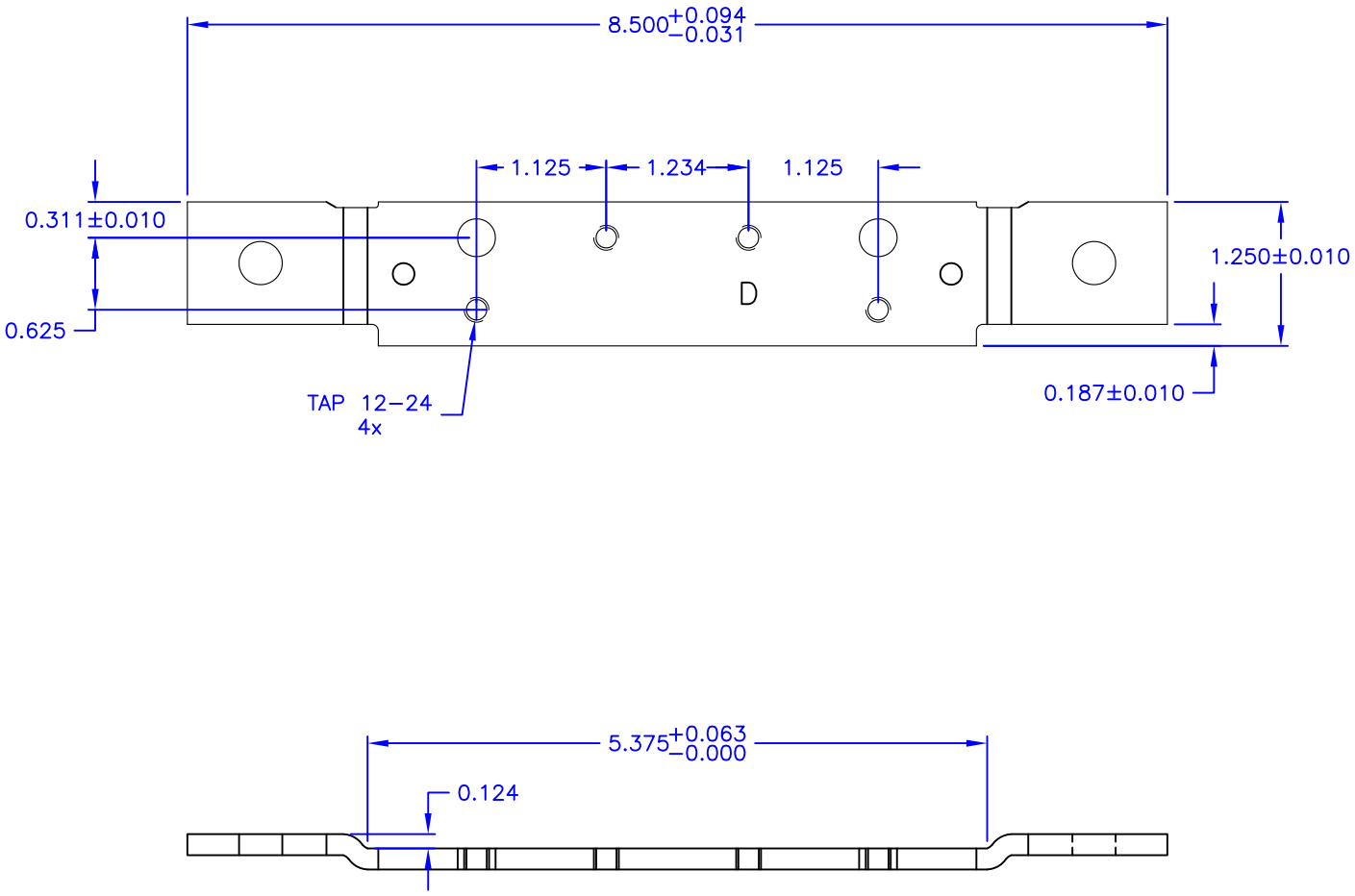




See option 45S on page O-4.1 for reference on location in door

4 1/2" heavy weight hinge reinforcement (0.180), 7ga

at PA door

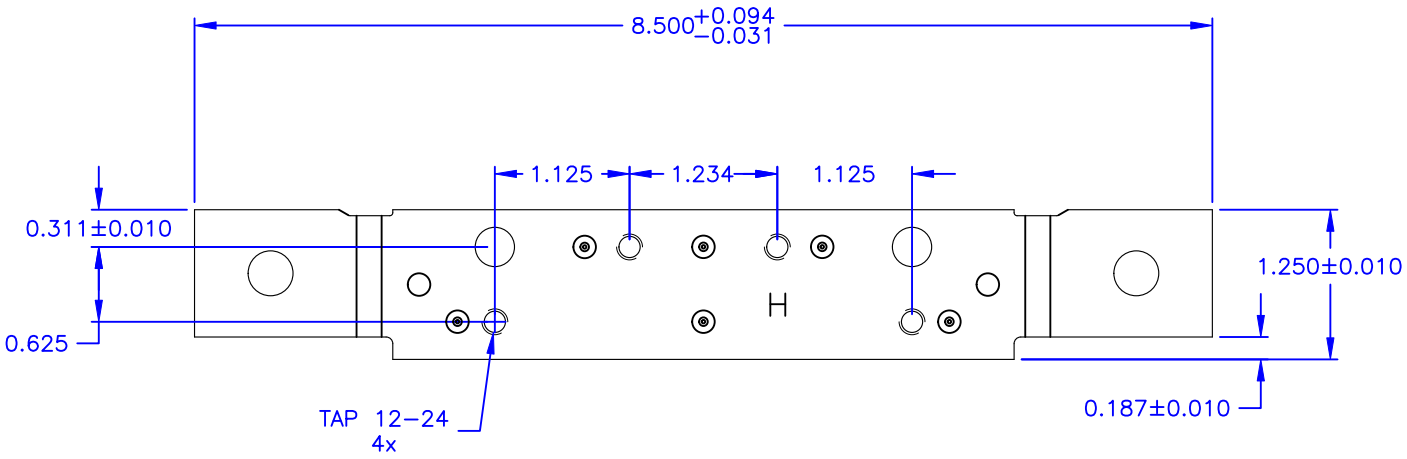


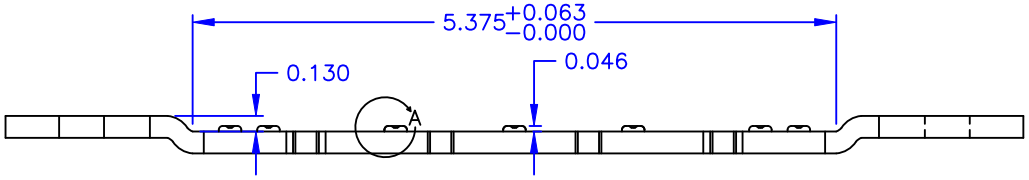
56511

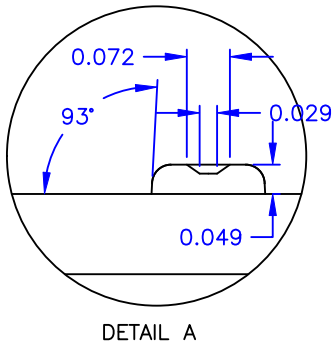
See option 45H on page O-4.2 for reference on location in door

4 1/2" convertible hinge reinforcement (0.134/0.180), 7ga

at PA door

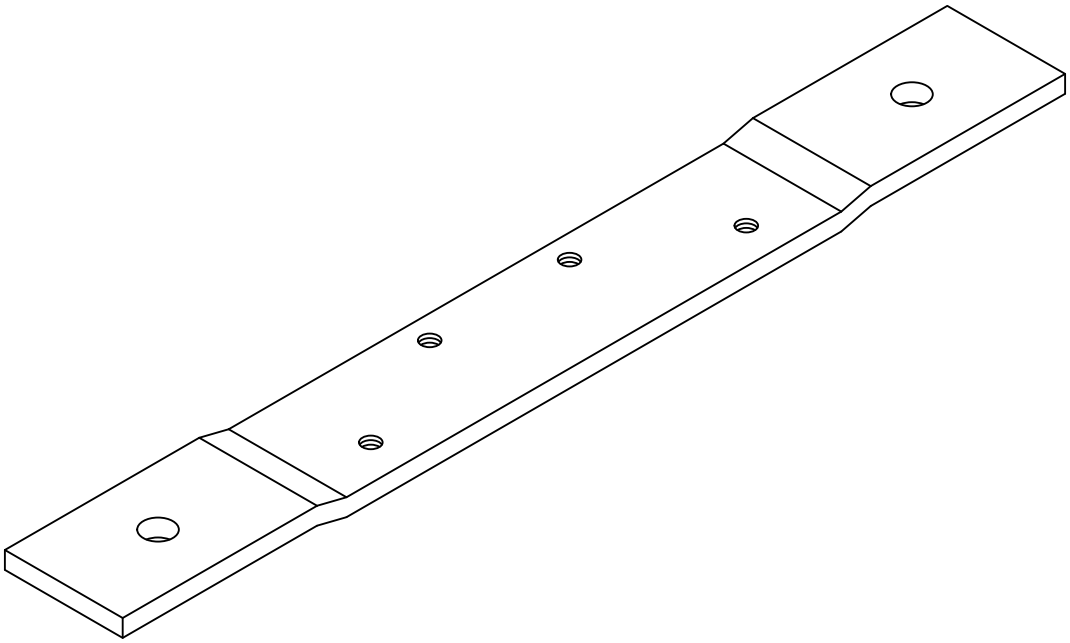


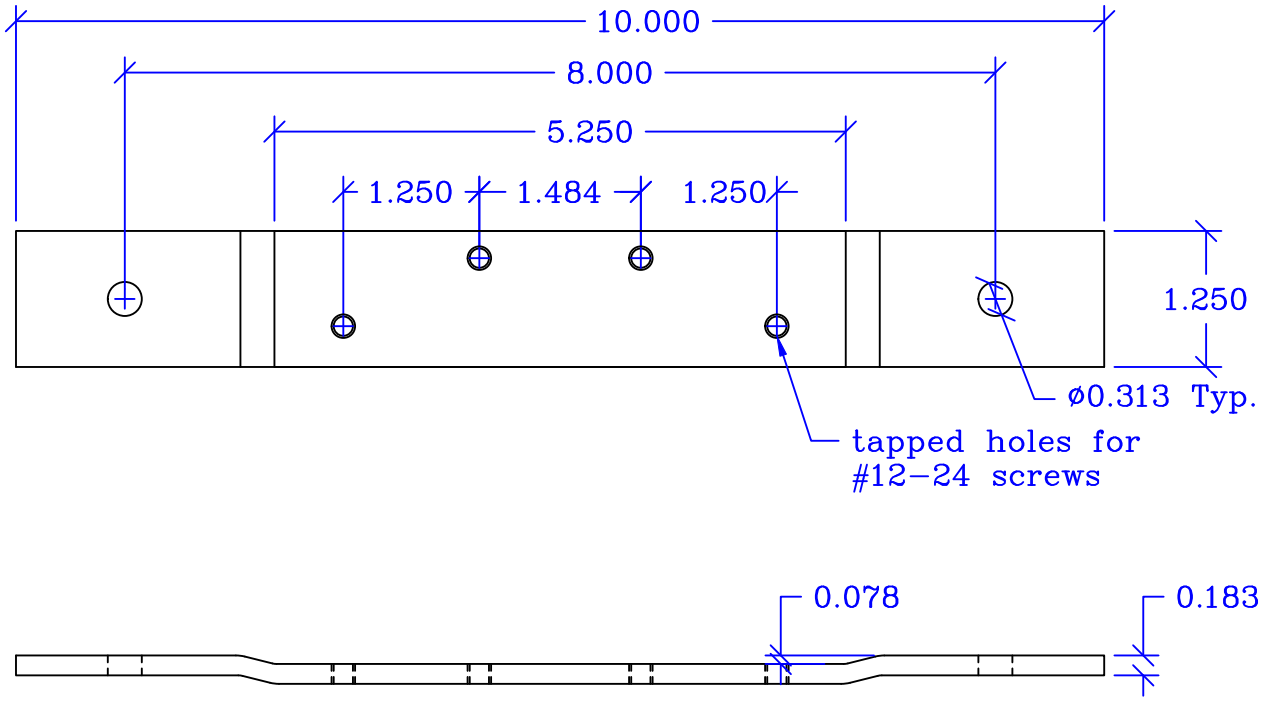




See option 45H on page O-4.3 for reference on location in door

5" standard weight hinge reinforcement (0.146), 7ga
at PA door

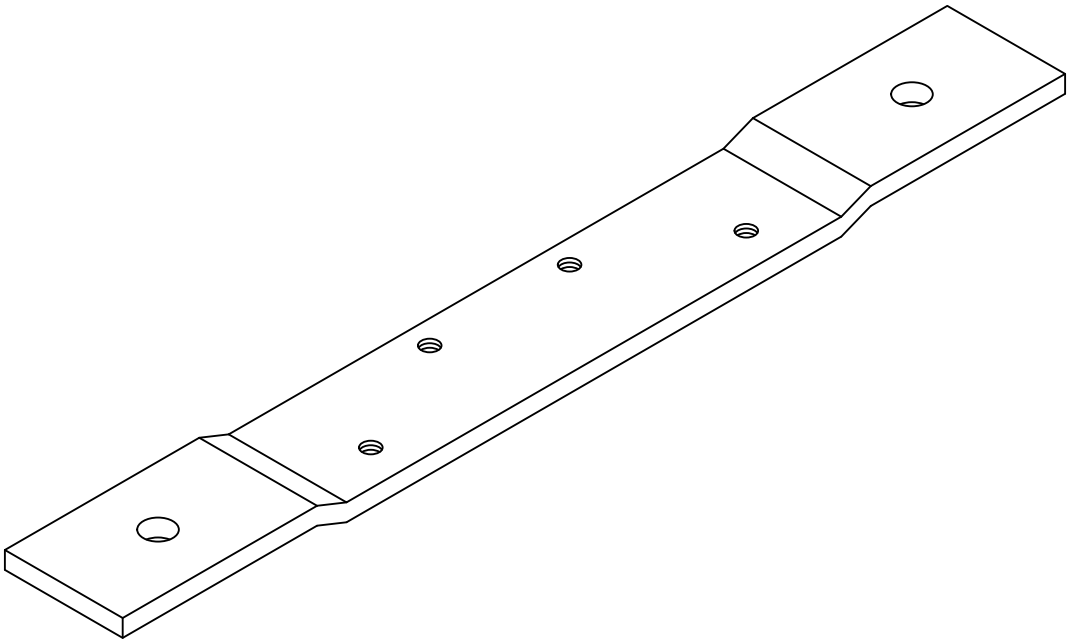


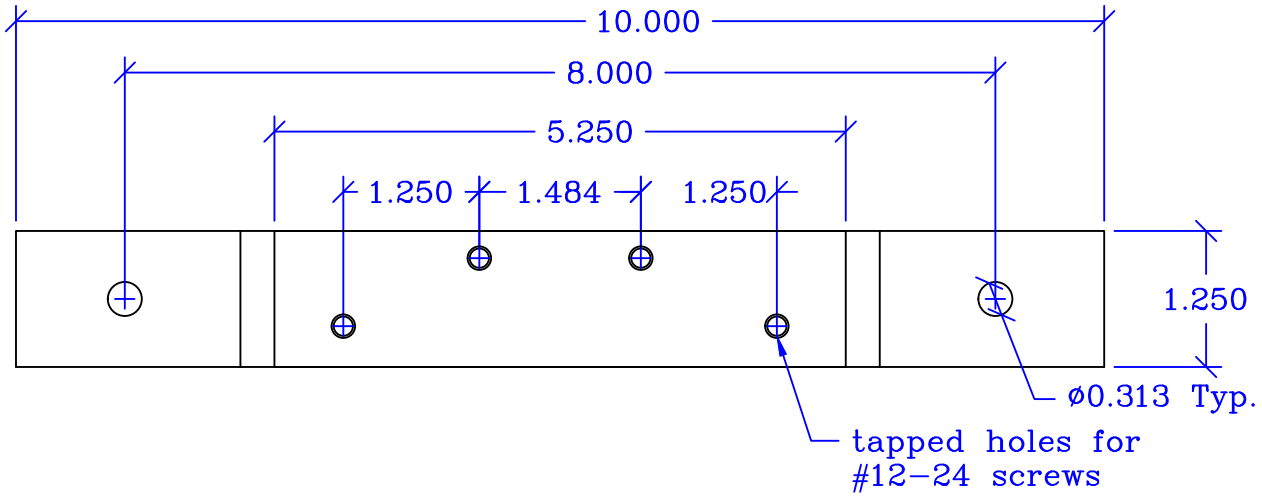


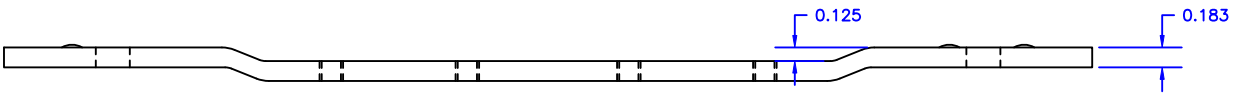
03105

See option 50S on page O-4.4 for reference on location in door

5" heavy weight hinge reinforcement (0.190), 7ga
at PA door



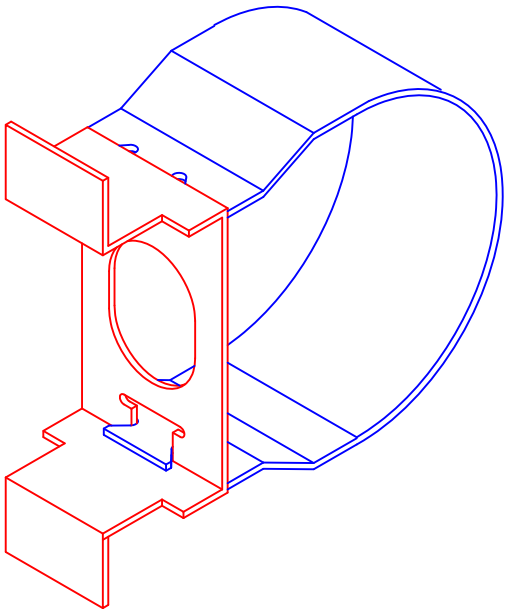


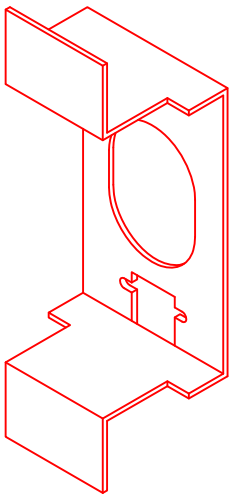


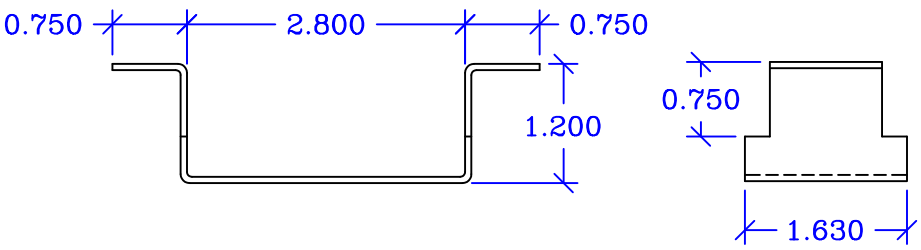
03104

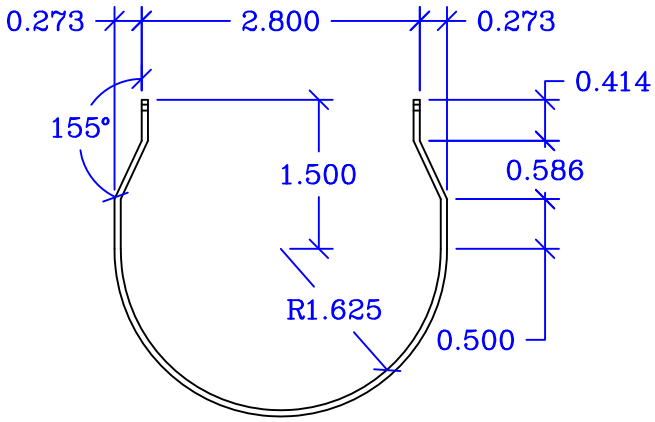
See option 50H on page O-4.5 for reference on location in door

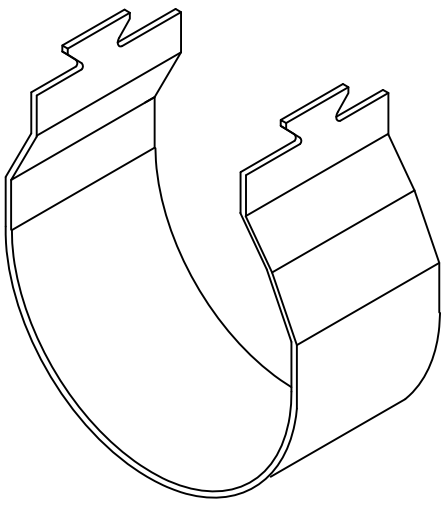
Ring for cylindrical and dead lock, 18ga
at PA door, for 2 3/4" backset







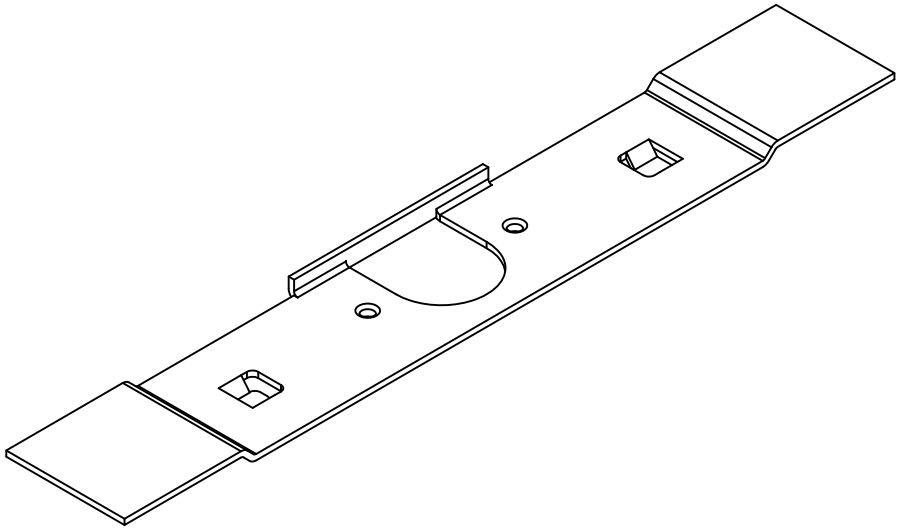


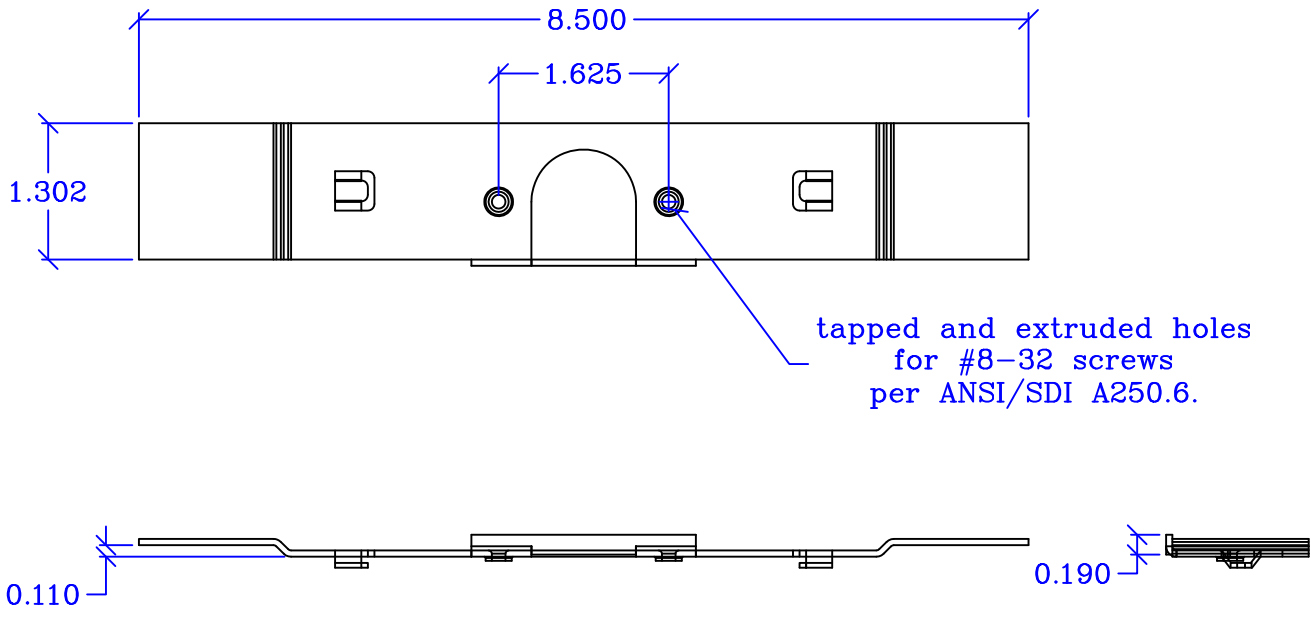


39406

See option 161 on page O-4.27 for addtional information.

Plate for cylindrical and dead lock, 16ga
at PA door

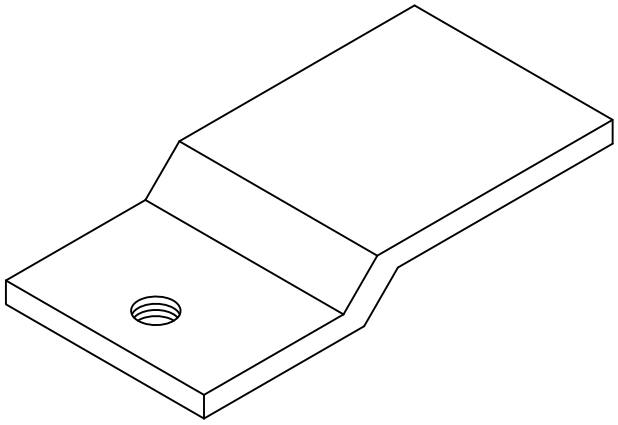


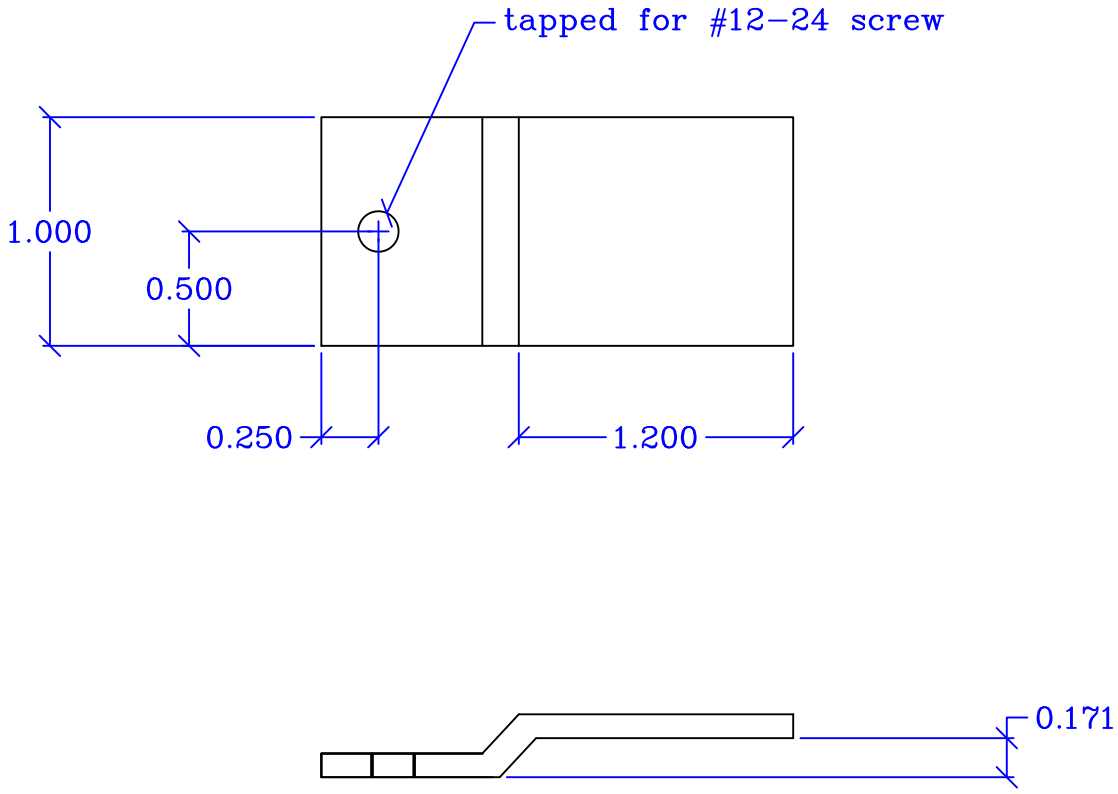


00789

See option 161 on page O-4.27 for additional information

Mortise lock tab, 12ga
at PA door

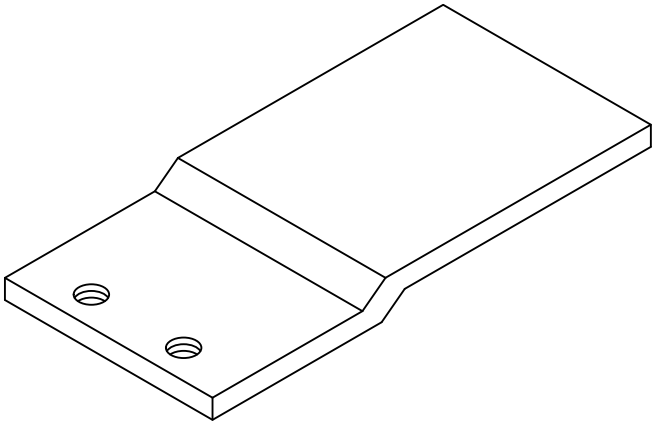


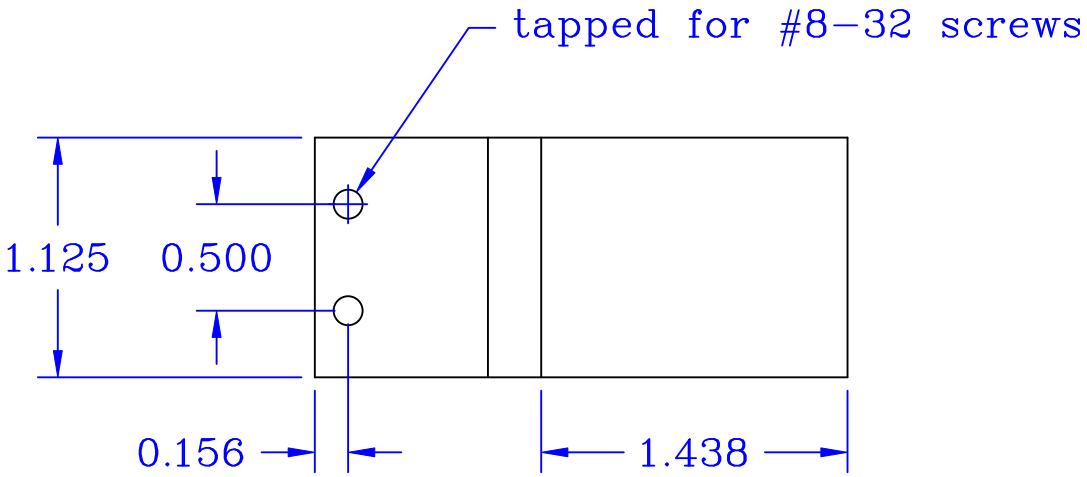


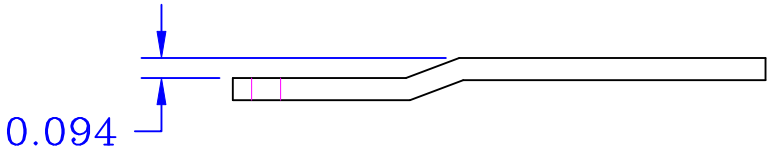
00746

See option 86ED on page O-4.31 for additional information

ANSI A156-16 flush bolt tab at edge of door, 12ga
at PA door



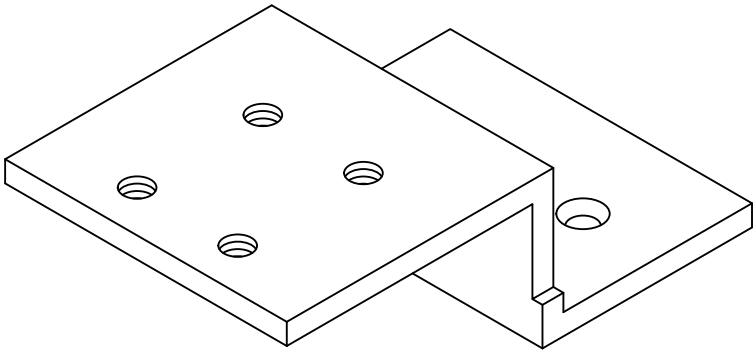


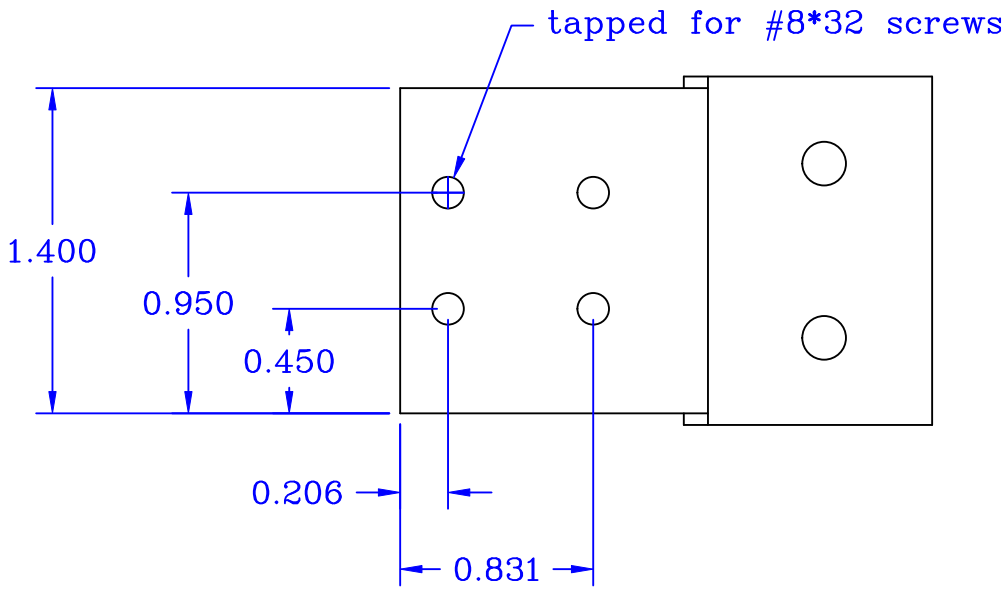


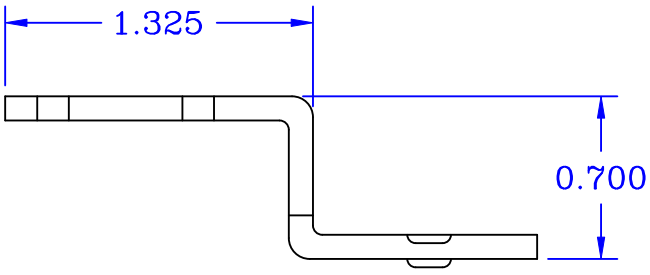
00359

See option FB on page O-5.29 for additional information

ANSI A156-16 flush bolt guide for top and bottom, 12ga



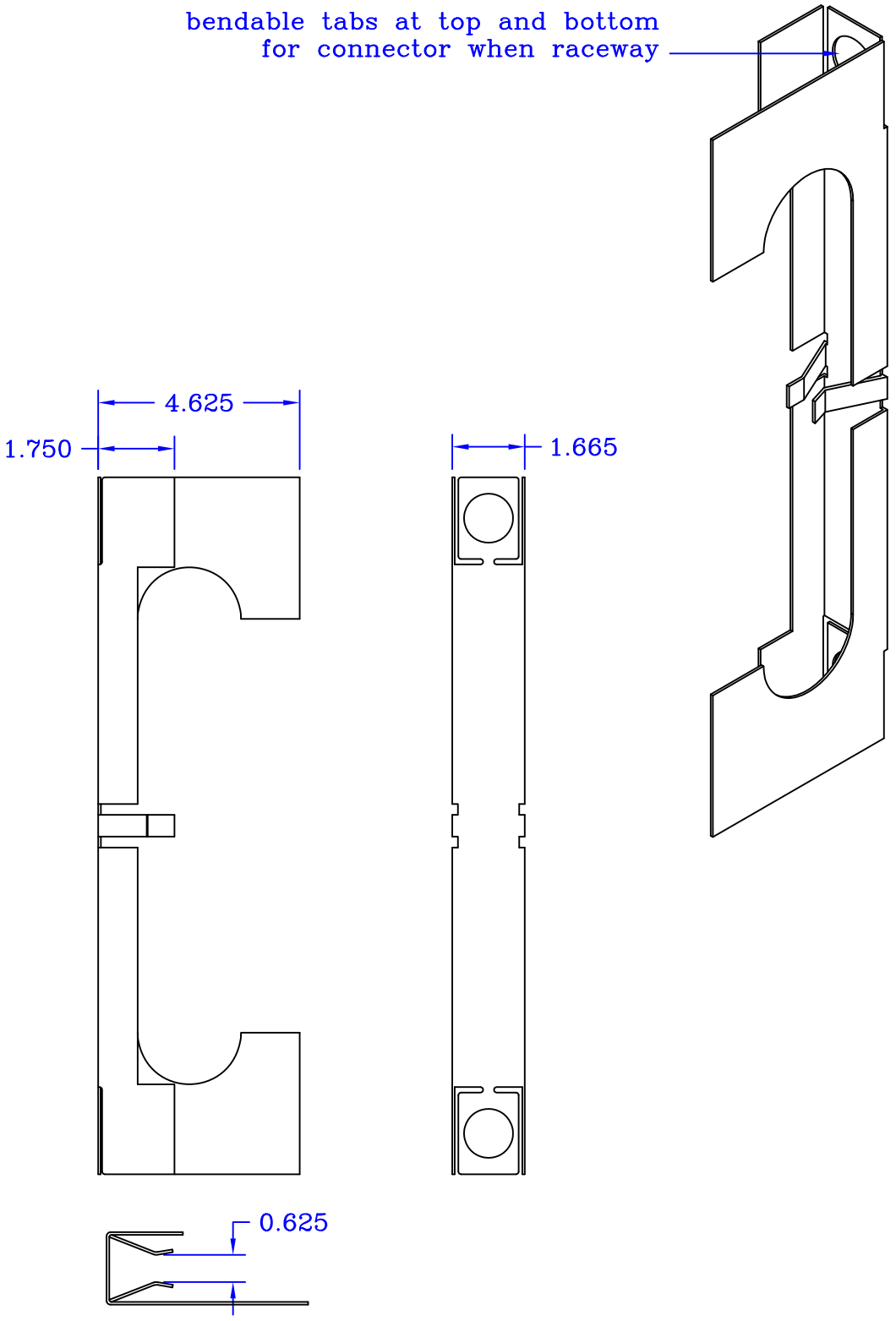




00583

See option FB on page O-5.29 for addtional information

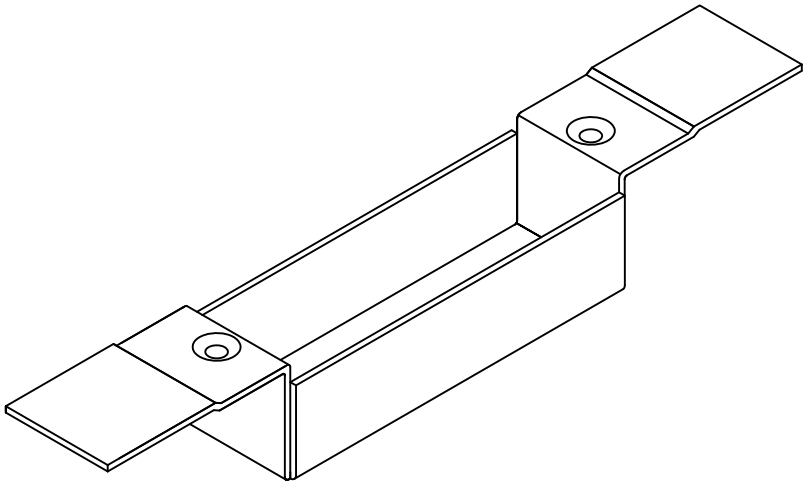
Mortise lock and deadlock box, 16ga

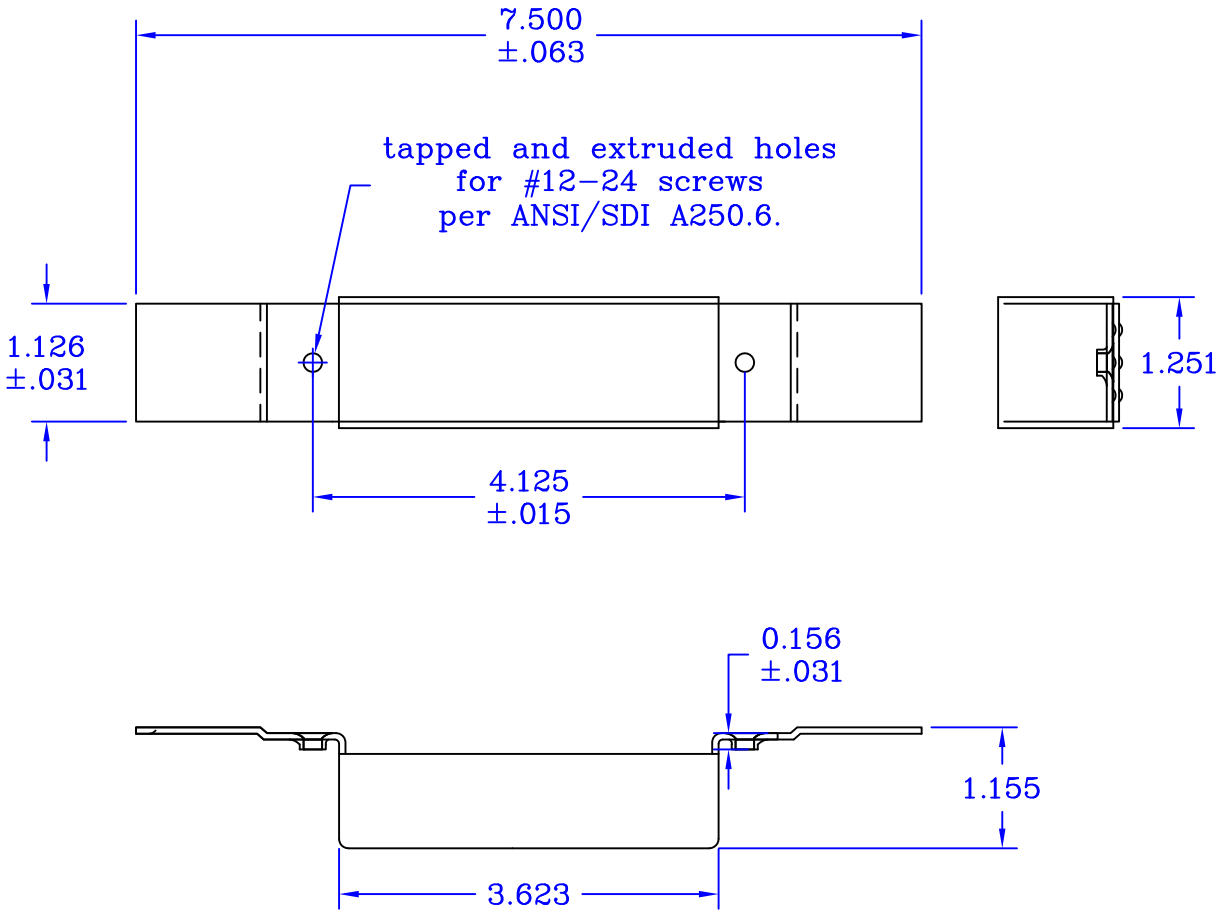


39438

See option 86ED on page O-4.31 for additional information

Standard ANSI 4 7/8" strike, 16ga
at PA door

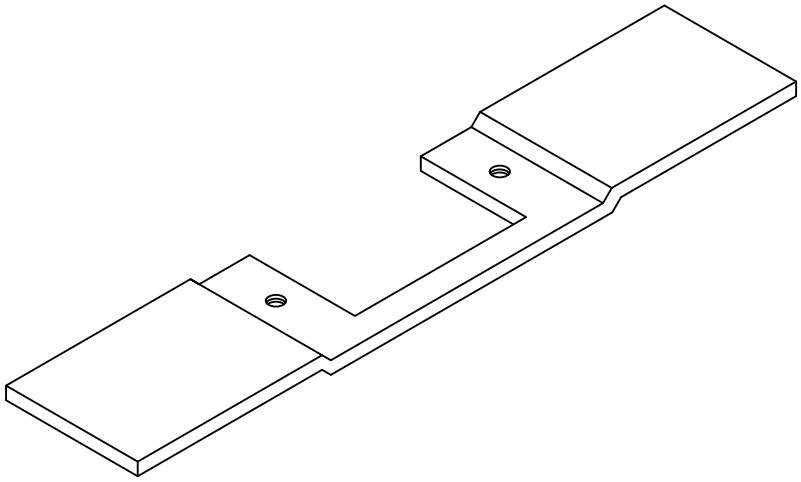


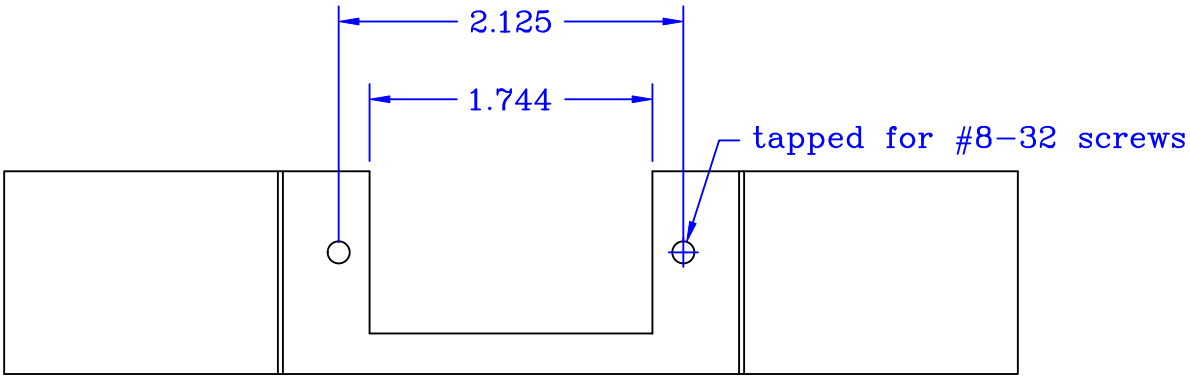


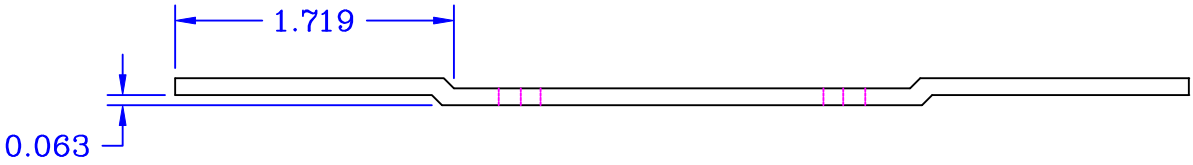
00710

See option ASA on page O-5.19 for additional information

Standard 2 3/4" and cylindrical deadlock strike,12ga
at PA door





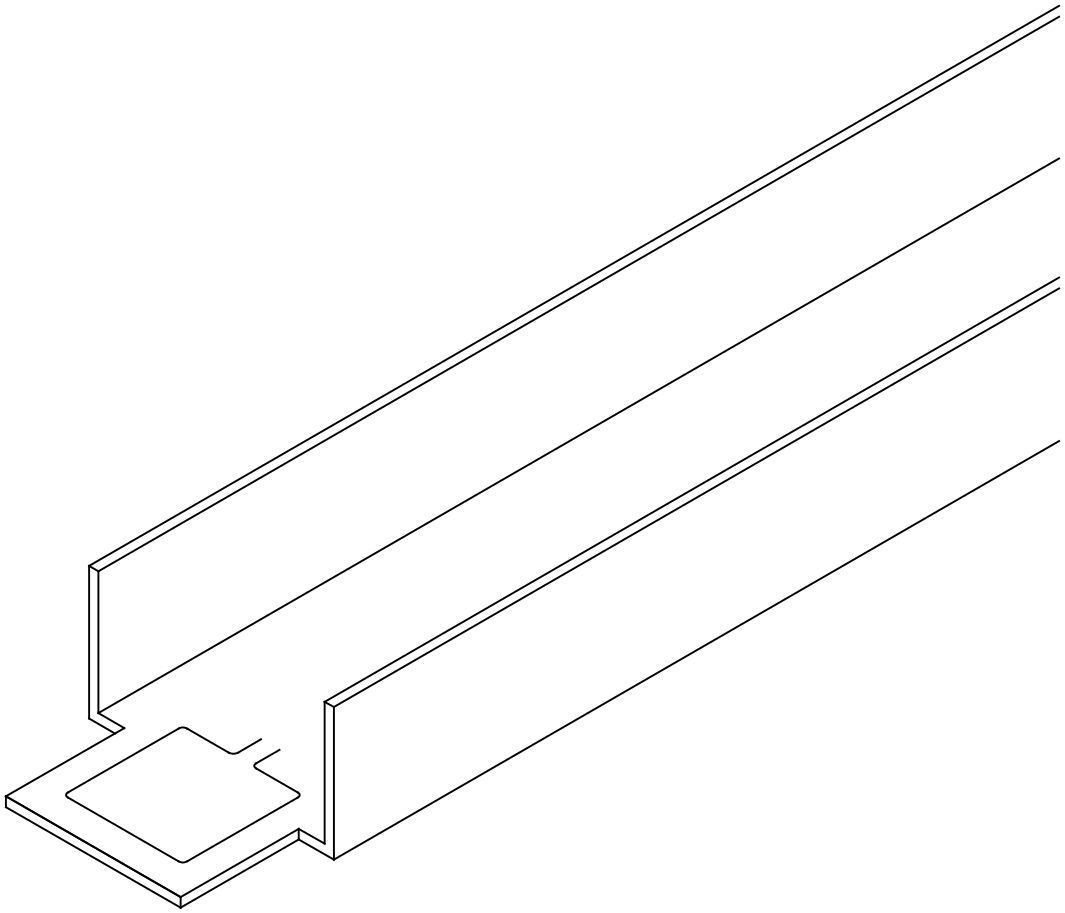


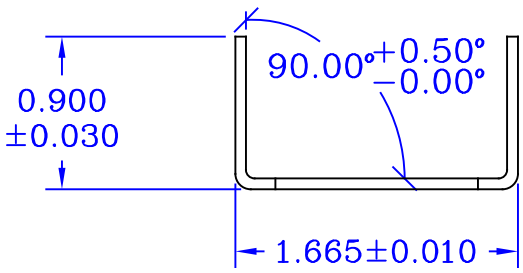
00597

See option DL234 on page O-5.22 for reference on location in door

Standard inverted end channel for 3'0" door, 16ga

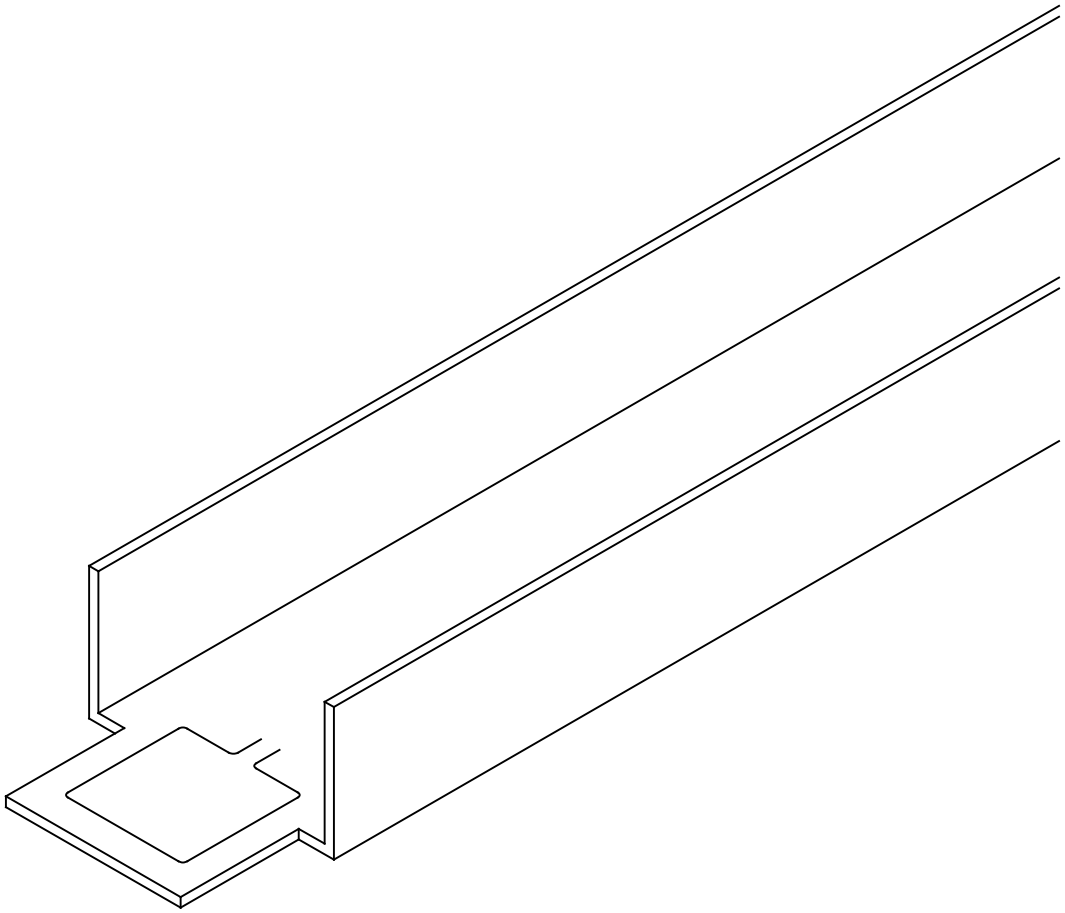
35 5/16" finished width

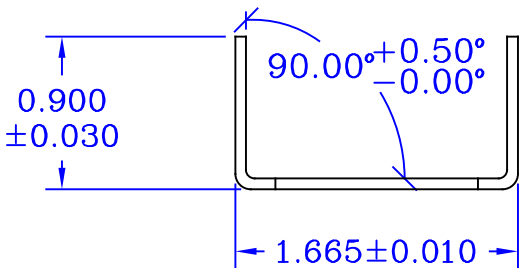




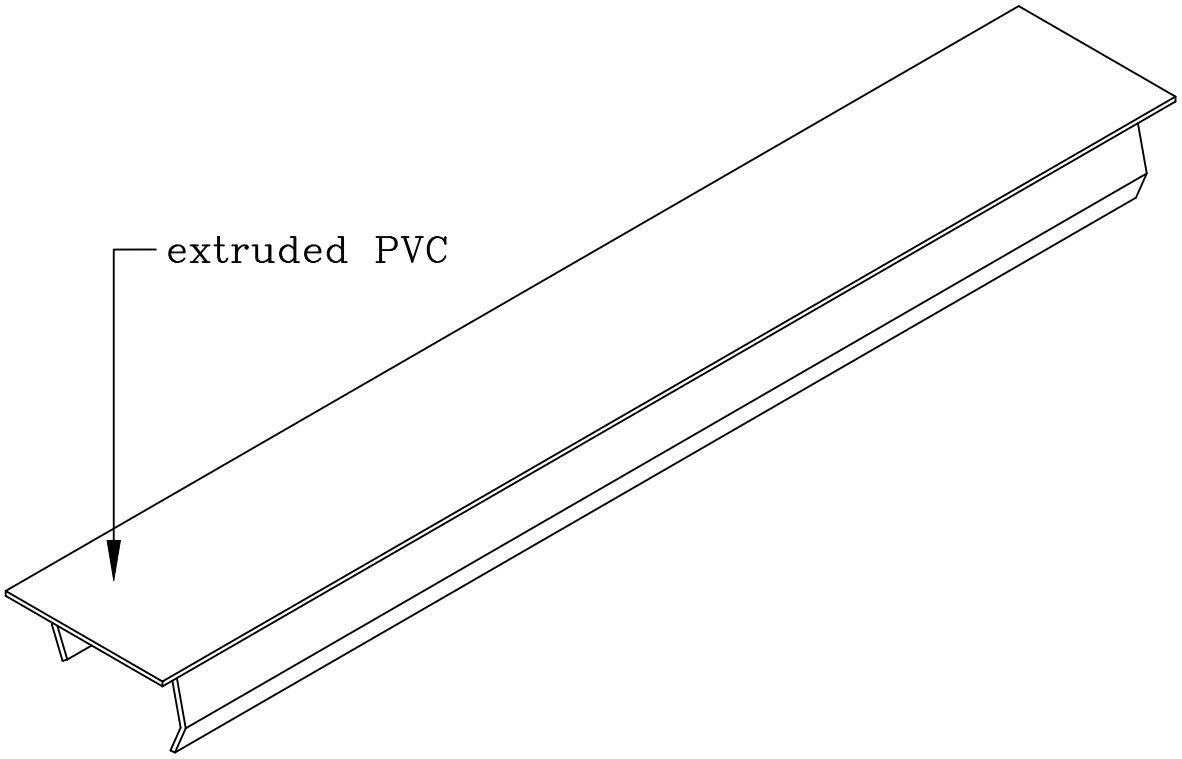
Standard inverted end channel for 4'0" door, 16ga

47 5/16" finished width



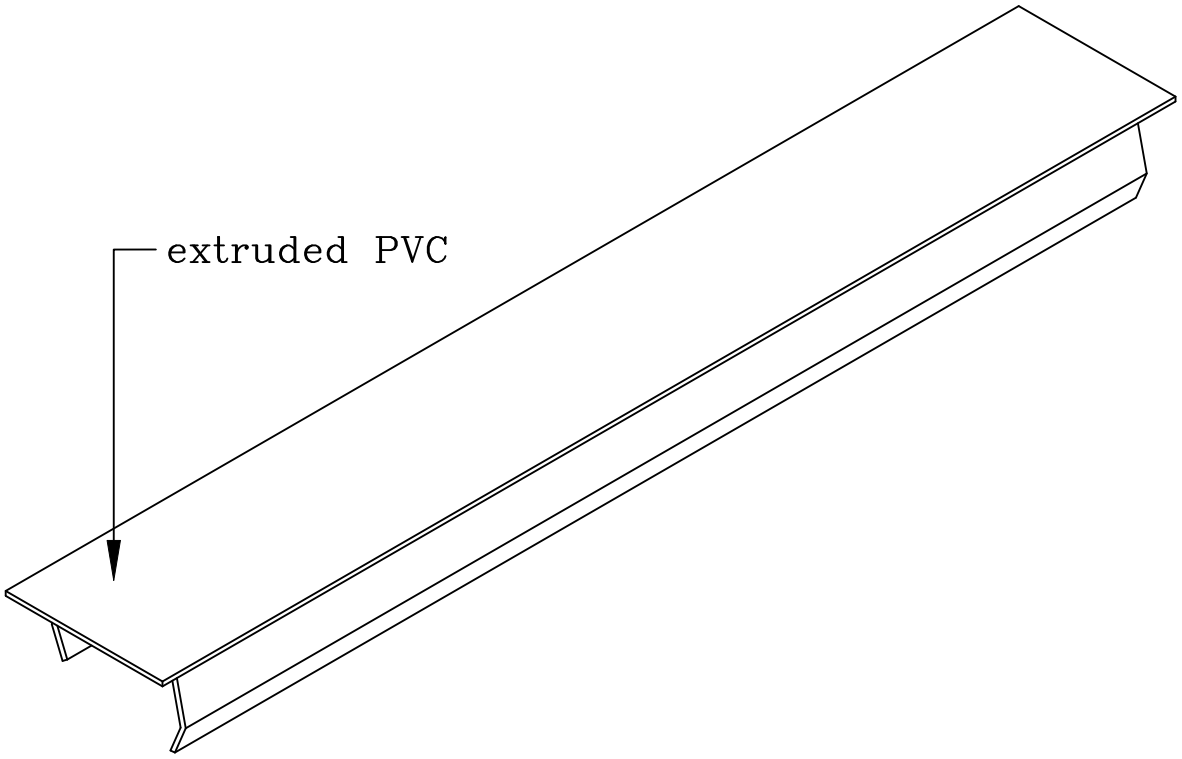


Vinyl cap for 3'0" door
36 1/4" finished width



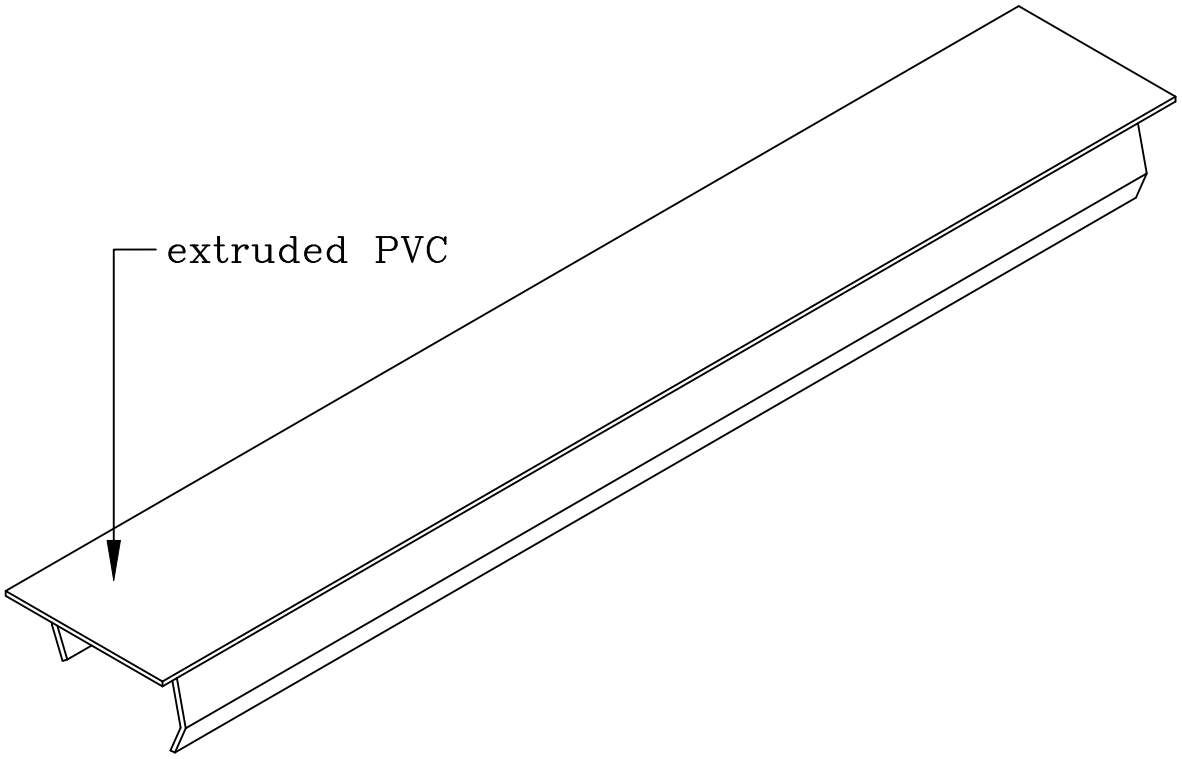
00092

Vinyl cap for 4'0" door
48 1/4" finished width



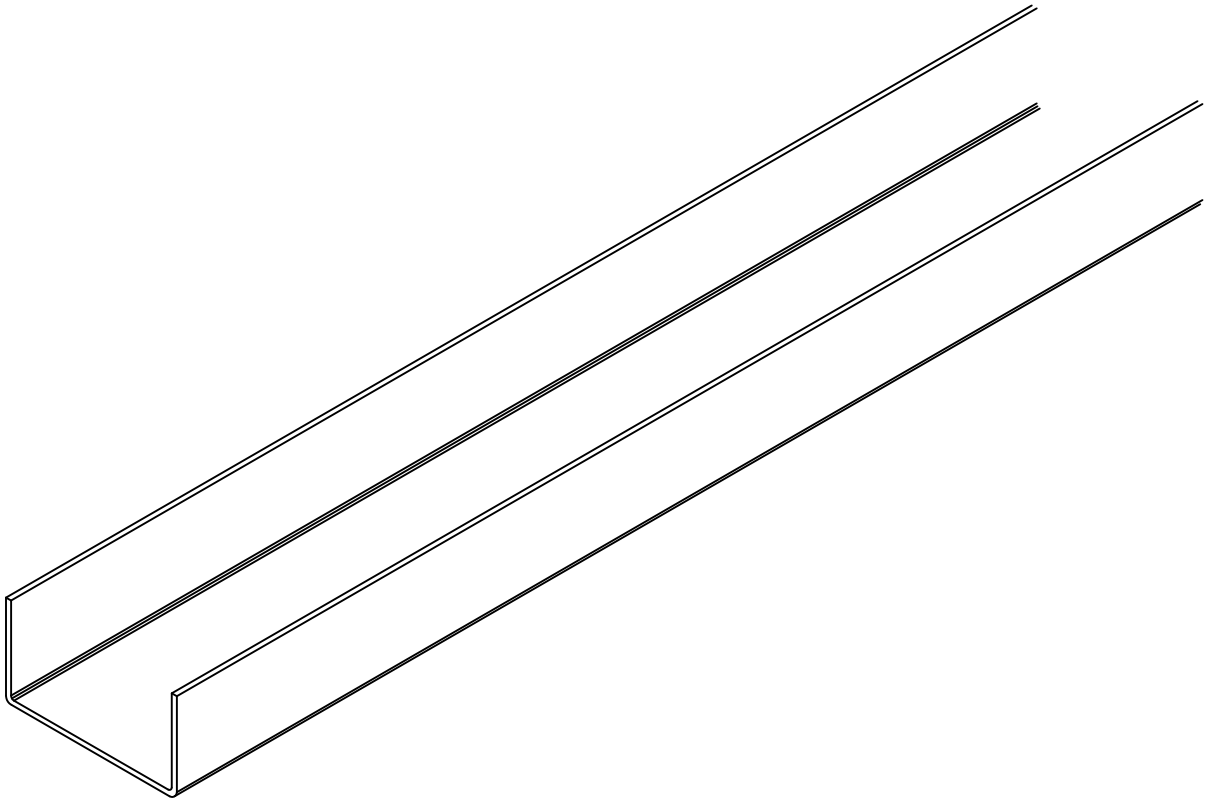
00093

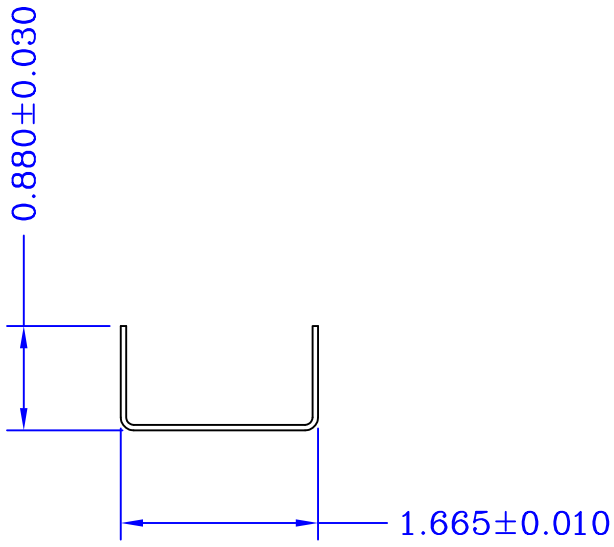
Vinyl cap 12'0" long



00111

71" long capping channel, 18ga
for sandwich type kit and louver cutout only



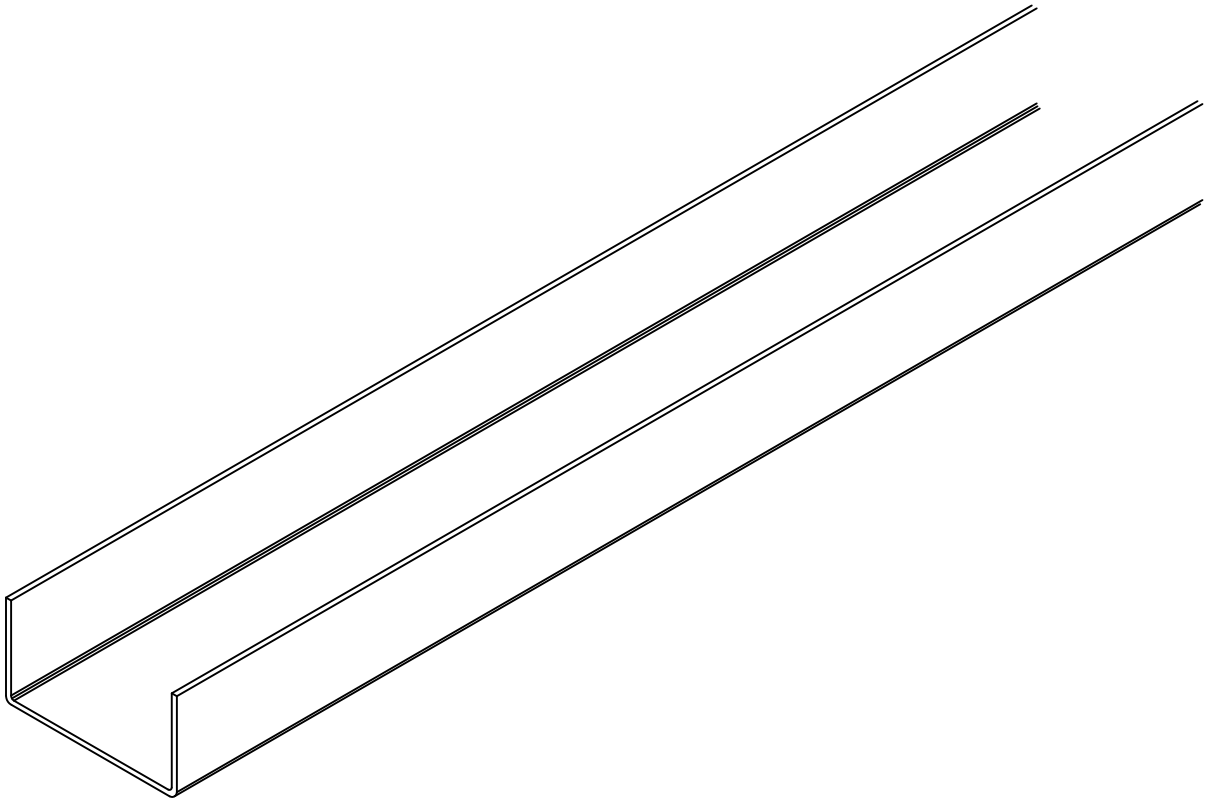


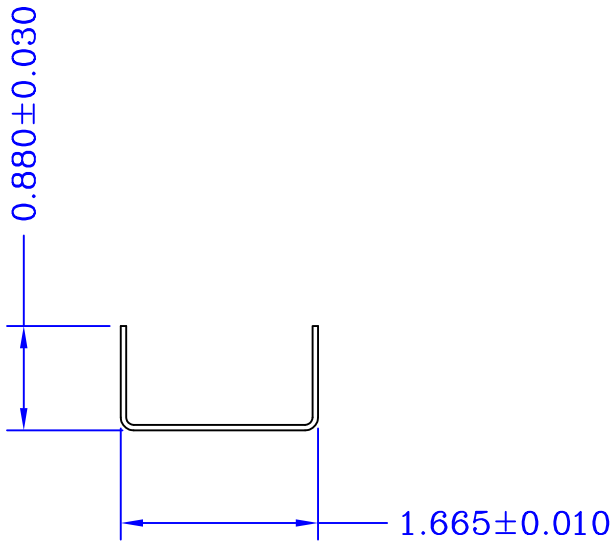
Capping channel for cutout

00634

See option CH on page O-10.13 for additional information

84" long capping channel, 18ga
for sandwich type kit and louver cutout only



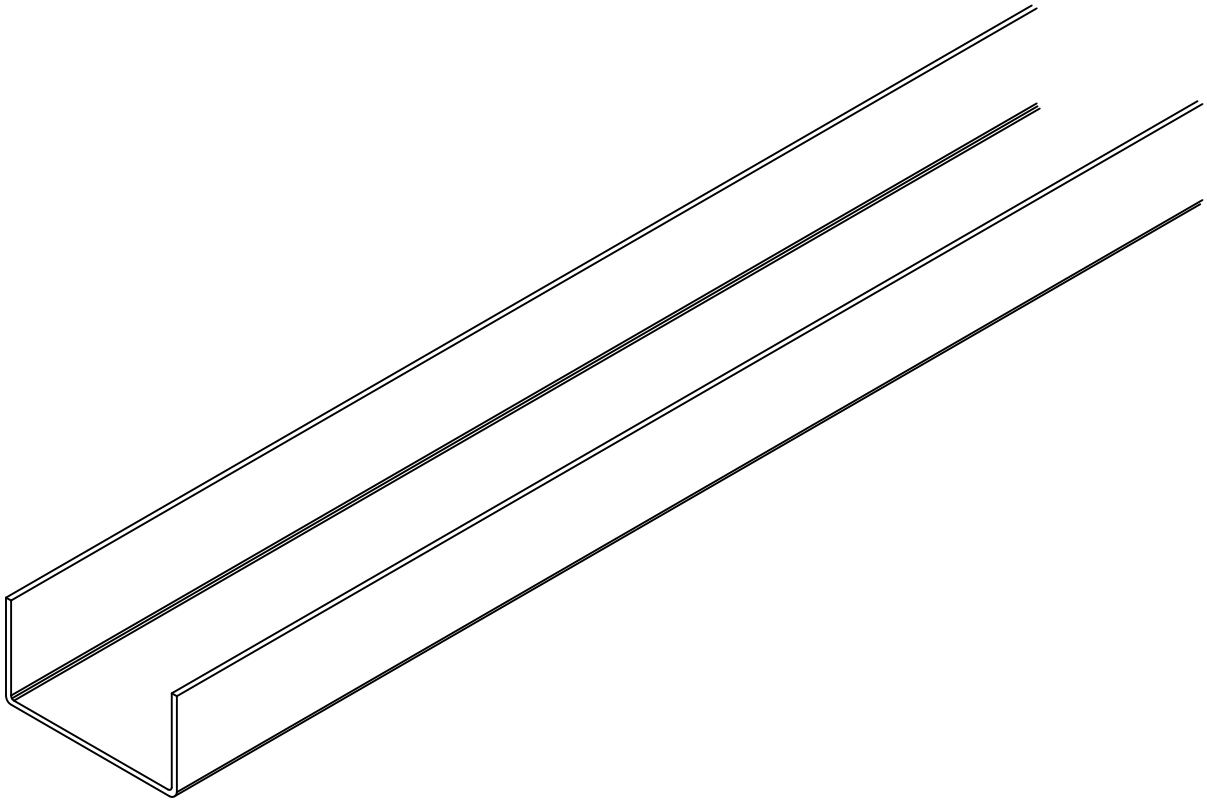


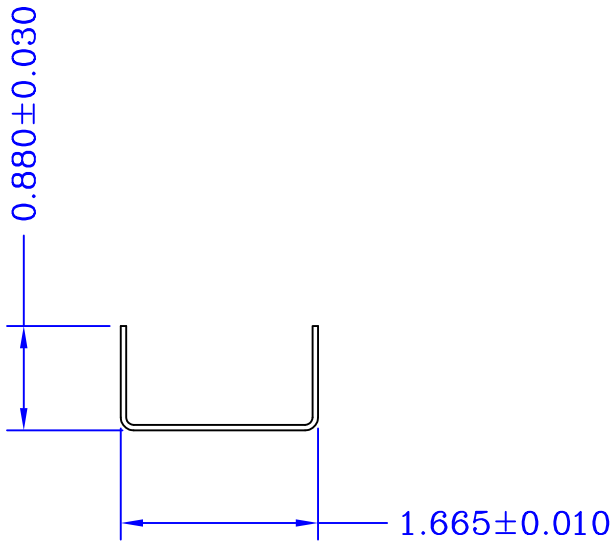
Capping channel for cutout

54493

See option CH on page O-10.13 for additional information

120" long capping channel, 18ga
for sandwich type kit and louver cutout only



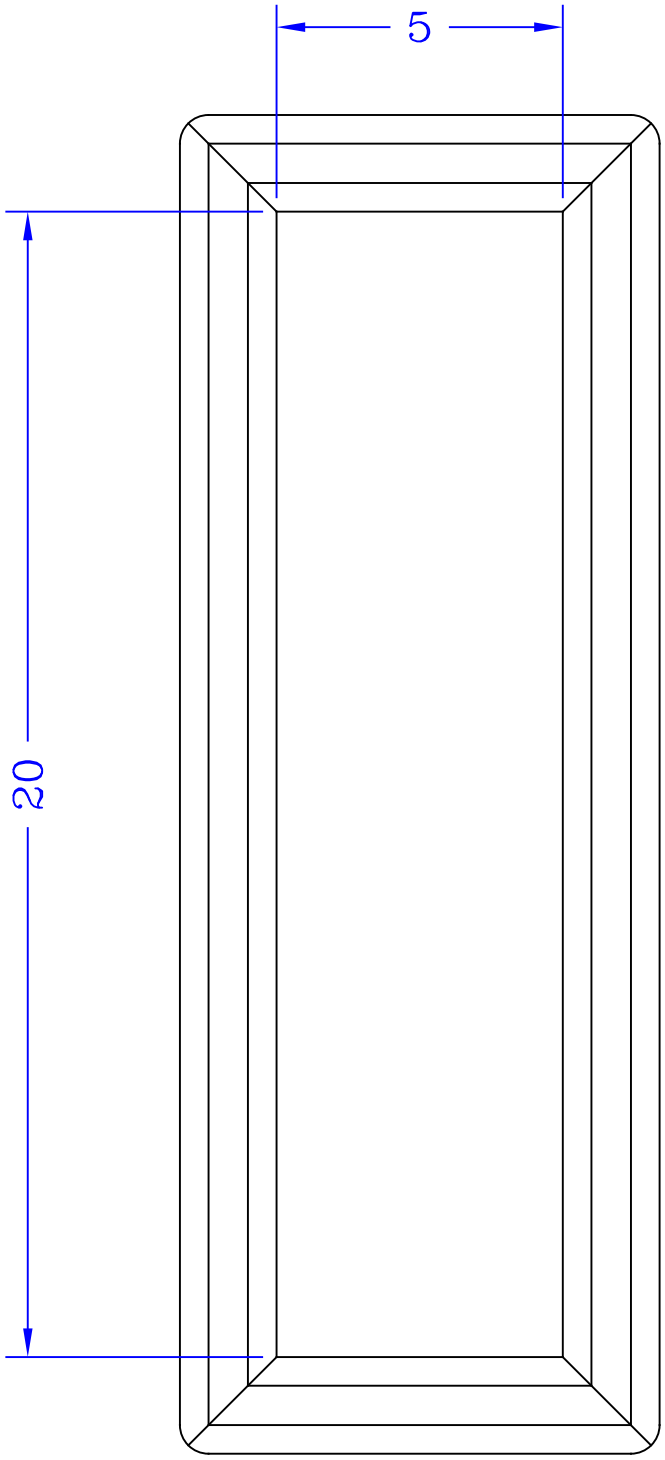


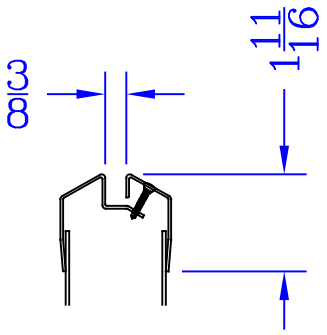
54494

Capping channel for cutout

See option CH on page O-10.13 for additional information

5" x 20" exposed glass, for 1/4" thick glass
for 1 3/4" thick door

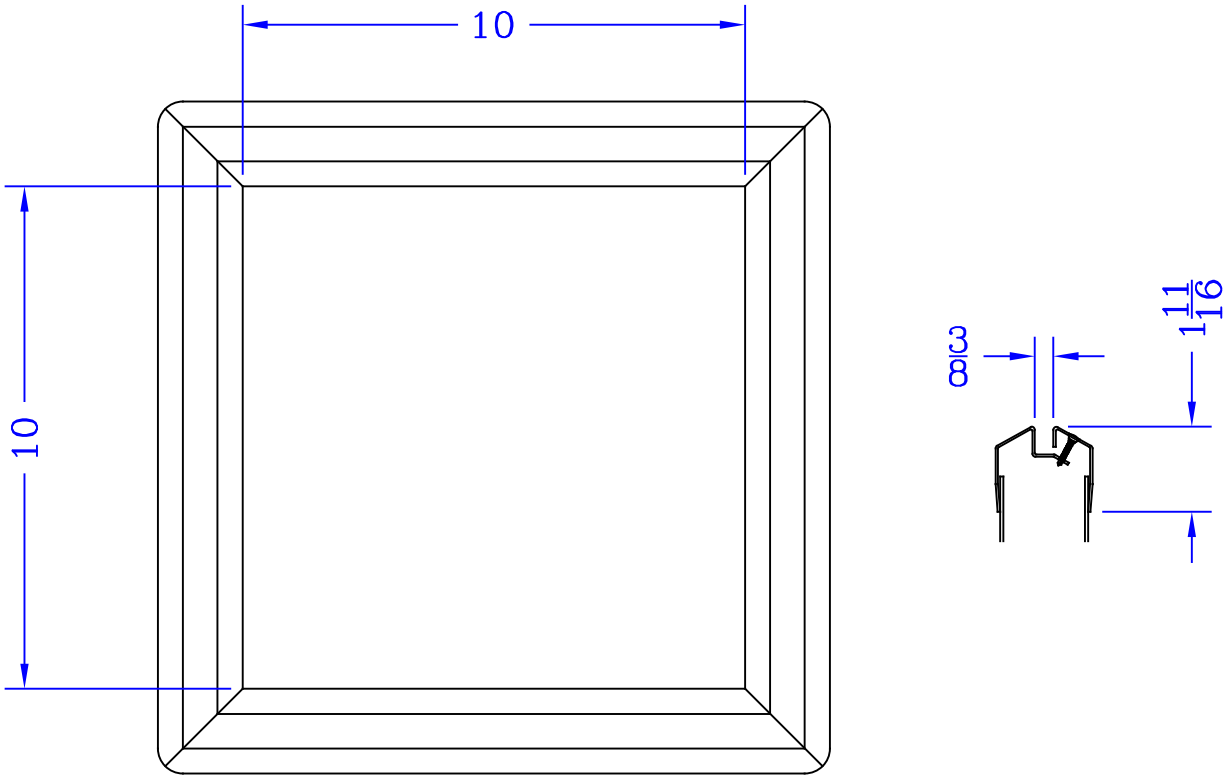




40112

See option SK on page O-10.4 for additional information

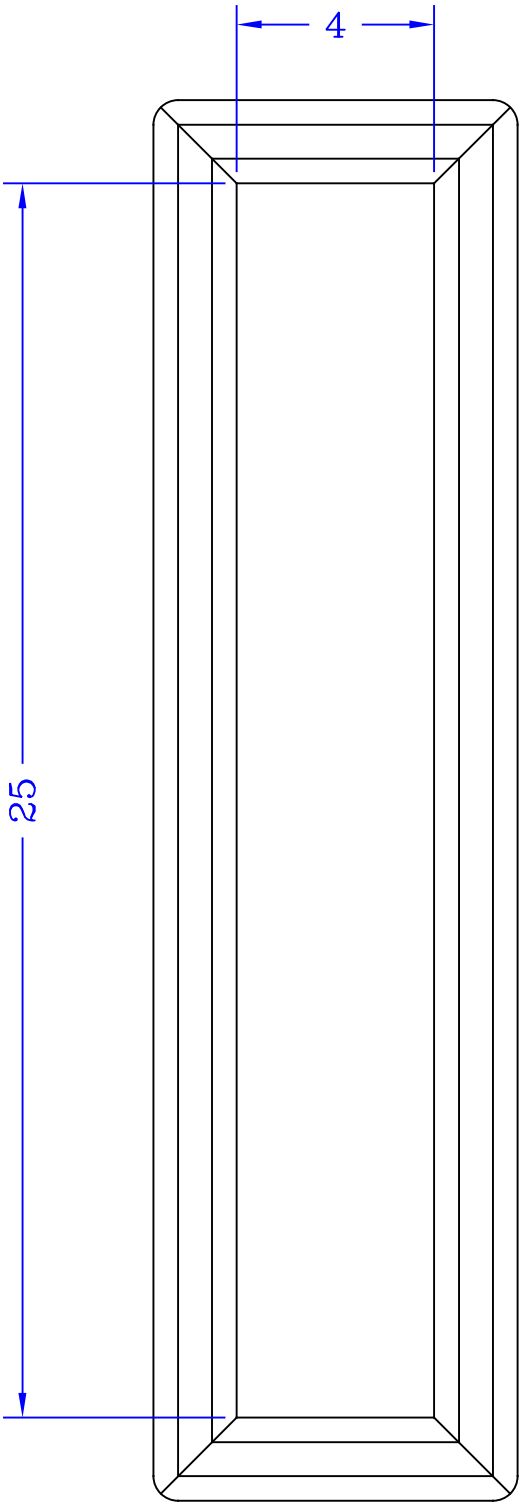
10" x 10" exposed glass, for 1/4" thick glass
for 1 3/4" thick door

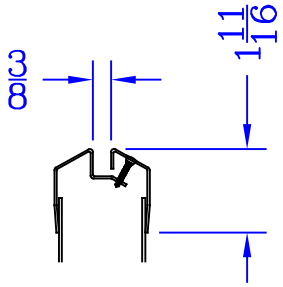


40113

See option SK on page O-10.1 for additional information

4" x 25" exposed glass, for 1/4" thick glass
for 1 3/4" thick door

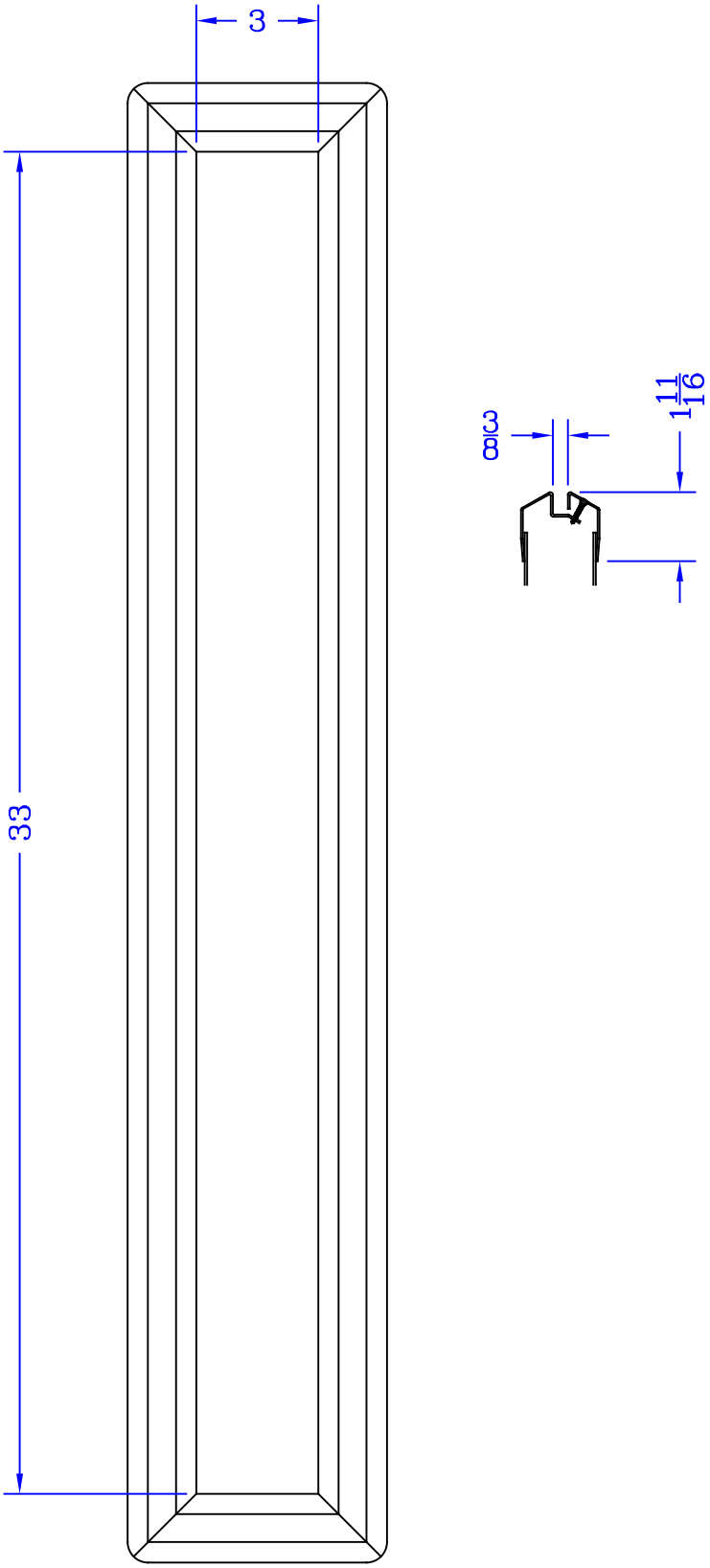




40114

See option SK on page O-10.3 for additional information

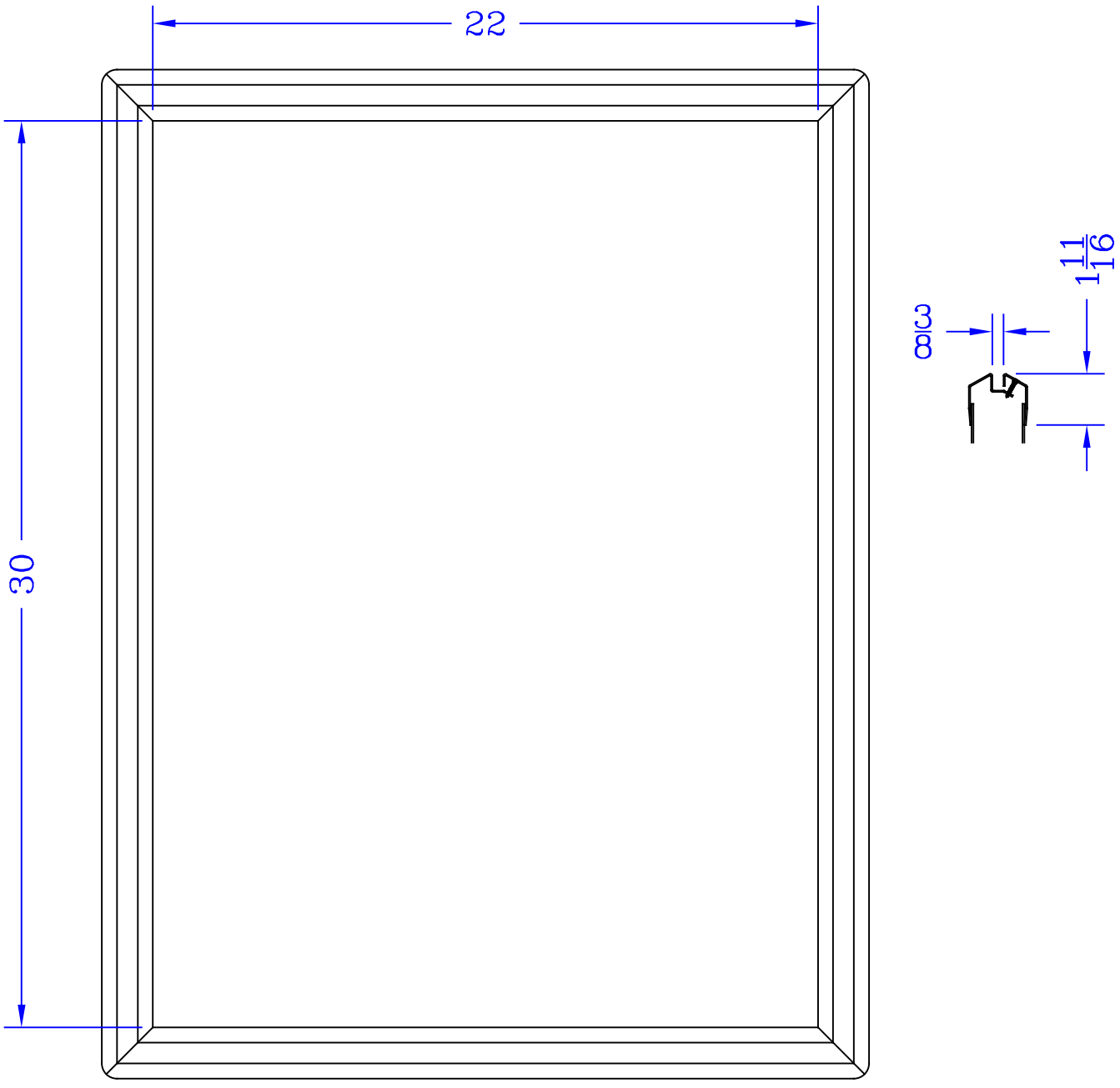
3" x 33" exposed glass, for 1/4" thick glass
for 1 3/4" thick door



See option SK on page O-10.2 for additional information

40115

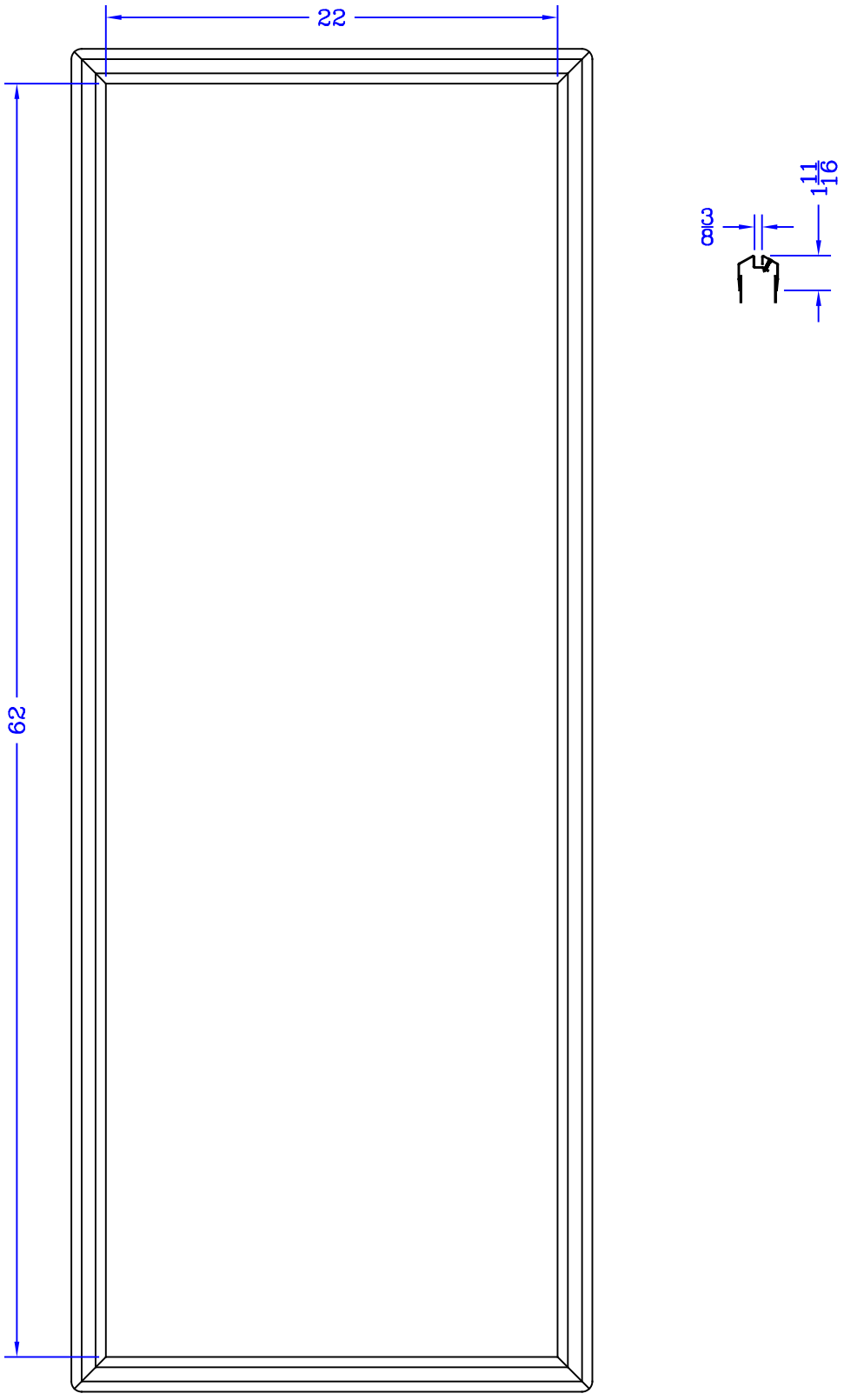
22" x 30" exposed glass, for 1/4" thick glass
for 1 3/4" thick door



40116

See option SK on page O-10.10 for additional information

22" x 62" exposed glass, for 1/4" thick glass
for 1 3/4" thick door

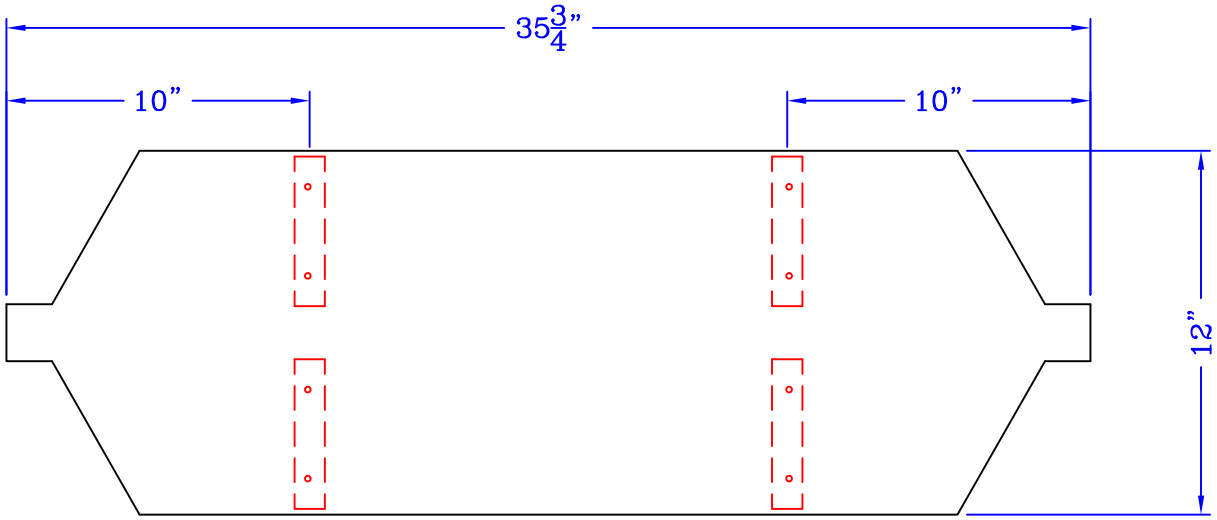


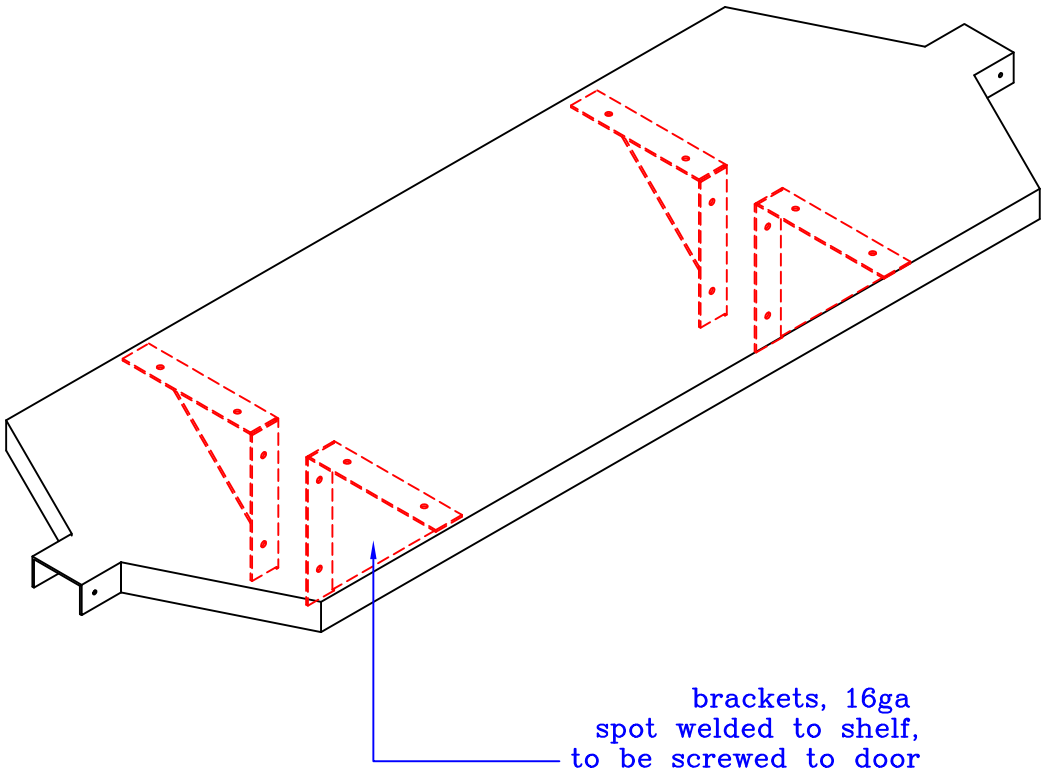
See option SK on page O-10.12 for additional information

54754

Full dutch door shelf, 16ga, for 3'0" nominal door

for 1 3/4" thick door

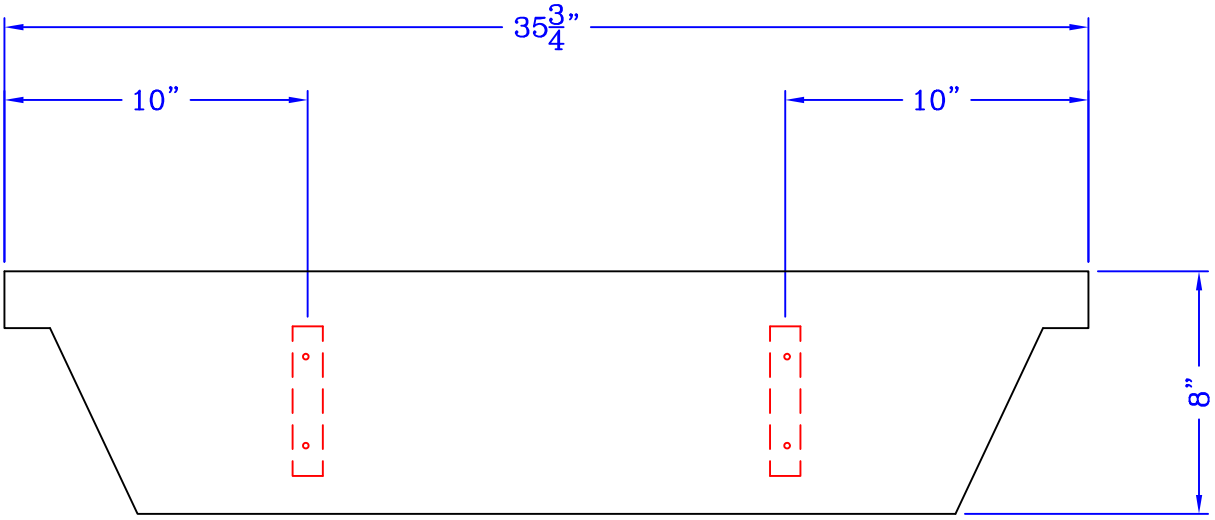


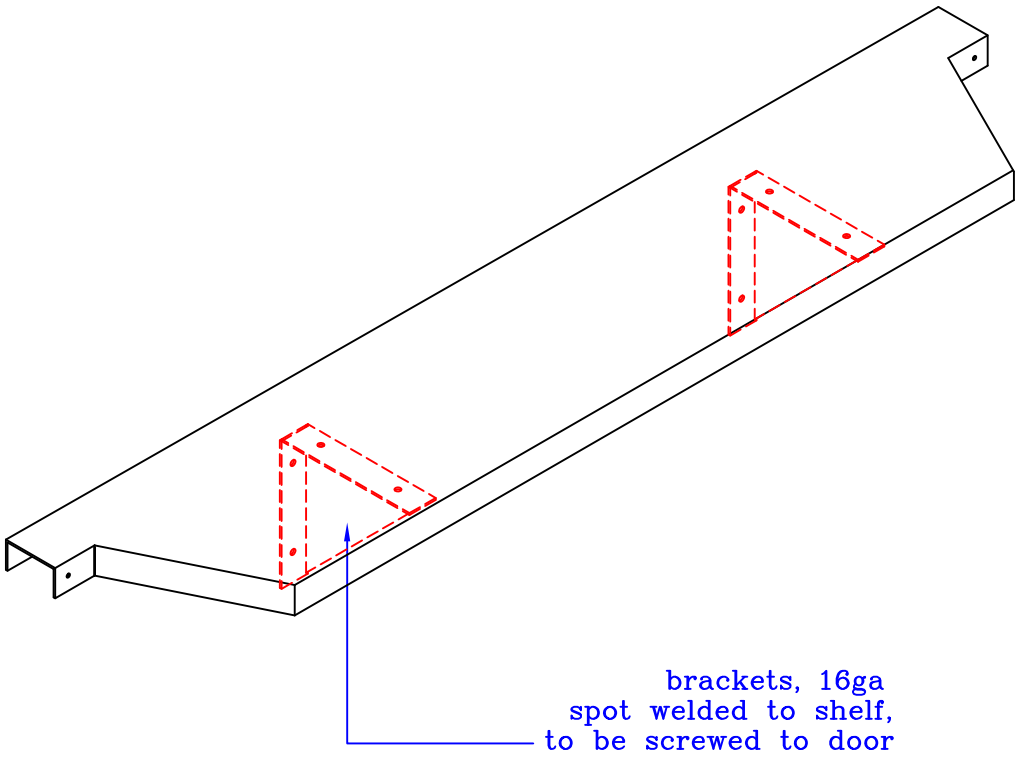


00851

Half dutch door shelf, 16ga, for 3'0" nominal door

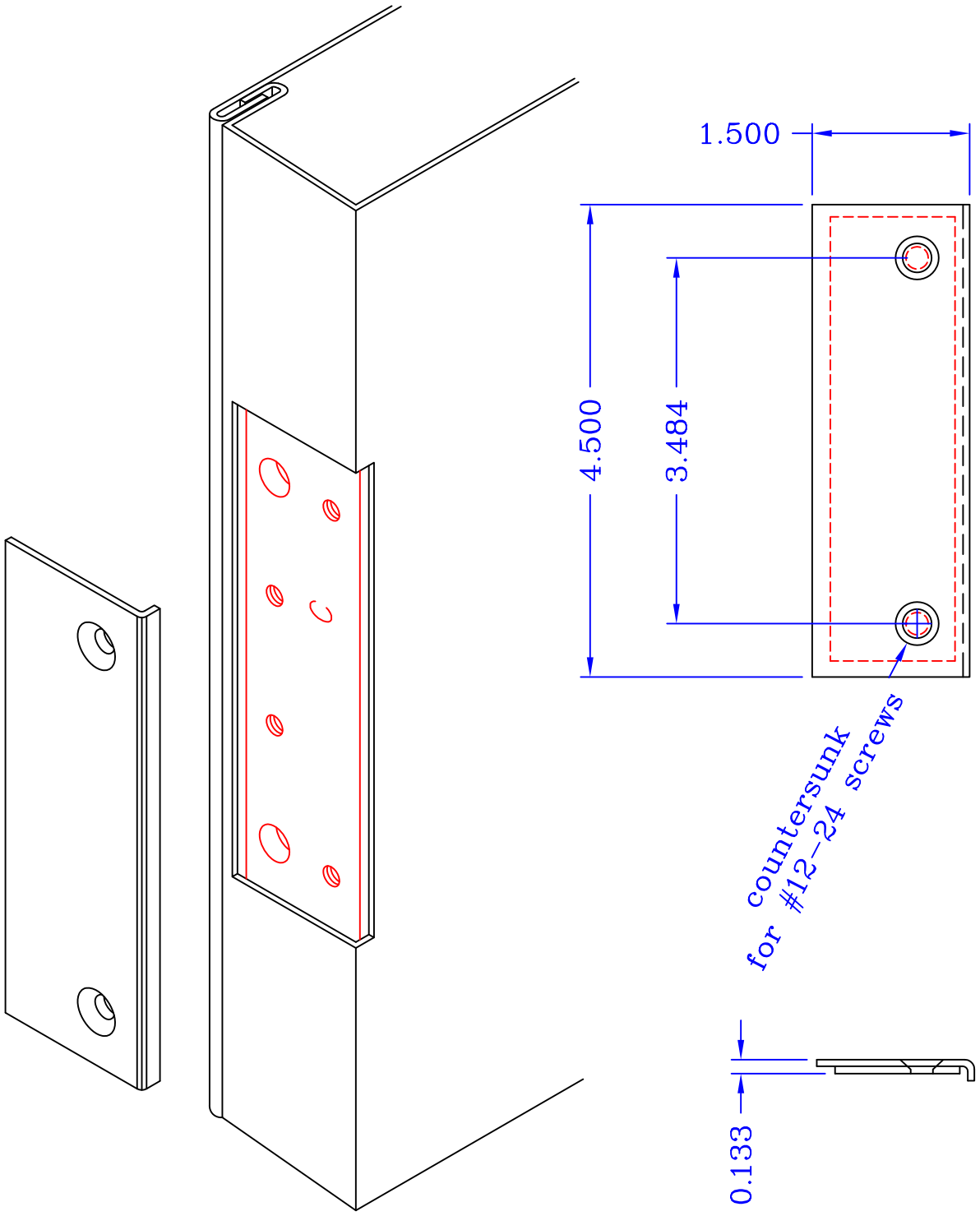
for 1 3/4" thick door





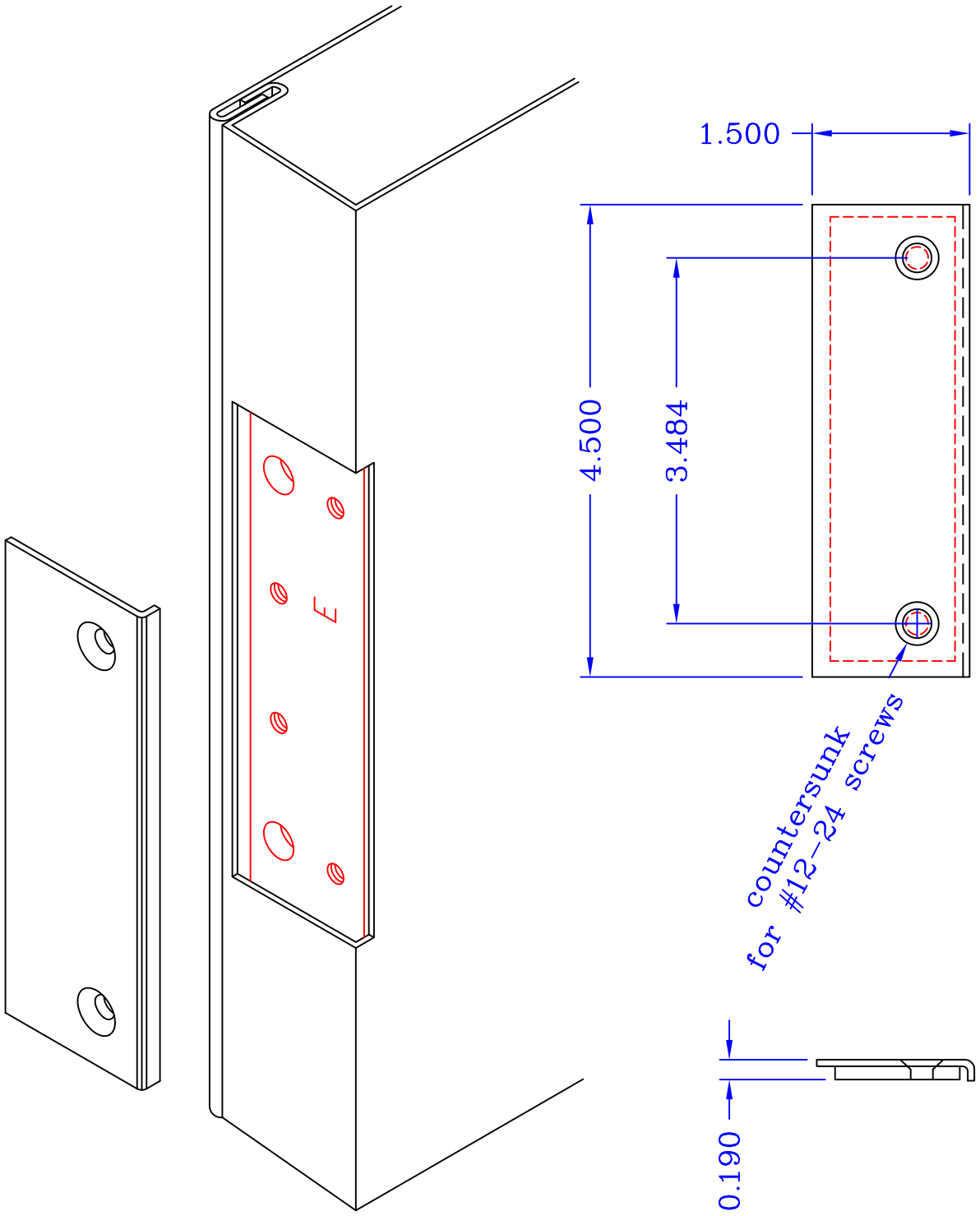
00852

4 1/2" standard weight hinge filler, screwed
for 1 3/4" thick door



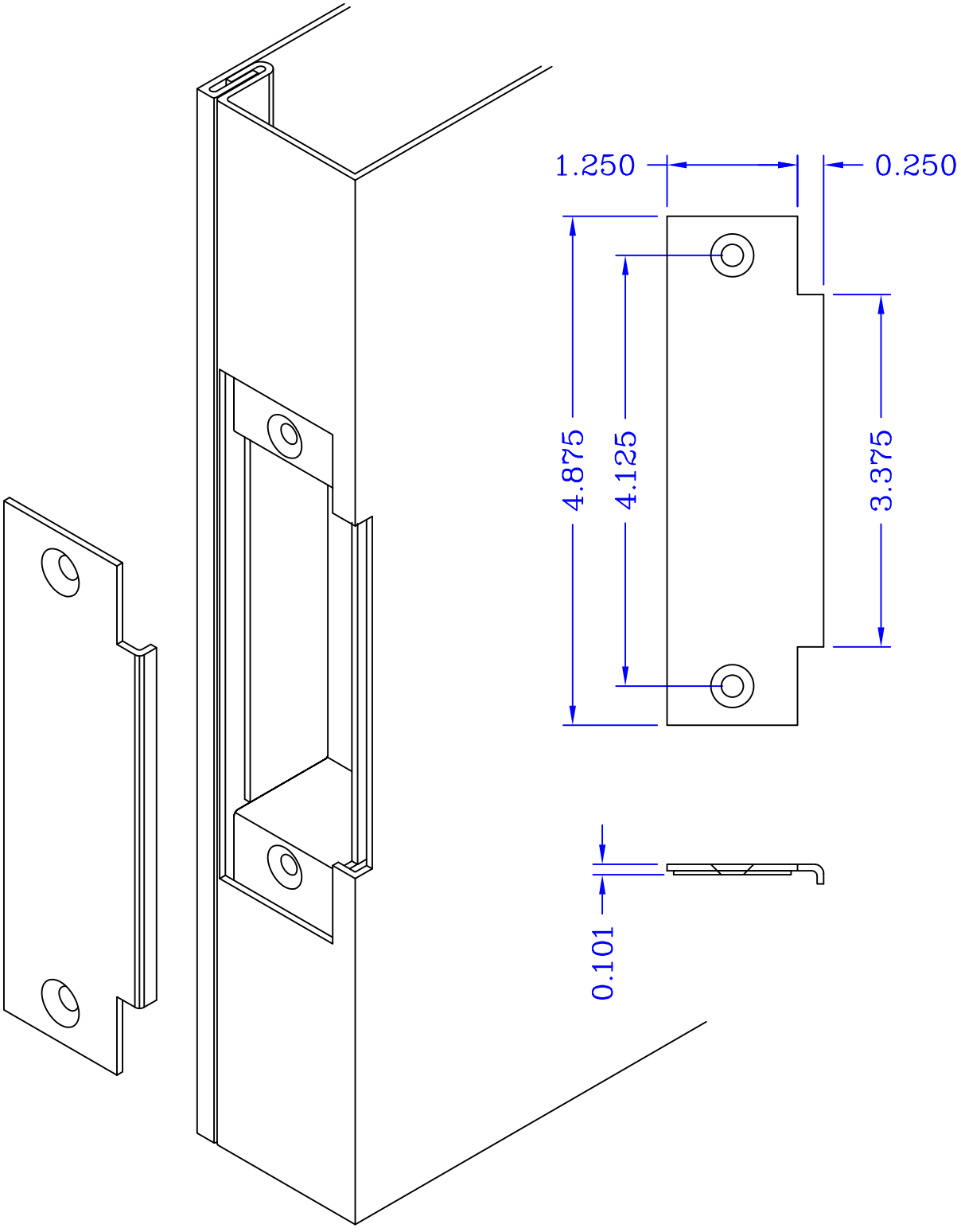
00540

4 1/2" heavy weight hinge filler, screwed
for 1 3/4" thick door



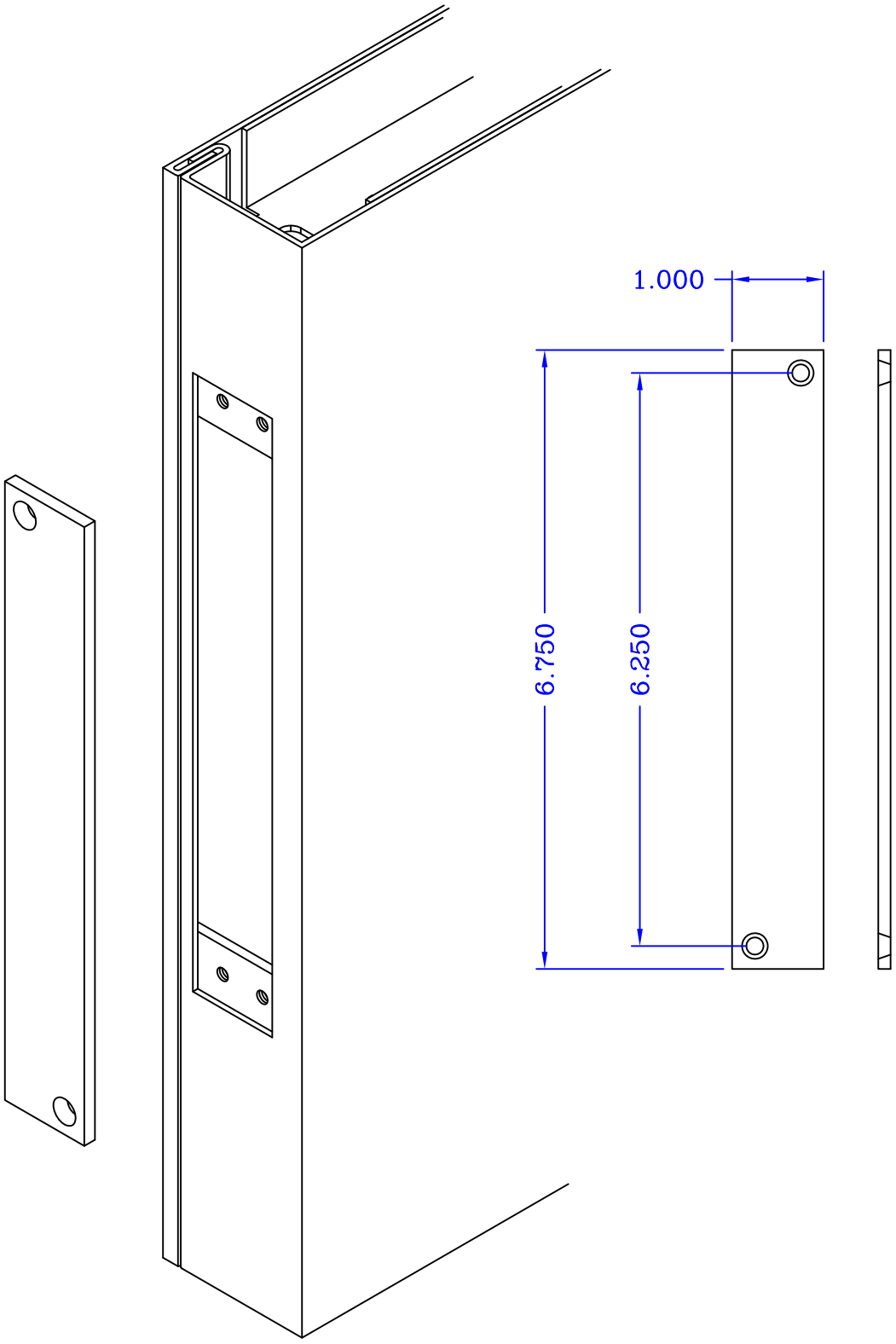
00539

ASA strike filler, screwed
for 1 3/4" thick door



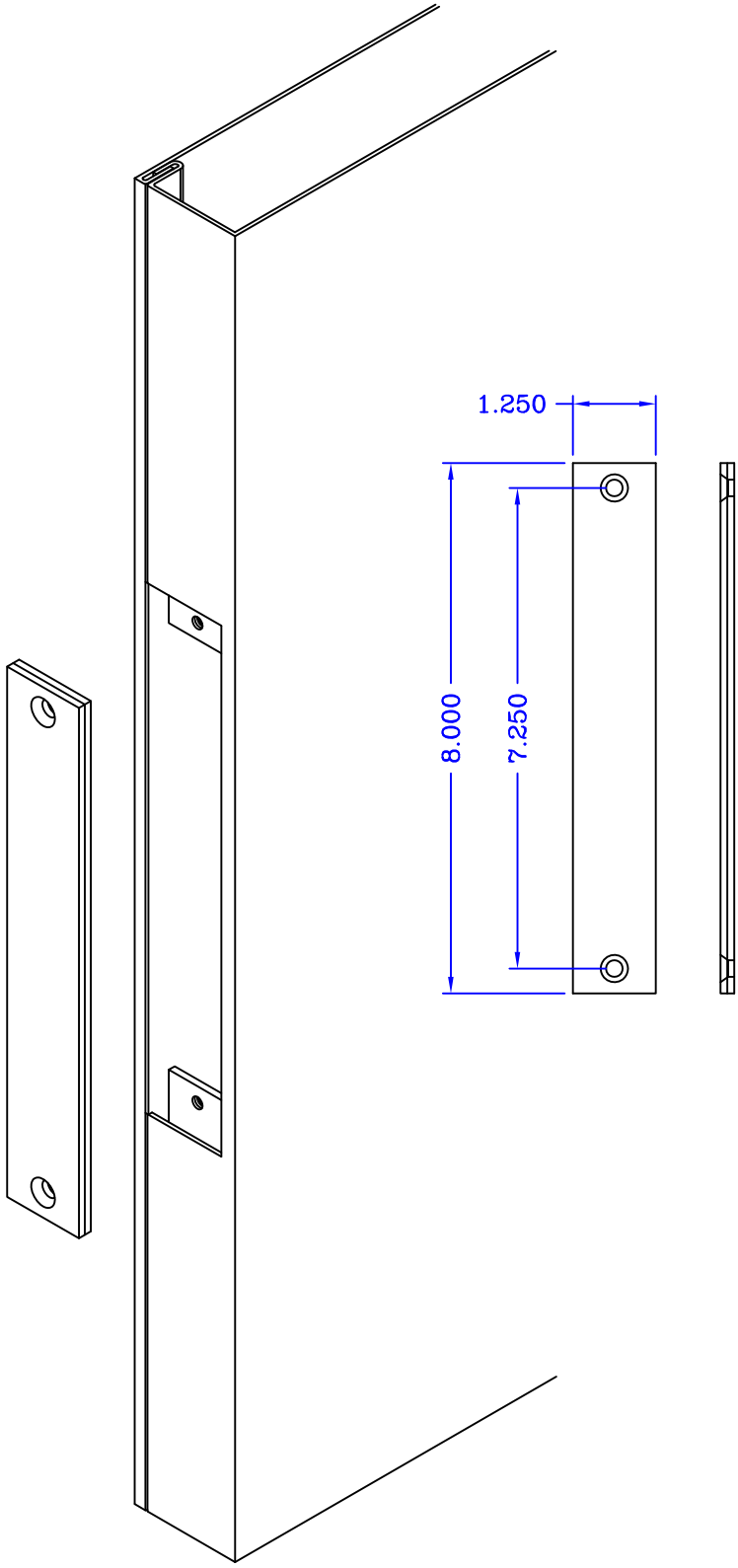
00538

Flush bolt, edge prep filler, screwed
for 1 3/4" thick door



00546

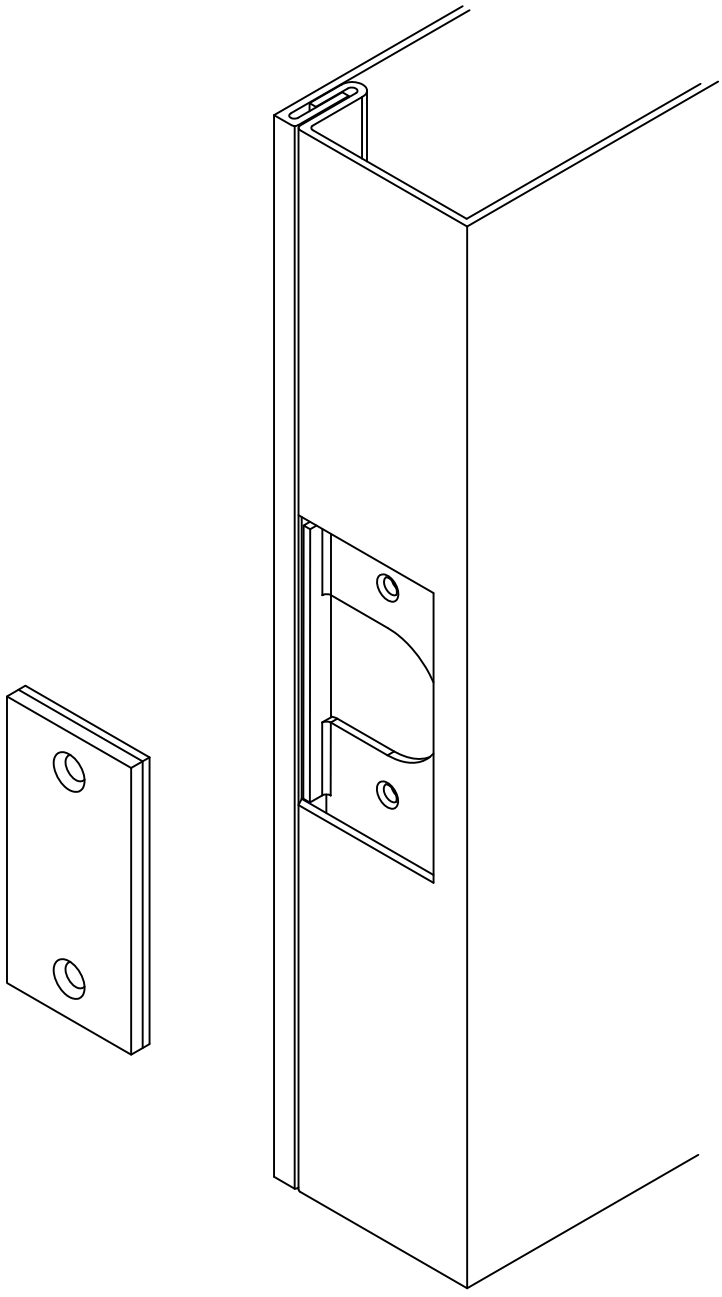
Mortise filler, screwed
for 1 3/4" thick door

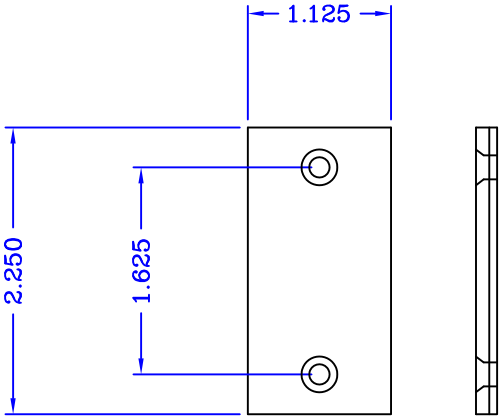


00544

Cylindrical lock filler, screwed

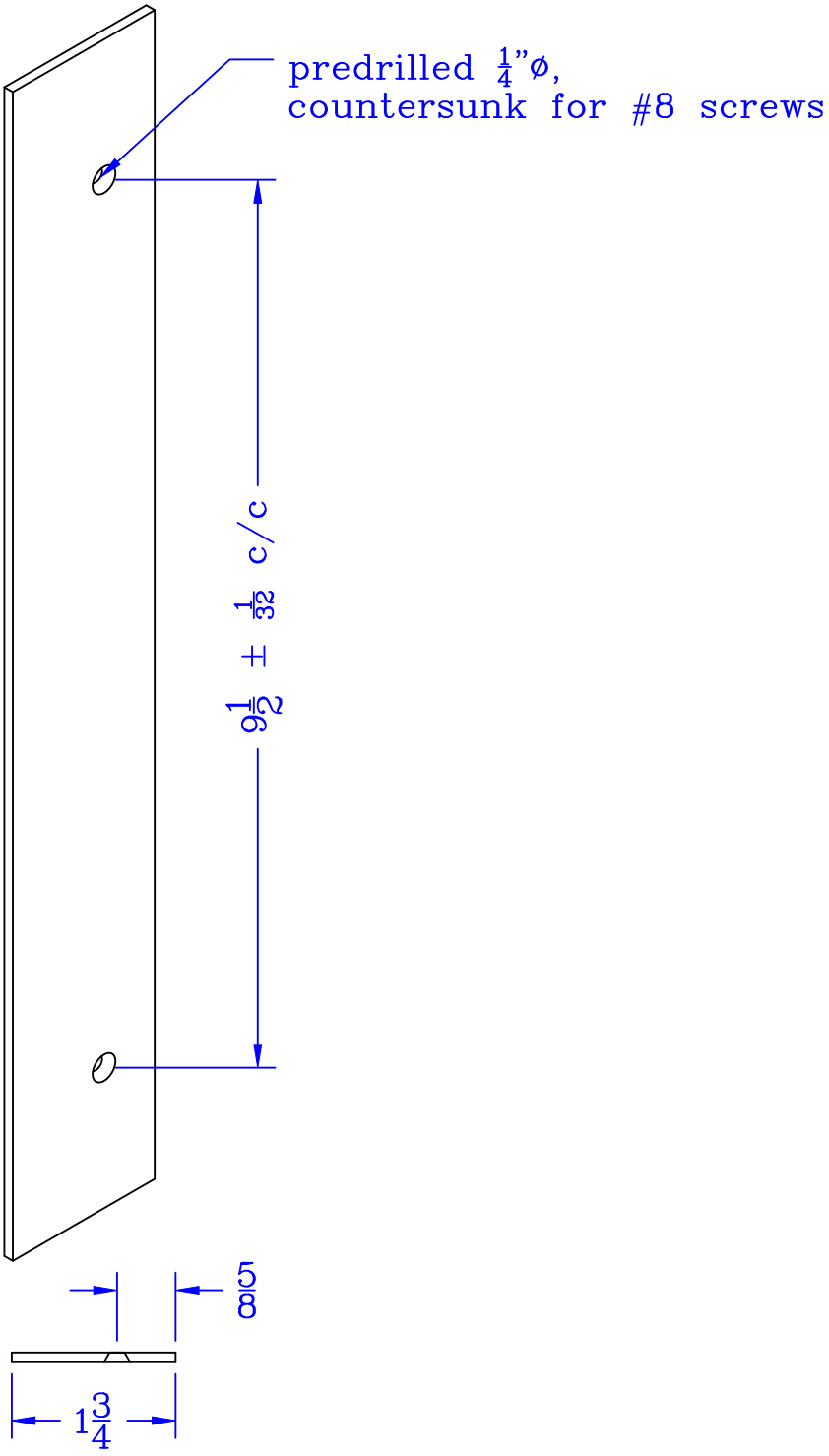
for 1 3/4" thick door





00533

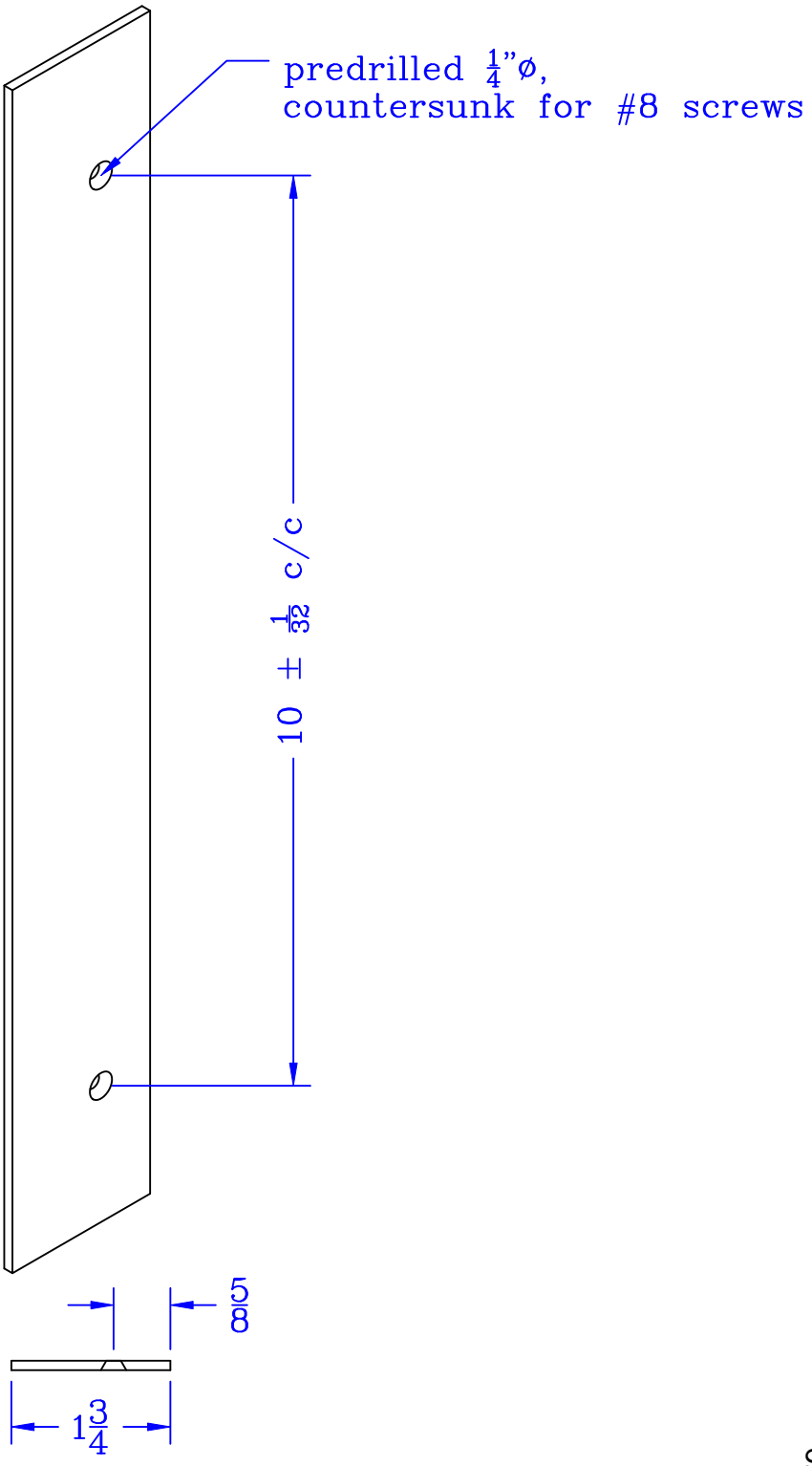
Flat bar astragal 79 1/8", 12ga



00458

See option FAS on page O-6.6 for additional information

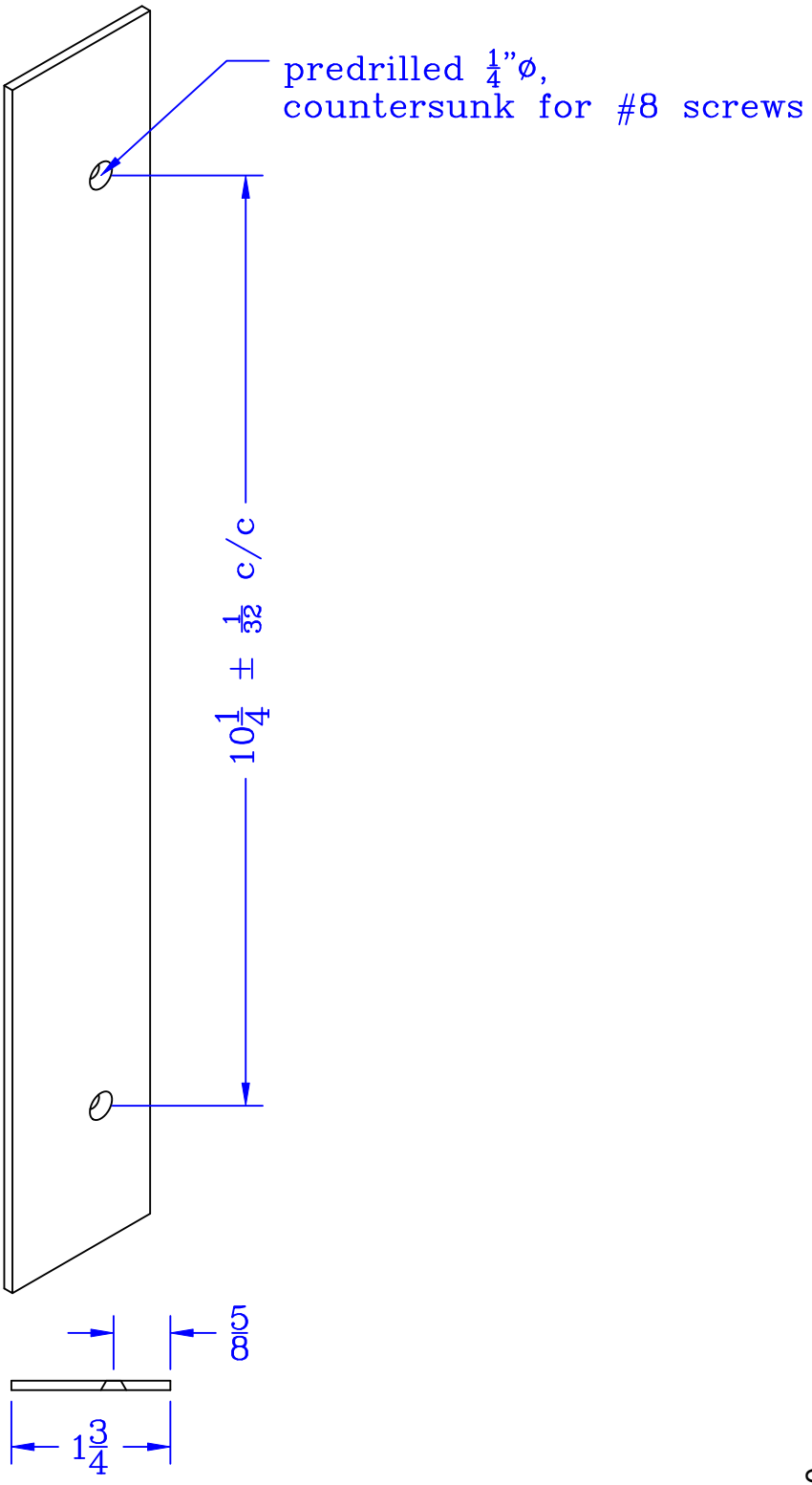
Flat bar astragal 83 1/8", 12ga



00459

See option FAS on page O-6.6 for additional information

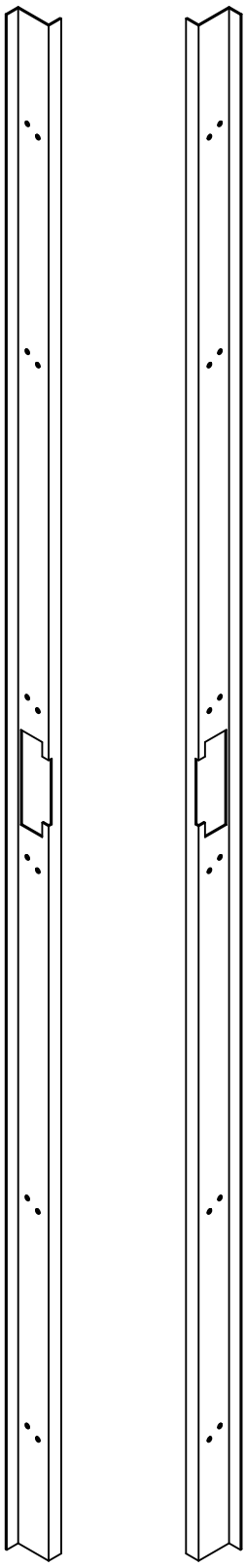
Flat bar astragal 95 1/8", 12ga



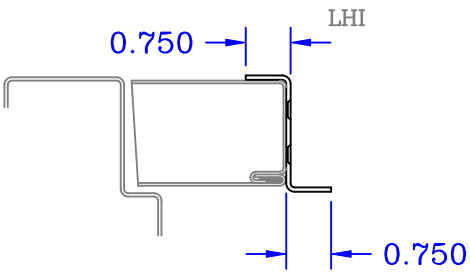
00460

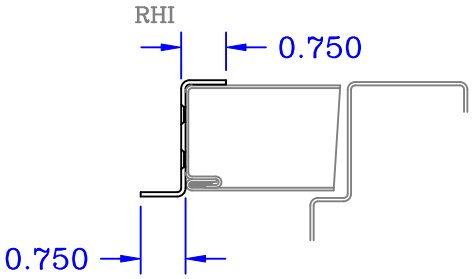
See option FAS on page O-6.6 for additional information

"Z" astragal, 14ga, ASA, 79 1/8", REVH



LHI RHI

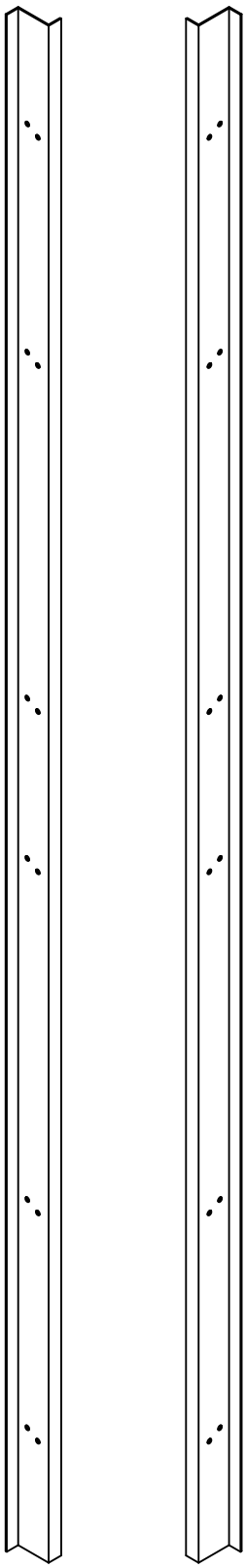




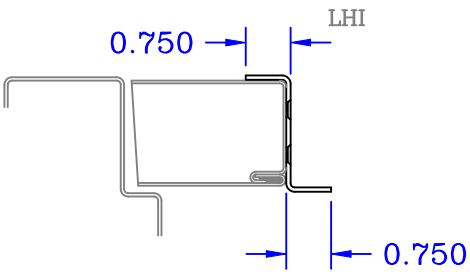
37816

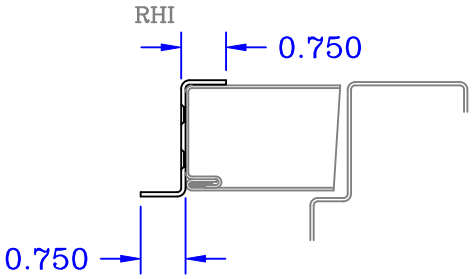
See option ZAS on page O-6.7 for additional information

"Z" astragal, 14ga, Inactive door, 79 1/8", REVH



LHI RHI

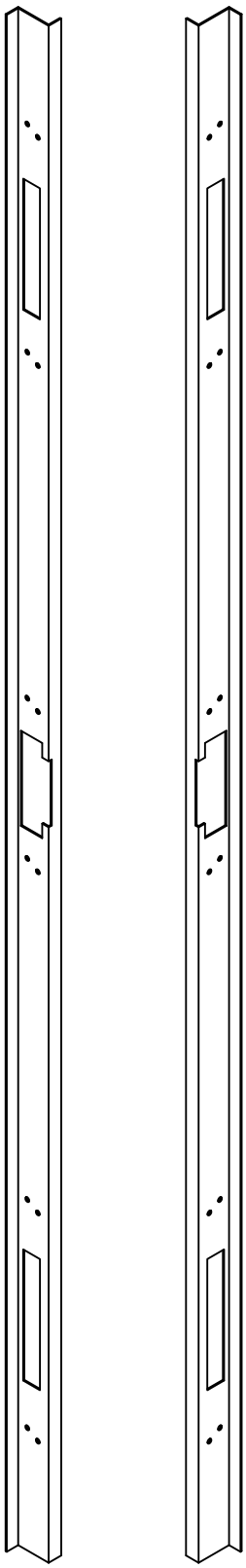




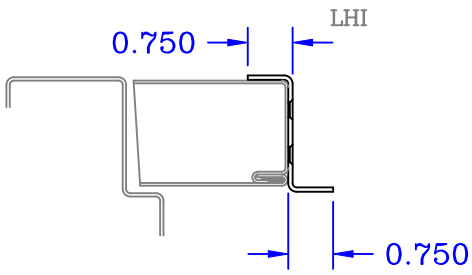
See option ZAS on page O-6.7 for additional information

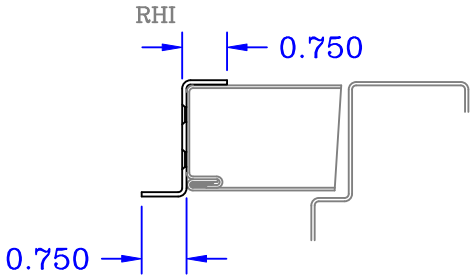
37817

"Z" astragal, 14ga, ASA+FB, 79 1/8", REVH



LHI RHI

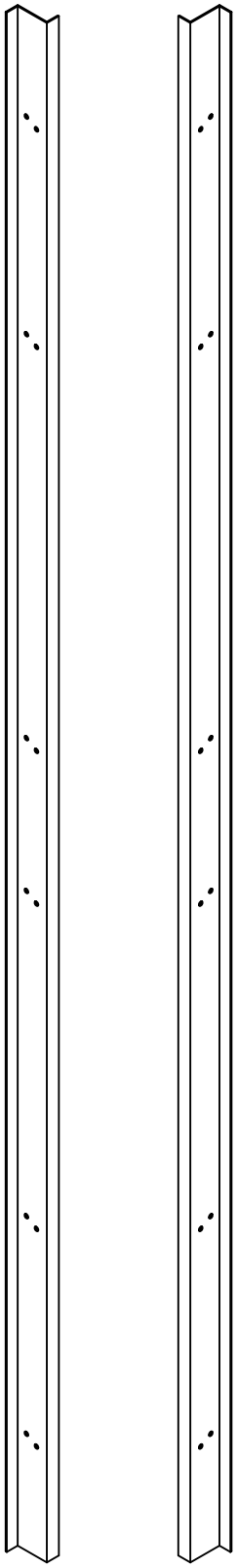




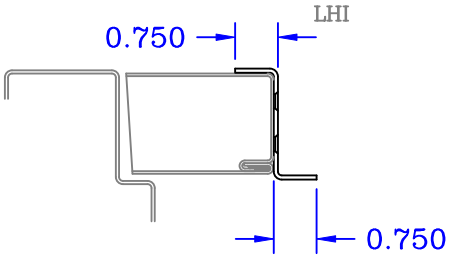
37818

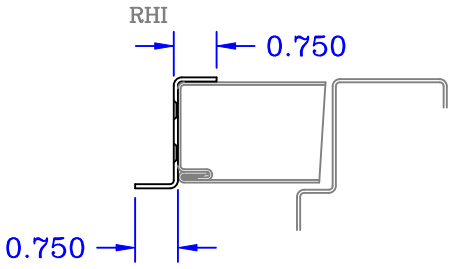
See option ZAS on page O-6.7 for additional information

"Z" astragal, 14ga, Inactive door, 83 1/8", REVH



LHI RHI

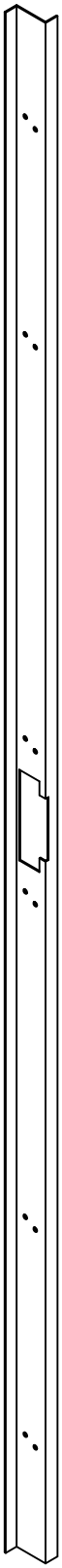


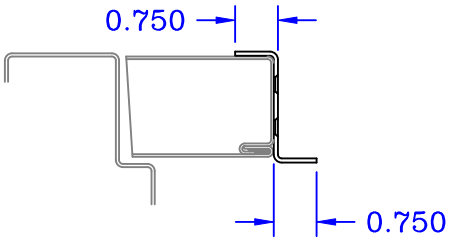


See option ZAS on page O-6.7 for additional information

37819

"Z" astragal, 14ga, ASA, 83 1/8", LH

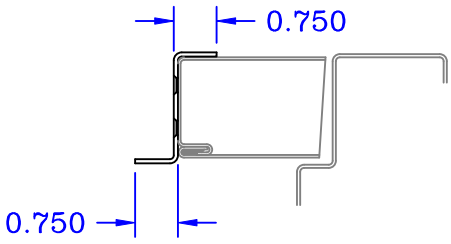




37820

See option ZAS on page O-6.7 for additional information

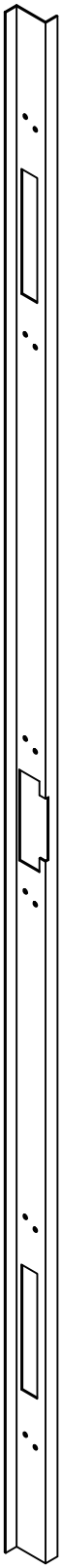
"Z" astragal, 14ga, ASA, 83 1/8", RH

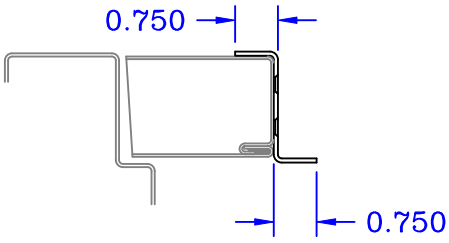


37821

See option ZAS on page O-6.7 for additional information

"Z" astragal, 14ga, ASA+FB, 83 1/8", LH

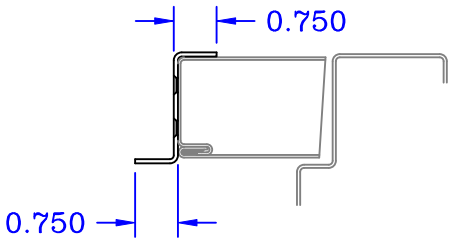




37822

See option ZAS on page O-6.7 for additional information

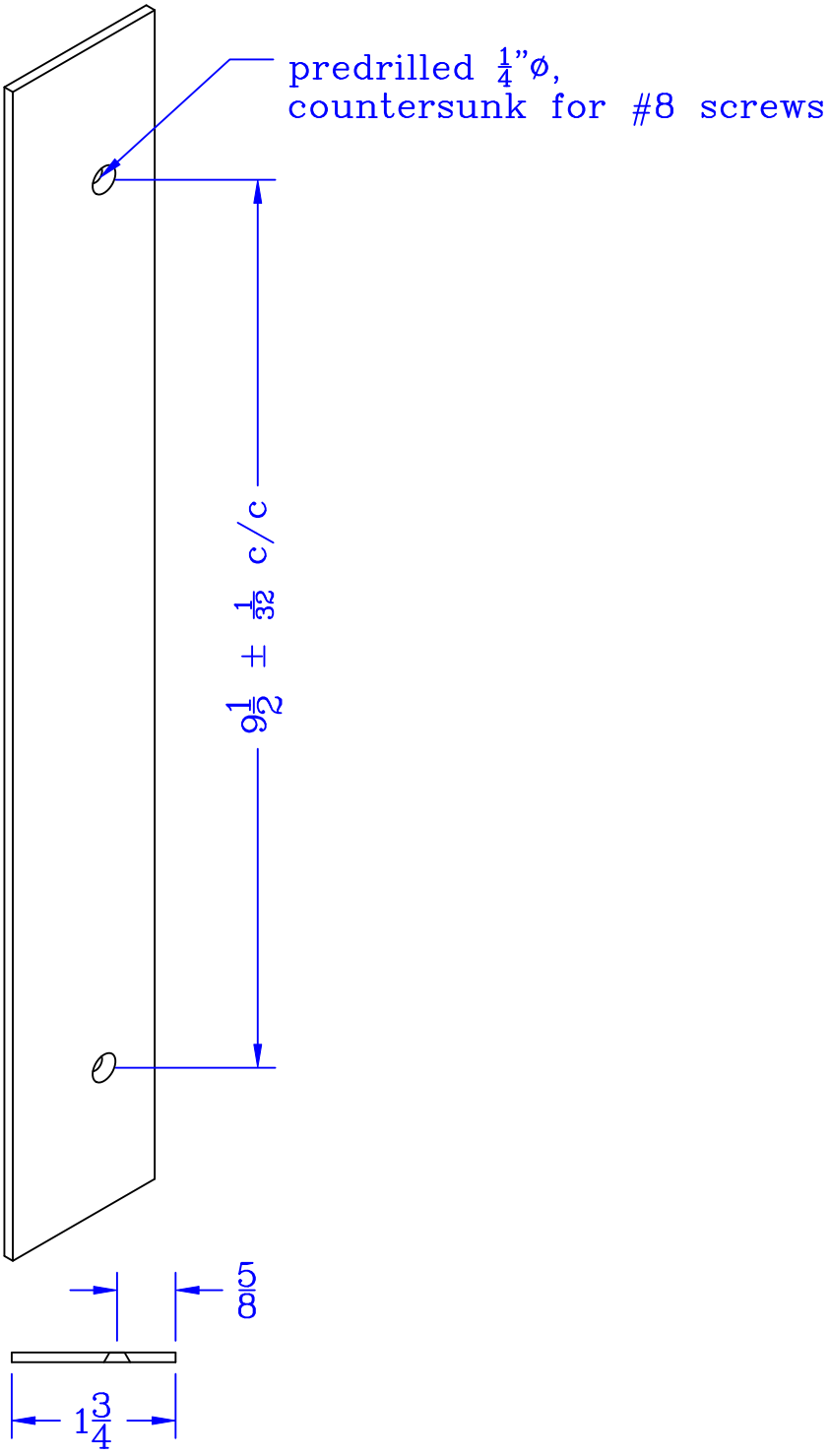
"Z" astragal, 14ga, ASA+FB, 83 1/8", RH



37823

See option ZAS on page O-6.7 for additional information

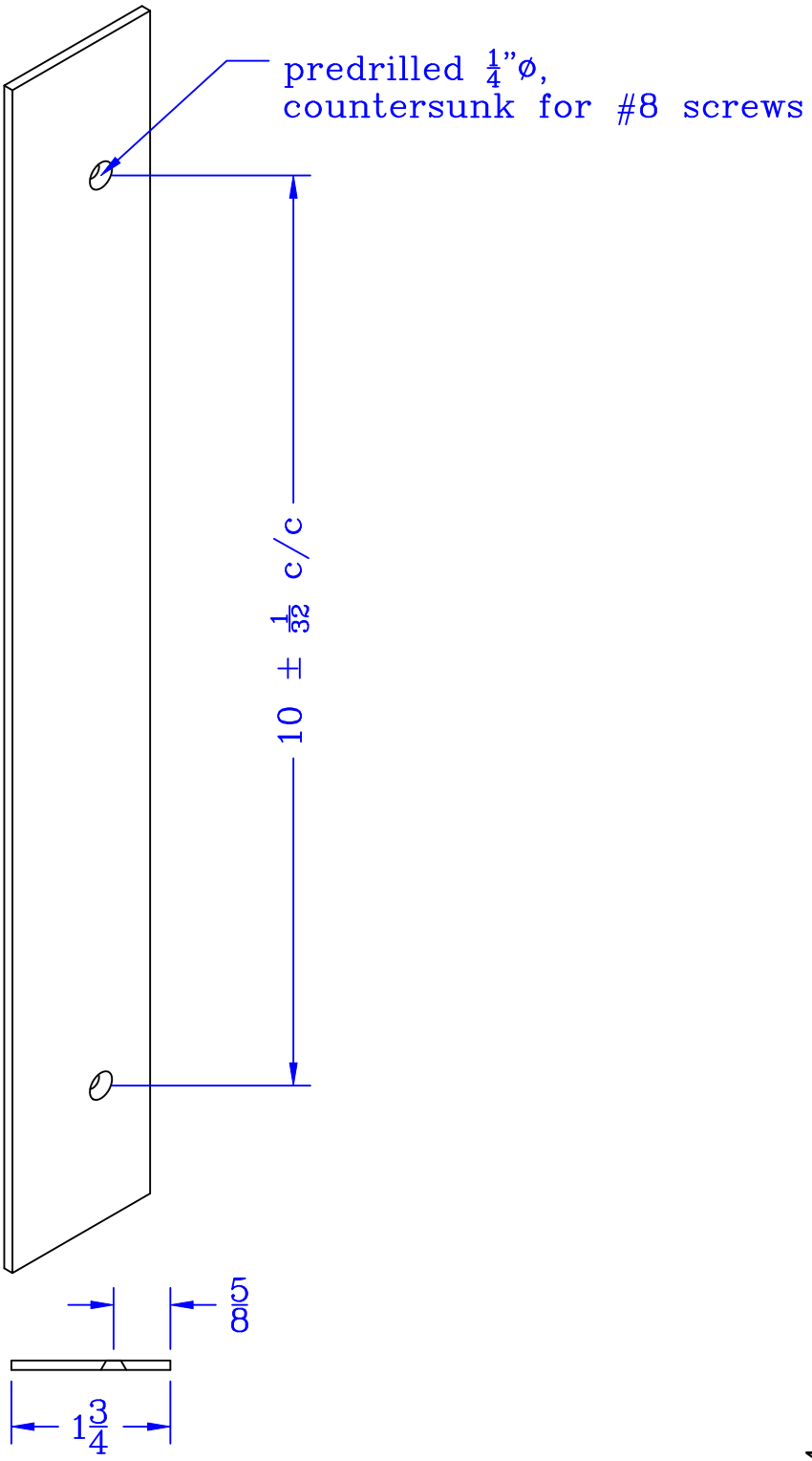
Flat bar astragal 79 1/8", 12ga, Primed



53683

See option FAS on page O-6.6 for additional information

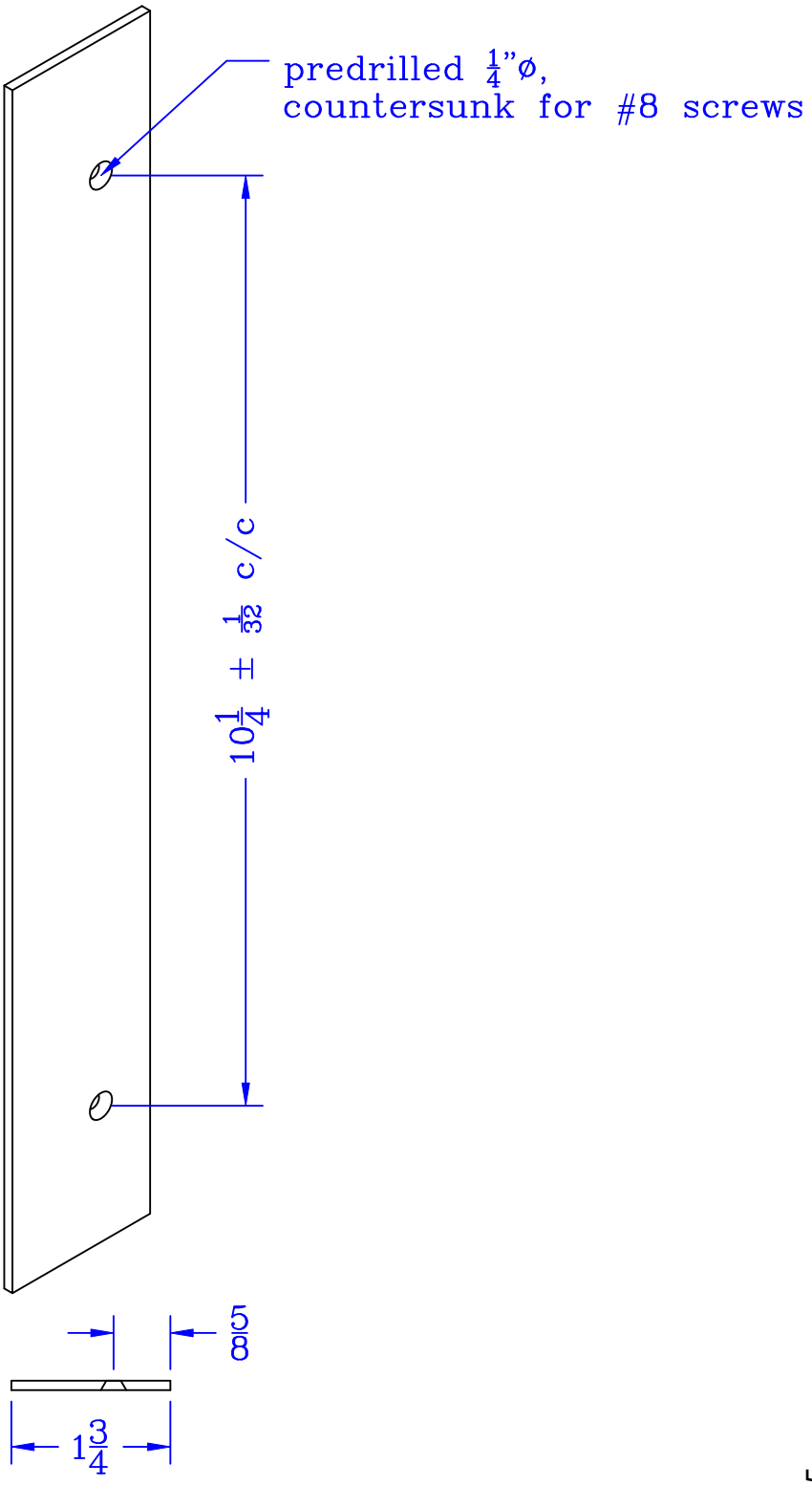
Flat bar astragal 83 1/8", 12ga, Primed



53684

See option FAS on page O-6.6 for additional information

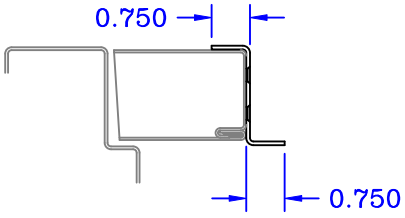
Flat bar astragal 95 1/8", 12ga, Primed



53685

See option FAS on page O-6.6 for additional information

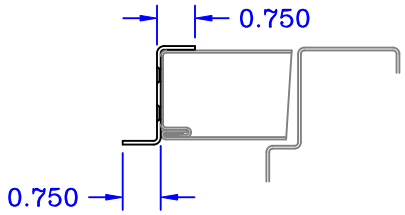
"Z" astragal, 14ga, ASA, 95 1/8", LH



53906

See option ZAS on page O-6.7 for additional information

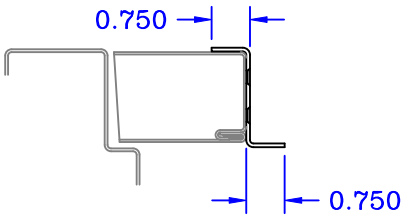
"Z" astragal, 14ga, ASA, 95 1/8", RH



53907

See option ZAS on page O-6.7 for additional information

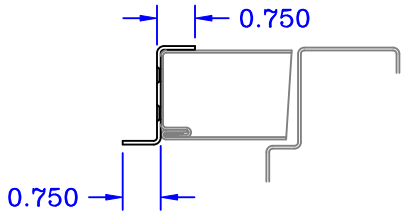
"Z" astragal, 14ga, ASA+FB, 95 1/8", LH



53908

See option ZAS on page O-6.7 for additional information

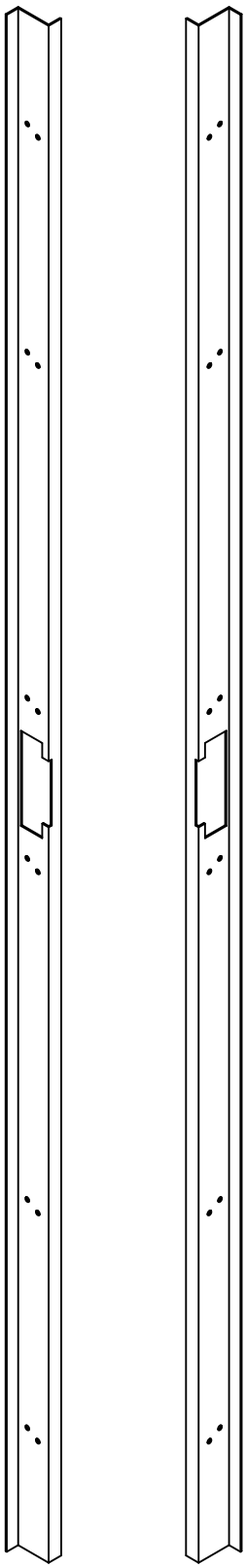
"Z" astragal, 14ga, ASA+FB, 95 1/8", RH



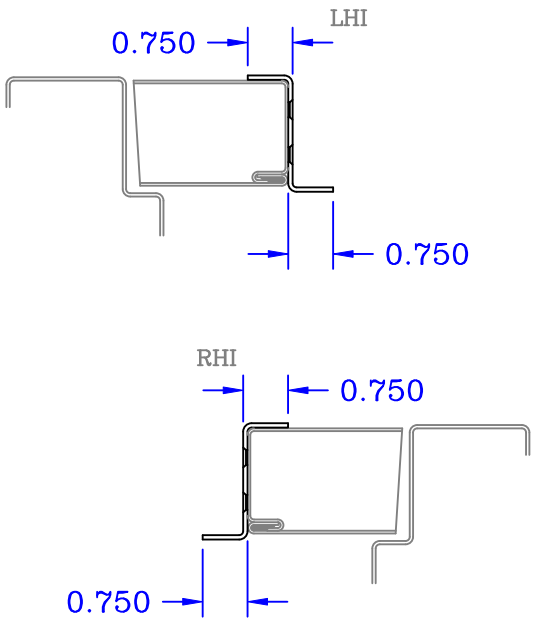
53909

See option ZAS on page O-6.7 for additional information

"Z" astragal, 14ga, ASA, 79 1/8", REVH, Primed



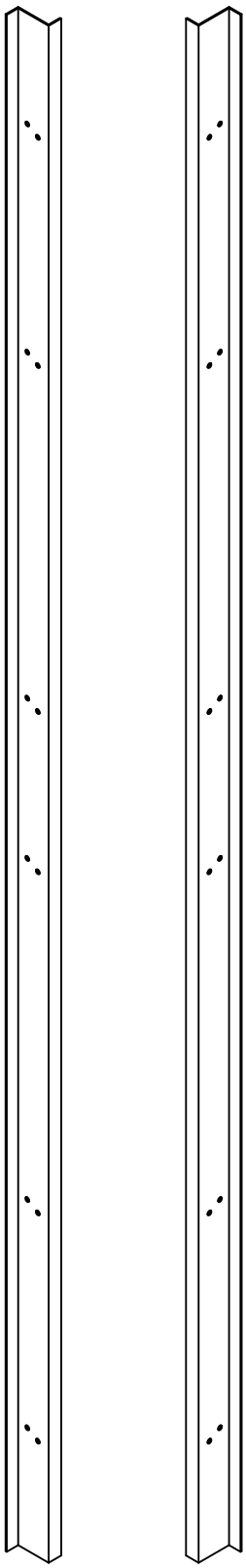
LHI RHI



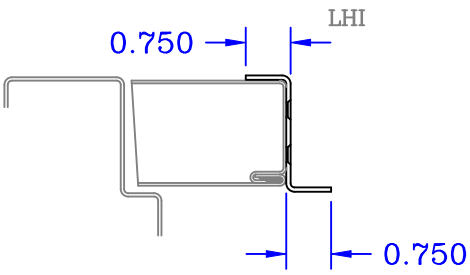
54811

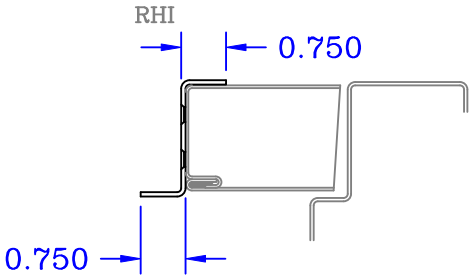
See option ZAS on page O-6.7 for additional information

"Z" astragal, 14ga, Inactive door, 79 1/8", REVH, Primed



LHI RHI

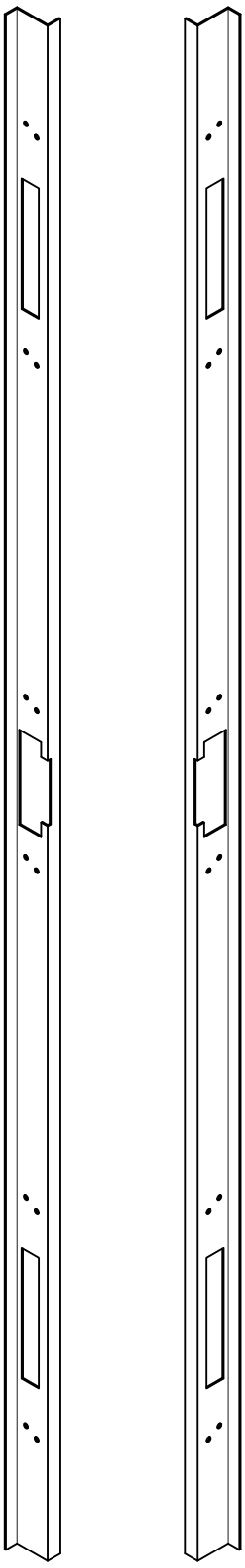




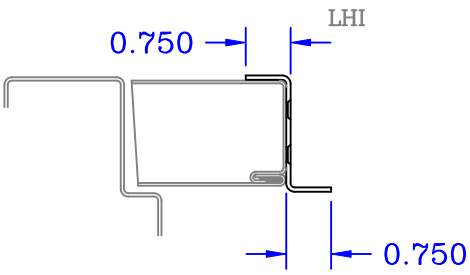
54812

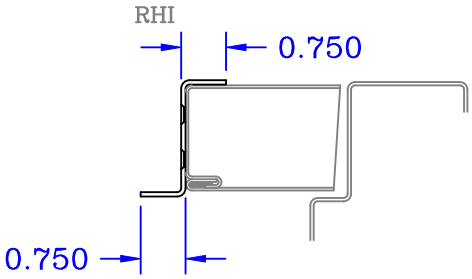
See option ZAS on page O-6.7 for additional information

"Z" astragal, 14ga, ASA+FB, 79 1/8", REVH, Primed



LHI RHI

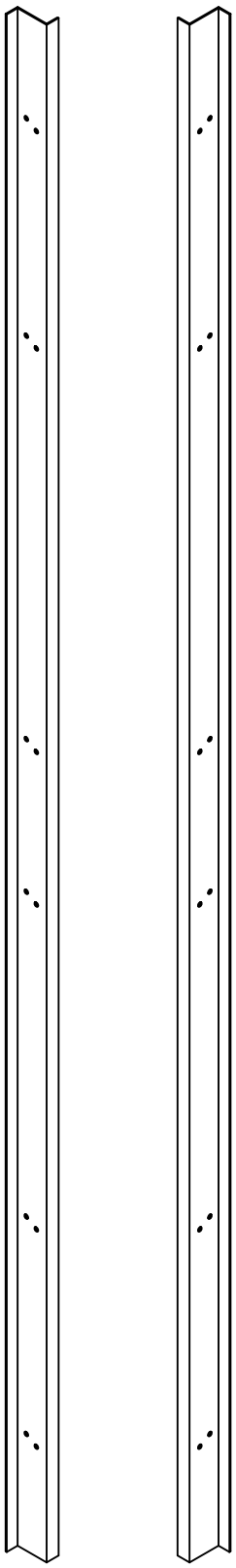


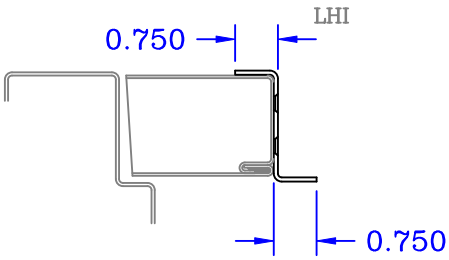


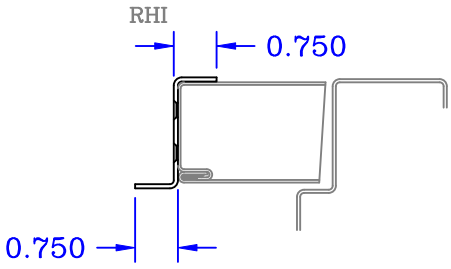
54813

See option ZAS on page O-6.7 for additional information

"Z" astragal, 14ga, Inactive door, 83 1/8", REVH, Primed





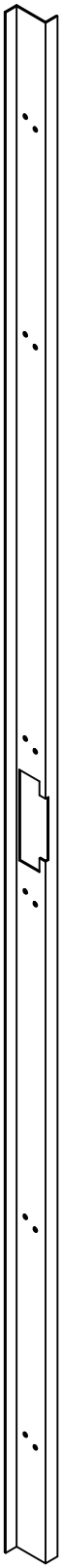


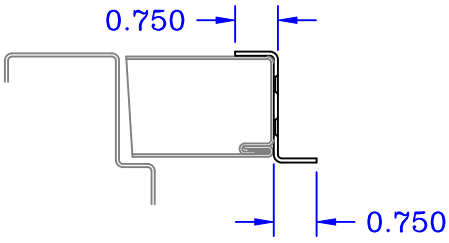
LHI RHI

See option ZAS on page O-6.7 for additional information

58414

"Z" astragal, 14ga, ASA, 83 1/8", LH, Primed

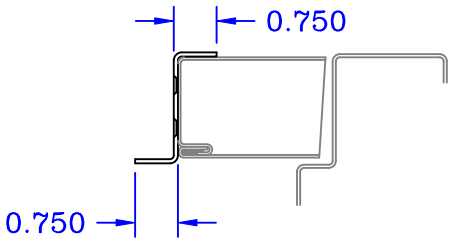




54815

See option ZAS on page O-6.7 for additional information

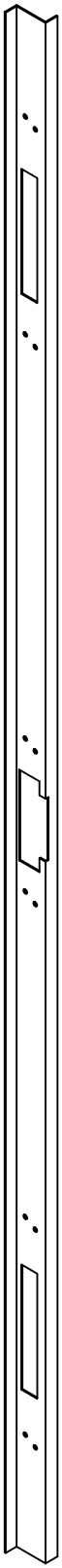
"Z" astragal, 14ga, ASA, 83 1/8", RH, Primed

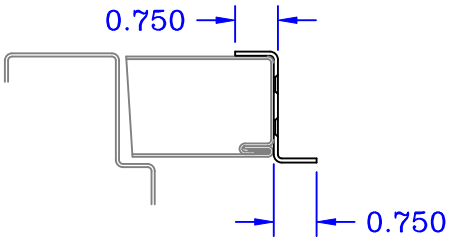


54816

See option ZAS on page O-6.7 for additional information

"Z" astragal, 14ga, ASA+FB, 83 1/8", LH, Primed

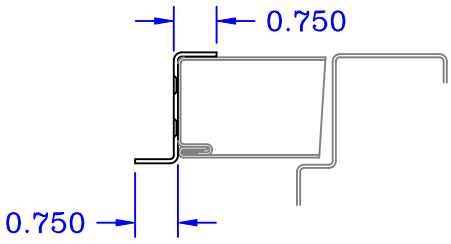




54817

See option ZAS on page O-6.7 for additional information

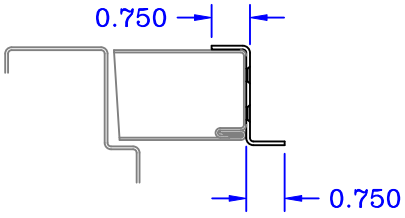
"Z" astragal, 14ga, ASA+FB, 83 1/8", RH, Primed



54818

See option ZAS on page O-6.7 for additional information

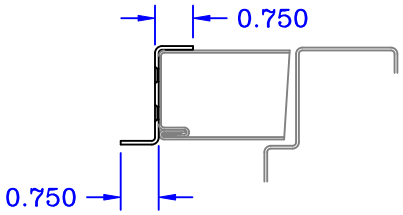
"Z" astragal, 14ga, ASA, 95 1/8", LH, Primed



54819

See option ZAS on page O-6.7 for additional information

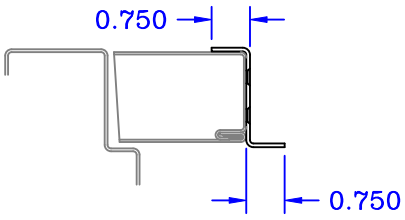
"Z" astragal, 14ga, ASA, 95 1/8", RH, Primed



54820

See option ZAS on page O-6.7 for additional information

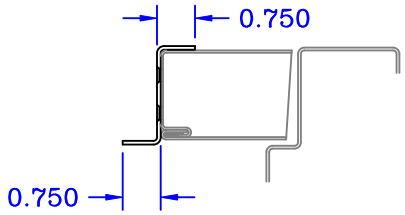
"Z" astragal, 14ga, ASA+FB, 95 1/8", LH, Primed



54821

See option ZAS on page O-6.7 for additional information

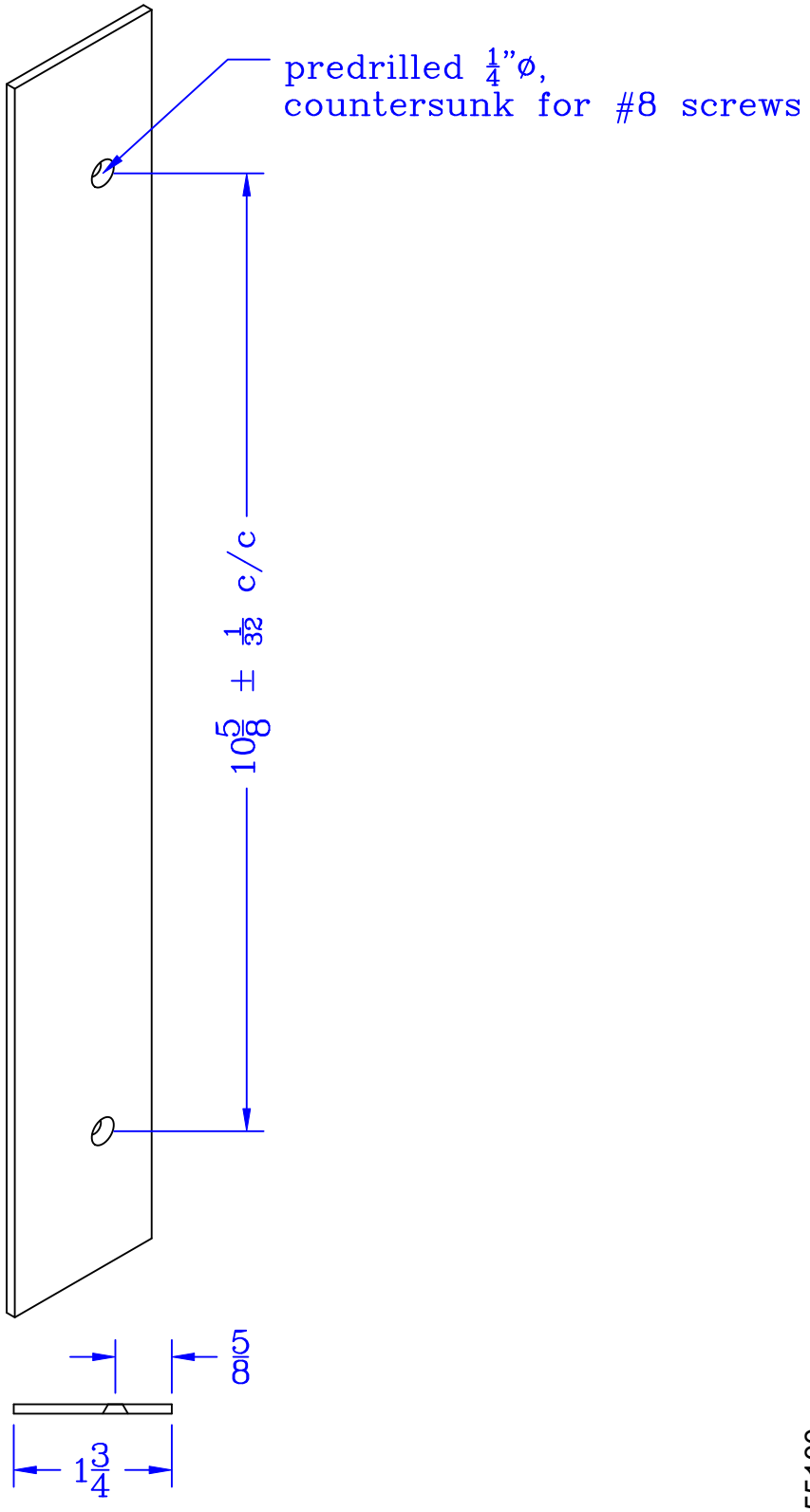
"Z" astragal, 14ga, ASA+FB, 95 1/8", RH, Primed



54822

See option ZAS on page O-6.7 for additional information

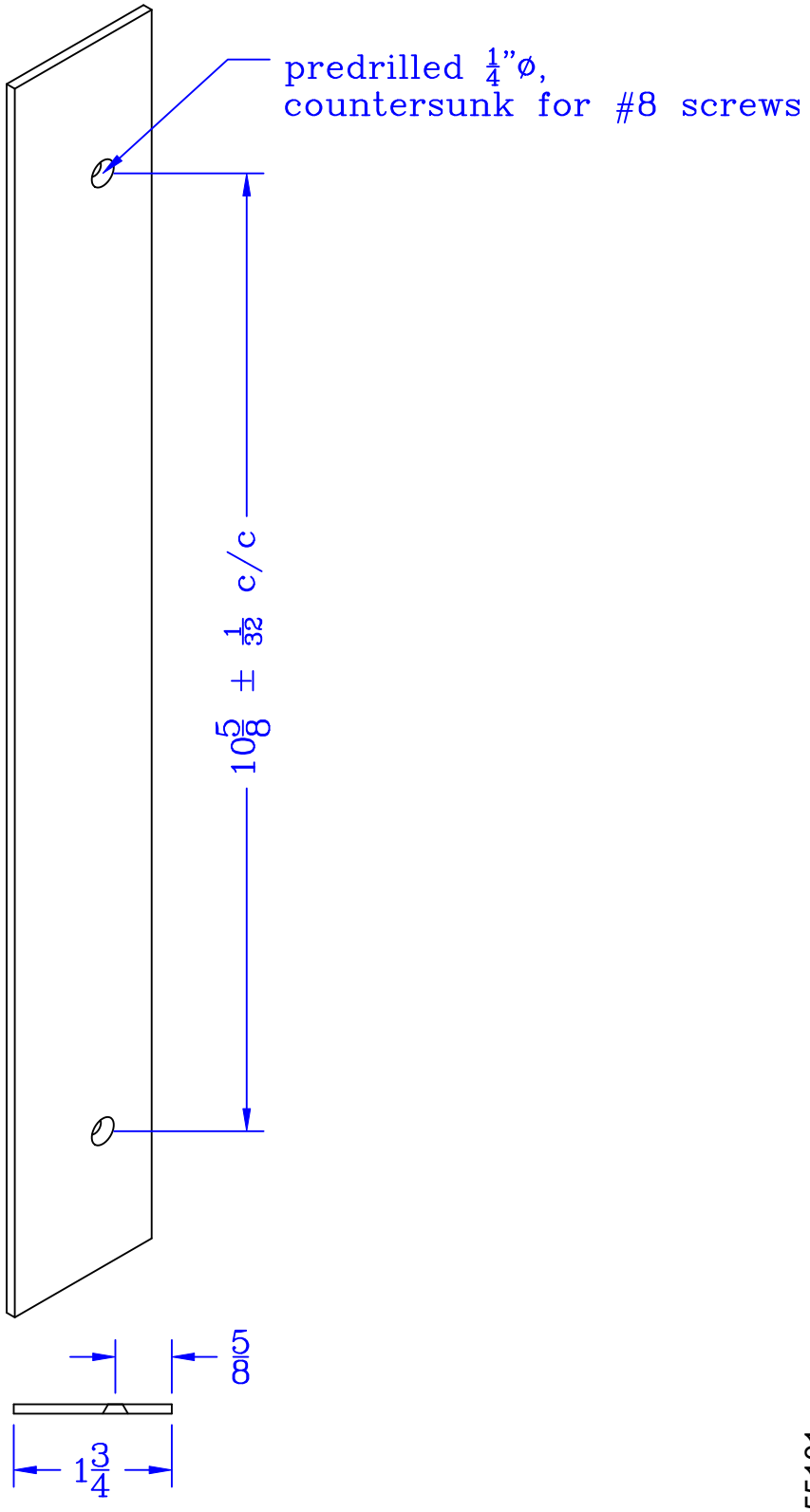
Flat bar astragal 120", 12ga



55100

See option FAS on page O-6.6 for additional information

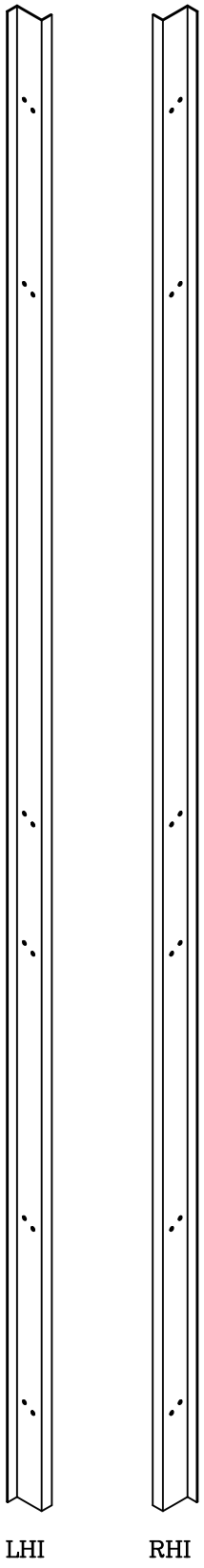
Flat bar astragal 120", 12ga, Primed

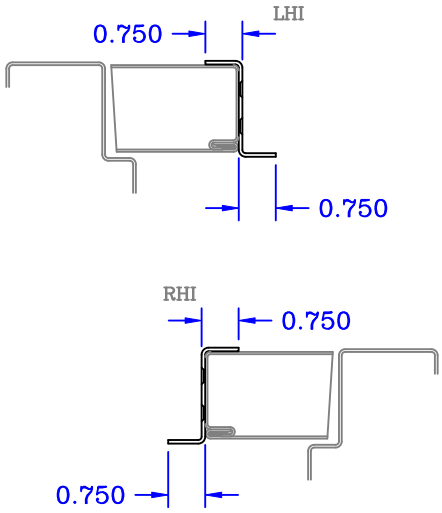


55101

See option FAS on page O-6.6 for additional information

"Z" astragal, 14ga, Inactive door, 95 1/8", REVH

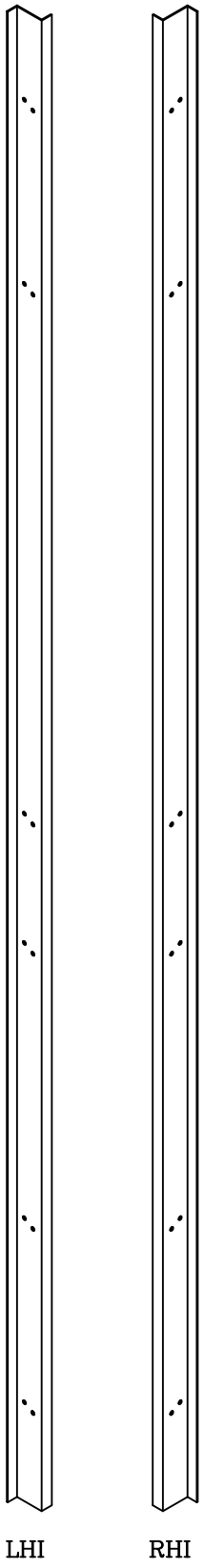


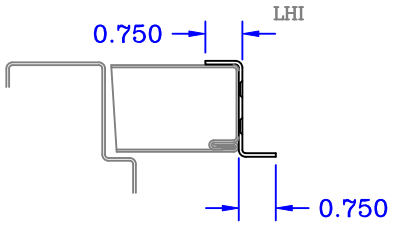


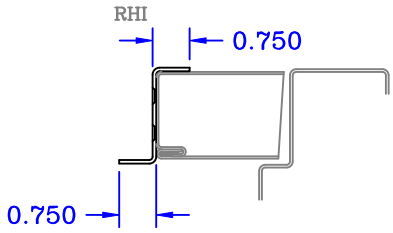
55116

See option ZAS on page O-6.7 for additional information

"Z" astragal, 14ga, Inactive door, 95 1/8", REVH, Primed



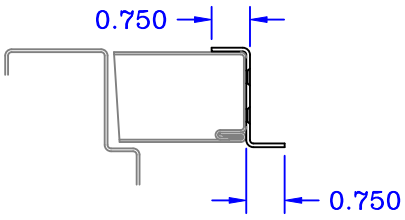




56812

See option ZAS on page O-6.7 for additional information

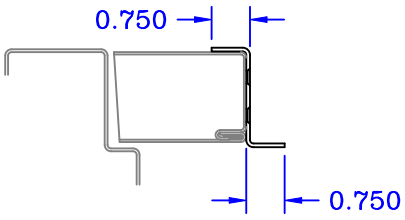
"Z" astragal, 14ga, ASA+FB(24"top), 95 1/8", LH



56815

See option ZAS on page O-6.7 for additional information

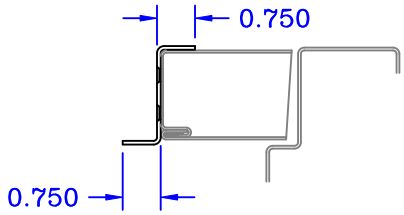
"Z" astragal, 14ga, ASA+FB(24"top), 95 1/8", LH, Primed



56816

See option ZAS on page O-6.7 for additional information

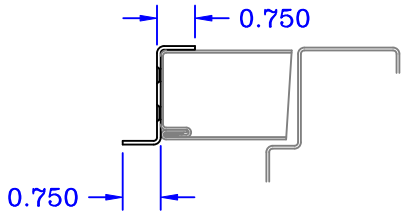
"Z" astragal, 14ga, ASA+FB(24" top), 95 1/8", RH



56819

See option ZAS on page O-6.7 for additional information

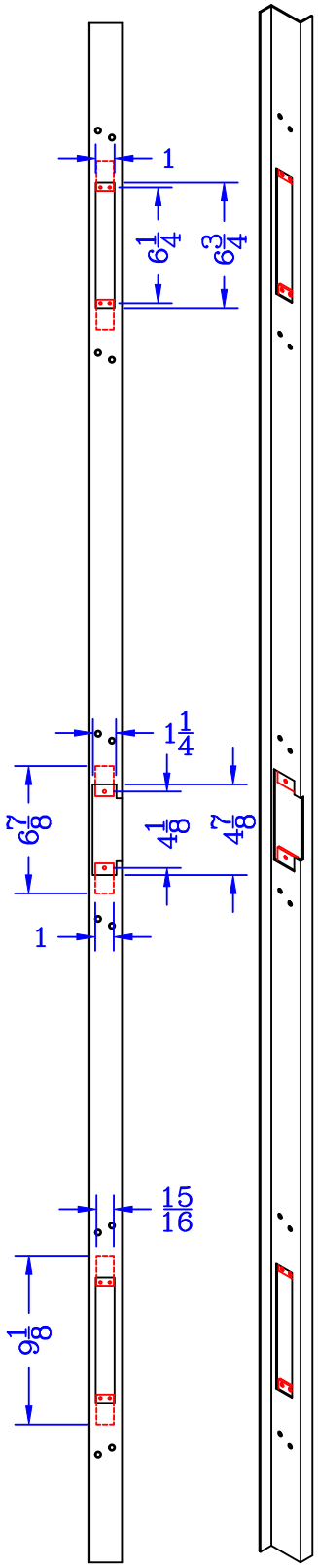
"Z" astragal, 14ga, ASA+FB(24" top), 95 1/8", RH, Primed

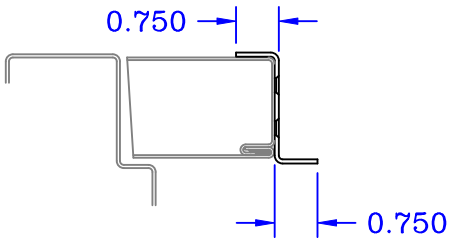


56820

See option ZAS on page O-6.7 for additional information

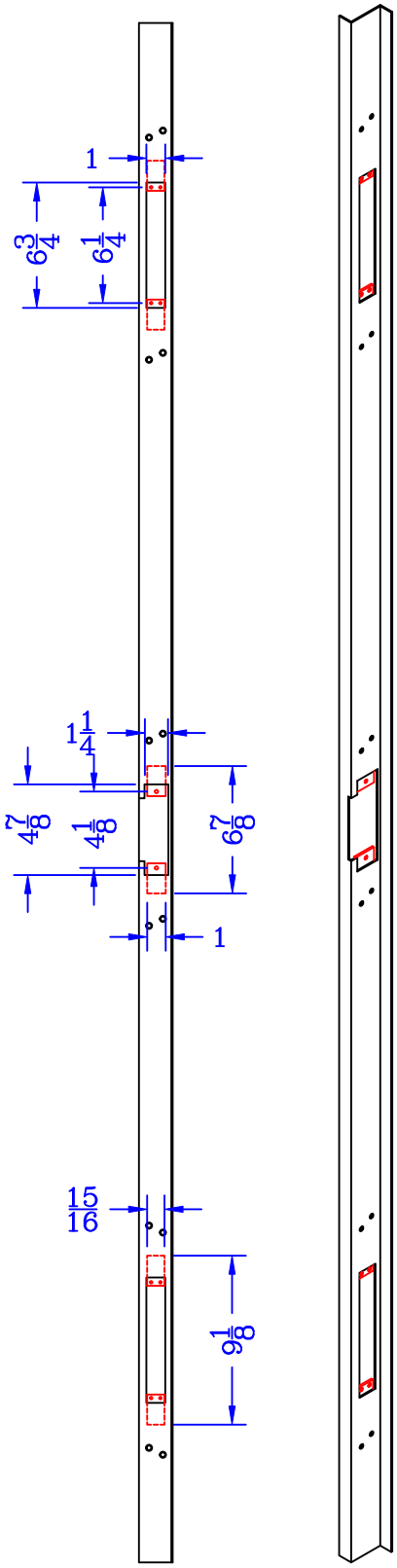
"Z" astragal, 14ga, ASA+FB, 83 1/8", LH, with reinforcements

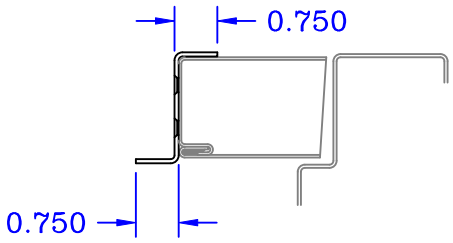




See option ZAS on page O-6.7 for additional information

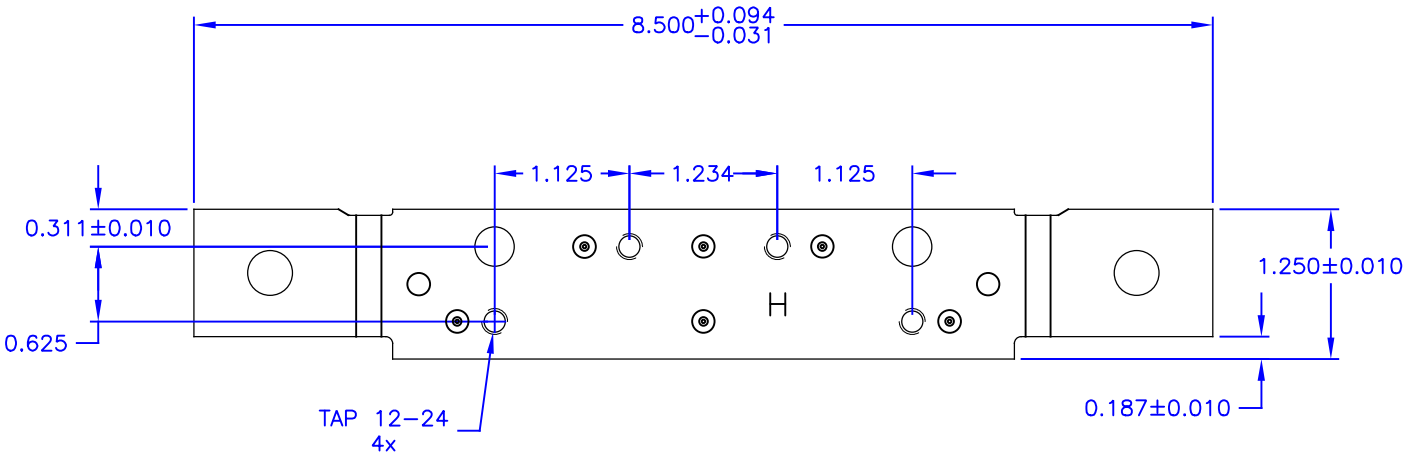
"Z" astragal, 14ga, ASA+FB, 83 1/8", RH, with reinforcements

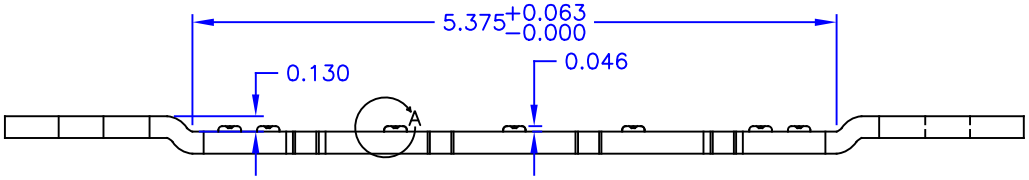


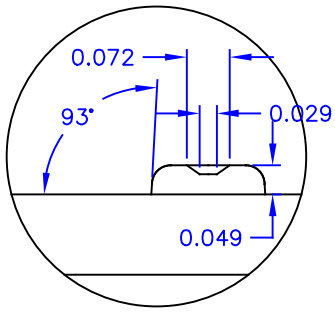


See option ZAS on page O-6.7 for additional information

4 1/2" standard weight hinge reinforcement (0.134), 7ga





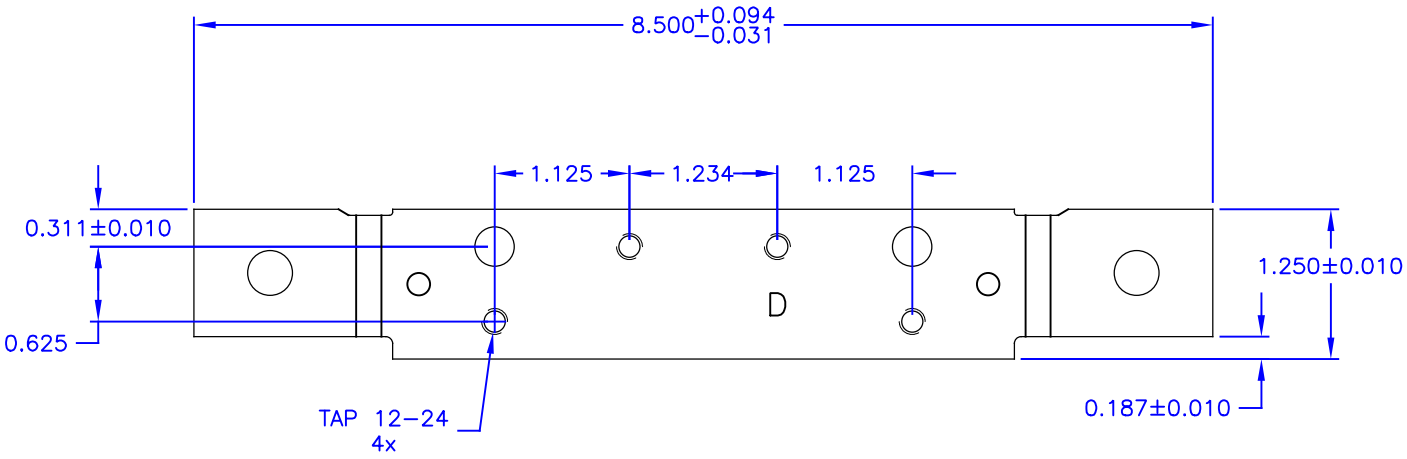


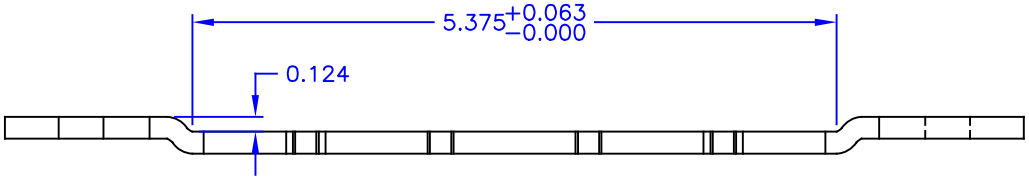
DETAIL A

56514

See option 45S on page O-12.1 for additional information

4 1/2" heavy weight hinge reinforcement (0.180), 7ga

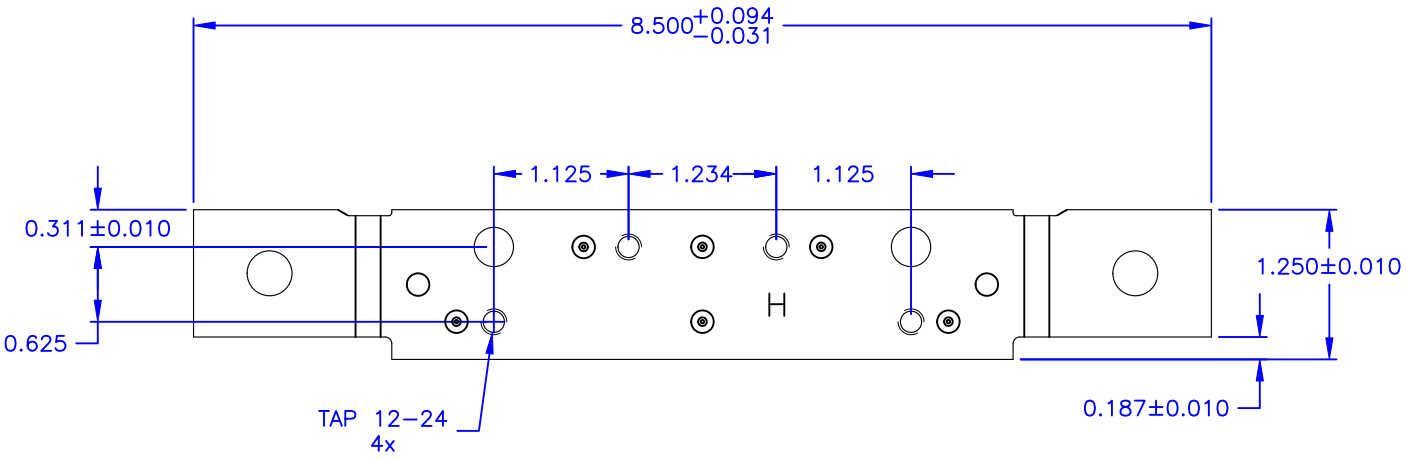


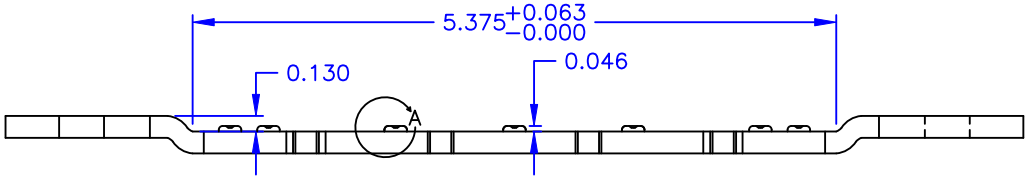


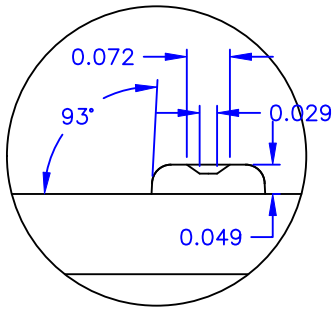
56512

See option 45H on page O-12.2 for additional information

4 1/2" convertible hinge reinforcement (0.134/0.180), 7ga

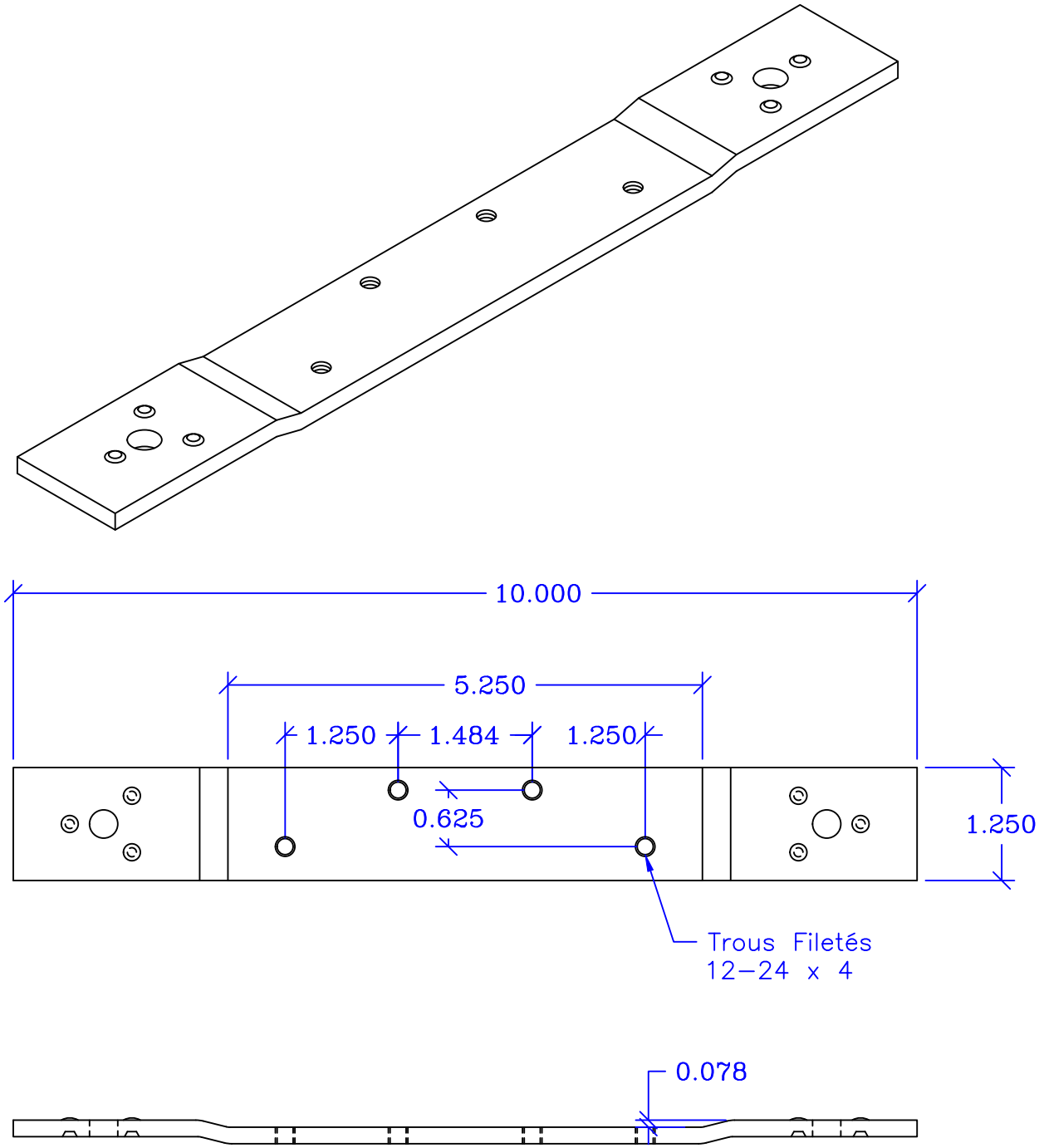






DETAIL A

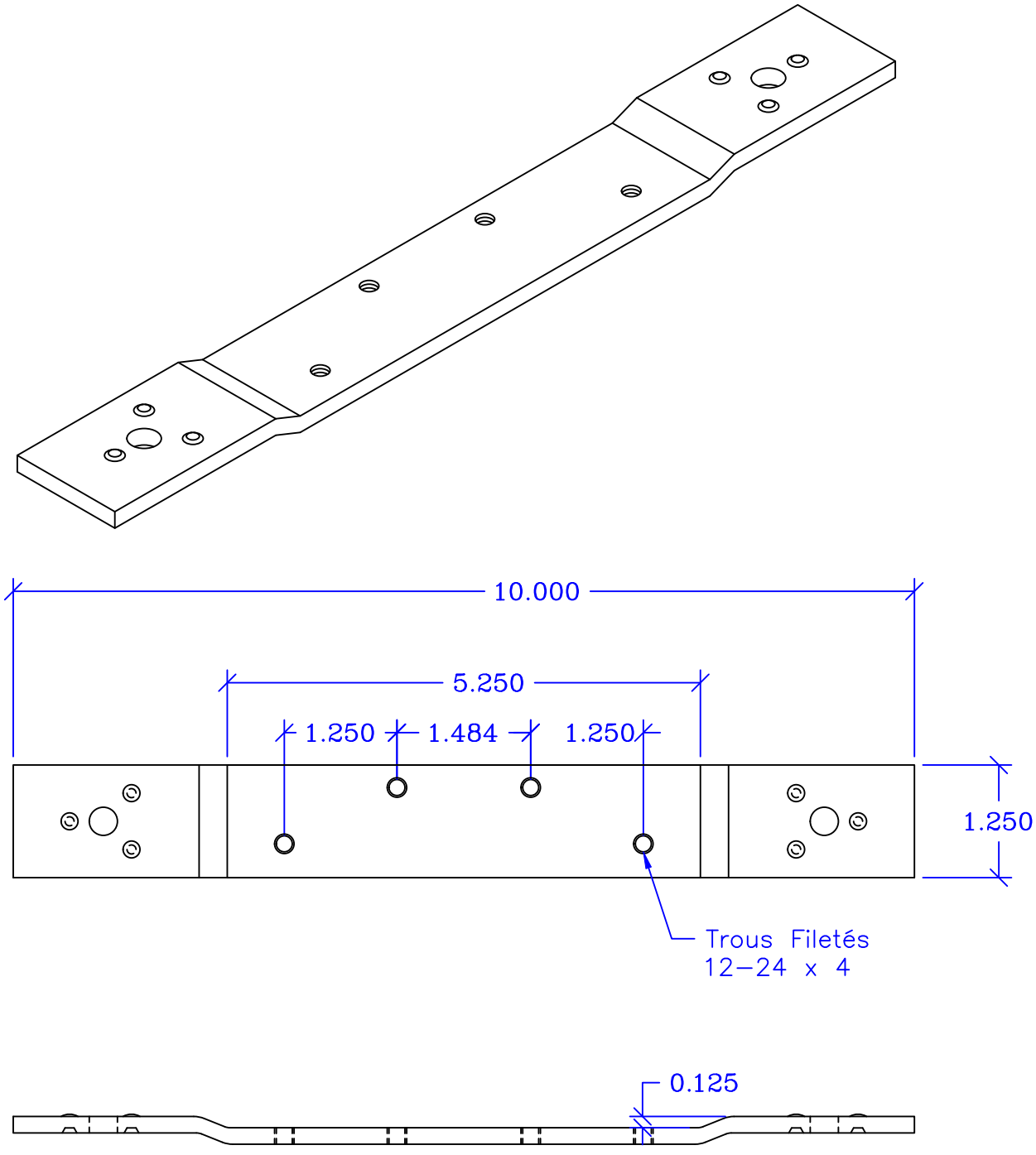
5" standard weight hinge reinforcement (0.146), 7ga



03105

See option 50S on page O-12.3 for additional information

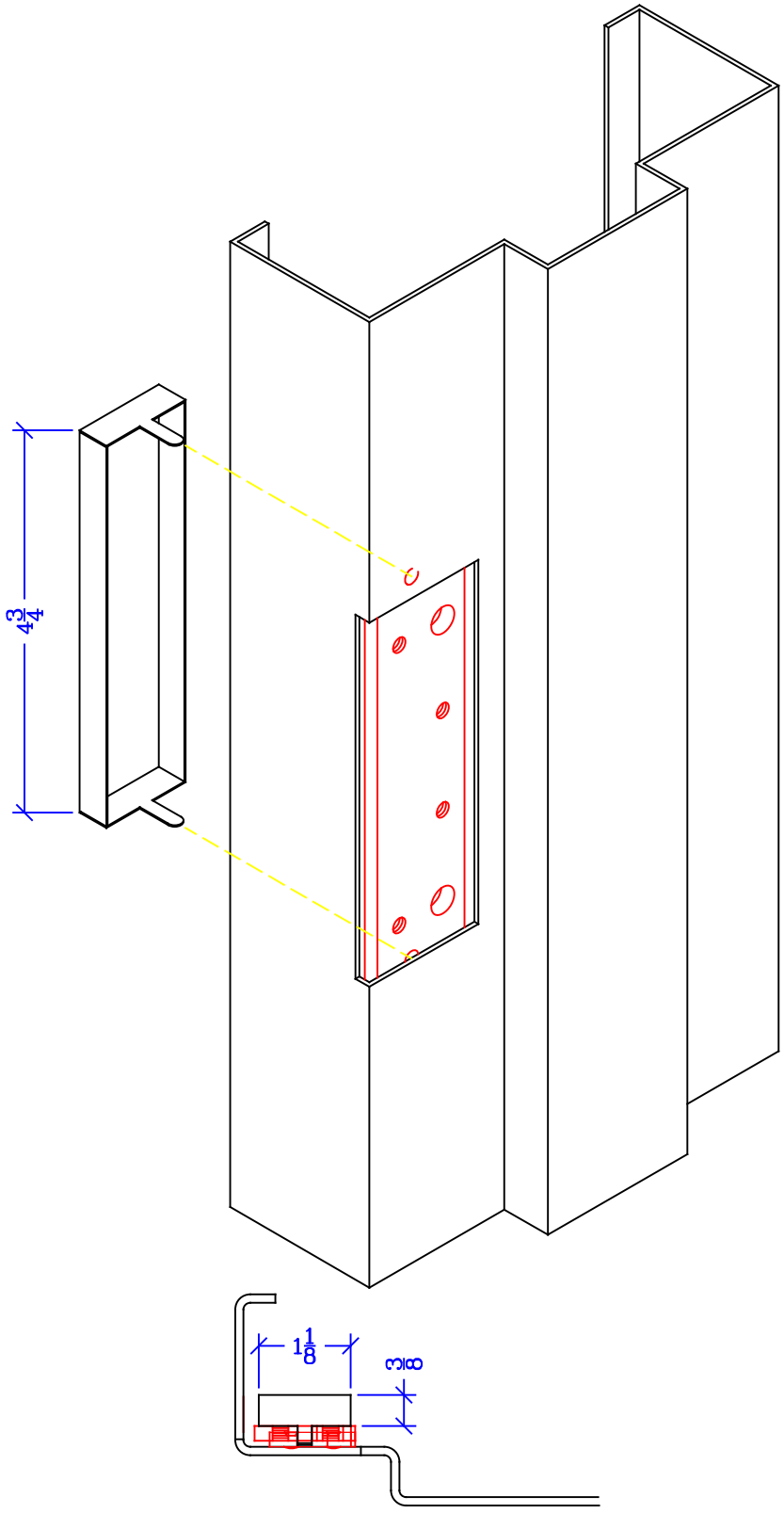
5" heavy weight hinge reinforcement (0.190), 7ga



03104

See option 50H on page O-12.4 for additional information

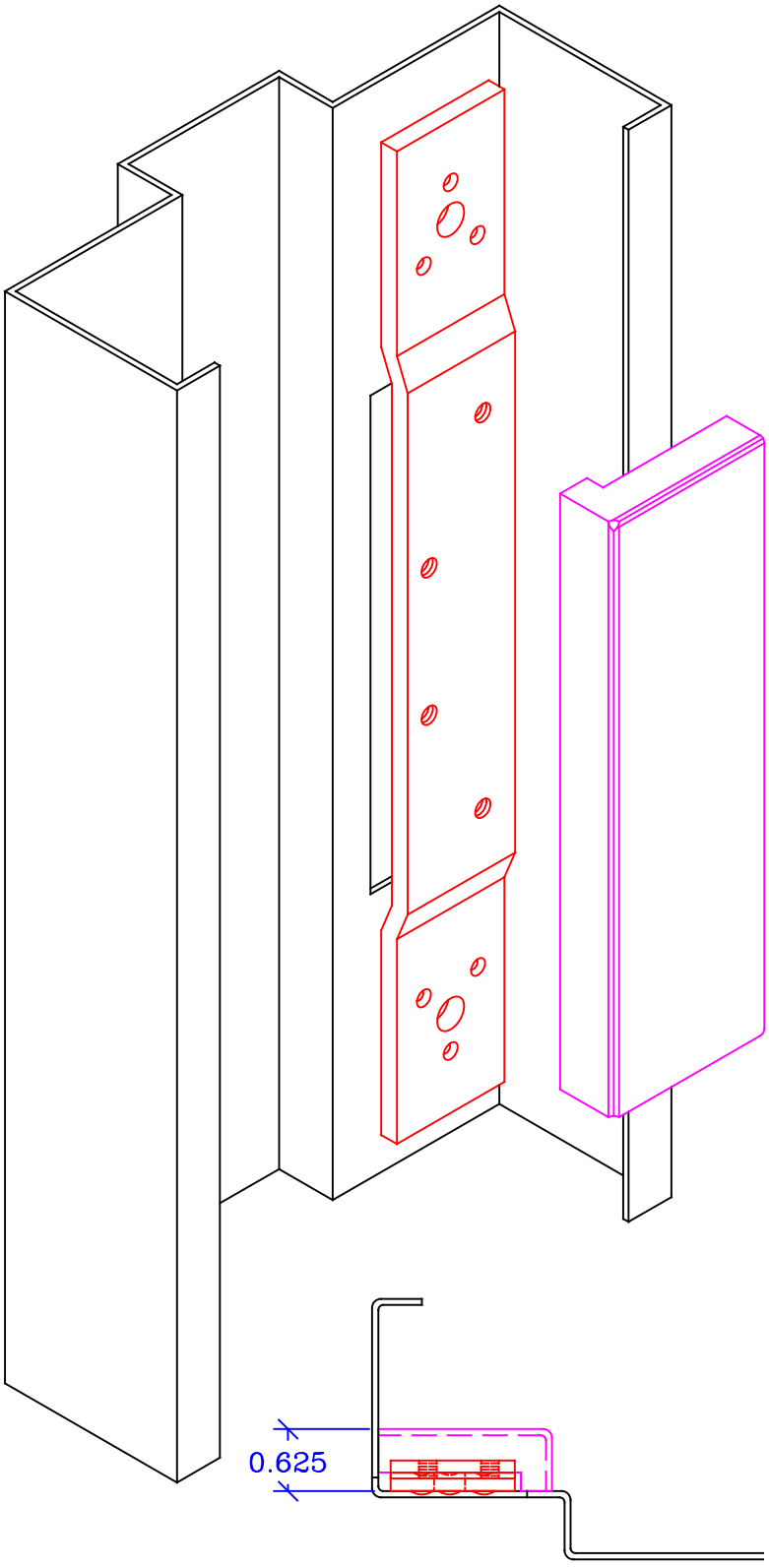
Mortar guard for 4 1/2" hinge, 26ga



by default at masonry frame with TMA, WMA or ATMA

36927

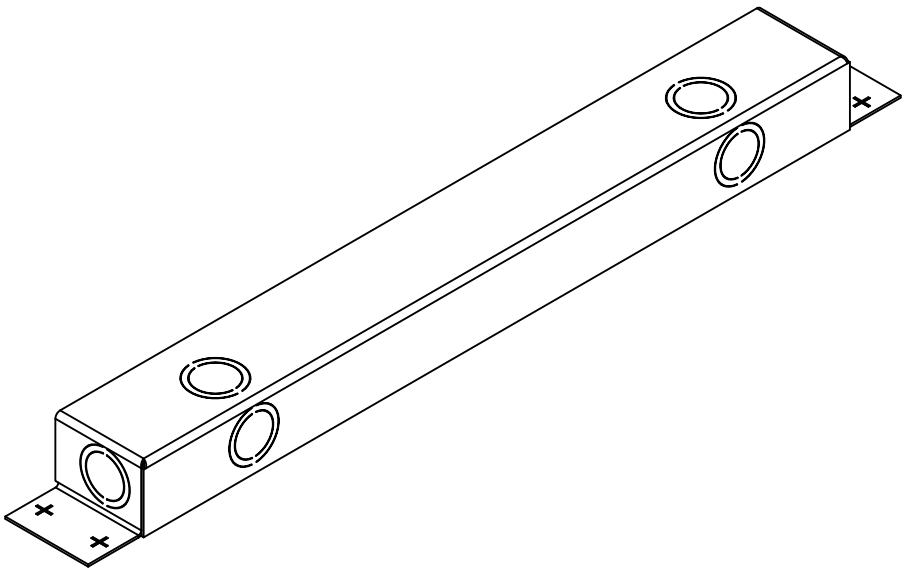
Mortar guard for 5" hinge, 18ga

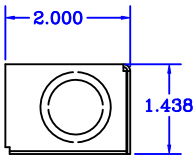


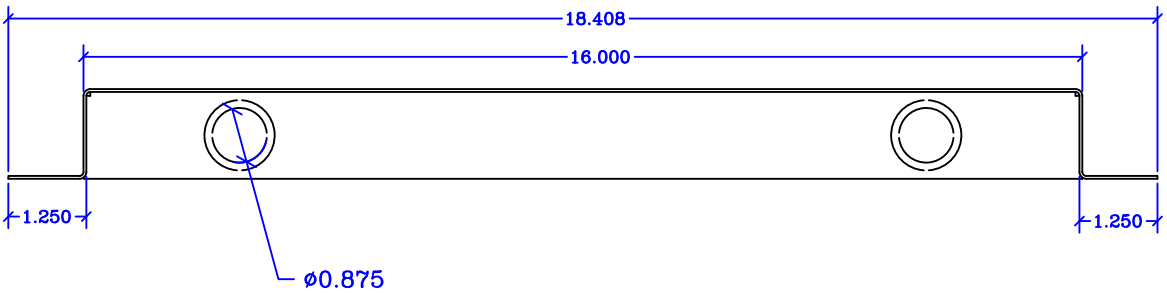
00499

by default at masonry frame with TMA, WMA or ATMA

Electric box for Electric Hinge, 16ga

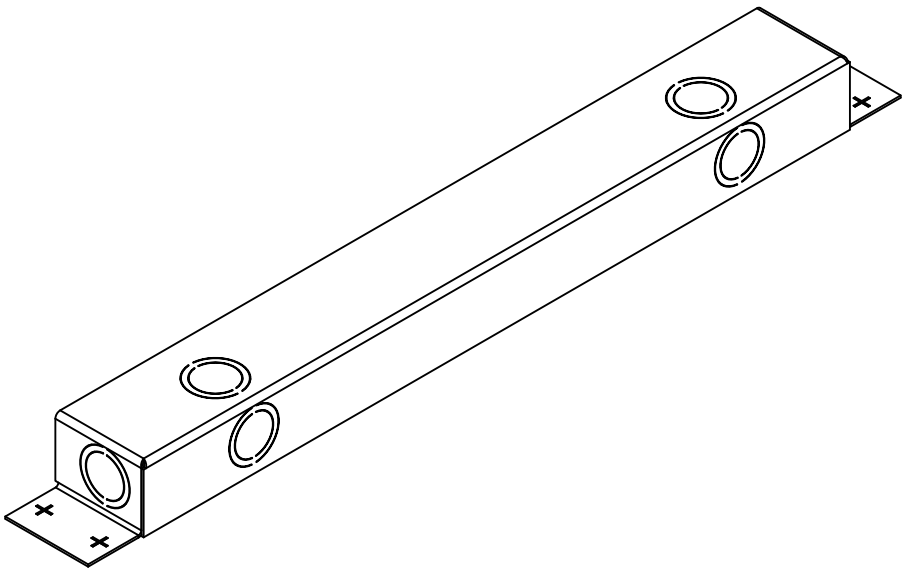


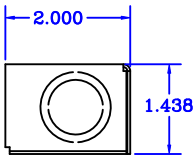


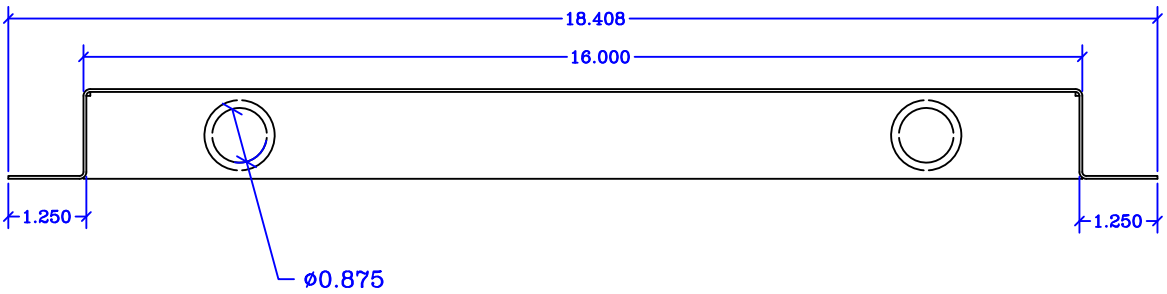


66464

Electric box for EPT, 16ga

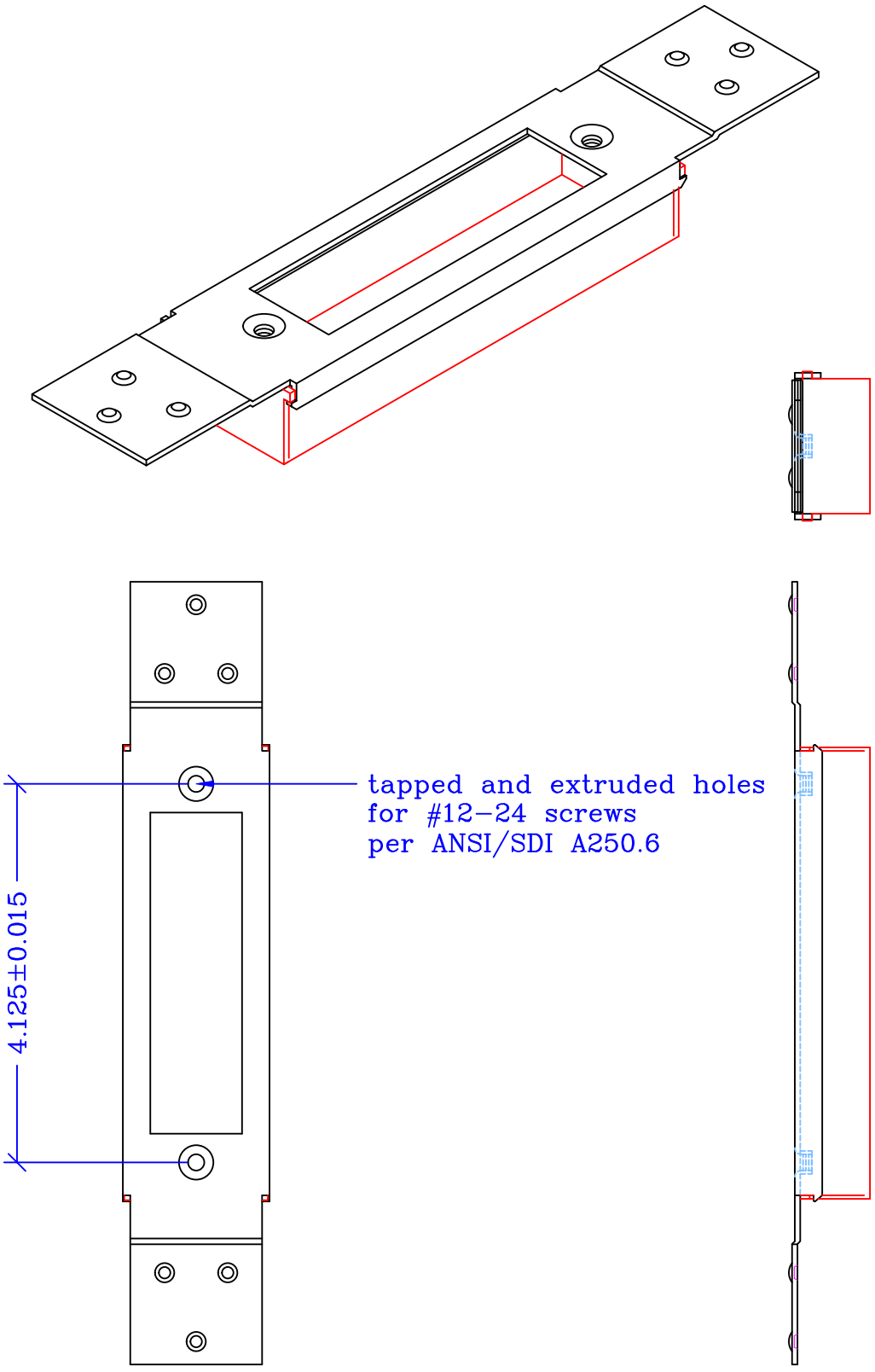






58246

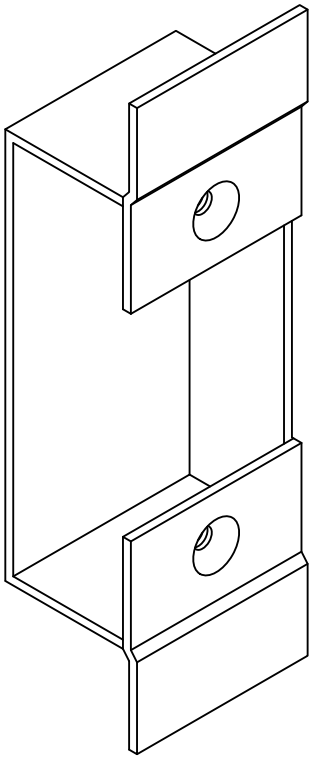
Standard ANSI 4 7/8" strike reinforcement, 16ga

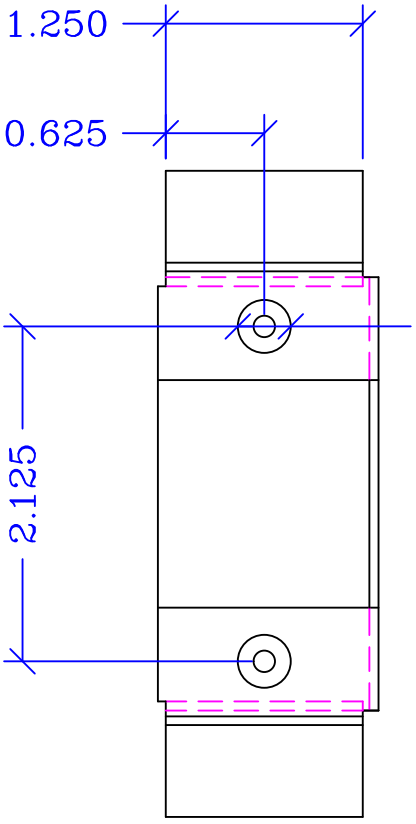


00606

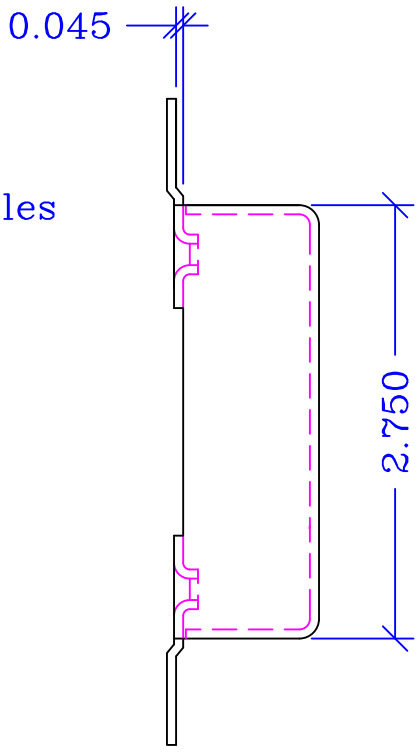
See option ASA on page O-13.6 for additional information

Standard 2 3/4" strike reinforcement, 16ga





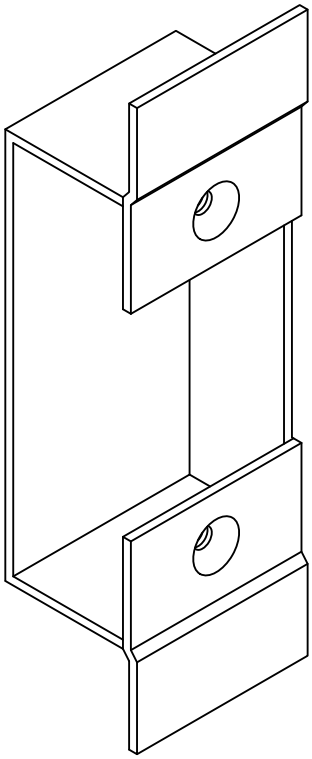
tapped and extruded holes
for #8-32 screws
per ANSI/SDI A250.6

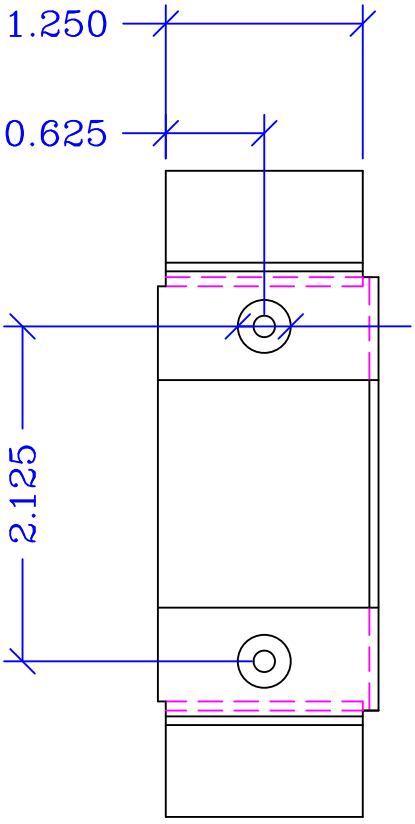


00832

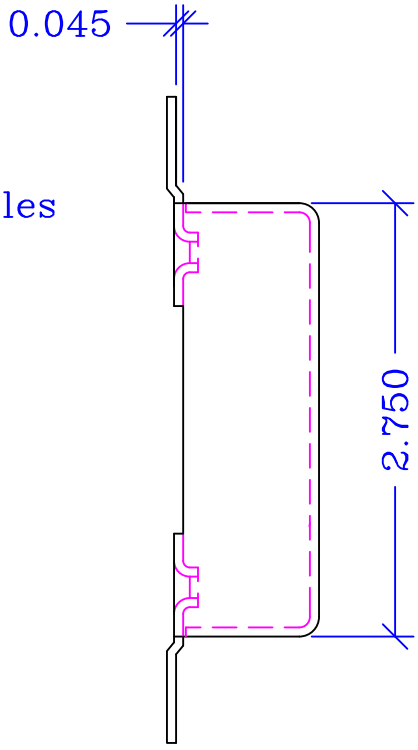
See option T on page O-13.10 for additional information

Deadlock strike reinforcement, 16ga





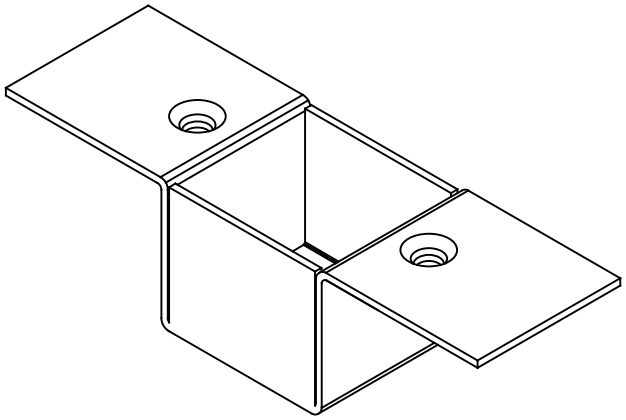
tapped and extruded holes
for #8-32 screws
per ANSI/SDI A250.6

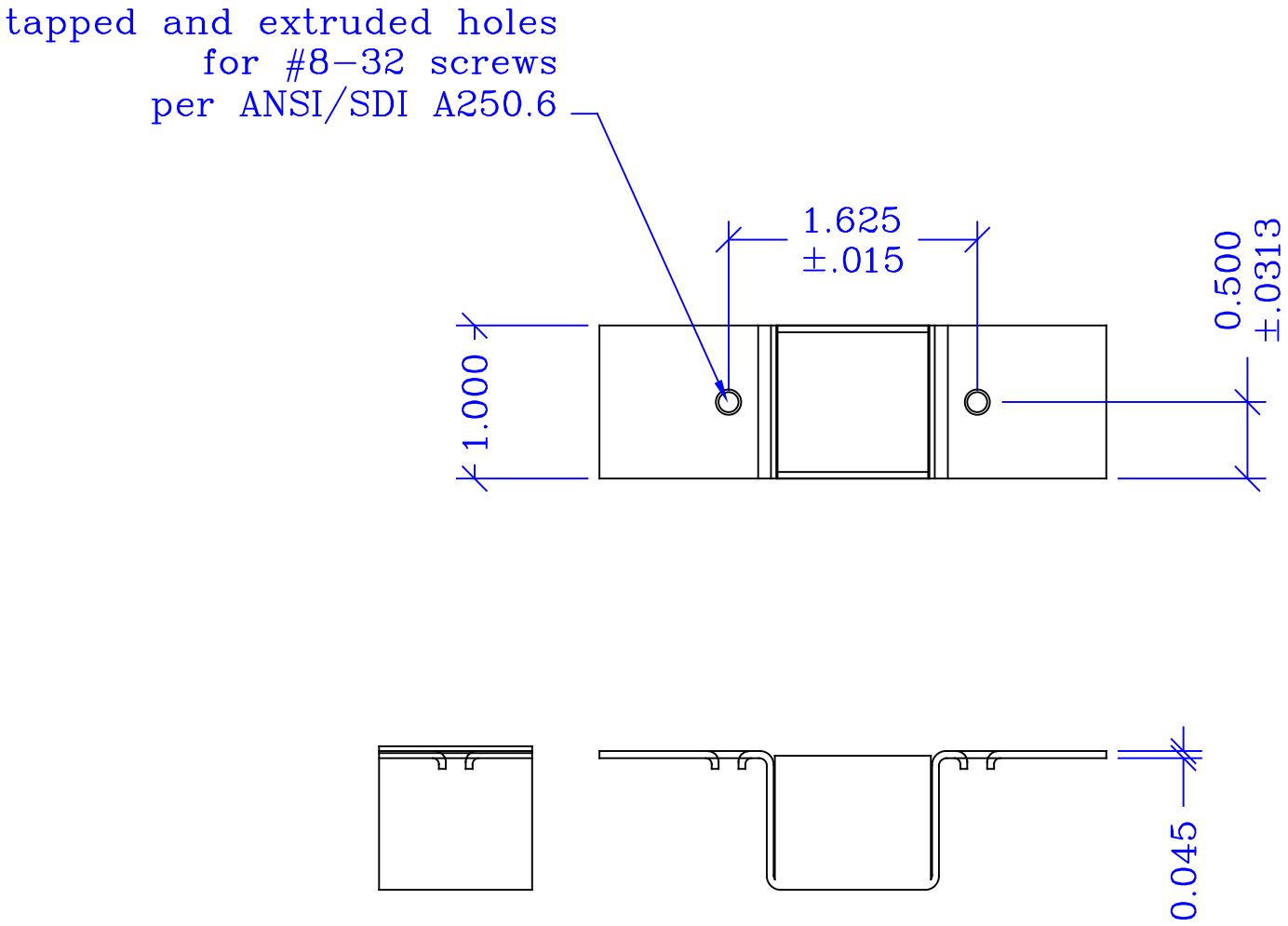


00832

See option DL234 on page O-13.11 for additional information

ANSI A156-16 flush bolt reinforcement, 16ga

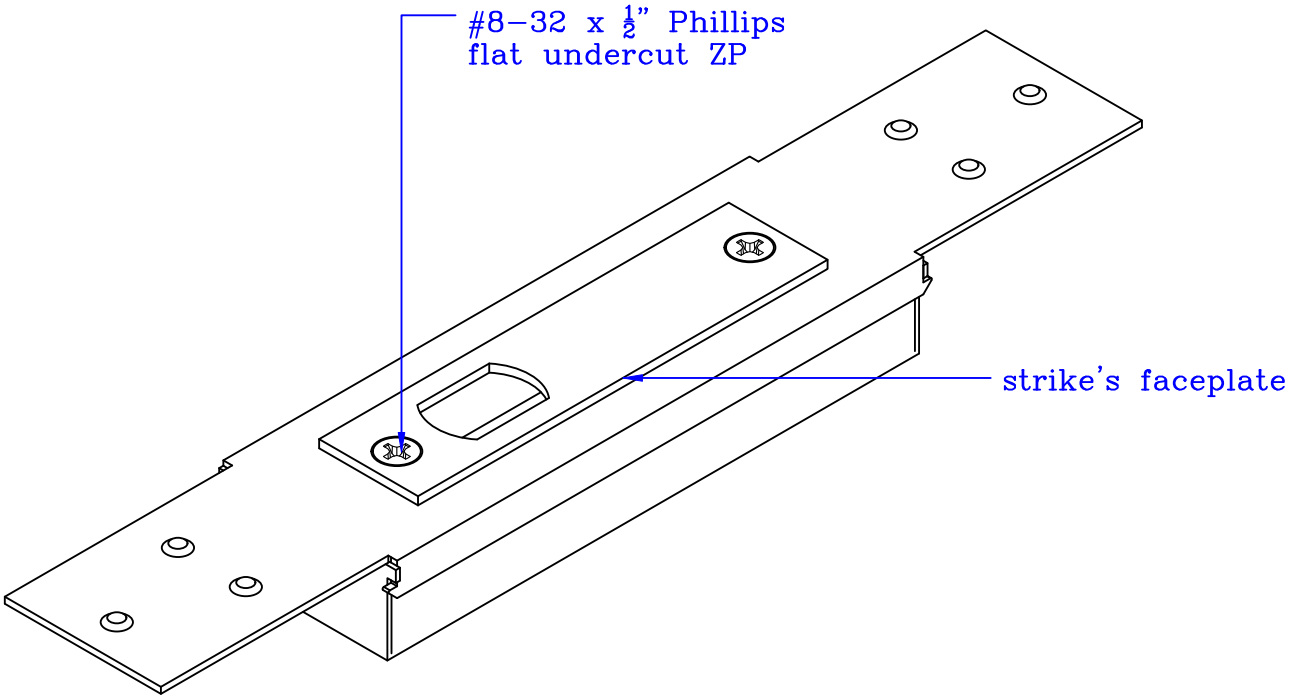


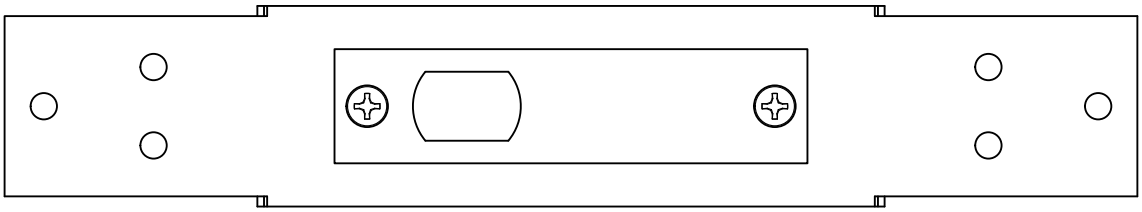


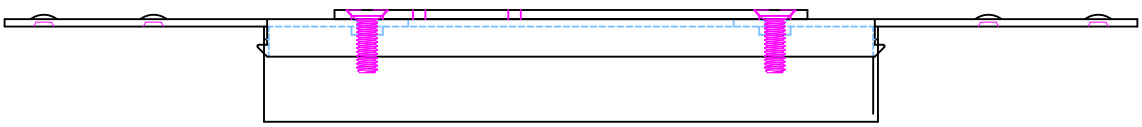
00509

See option FBS on page O-13.26 for additional information

Reversible flush bolt reinforcement, 16ga



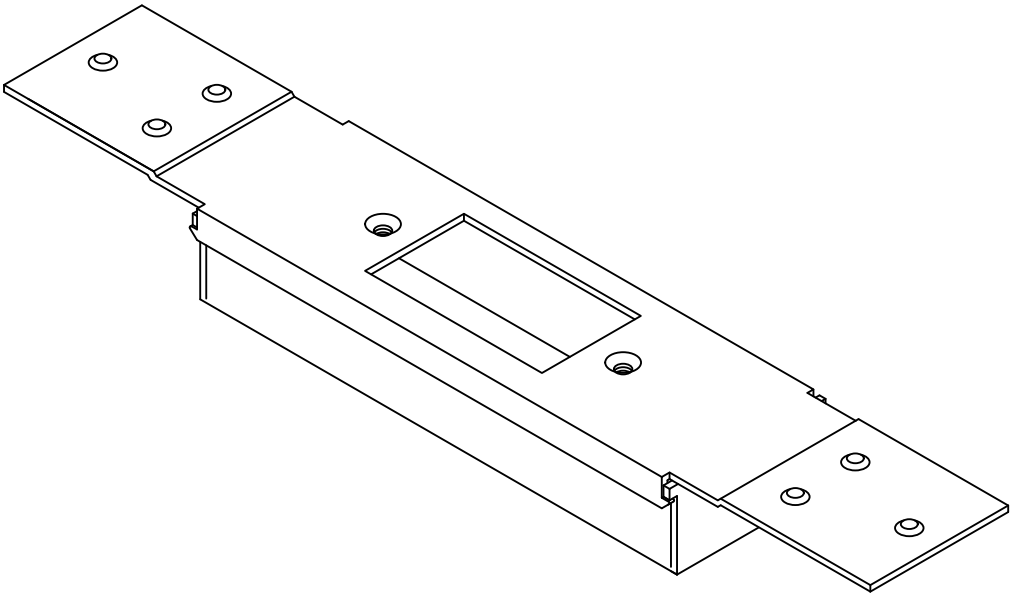


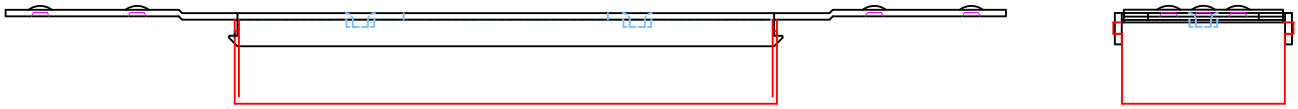


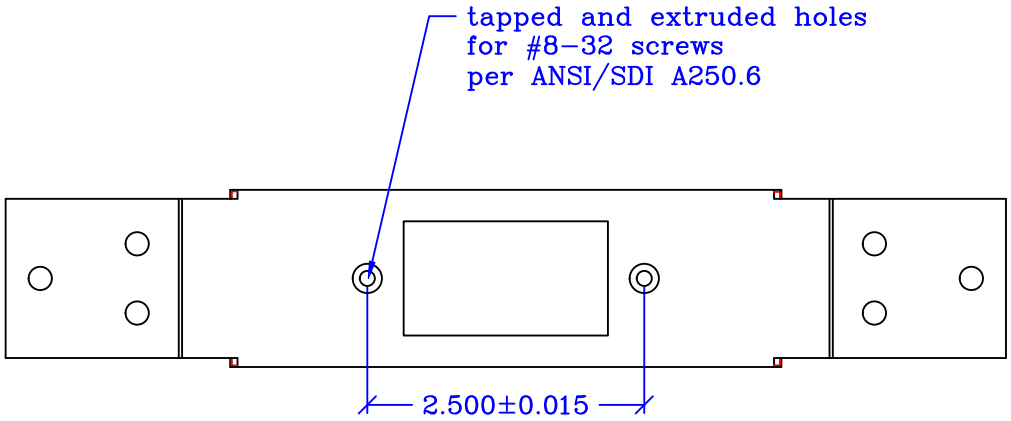
00854

See option RFBS on page O-13.27 for additional information

3 1/2" mortise deadlock strike reinforcement, 16ga



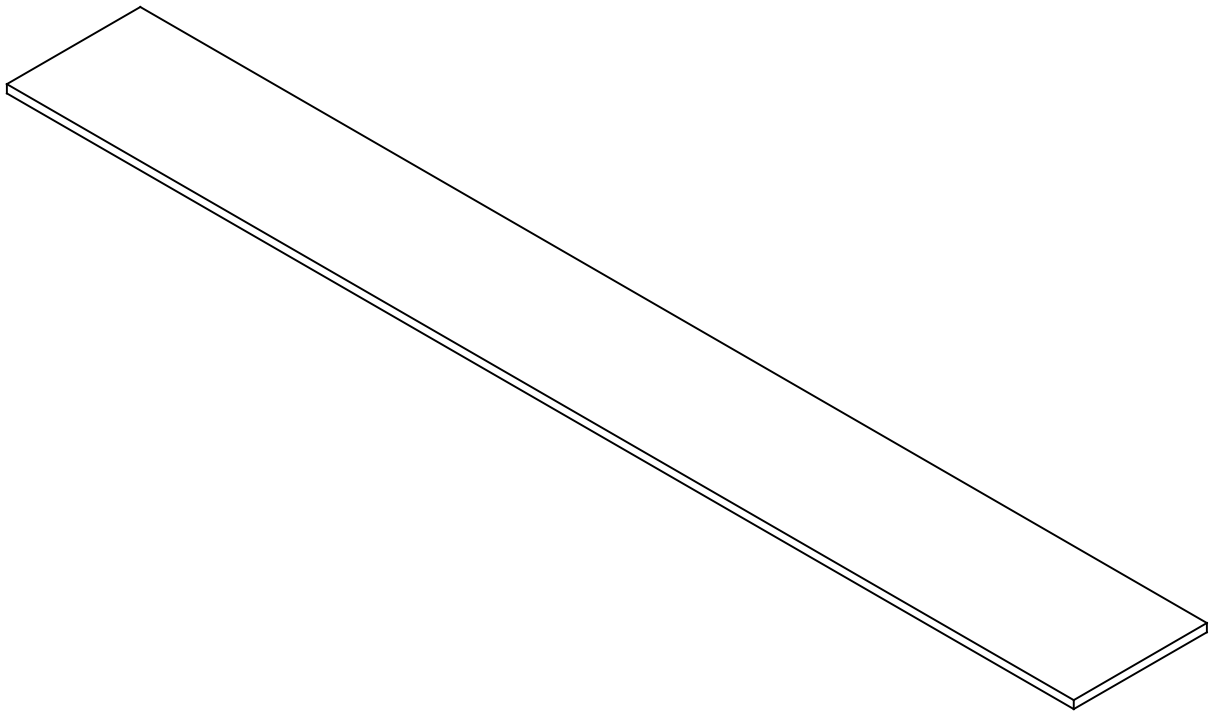


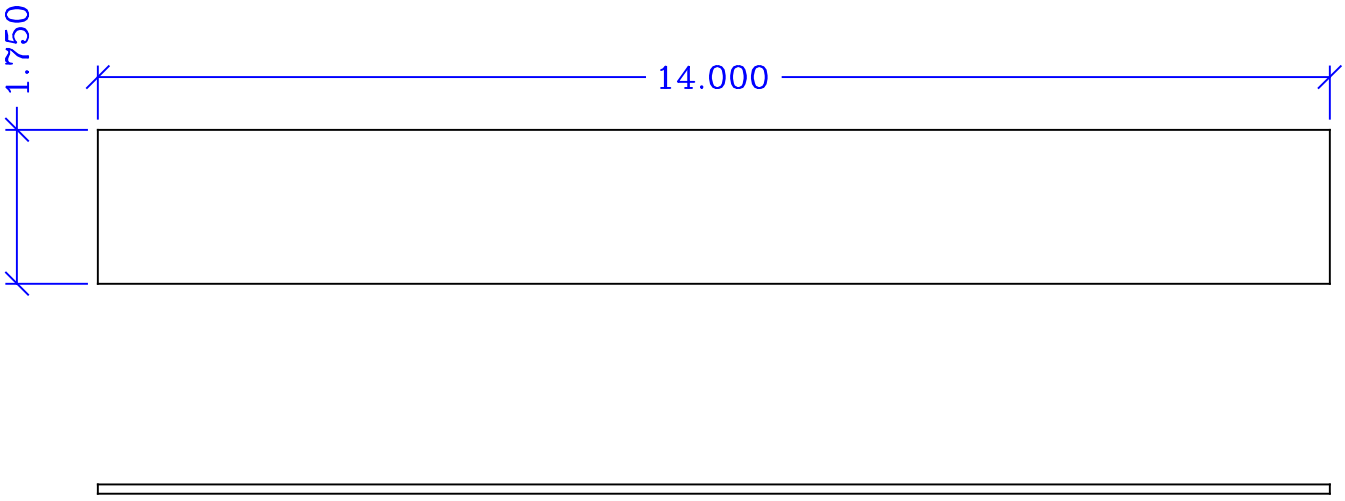


00711

See option DL312 on page O-13.13 for additional information

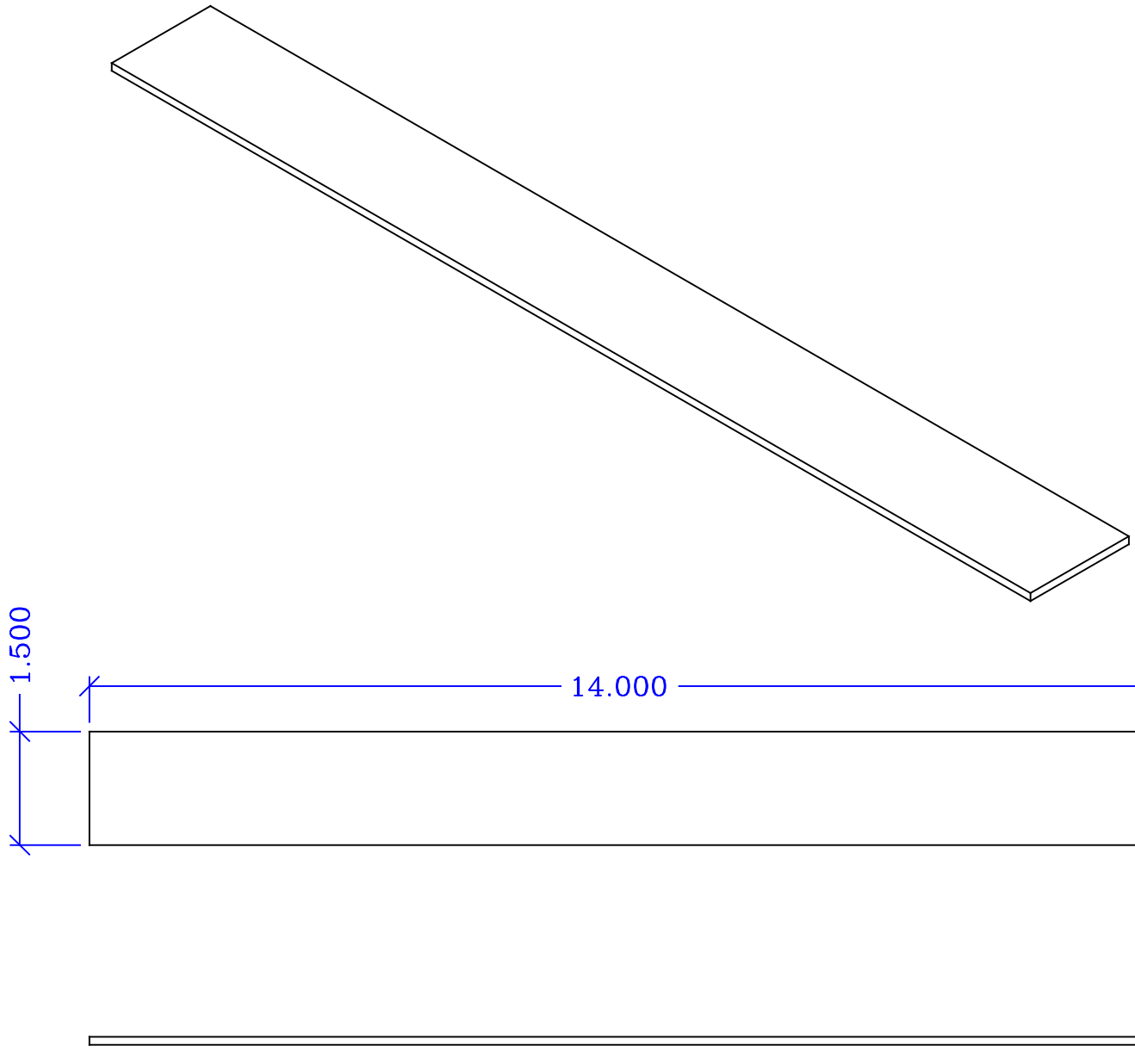
Closer reinforcement, 12ga





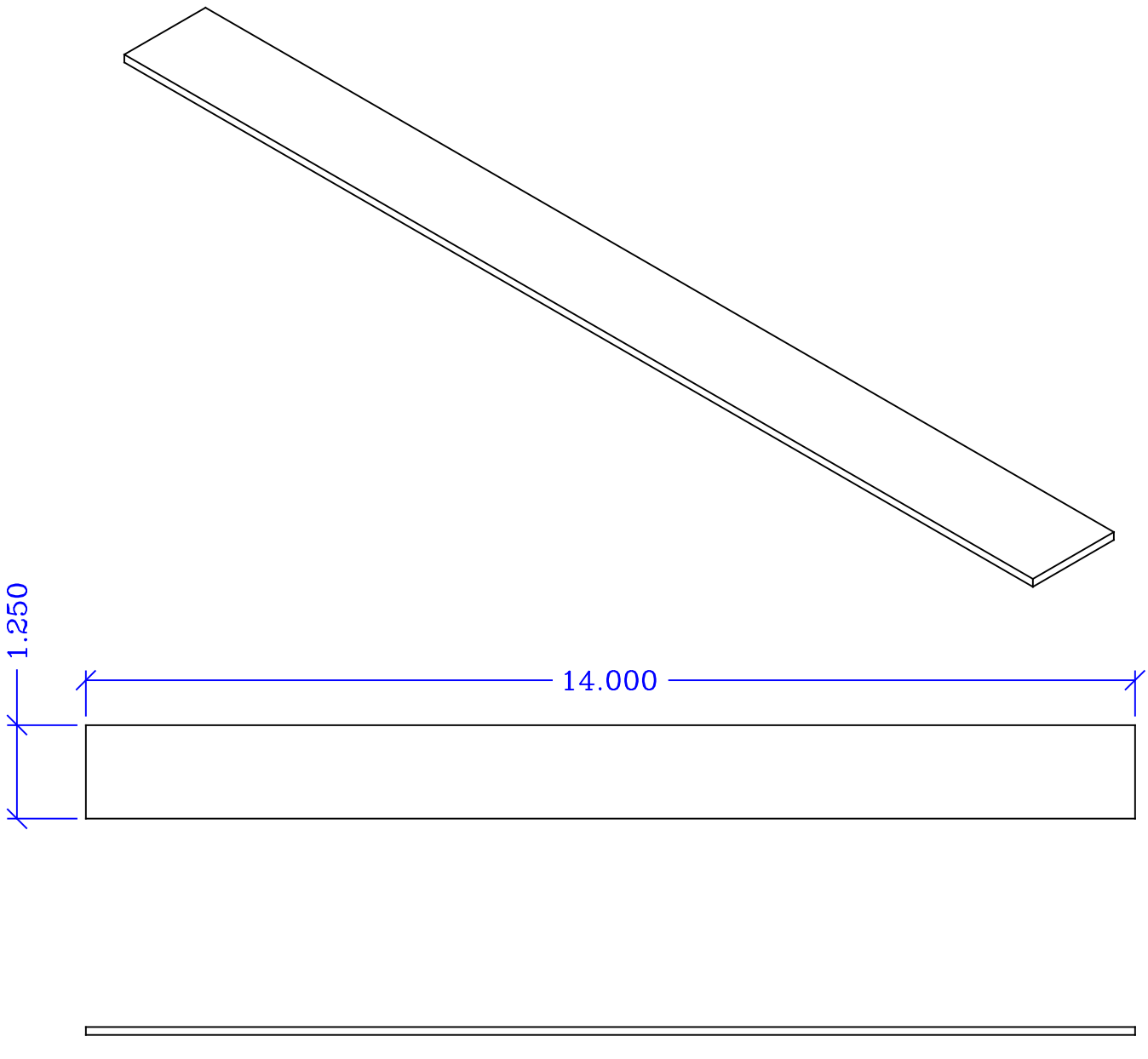
00690

Closer reinforcement, 12ga



00691

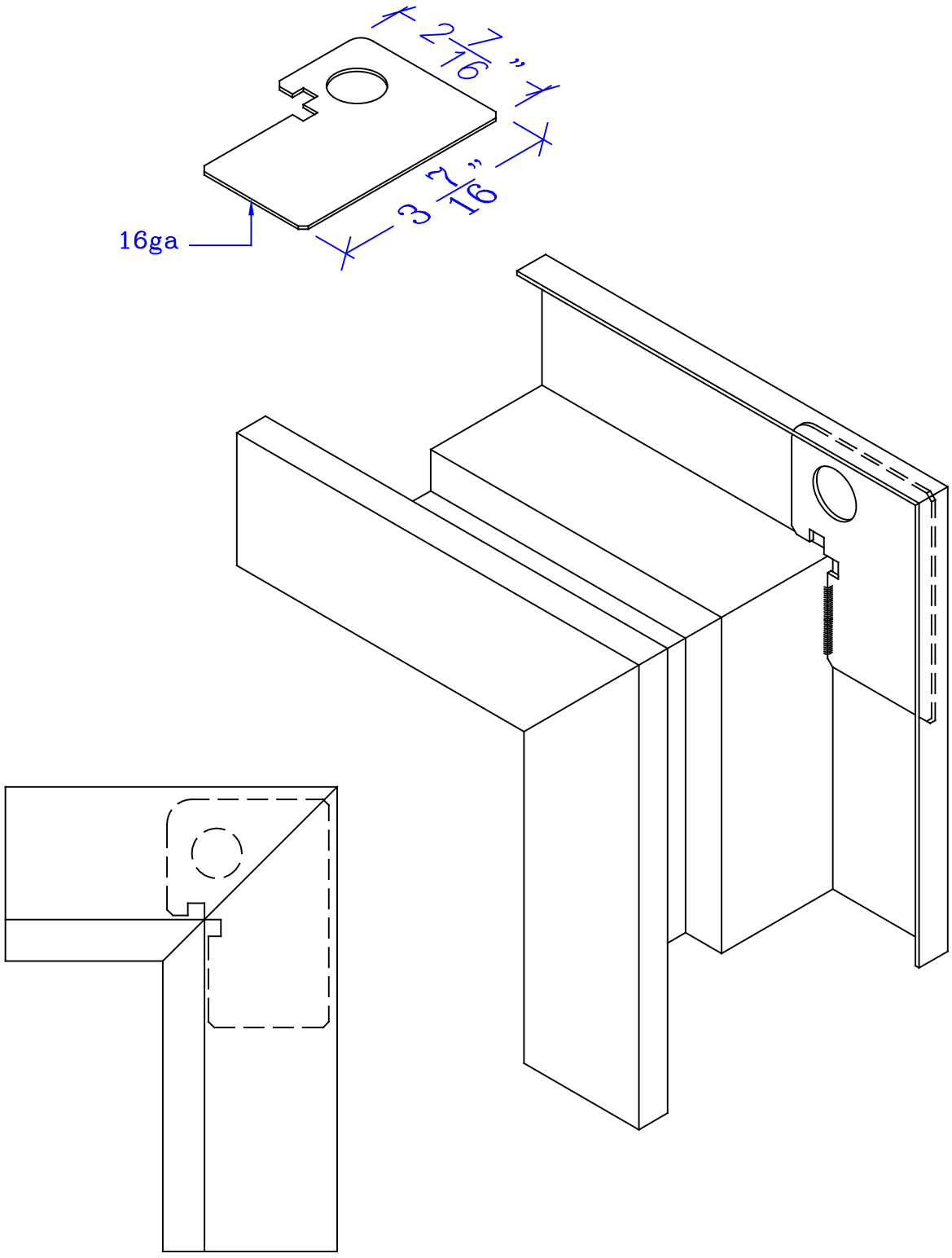
Closer reinforcement, 12ga



00692

Jamb and head mechanical connecting tab, reversible

For 45° saw mitered knocked down assembly

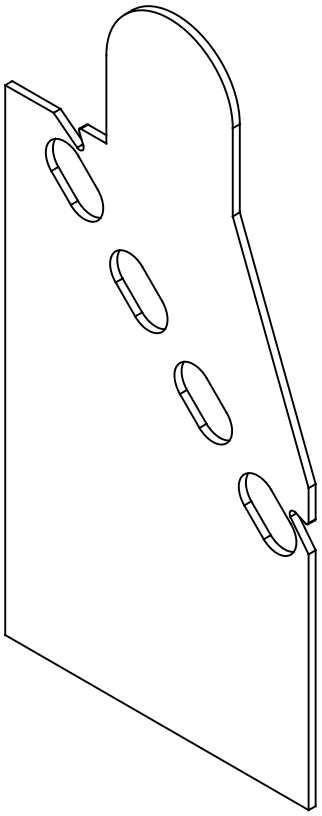


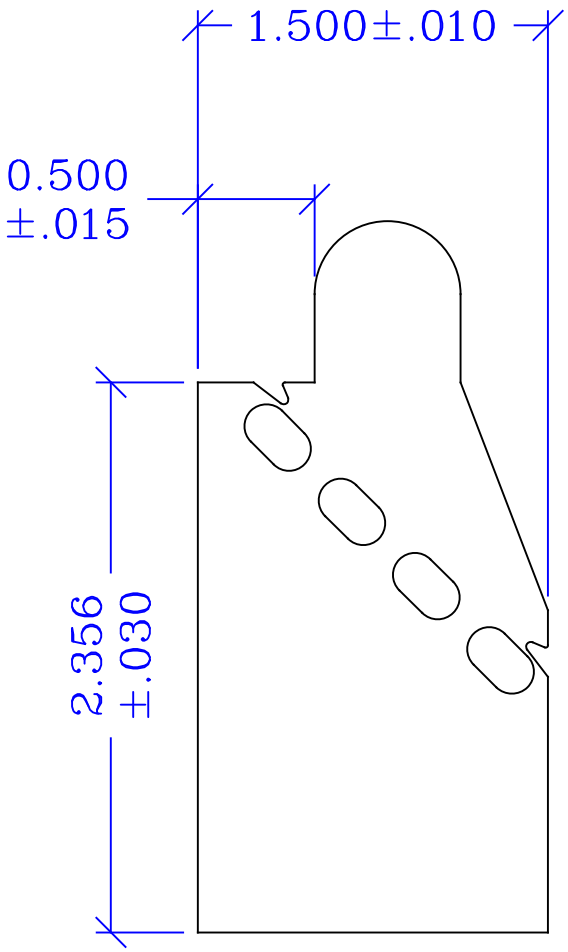
00869

Clean interior burrs prior to reversible tab installation

Gusset for knocked down series, 20ga

Need 2 per jamb

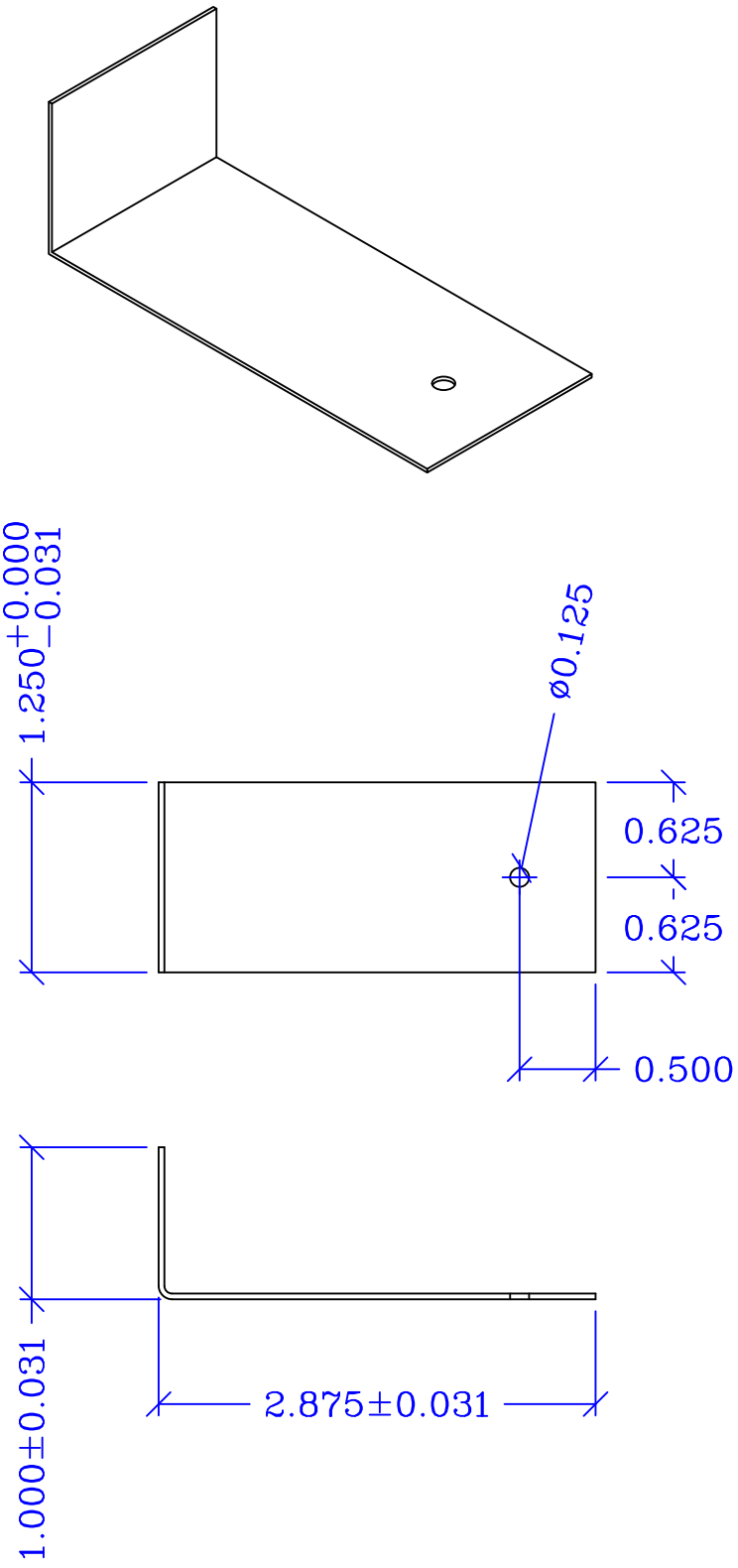




00560

See option KD on page O-15.28 for additional information

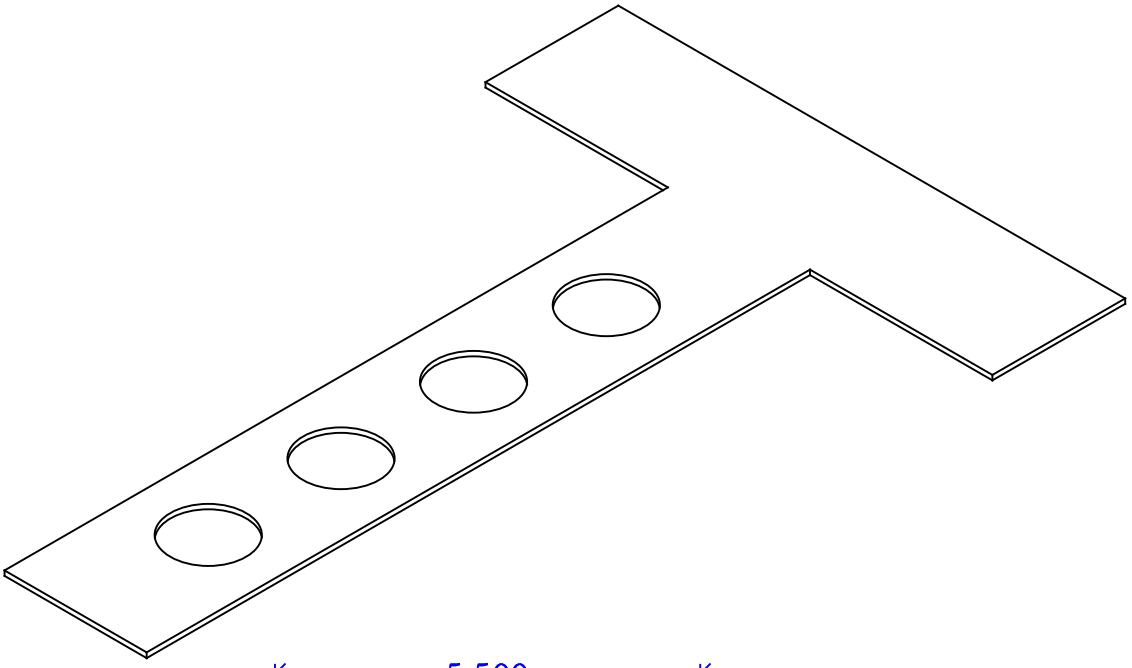
DSA, drywall strap anchor for 2" face jambs, 18ga

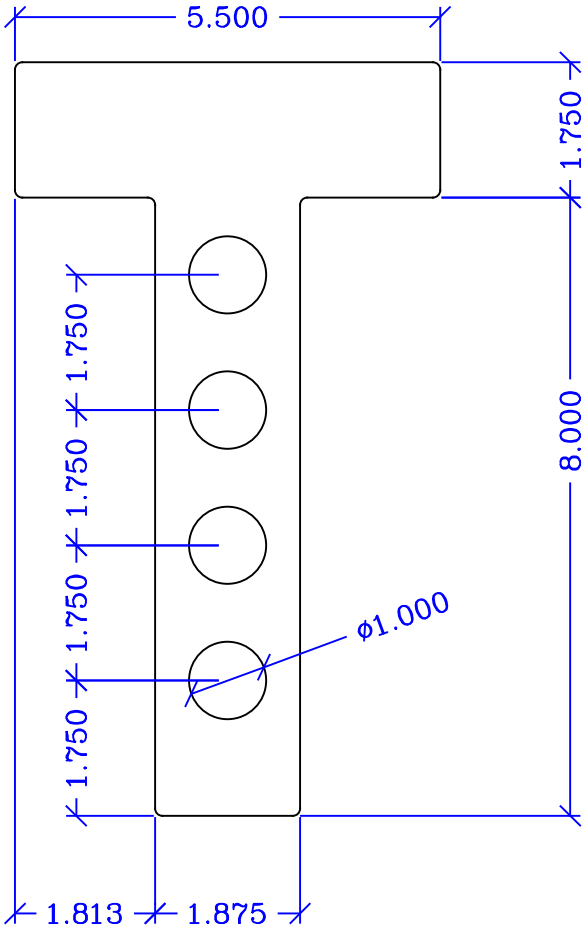


00416

See option DSA on page O-15.2 for additional information

T masonry anchor, 16ga, 2" face, SR series, 5 3/4" jamb depth

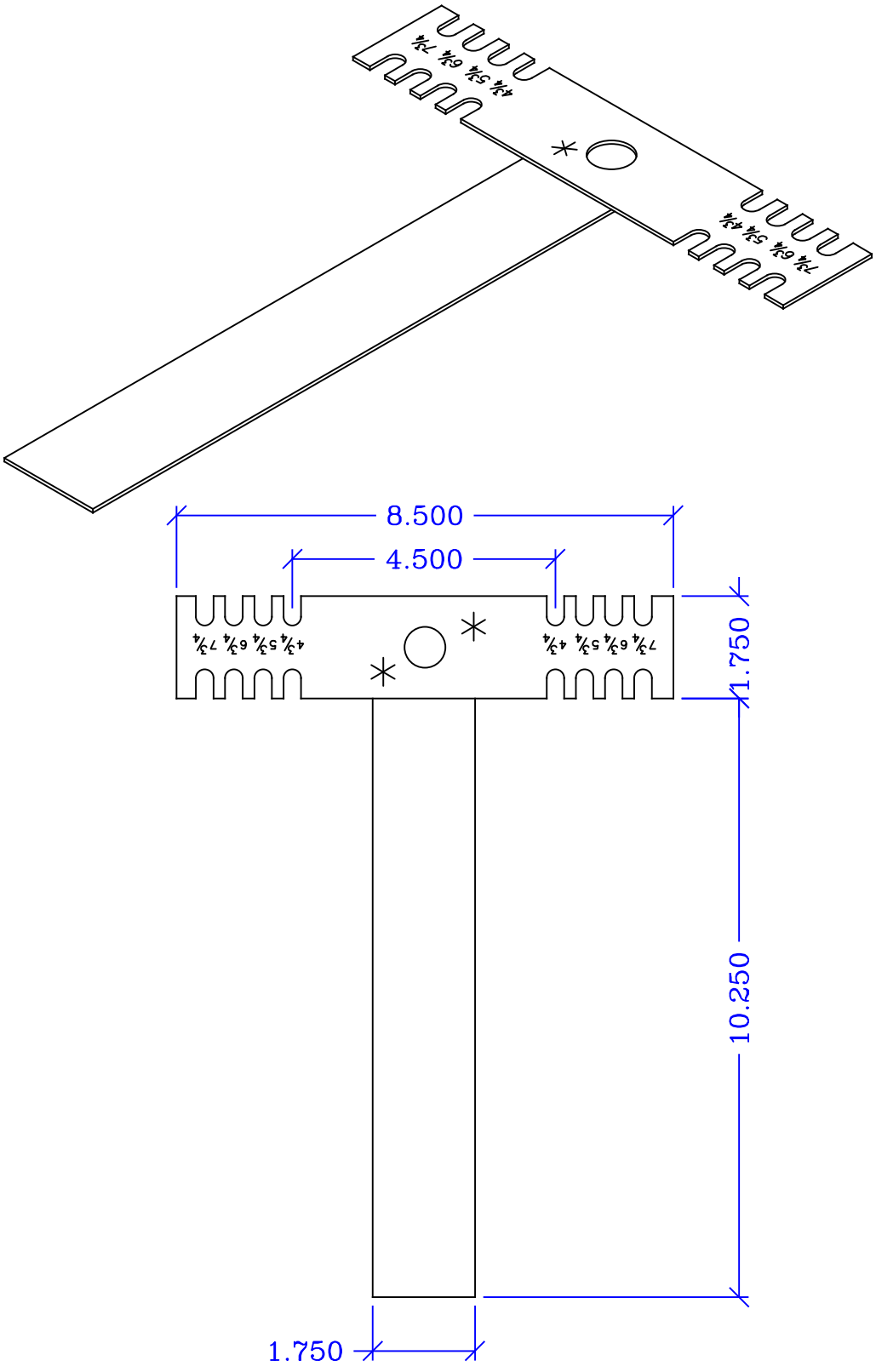




00357

See option TMA on page O-15.10 for additional information

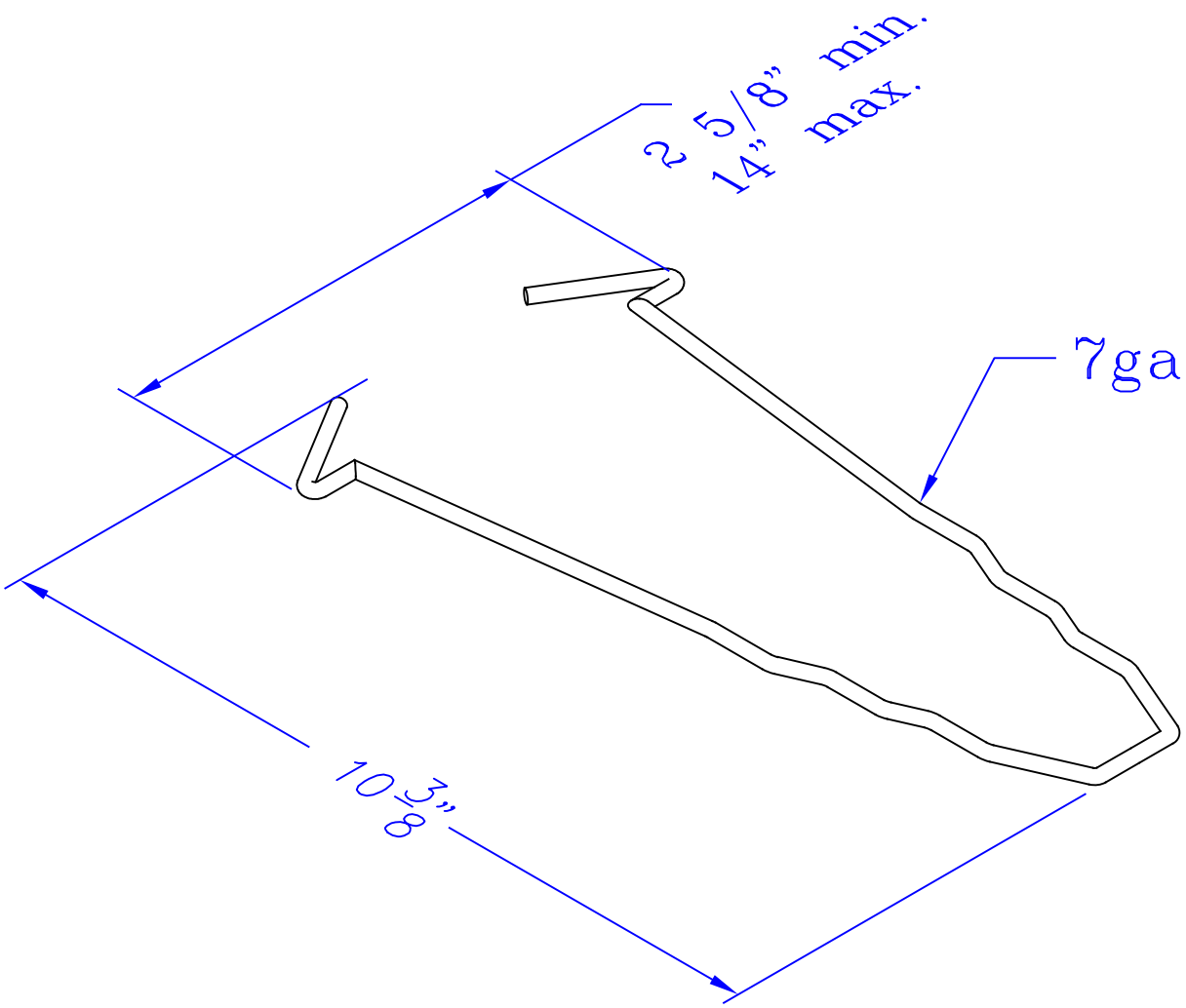
T masonry anchor, 16ga, 2" face, SR series, 4 3/4" to 8 3/4" jamb depth



00356

See option TMA on page O-15.10 for additional information

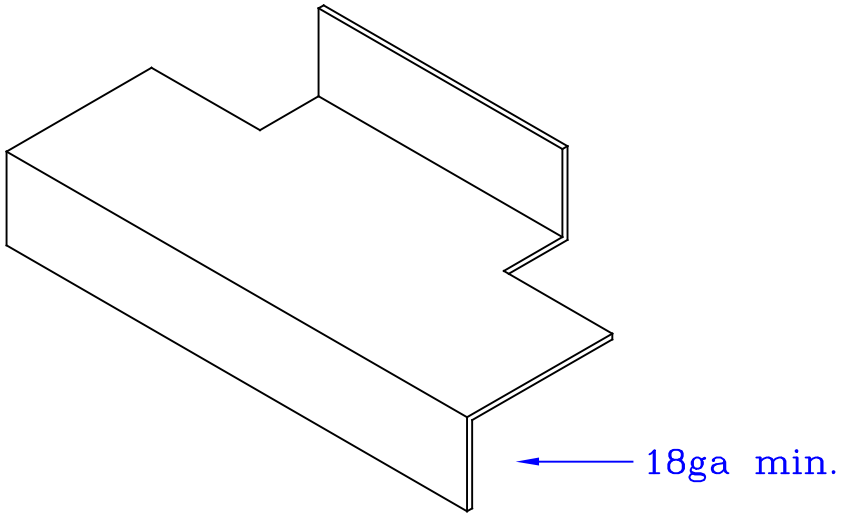
WMA, wire masonry anchor

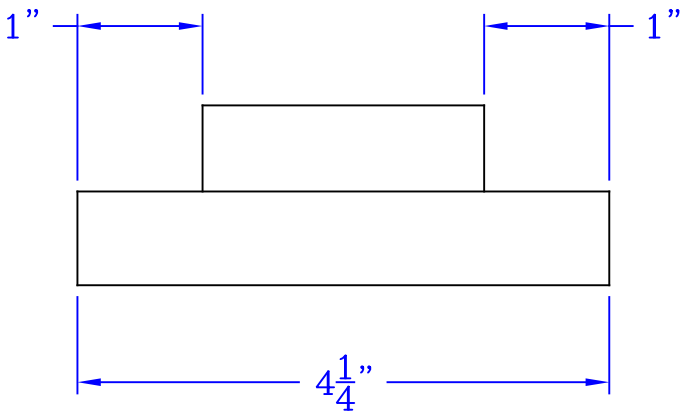


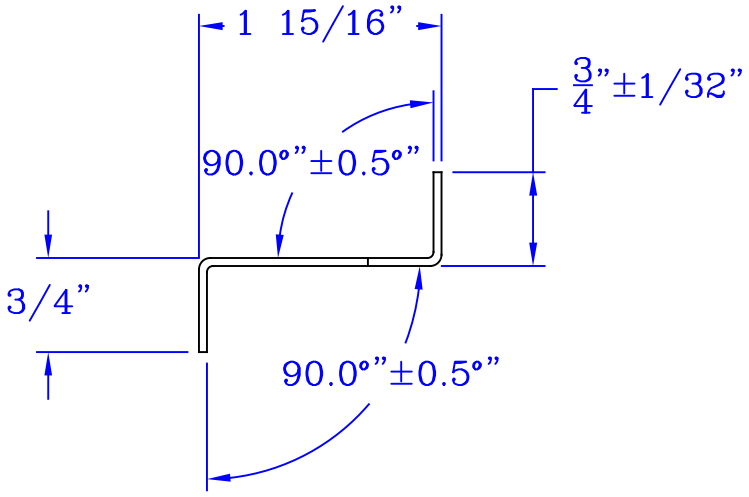
00353

See option WMA on page O-15.11 for additional information

ZBA, steel stud anchor 4 1/4", 2" face, 3 1/2" to 3 7/8" wall



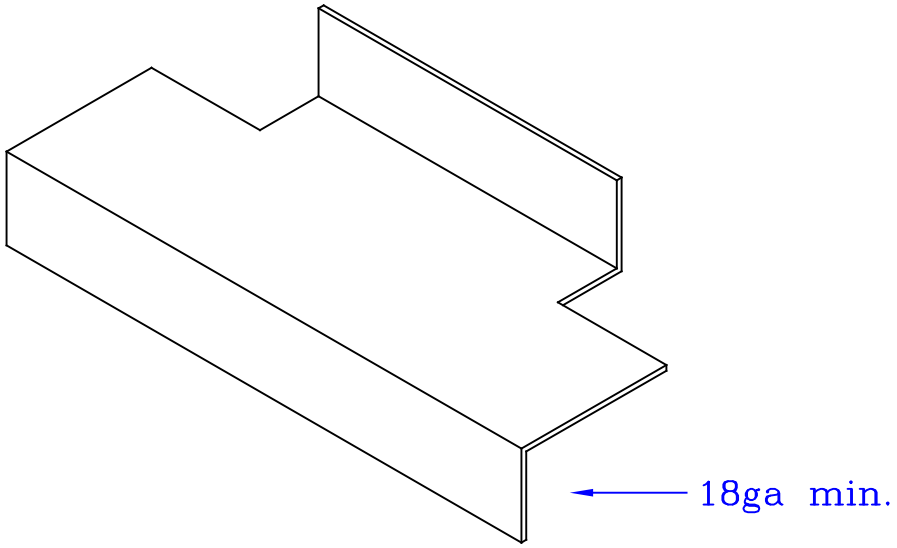


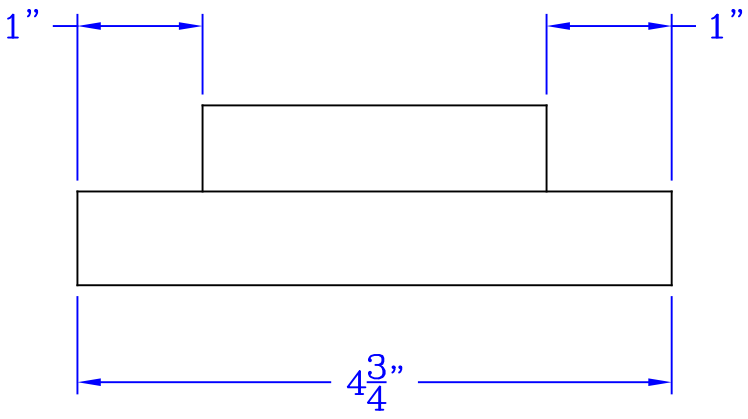


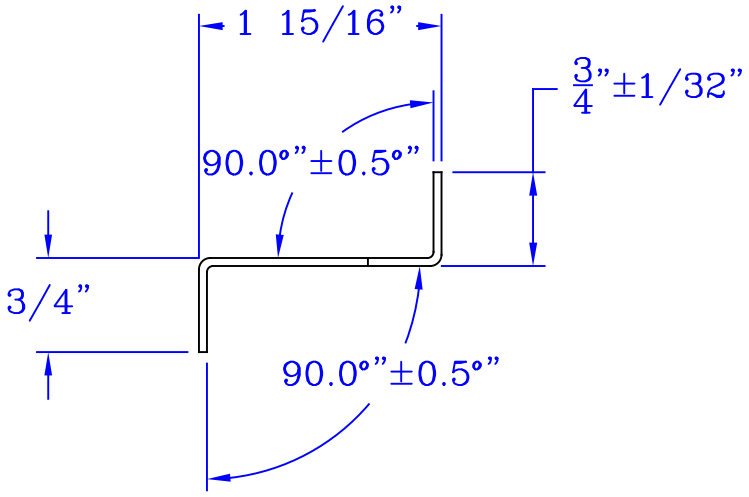
03041

See option ZBA on page O-15.6 for additional information

ZBA, steel stud anchor 4 3/4", 2" face, 4" to 4 3/8" wall



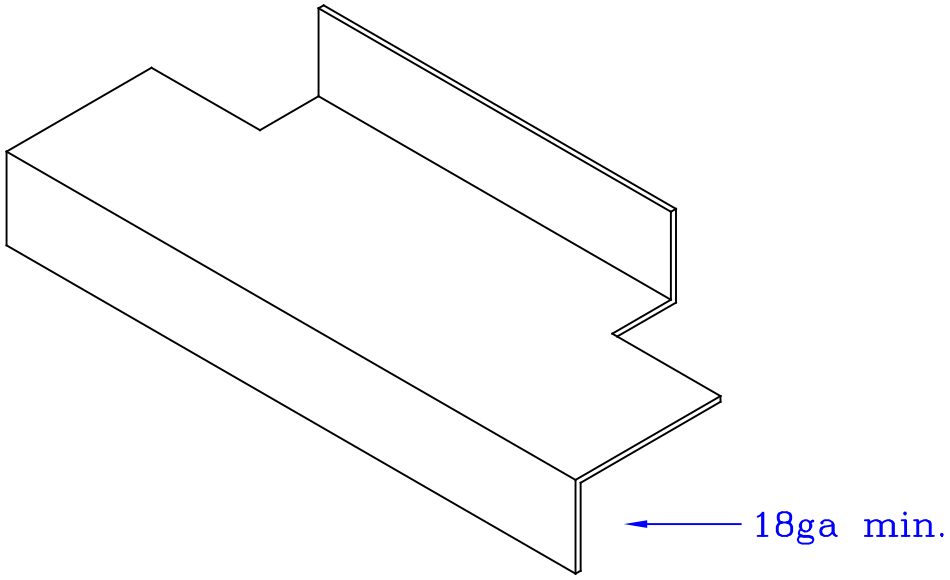


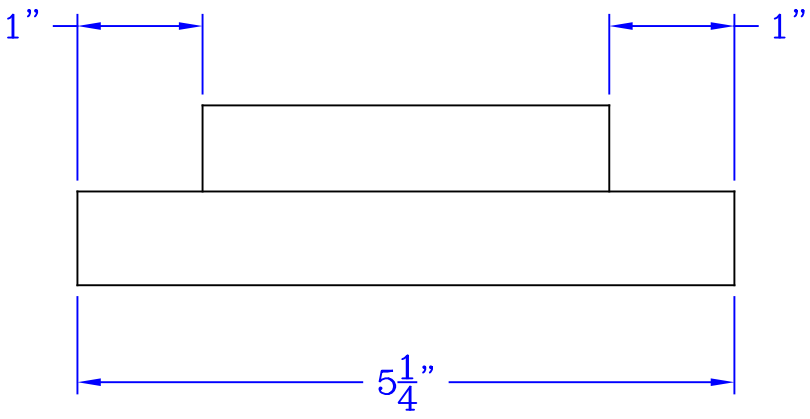


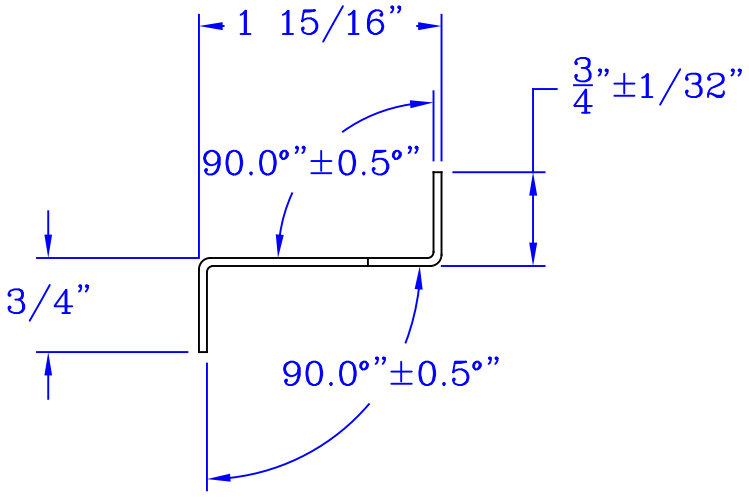
03042

See option ZBA on page O-15.6 for additional information

ZBA, steel stud anchor 5 1/4", 2" face, 4 1/2" to 4 7/8" wall



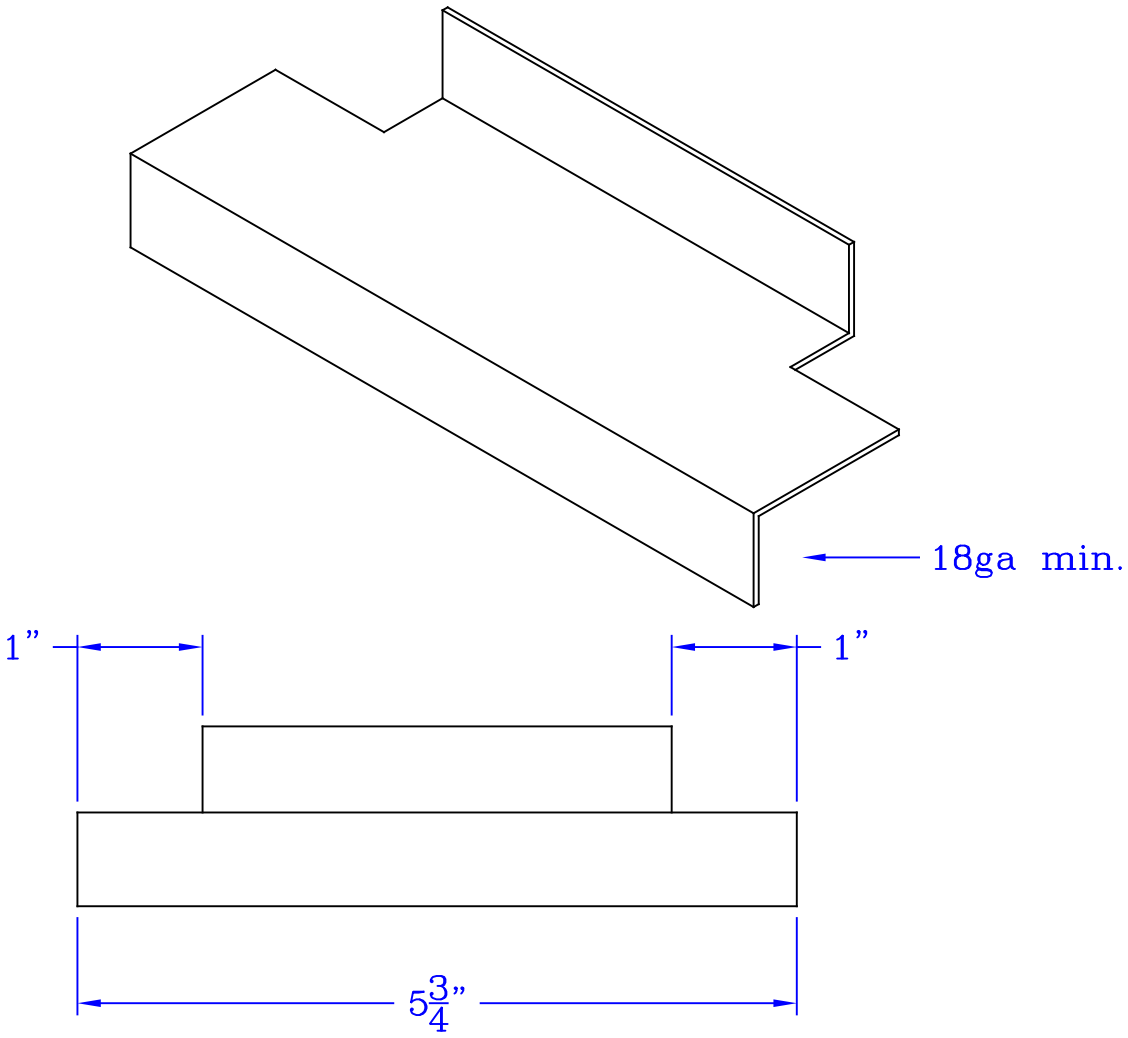


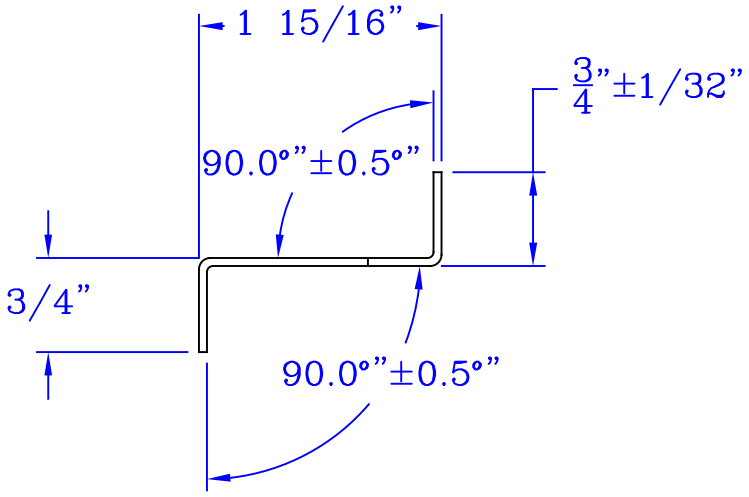


03043

See option ZBA on page O-15.6 for additional information

ZBA, steel stud anchor 5 3/4", 2" face, 5" to 5 3/8" wall

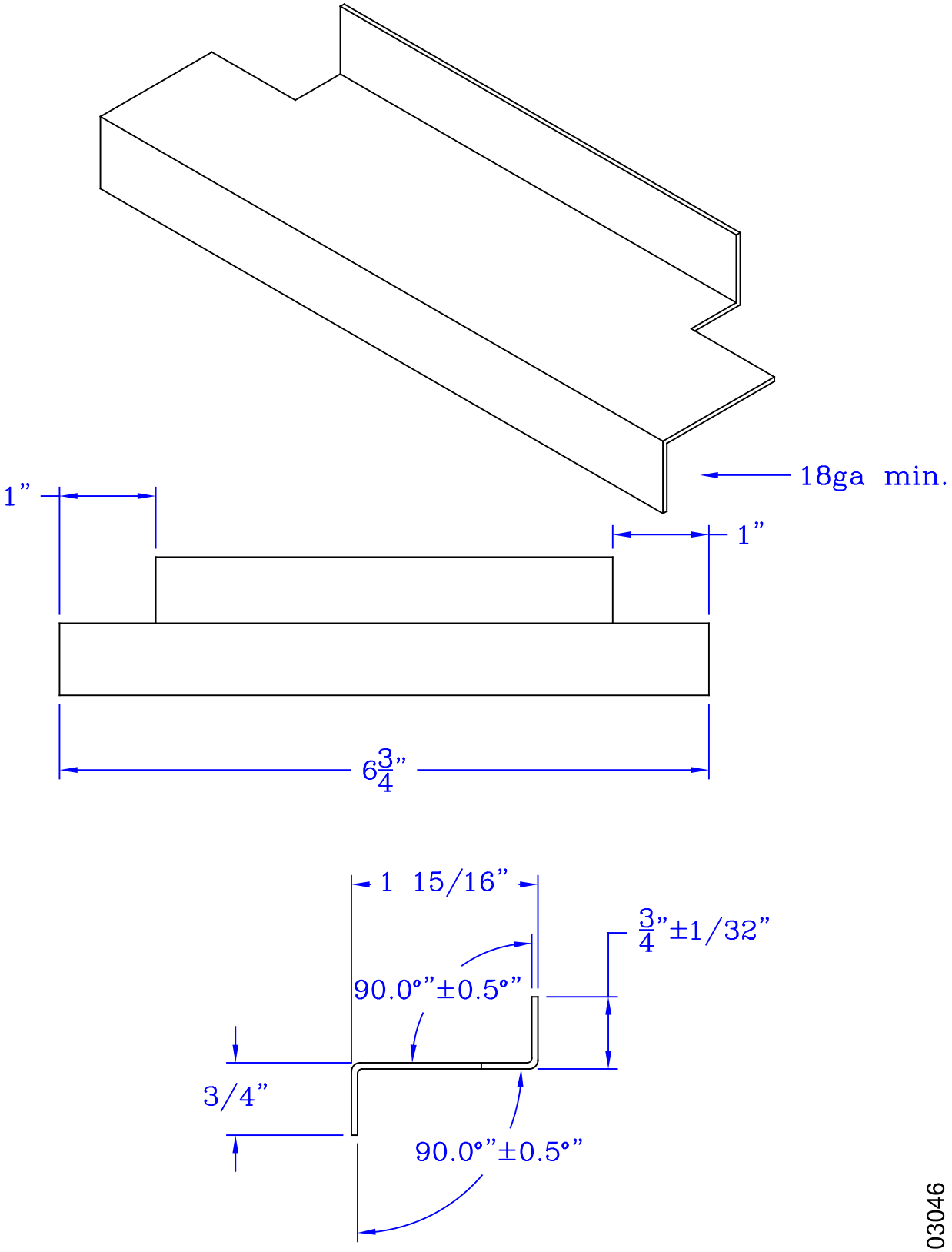




03044

See option ZBA on page O-15.6 for additional information

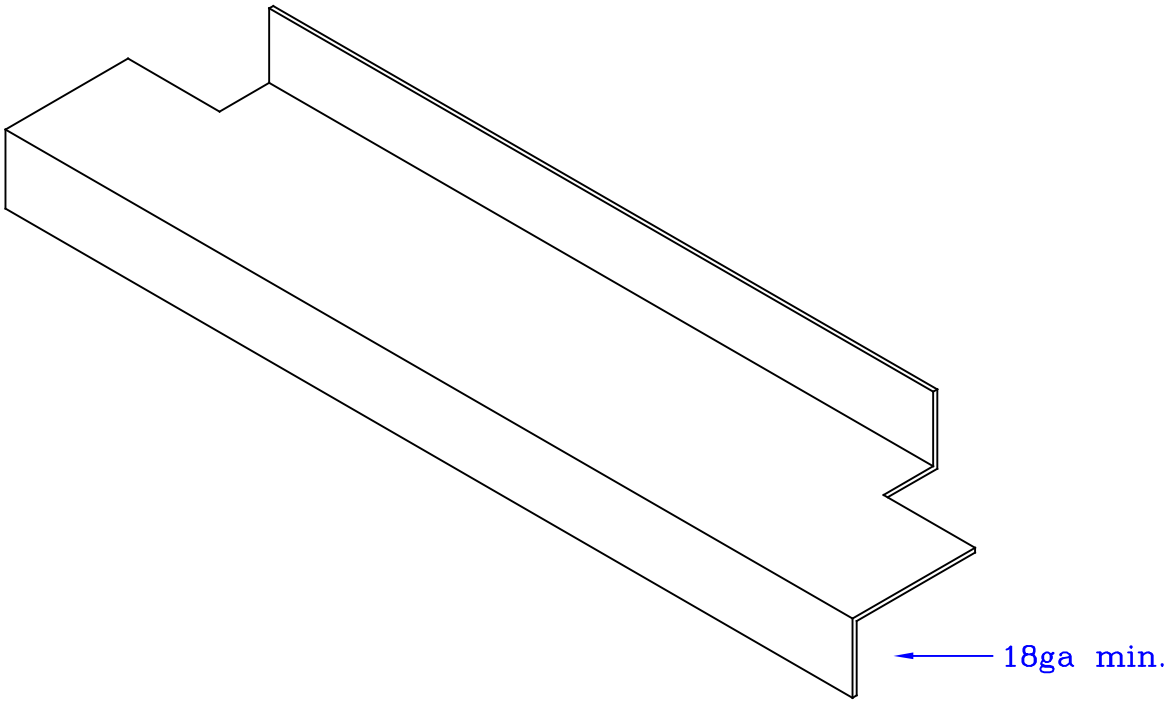
ZBA, steel stud anchor 6 3/4", 2" face, 6" to 6 3/8" wall

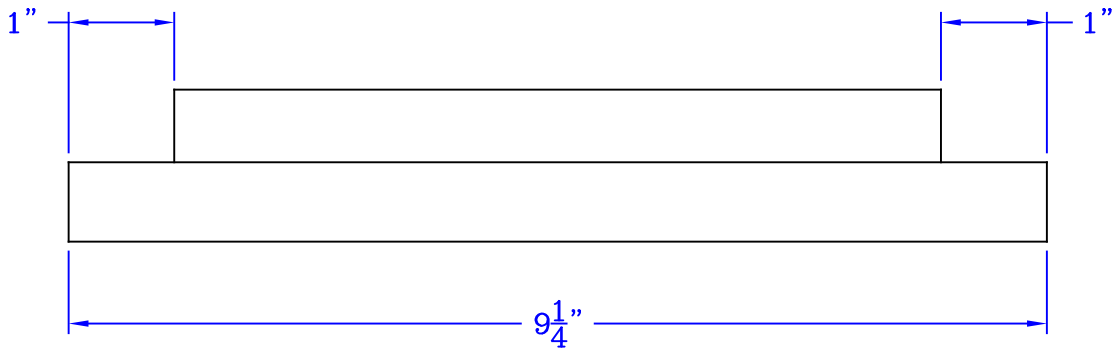


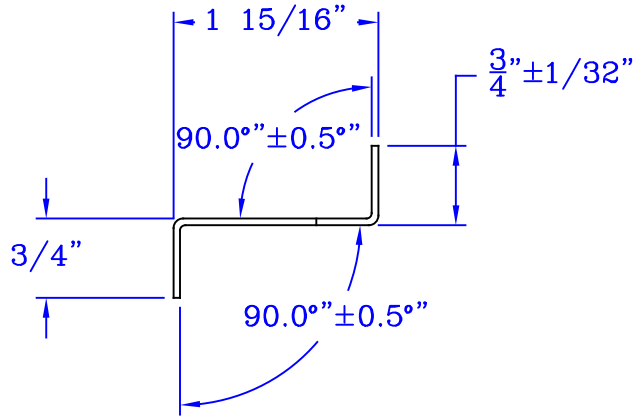
03046

See option ZBA on page O-15.6 for additional information

ZBA, steel stud anchor 9 1/4", 2" face, 8 1/2" to 8 7/8" wall



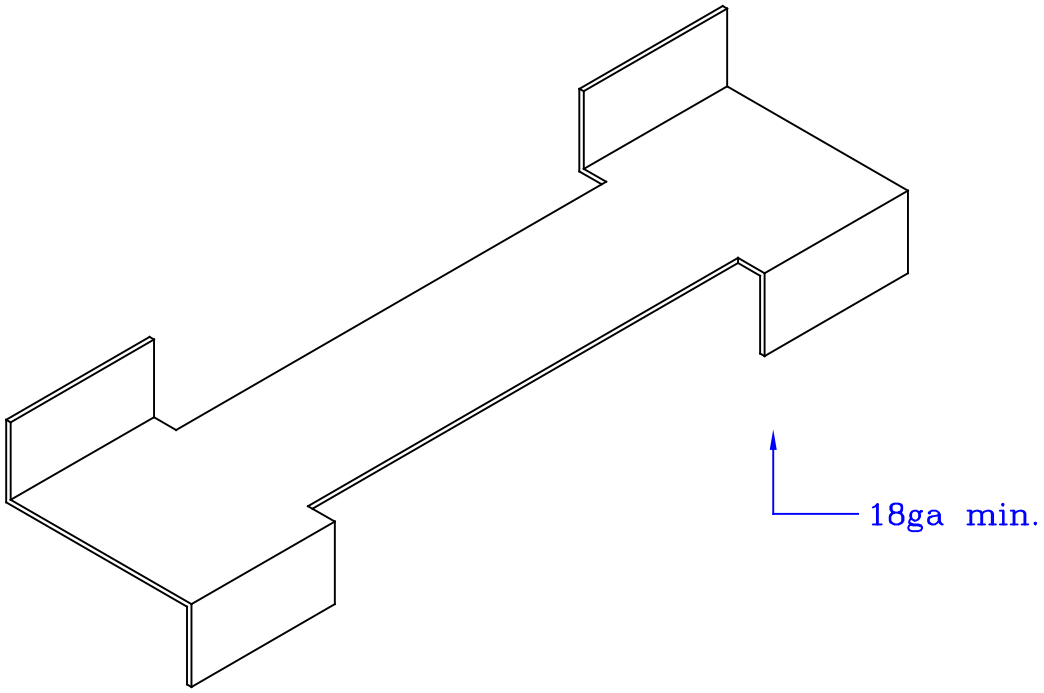


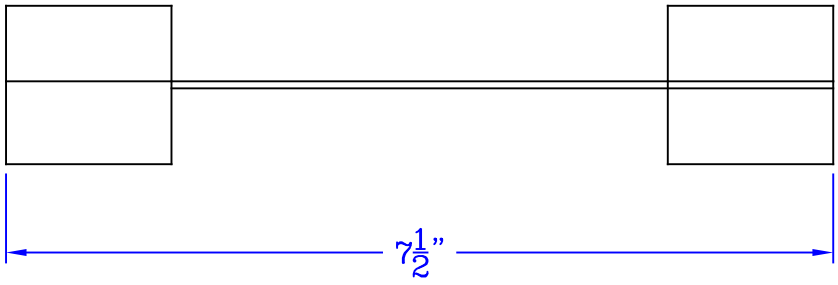


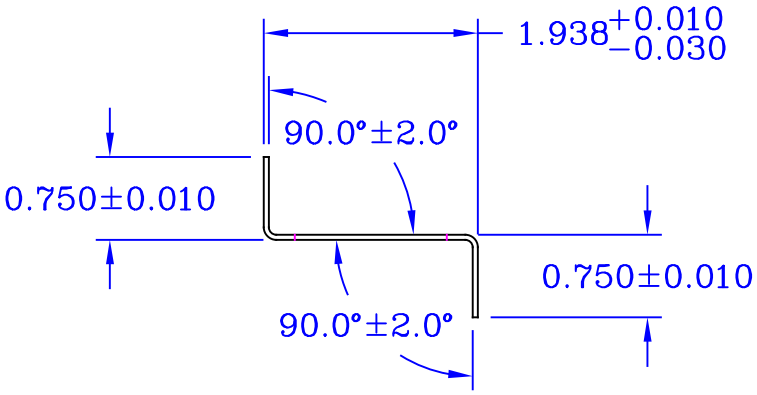
03051

See option ZBA on page O-15.6 for additional information

EWA, existing wall anchor 4 1/2" to 7 3/8" jamb depth



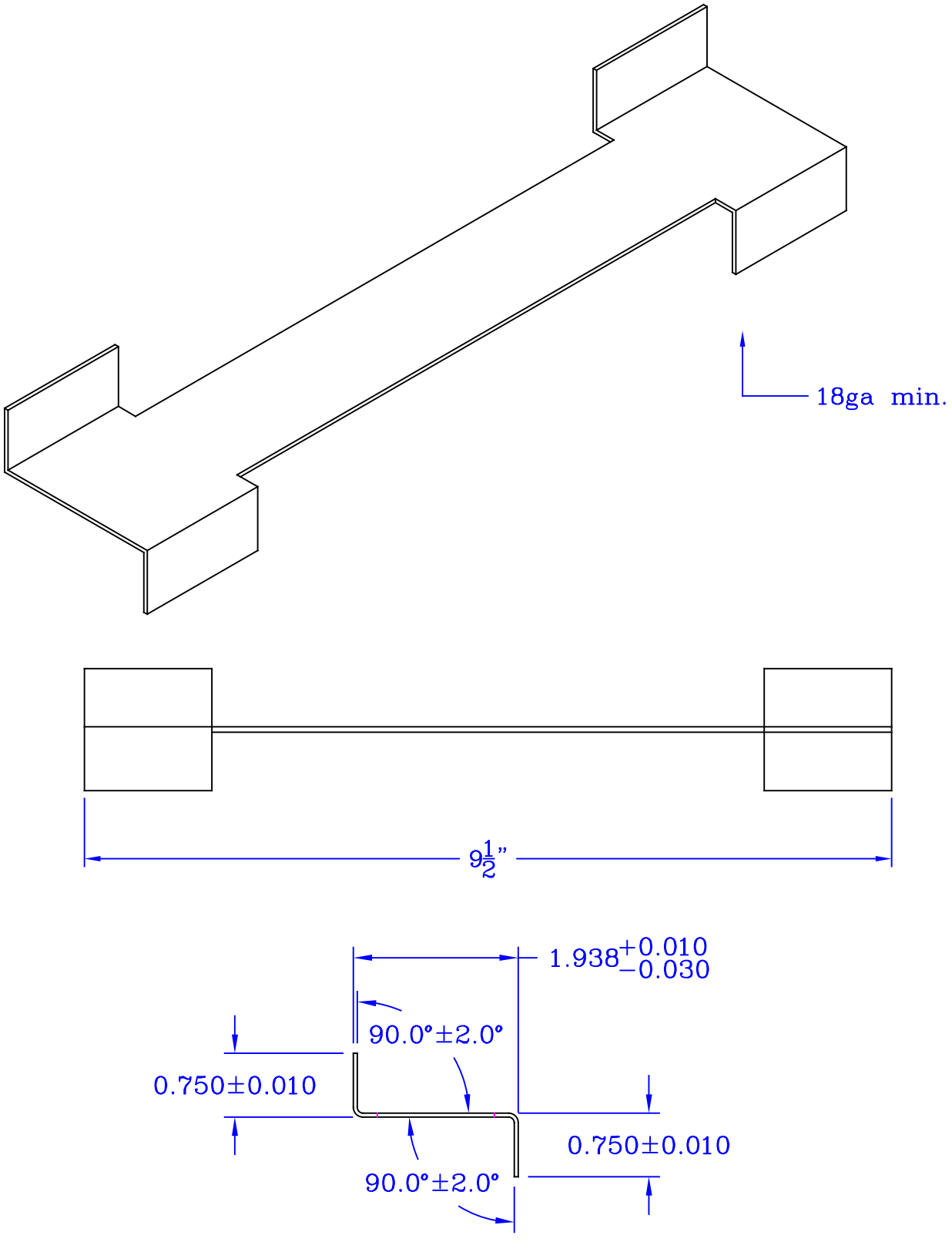




00426

See option EWA on page O-15.12 for additional information

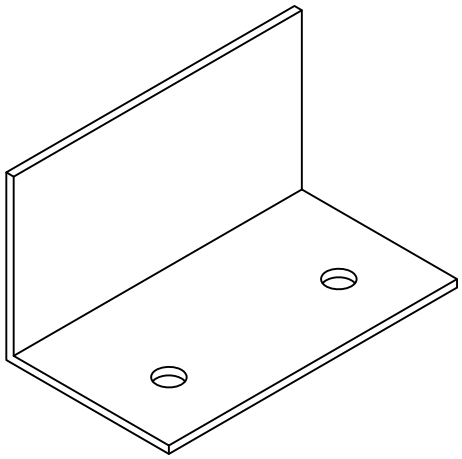
EWA, existing wall anchor 7 1/2" to 9 3/8" jamb depth

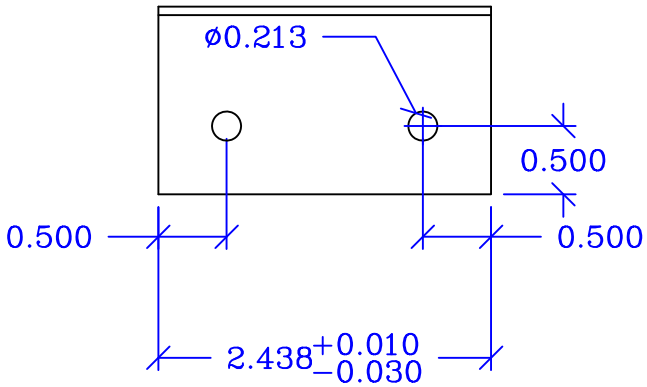


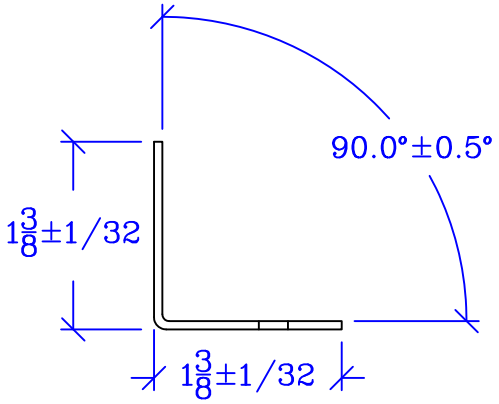
00427

See option EWA on page O-15.12 for additional information

Floor anchor not sized, 16ga



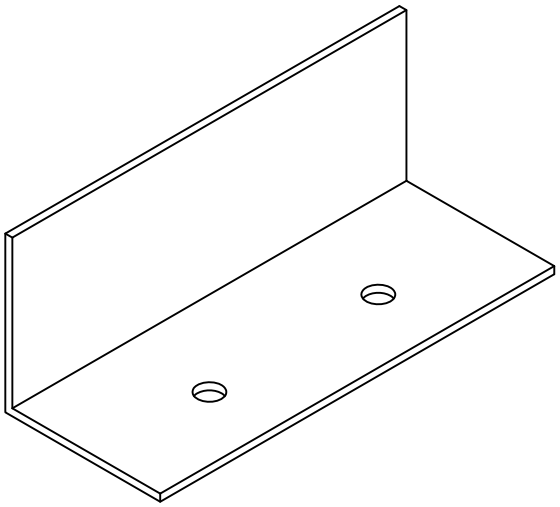


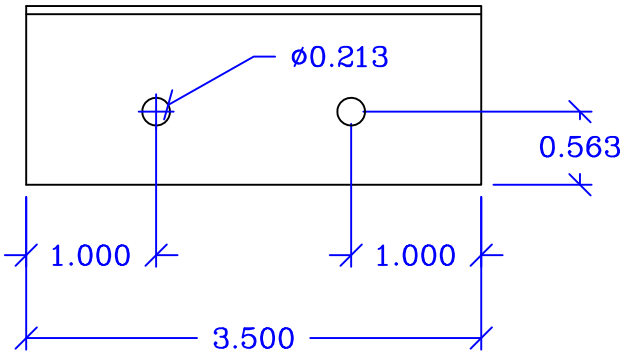


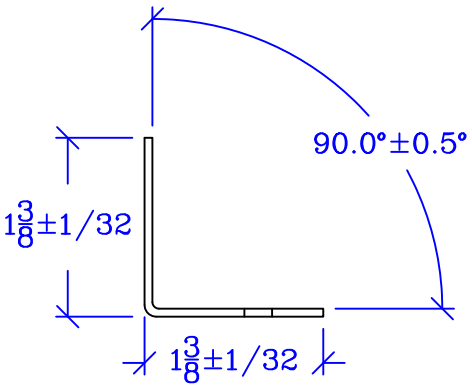
00397

See option FA on page O-15.24 for additional information

Floor anchor 3 1/2, 16ga



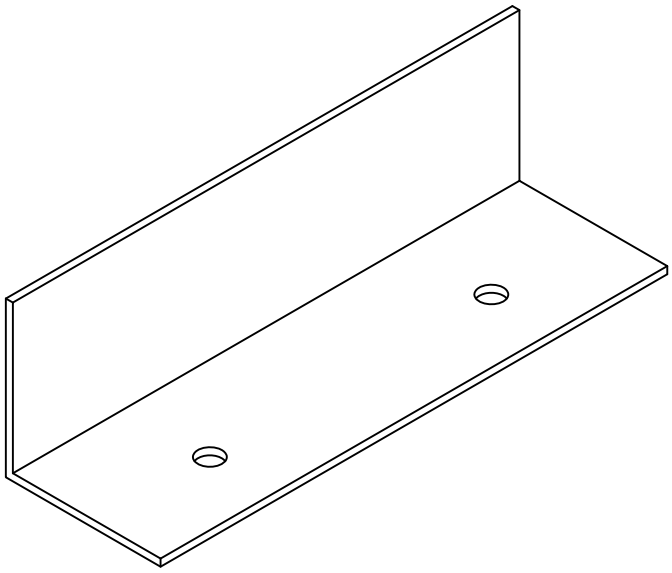


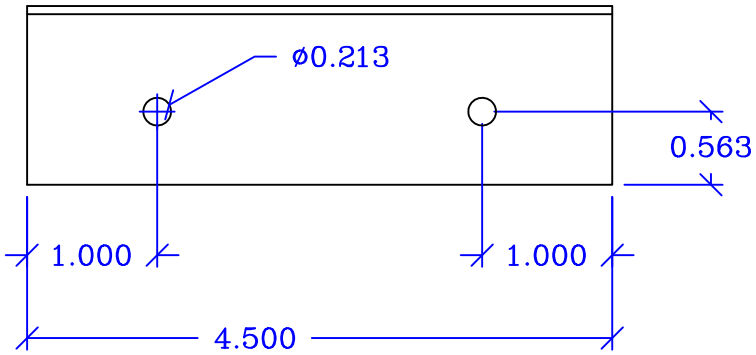


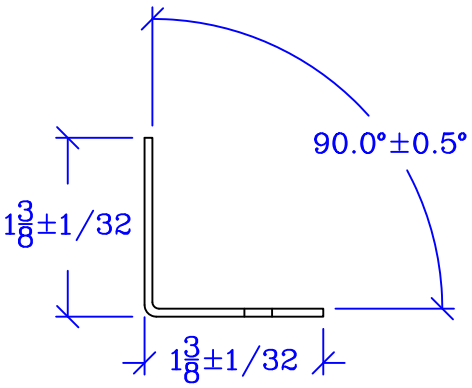
00398

See option FA on page O-15.24 for additional information

Floor anchor 4 1/2, 16ga



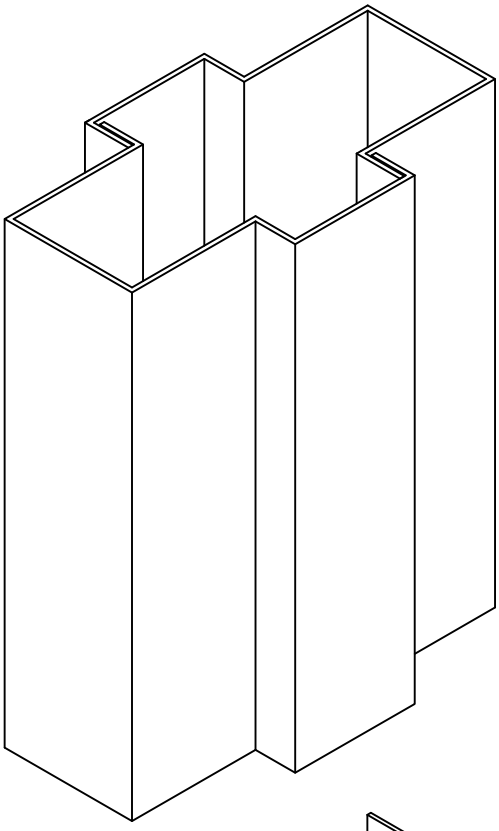


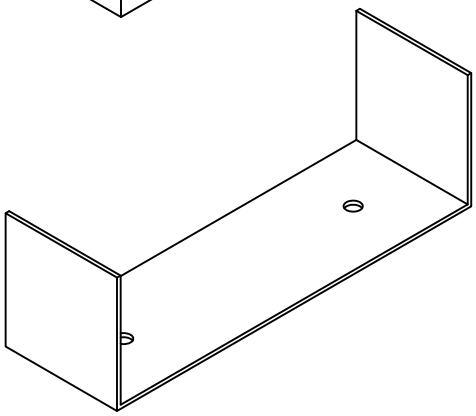


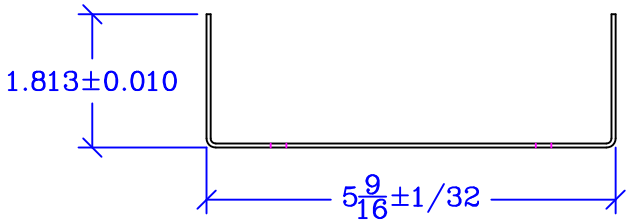
00399

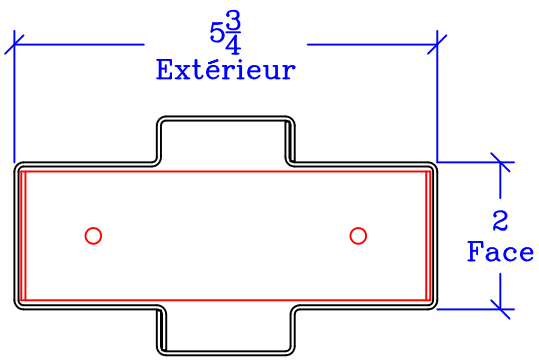
See option FA on page O-15.24 for additional information

Mullion floor anchor for 5 3/4" jamb depth, 16ga



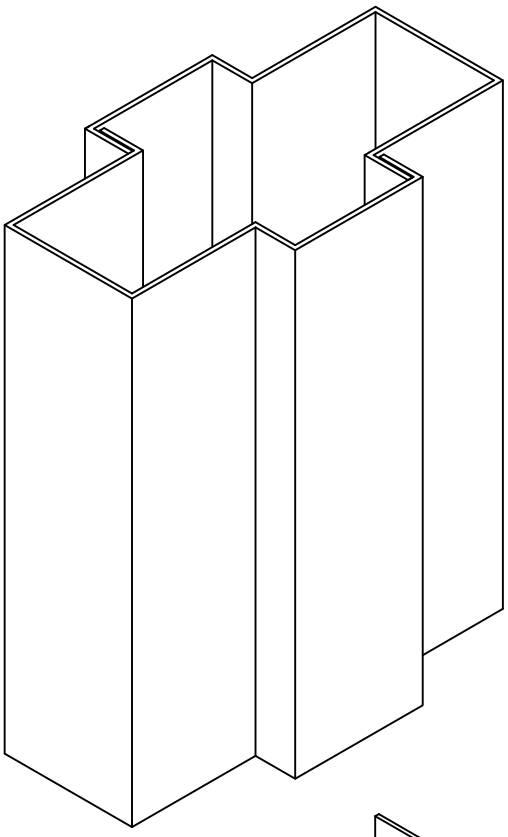


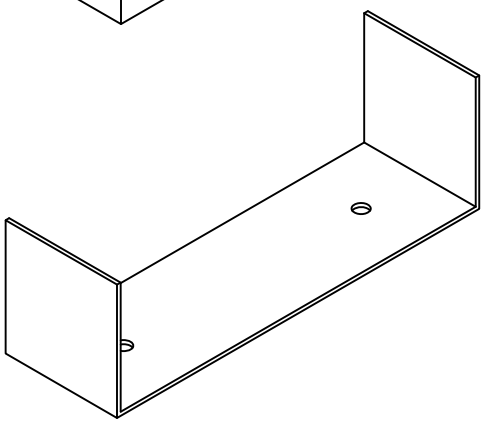


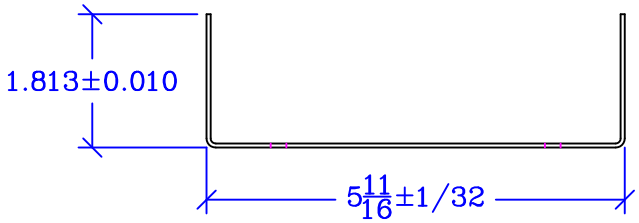


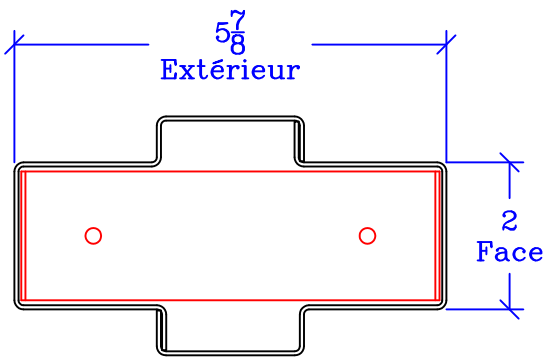
54602

Mullion floor anchor for 5 7/8" jamb depth, 16ga



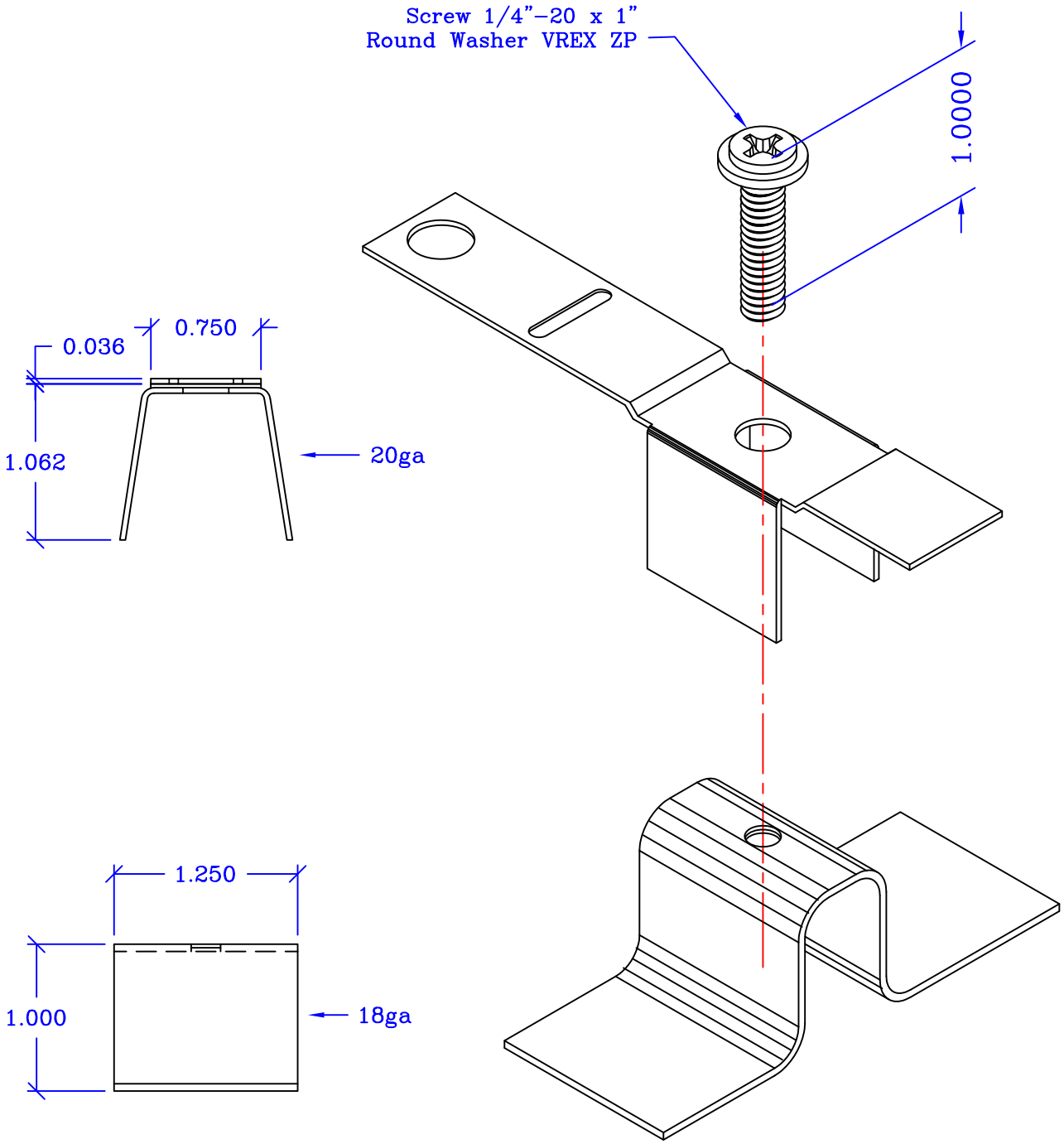






00415

Compression anchor for 16ga knocked down frame

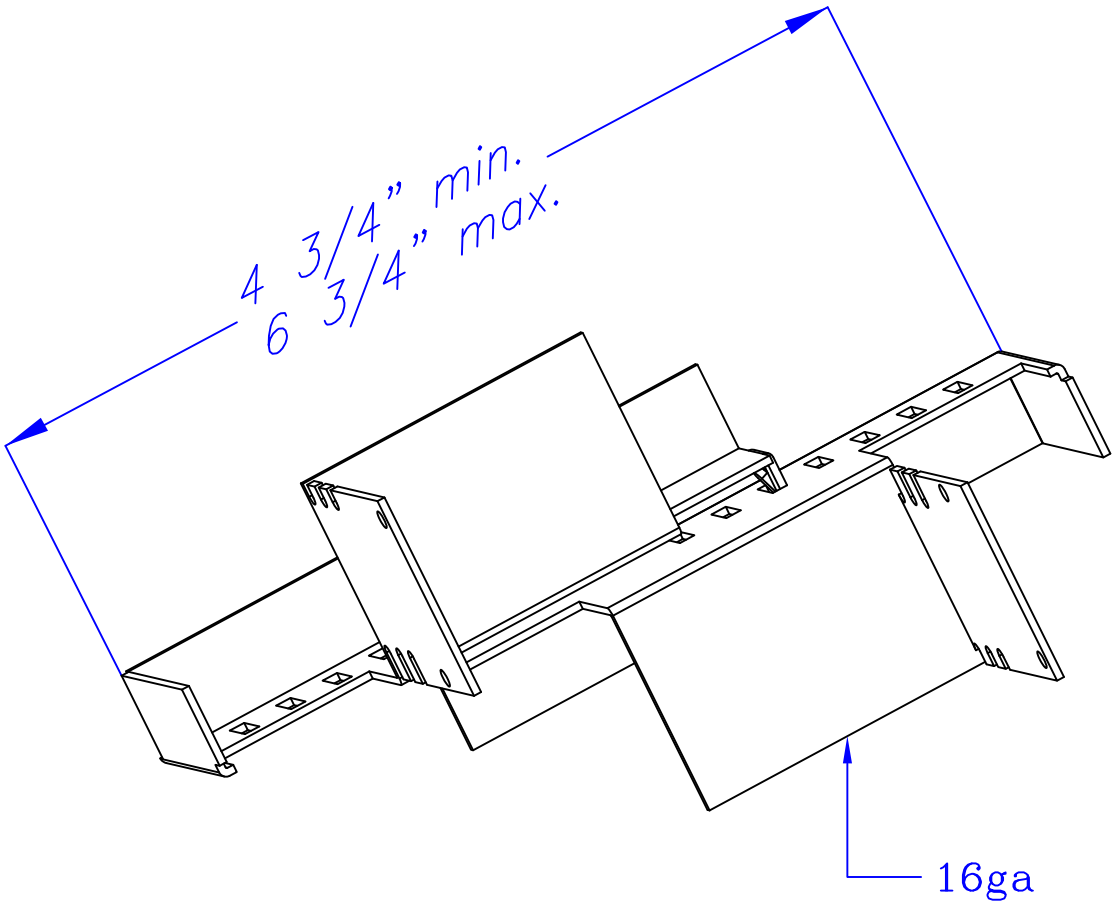


00858

See option KD/KDS on pages O-15.28 and O-15-.30 for additional information

SWS, adjustable wood/steel stud anchor for 4 3/4" to 6 3/4" jamb depth

Need 2 of to make a full anchor

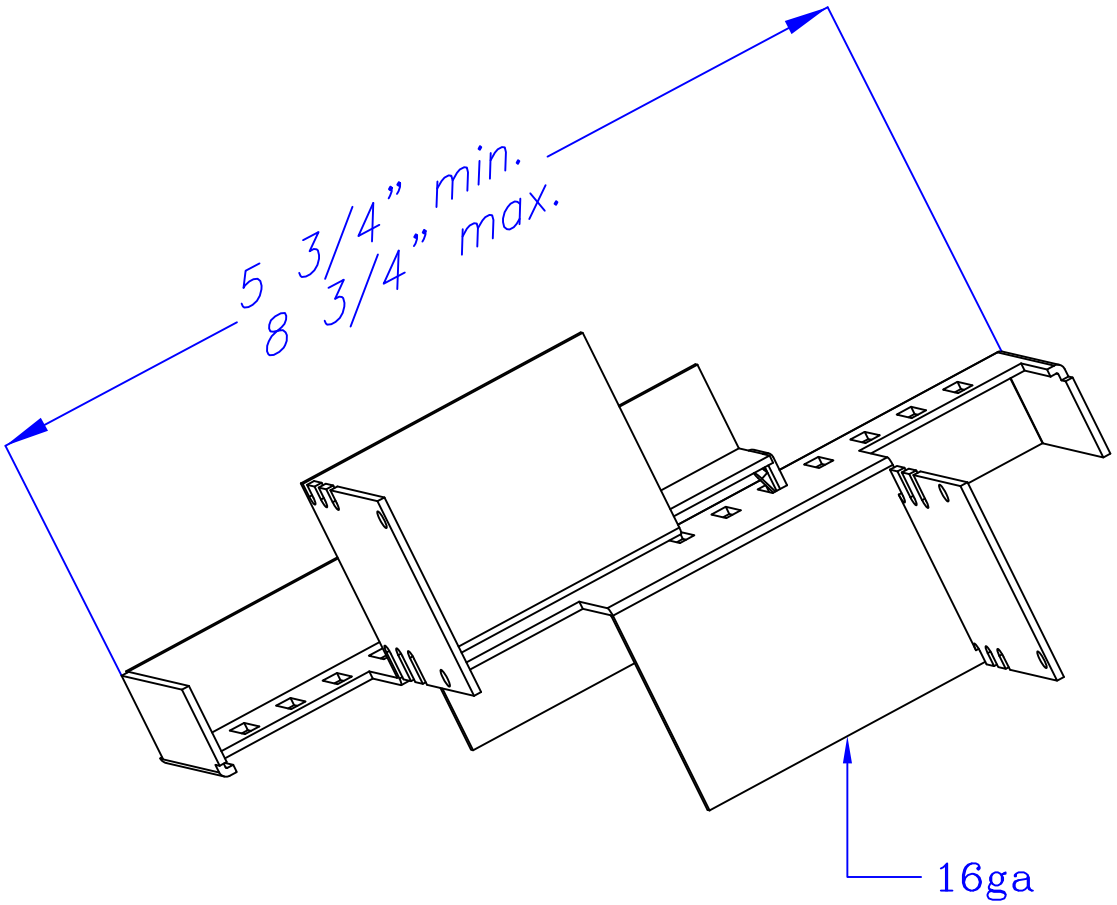


00355

See option SWS on page O-15.8 for additional information

SWS, adjustable wood/steel stud anchor for 5 3/4" to 8 3/4" jamb depth

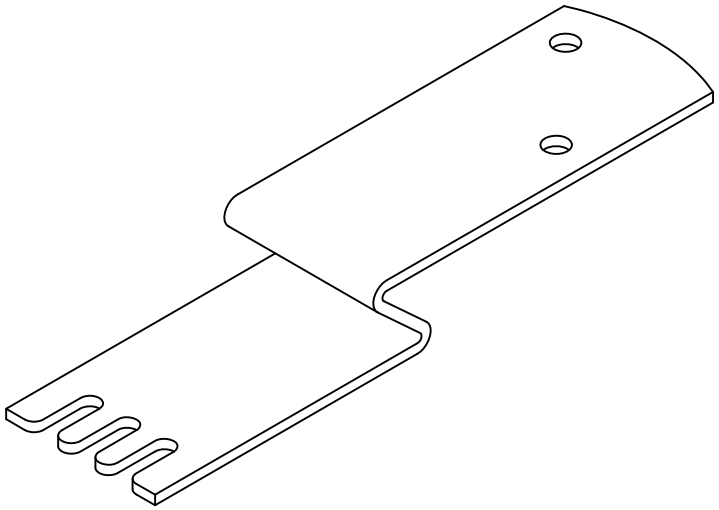
Need 2 of to make a full anchor

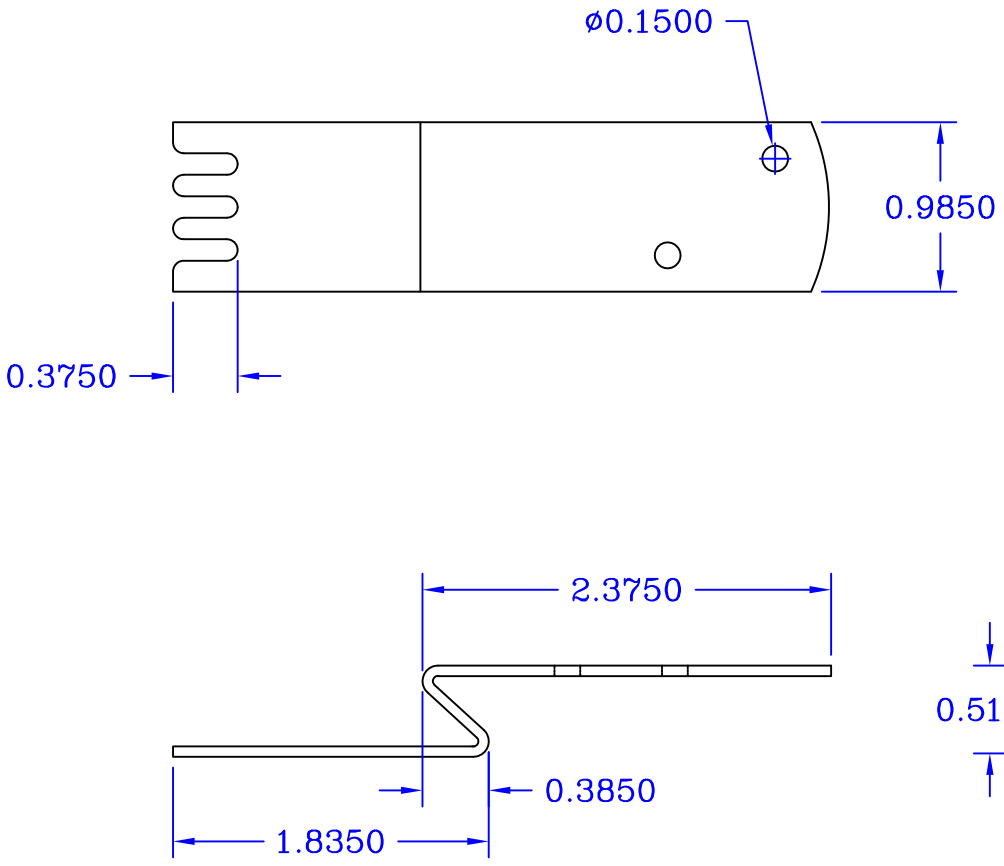


00354

See option SWS on page O-15.8 for additional information

SDS, snap-in drywall strap, 16ga
for DW and DR series

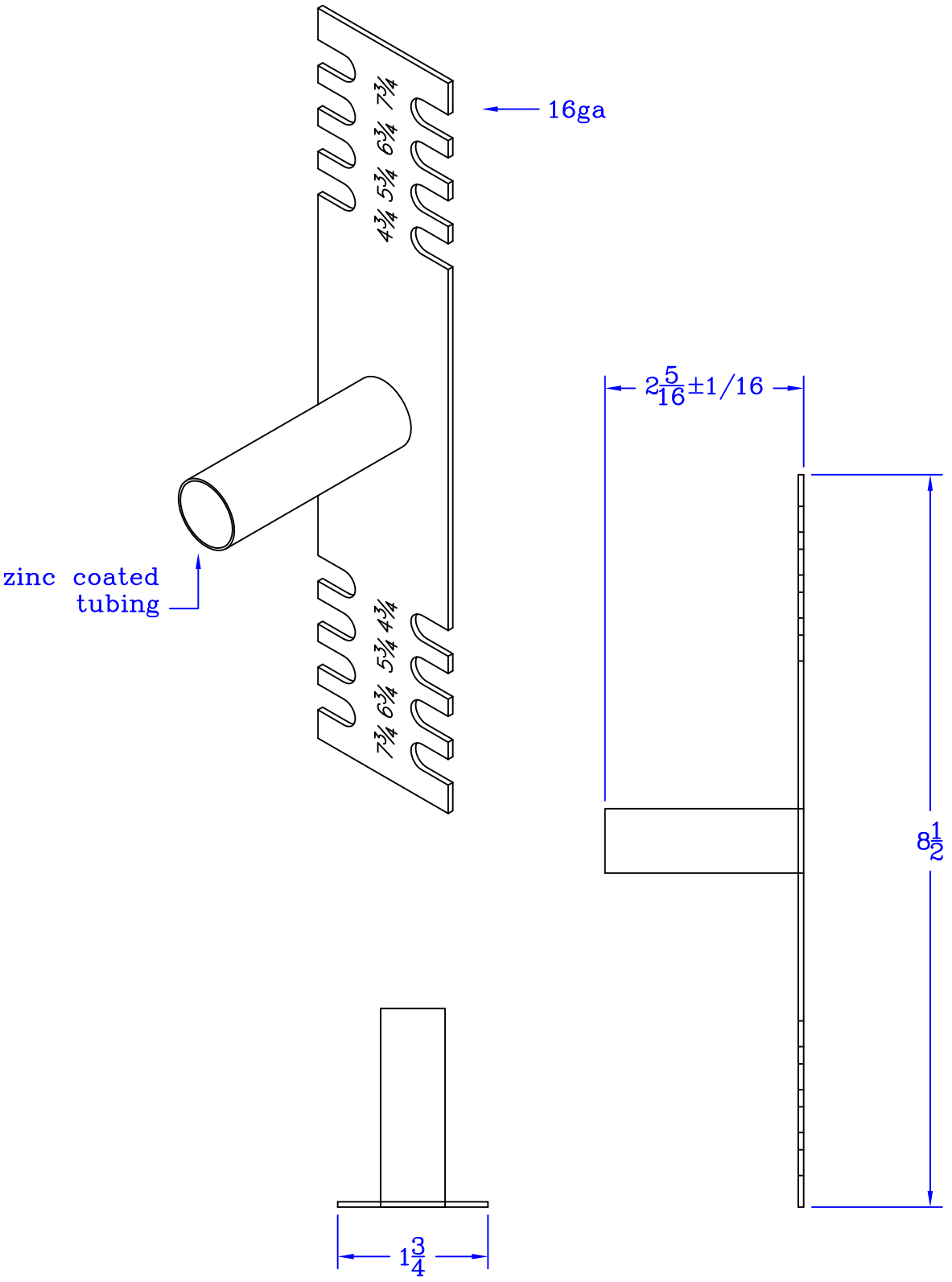




00435

See option SDS on page O-15.3 for additional information

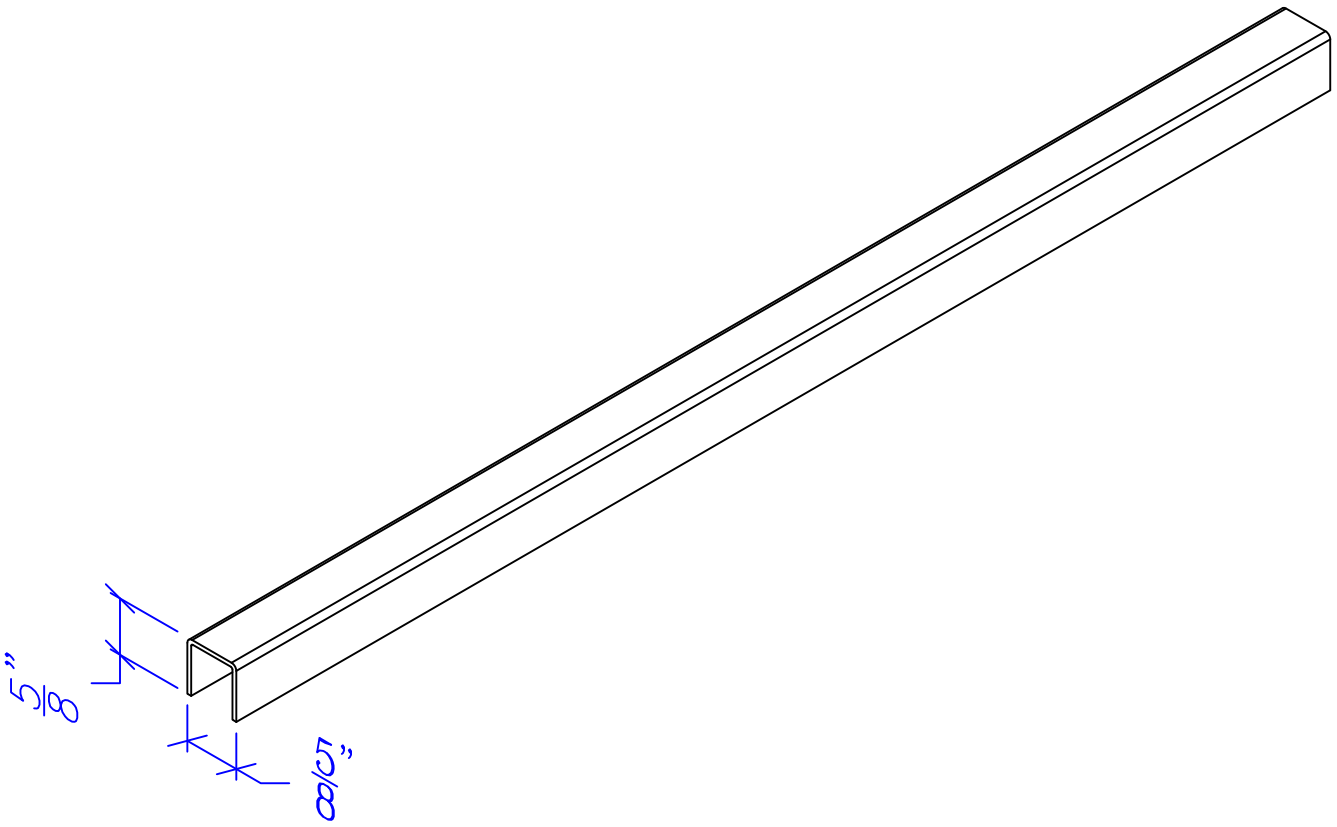
EWAT, existing wall anchor with tube, 4 3/4" to 8 3/4" jamb depth



See option EWAT on page O-15.18 for additional information

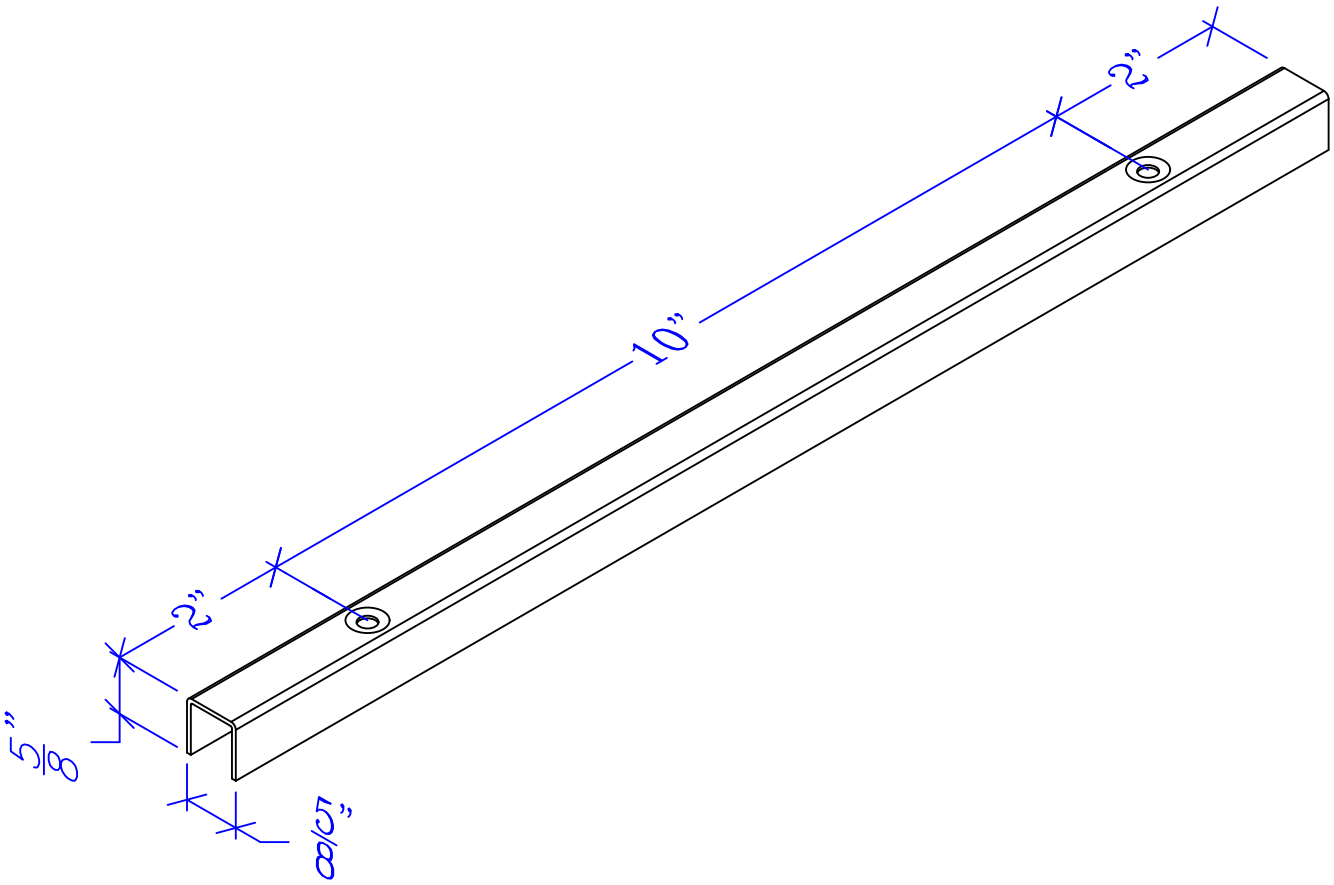
00358

Glazing bead 5/8" x 5/8" x 10'0" without dimples



00075

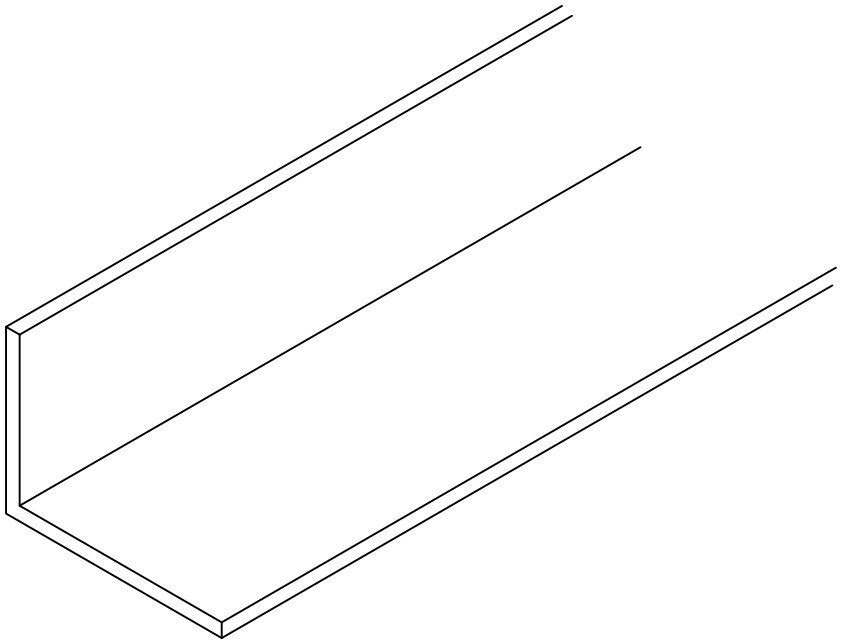
Glazing bead 5/8" x 5/8" x 10'0" punched and dimpled

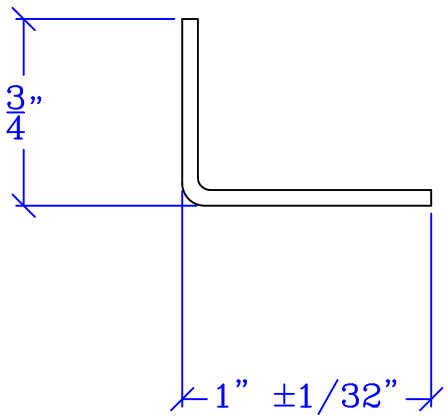


00095

Spreader bar

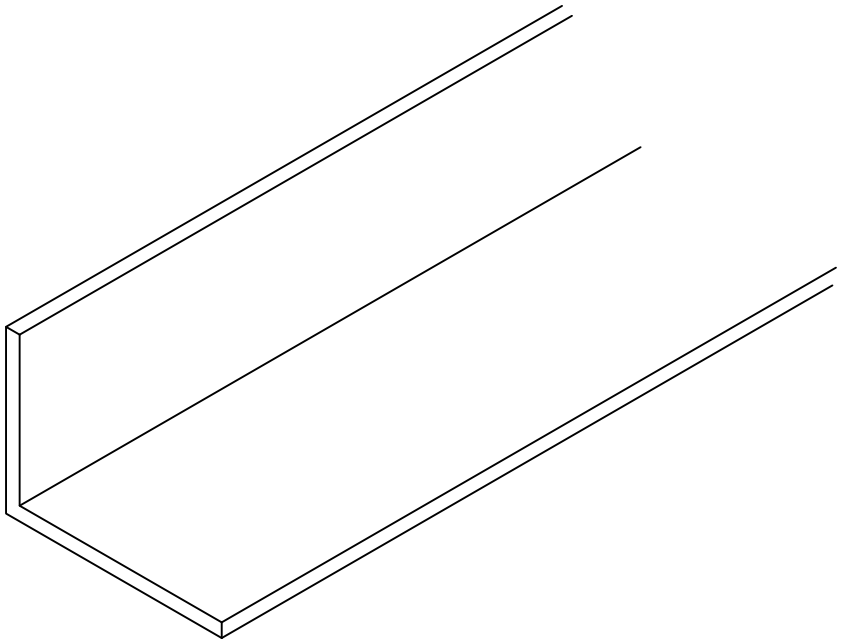
3'0" long, 16ga

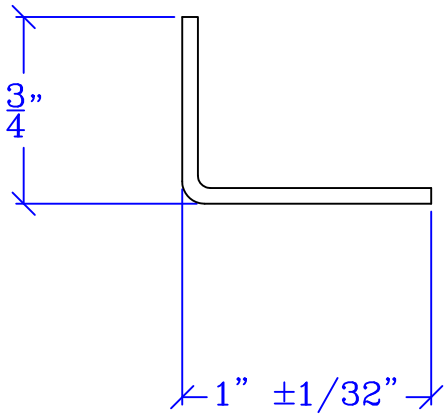




03059

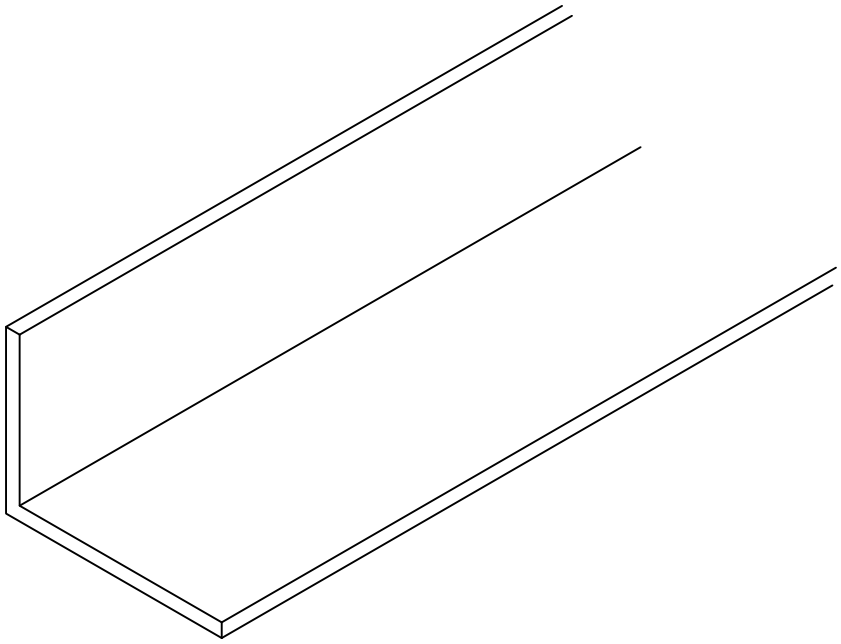
4'0" long, 16ga

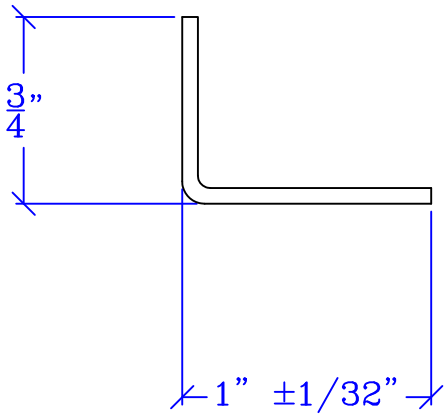




03063

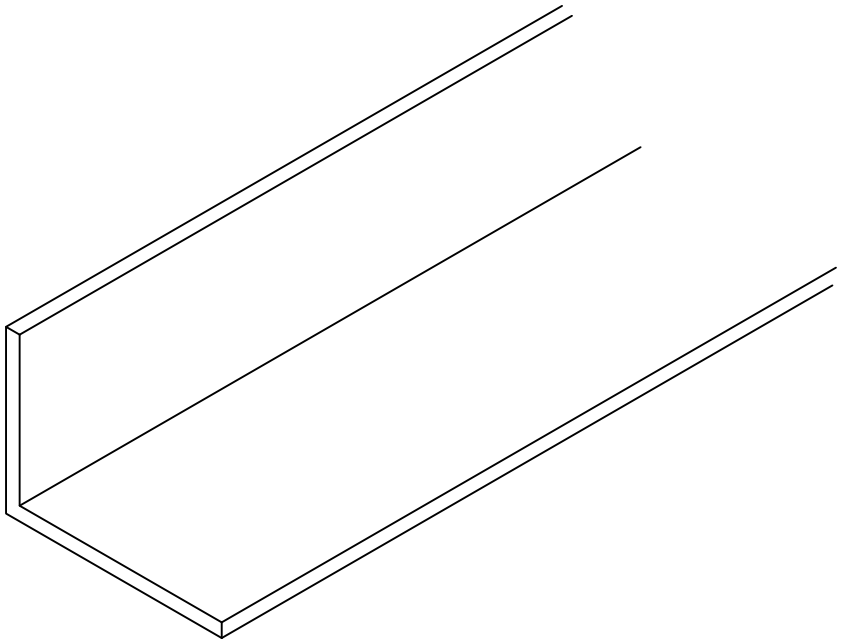
5'0" long, 16ga

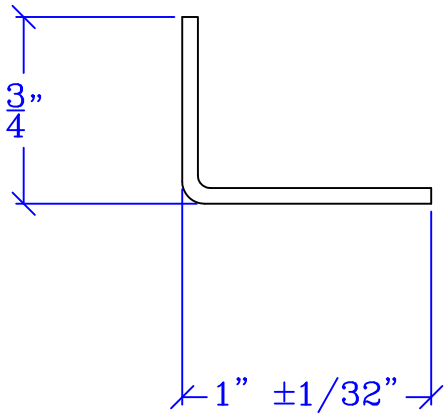




03064

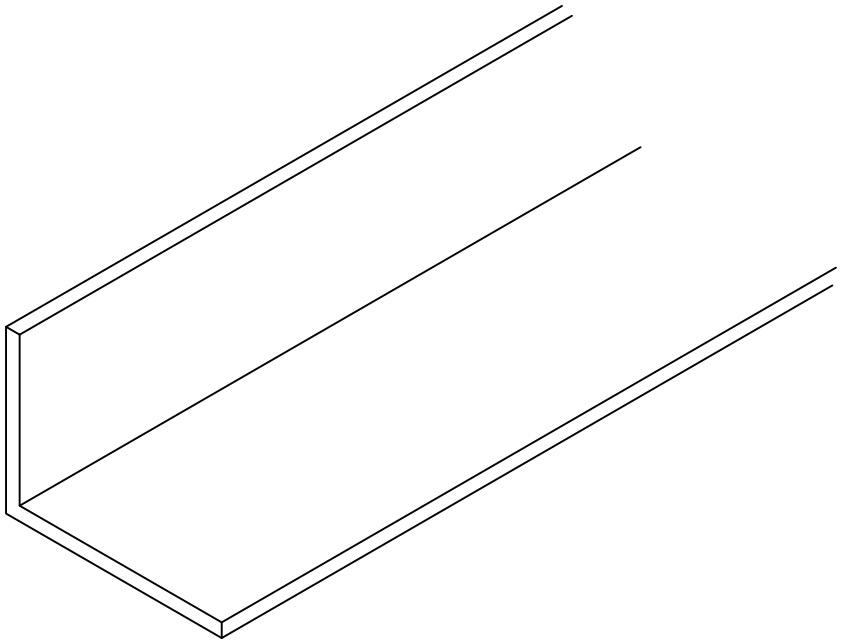
6'0" long, 16ga

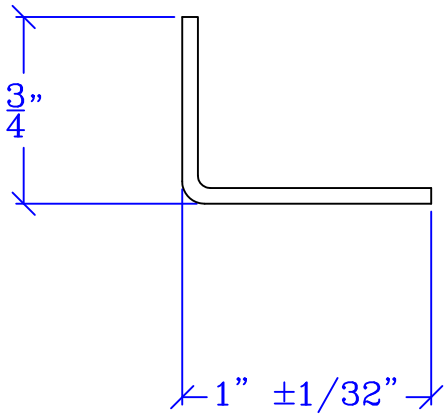




03065

10'0" long, 16ga

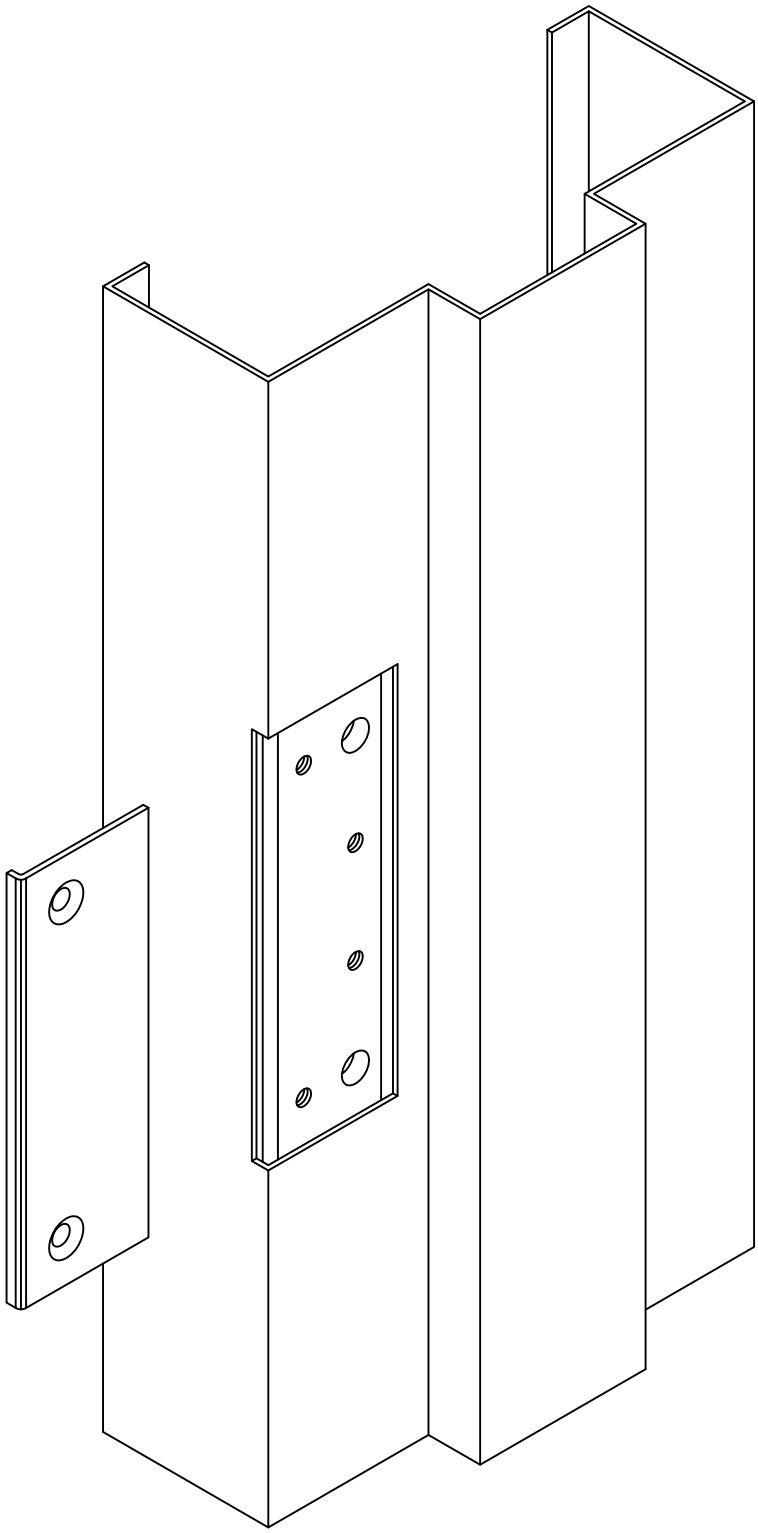


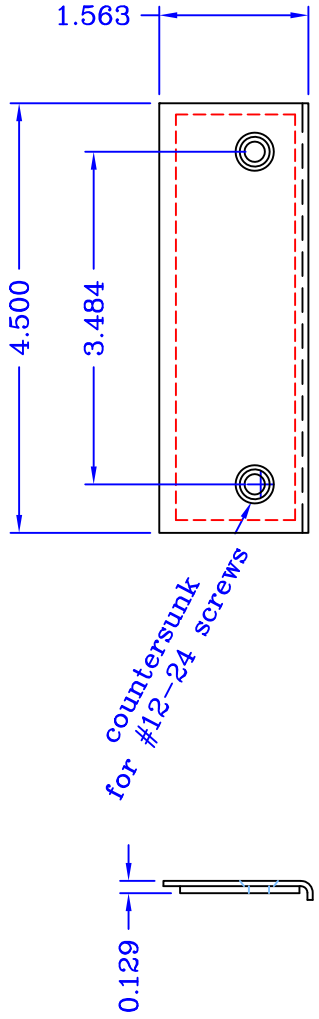


03066

4 1/2" standard weight hinge filler, screwed

for 1 3/4" thick door

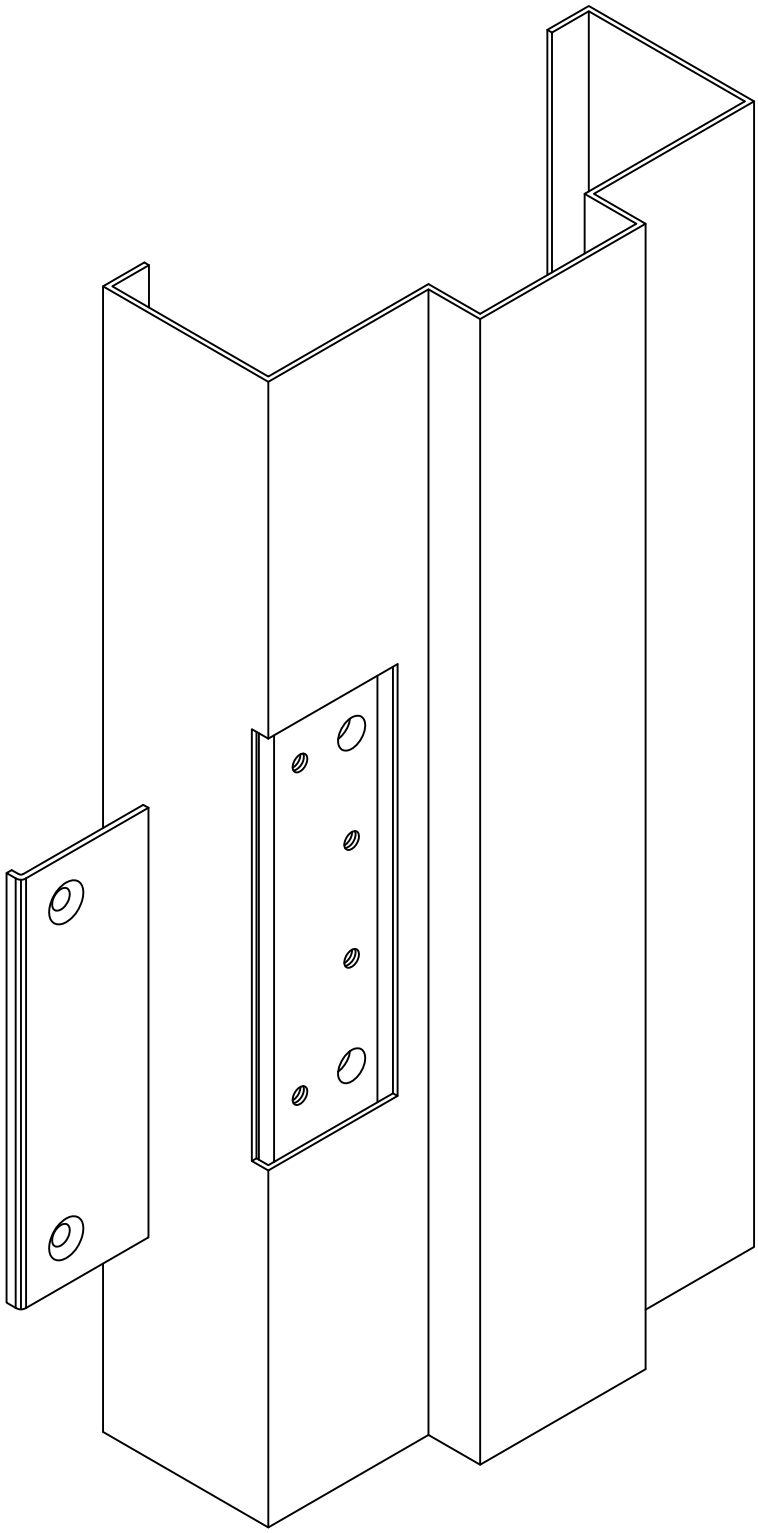


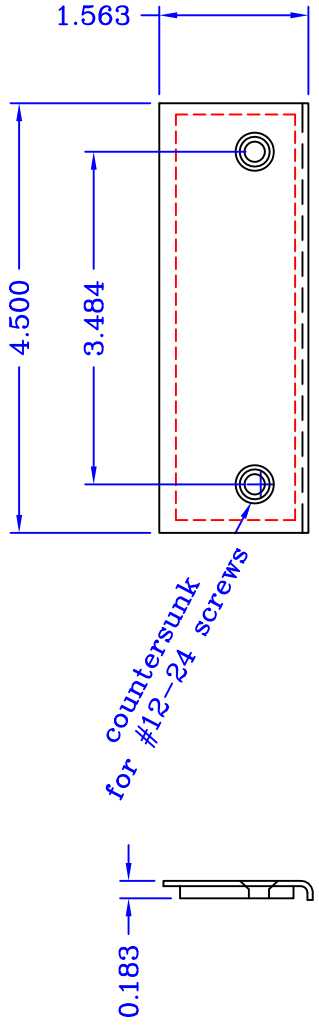


00541

4 1/2" heavy weight hinge filler, screwed

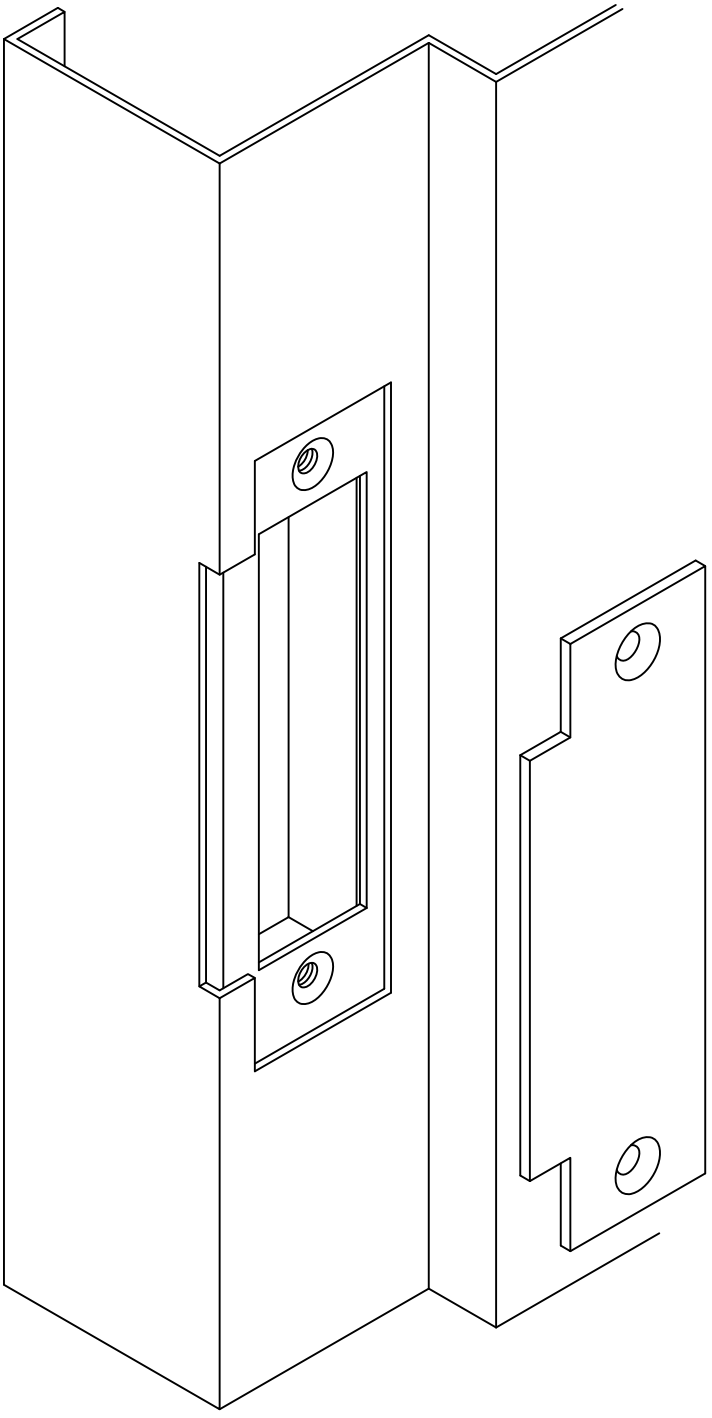
for 1 3/4" thick door

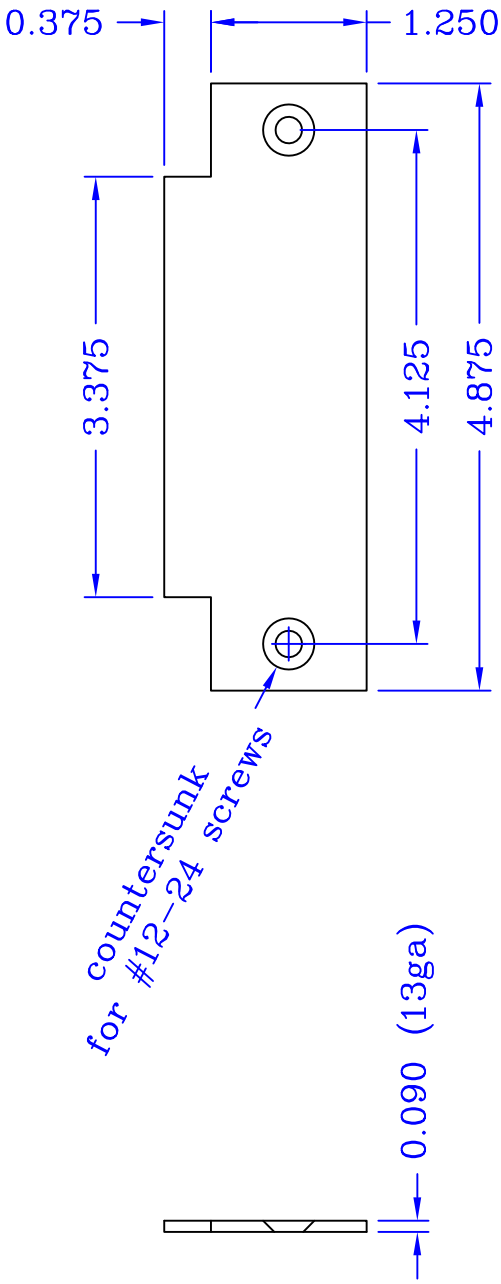




00542

ASA strike filler, screwed
for 1 3/4" thick door

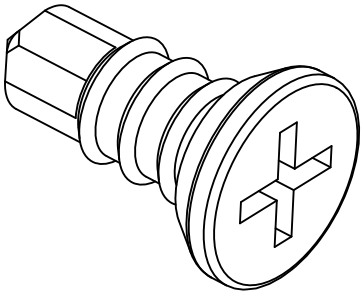


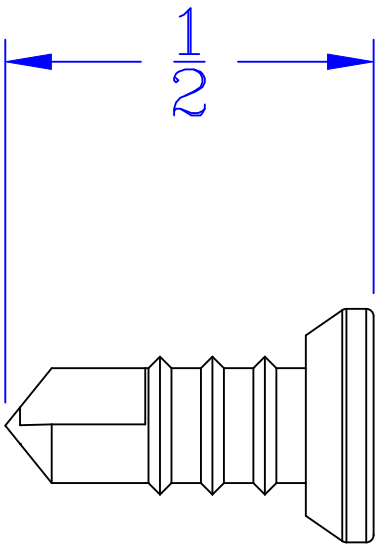


00543

Self drill screw for astragal

#8-18 x 1/2" Phillips flat undercut head ZP #2 point



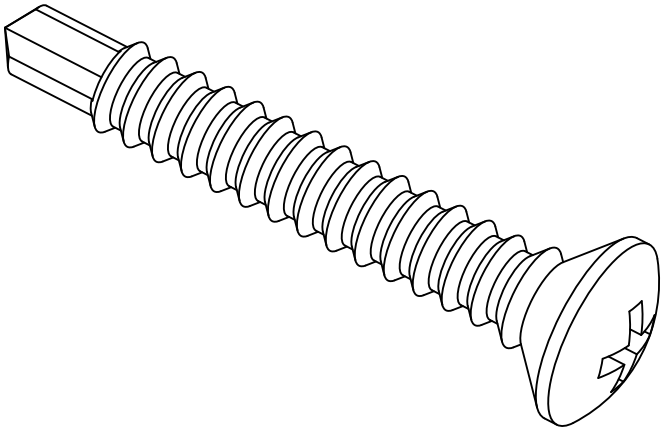


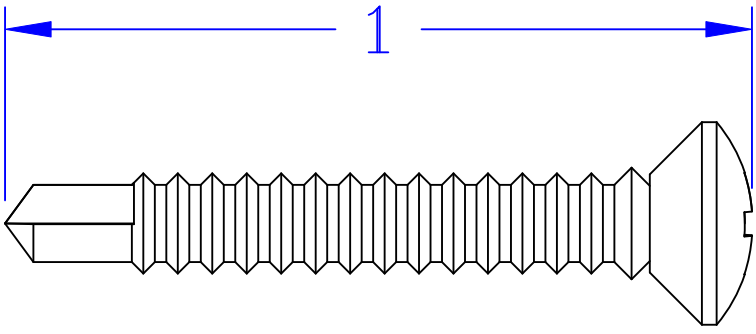
00114

See options FAS, ZAS, SAS on pages O-6.6, O-6.7, O-6.10 for additional information

Self drill screw for glazing bead

#6 x 1" Phillips oval head ZP



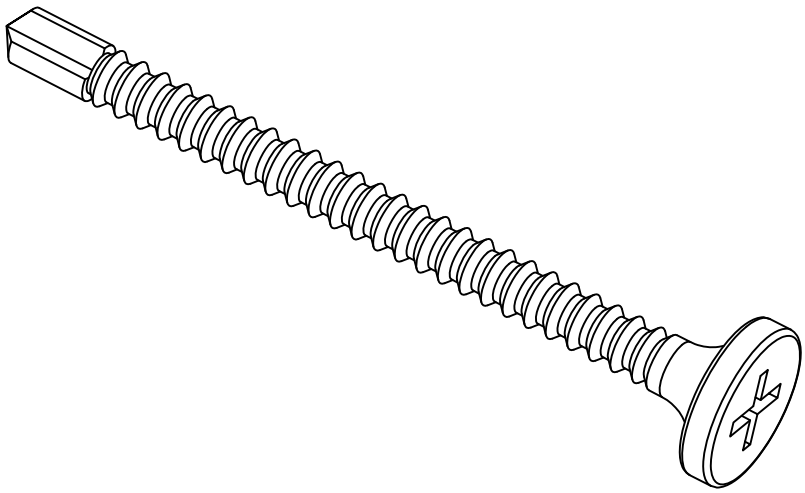


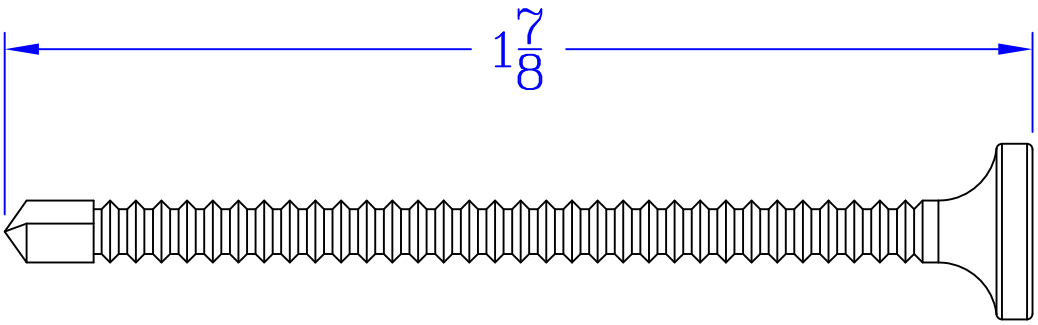
68000

See on page C-21 for additional information

Self drill screw for vinyl cap

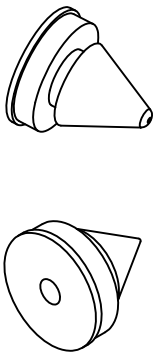
#6-20 x 1 7/8" Phillips bugle head ZP #2 point

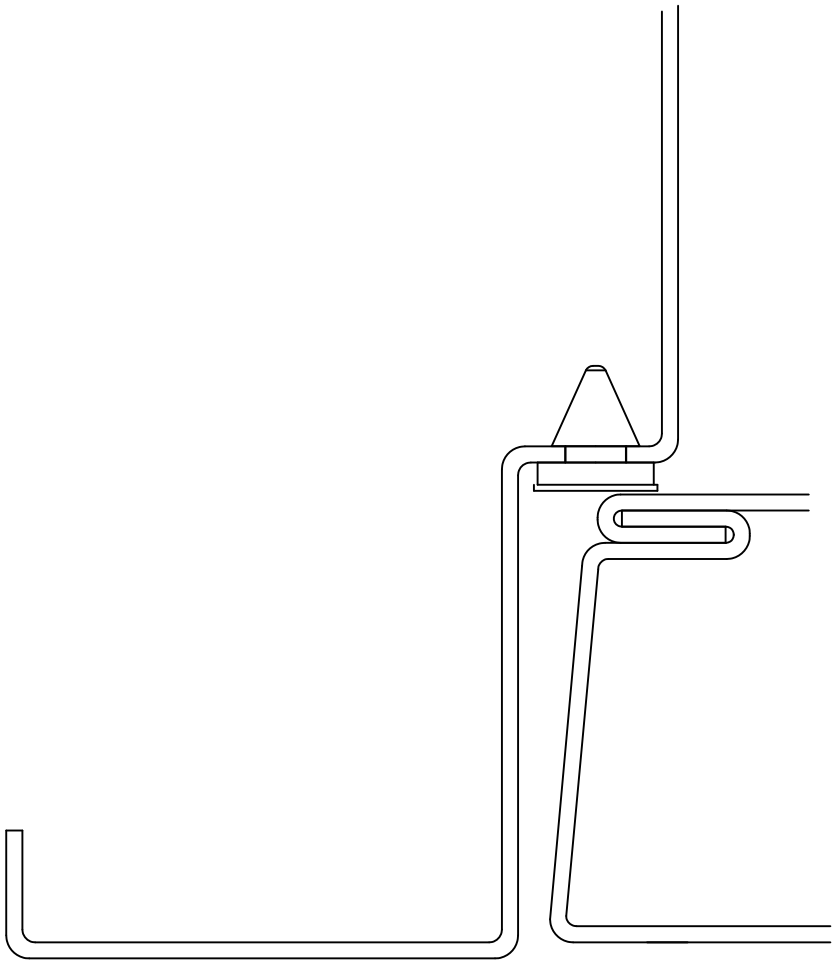




00216

Rubber bumper/silencer

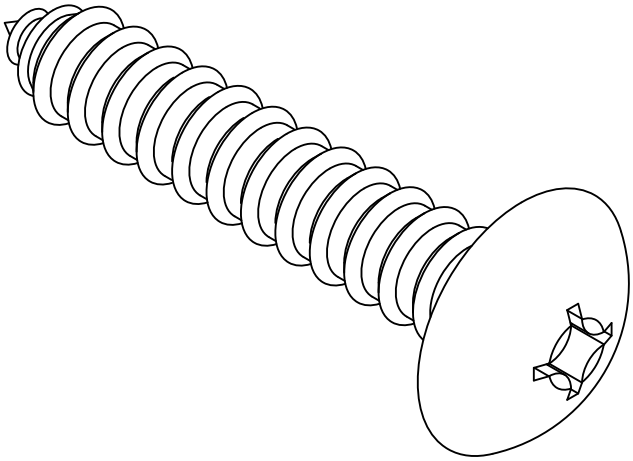


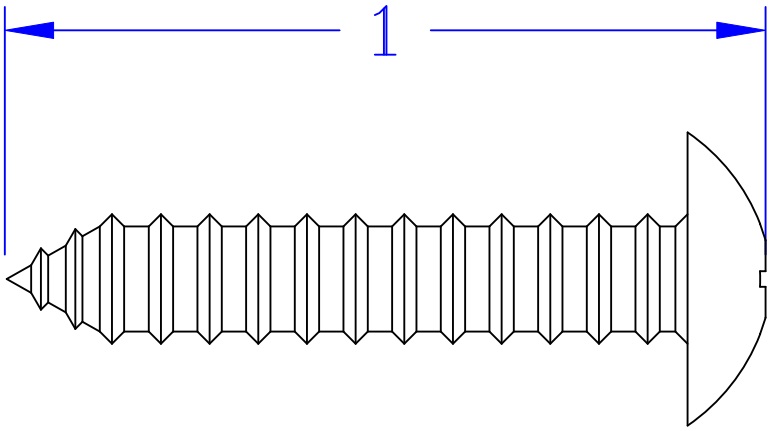


00046

Three at strike jamb or two at head when paired opening

Knock down screw
#8 -15 x 1" Phillips Truss Head SS



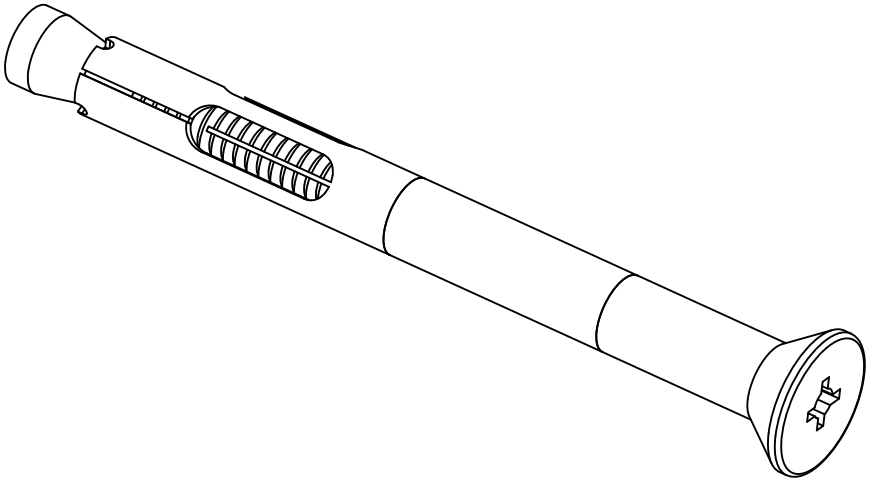


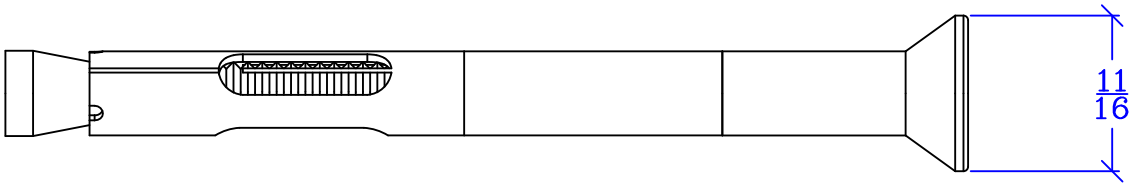
58930

See option KDS on page O-15.30 for additional information

Masonry sleeve anchor

3/8" x 4"



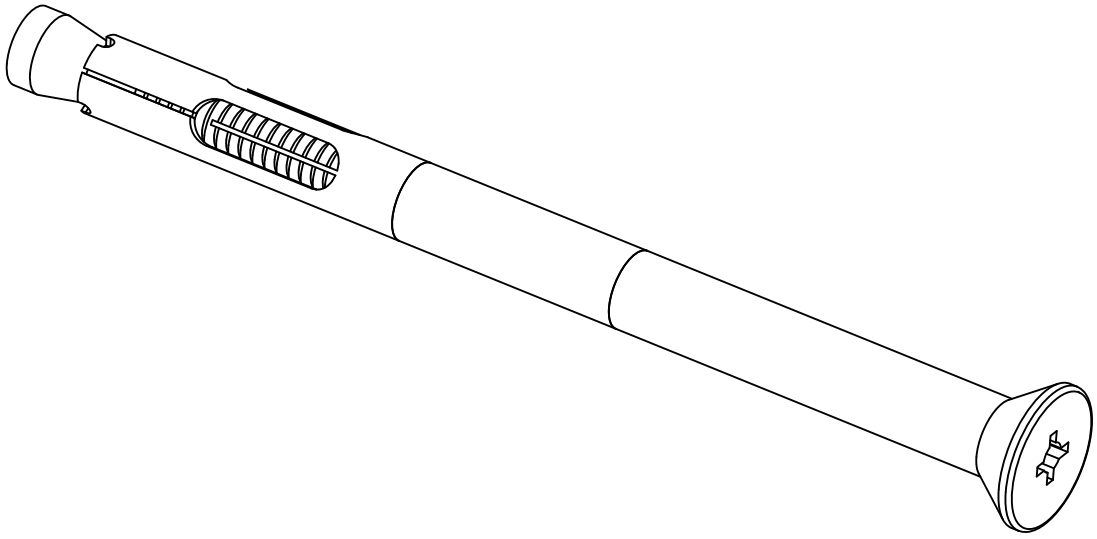


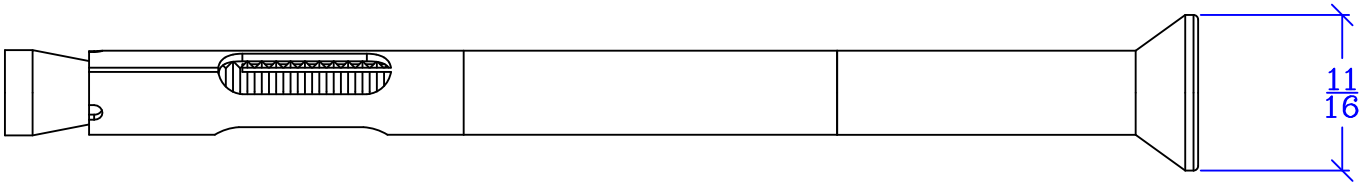
00087

See options EWA, EWANOR, EWAP, EWAT on pages O-15.12, O-15.15, O-15.16, O-15.18 for additional information

Masonry sleeve anchor

3/8" x 5"

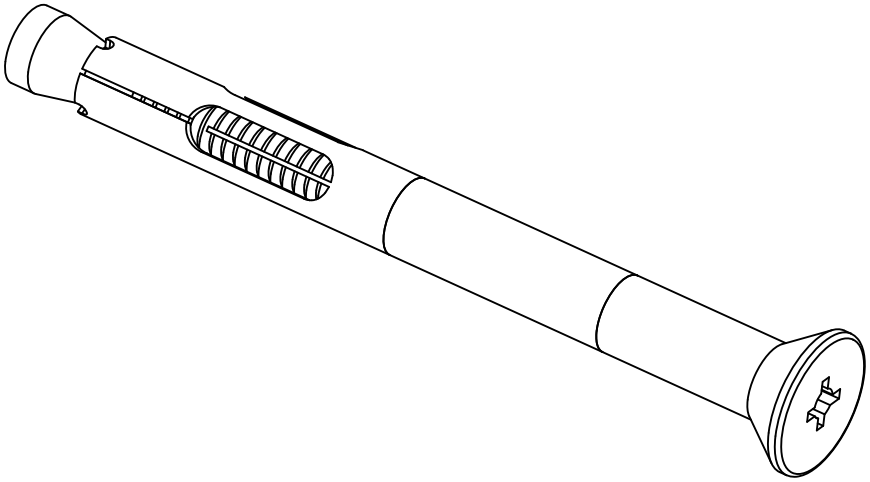


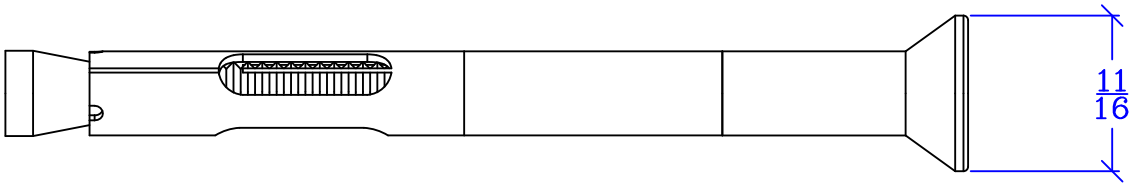


00088

See options EWA, EWANOR, EWAP, EWAT on pages O-15.12, O-15.15, O-15.16, O-15.18 for additional information

Masonry sleeve anchor
3/8" x 4" stainless steel

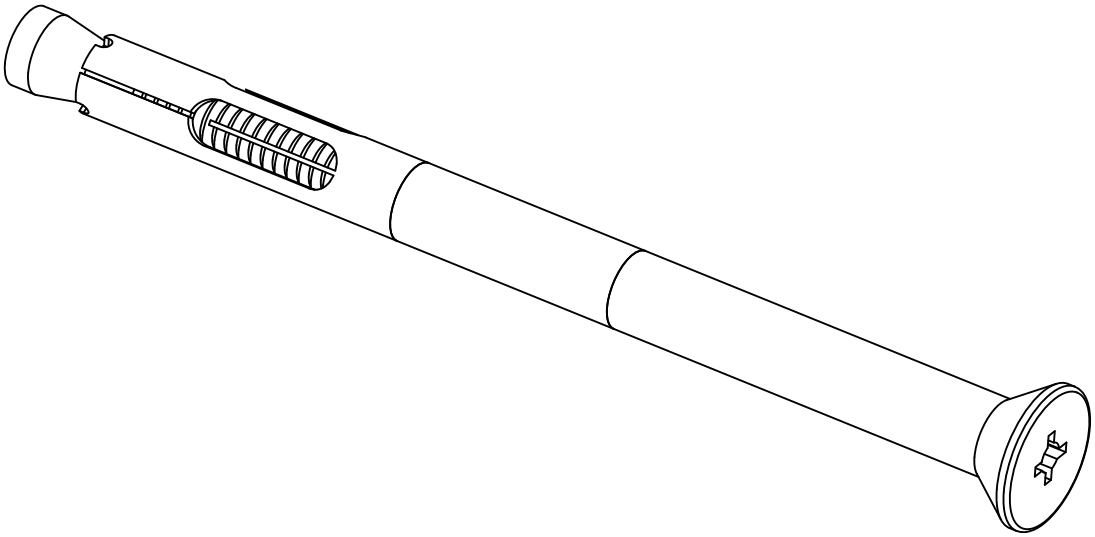


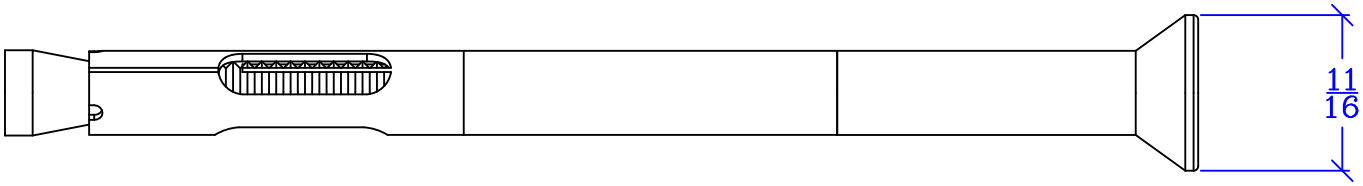


00190

See options EWA, EWANOR on pages O-15.12, O-15.15 for additional information

Masonry sleeve anchor
3/8" x 5" stainless steel





00209

See options EWA, EWANOR on pages O-15.12, O-15.15 for additional information

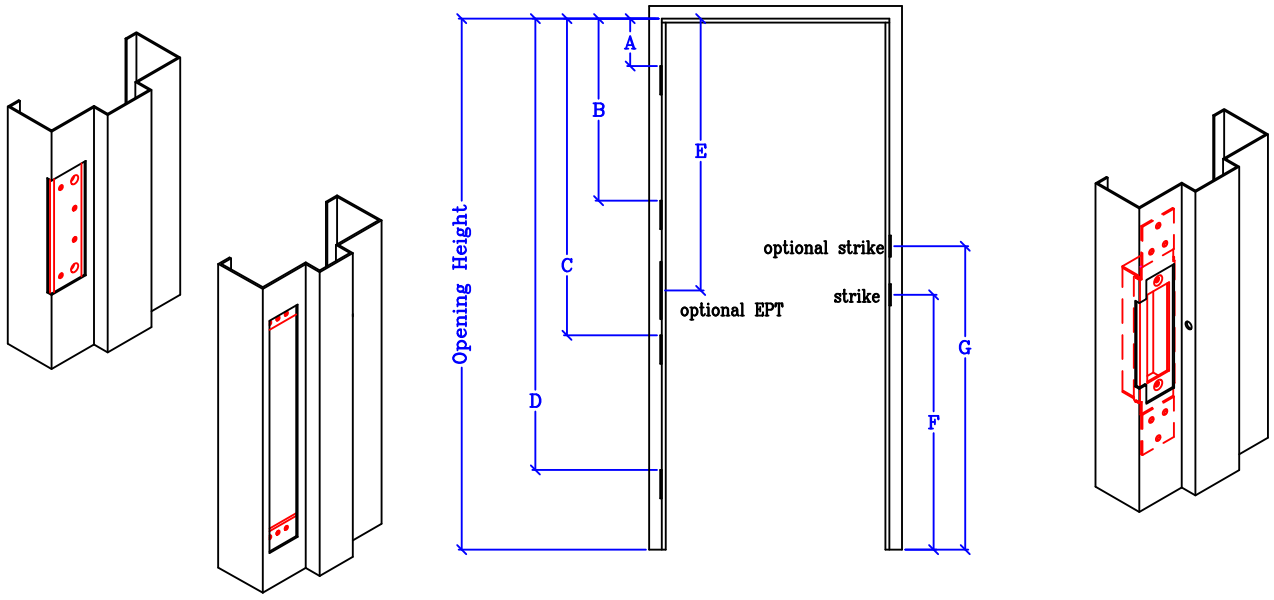
DE LA FONTAINE

HARDWARE LOCATIONS

DE LA FONTAINE

HARDWARE LOCATION PAGE

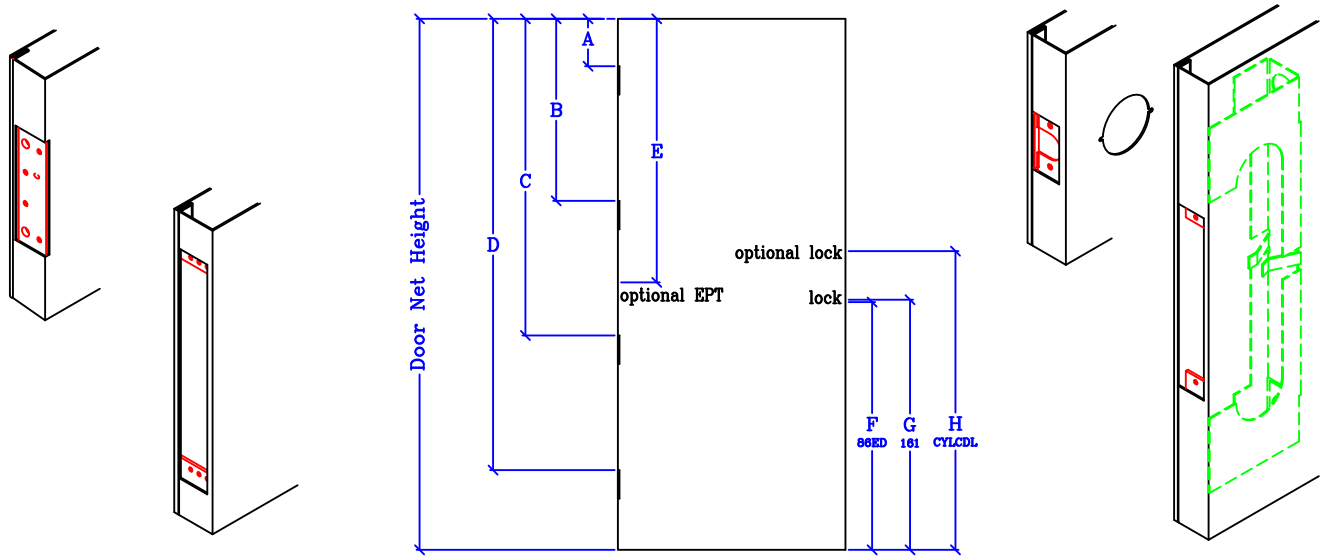
4 1/2" hinge, strike and EPT location



Opening Height	Hinge size	Qt.	Machining Dimensions						
			A	B	C	D	E	F	G
6'6"(78")	4½"	3	7½"	36 7/16"	65 3/8"		24 7/32"	40 5/16"	48"
6'8"(80")	4½"	3	7½"	37 7/16"	67 3/8"		24 23/32"	40 5/16"	48"
6'8"(80")	4½"	4	7½"	27 29/64"	47 13/32"	67 15/64"	39 11/16"	40 5/16"	48"
6'10"(82")	4½"	3	7½"	38 7/16"	69 3/8"		25 7/32"	40 5/16"	48"
6'10"(82")	4½"	4	7½"	28 1/8"	48 3/4"	69 1/4"	40 11/16"	40 5/16"	48"
7'0"(84")	4½"	3	7½"	39 7/16"	71 3/8"		25 23/32"	40 5/16"	48"
7'0"(84")	4½"	4	7½"	28 51/64"	50 3/32"	71 17/64"	41 11/16"	40 5/16"	48"
7'2"(86")	4½"	3	7½"	40 7/16"	73 3/8"		26 7/32"	40 5/16"	48"
7'2"(86")	4½"	4	7½"	29 29/64"	51 13/32"	73 15/64"	42 11/16"	40 5/16"	48"
7'4"(88")	4½"	3	7½"	41 7/16"	75 3/8"		26 23/32"	40 5/16"	48"
7'4"(88")	4½"	4	7½"	40 1/8"	52 3/4"	75 1/4"	43 11/16"	40 5/16"	48"
7'6"(90")	4½"	3	7½"	42 7/16"	77 3/8"		27 7/32"	40 5/16"	48"
7'6"(90")	4½"	4	7½"	30 51/64"	54 3/32"	77 17/64"	44 11/16"	40 5/16"	48"
7'8"(92")	4½"	4	7½"	31 29/64"	55 13/32"	79 15/64"	45 11/16"	40 5/16"	48"
7'10"(94")	4½"	4	7½"	32 1/8"	56 3/4"	81 1/4"	46 11/16"	40 5/16"	48"
8'0"(96")	4½"	4	7½"	32 51/64"	58 3/32"	83 17/64"	47 11/16"	40 5/16"	48"
10'0"(120")	4½"	4	7½"	40 51/64"	74 3/32"	107 17/64"	59 11/16"	40 5/16"	48"

Top to top hinge location
Top to center EPT location
Bottom to center strike location

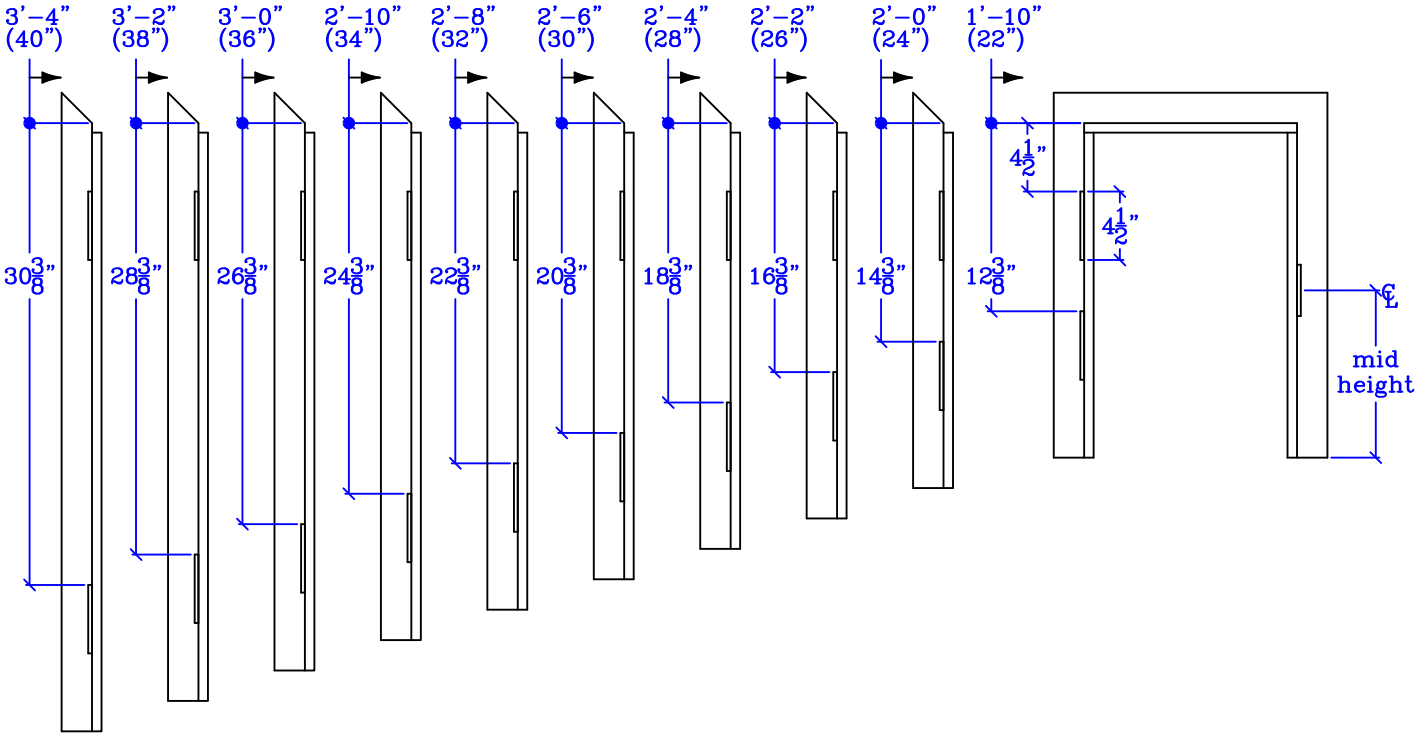
4 1/2" hinge, EPT and lock location

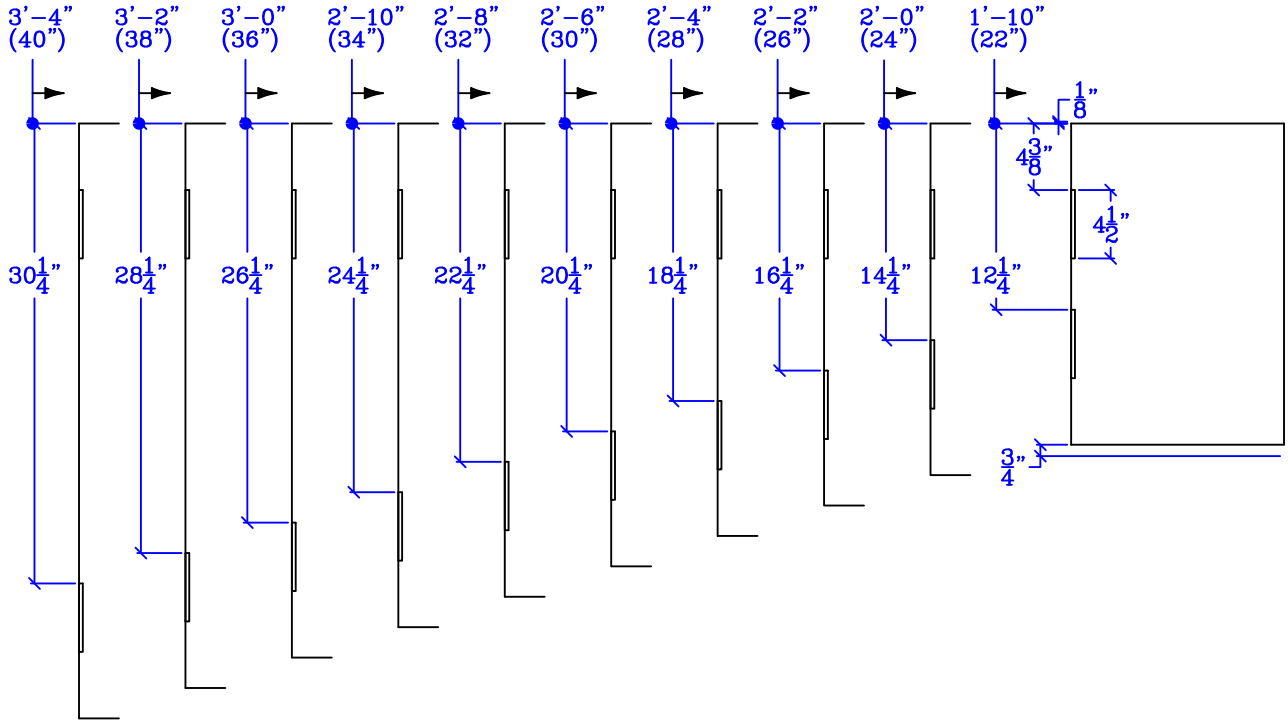


Door Nominal Height	Hinge size	Qt.	Machining Dimensions							
			A	B	C	D	E	F	G	H
6'6"(78")	4½"	3	7⅜"	36 5/16"	65¼"		24 3/32"	39 3/16"	39 9/16"	47¼"
6'8"(80")	4½"	3	7⅜"	37 5/16"	67¼"		24 19/32"	39 3/16"	39 9/16"	47¼"
6'8"(80")	4½"	4	7⅜"	27 21/64"	47 9/32"	67 15/64"	39 9/16"	39 3/16"	39 9/16"	47¼"
6'10"(82")	4½"	3	7⅜"	38 5/16"	69¼"		25 3/32"	39 3/16"	39 9/16"	47¼"
6'10"(82")	4½"	4	7⅜"	28"	48⅝"	69¼"	40 9/16"	39 3/16"	39 9/16"	47¼"
7'0"(84")	4½"	3	7⅜"	39 5/16"	71¼"		25 19/32"	39 3/16"	39 9/16"	47¼"
7'0"(84")	4½"	4	7⅜"	28 43/64"	49 31/32"	71 17/64"	41 9/16"	39 3/16"	39 9/16"	47¼"
7'2"(86")	4½"	3	7⅜"	40 5/16"	73¼"		26 3/32"	39 3/16"	39 9/16"	47¼"
7'2"(86")	4½"	4	7⅜"	29 21/64"	51 9/32"	73 15/64"	42 9/16"	39 3/16"	39 9/16"	47¼"
7'4"(88")	4½"	3	7⅜"	41 5/16"	75¼"		26 19/32"	39 3/16"	39 9/16"	47¼"
7'4"(88")	4½"	4	7⅜"	30"	52⅝"	75¼"	43 9/16"	39 3/16"	39 9/16"	47¼"
7'6"(90")	4½"	3	7⅜"	42 5/16"	77¼"		27 3/32"	39 3/16"	39 9/16"	47¼"
7'6"(90")	4½"	4	7⅜"	30 43/64"	53 31/32"	77 17/64"	44 9/16"	39 3/16"	39 9/16"	47¼"
7'8"(92")	4½"	4	7⅜"	31 21/64"	55 9/32"	79 15/64"	45 9/16"	39 3/16"	39 9/16"	47¼"
7'10"(94")	4½"	4	7⅜"	32"	56⅝"	81¼"	46 9/16"	39 3/16"	39 9/16"	47¼"
8'0"(96")	4½"	4	7⅜"	32 43/64"	57 31/32"	83 17/64"	47 9/16"	39 3/16"	39 9/16"	47¼"
10'0"(120")	4½"	4	7⅜"	40 43/64"	73 31/32"	107 17/64"	59 9/16"	39 3/16"	39 9/16"	47¼"

Top to top hinge location
Top to center EPT location
Bottom to center lock location, based on 3/4" undercut

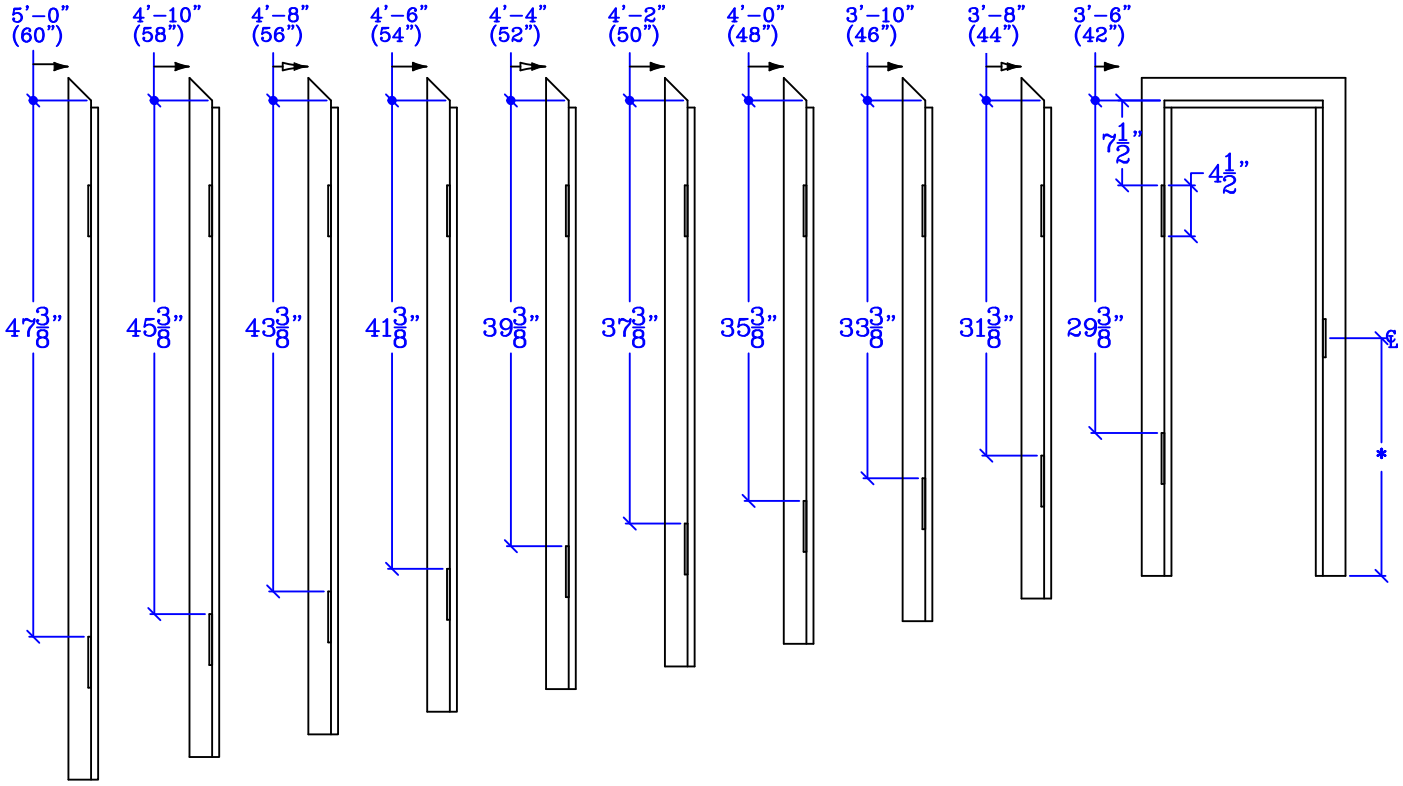
4 1/2" hinge location for 1'10" to 3'4"



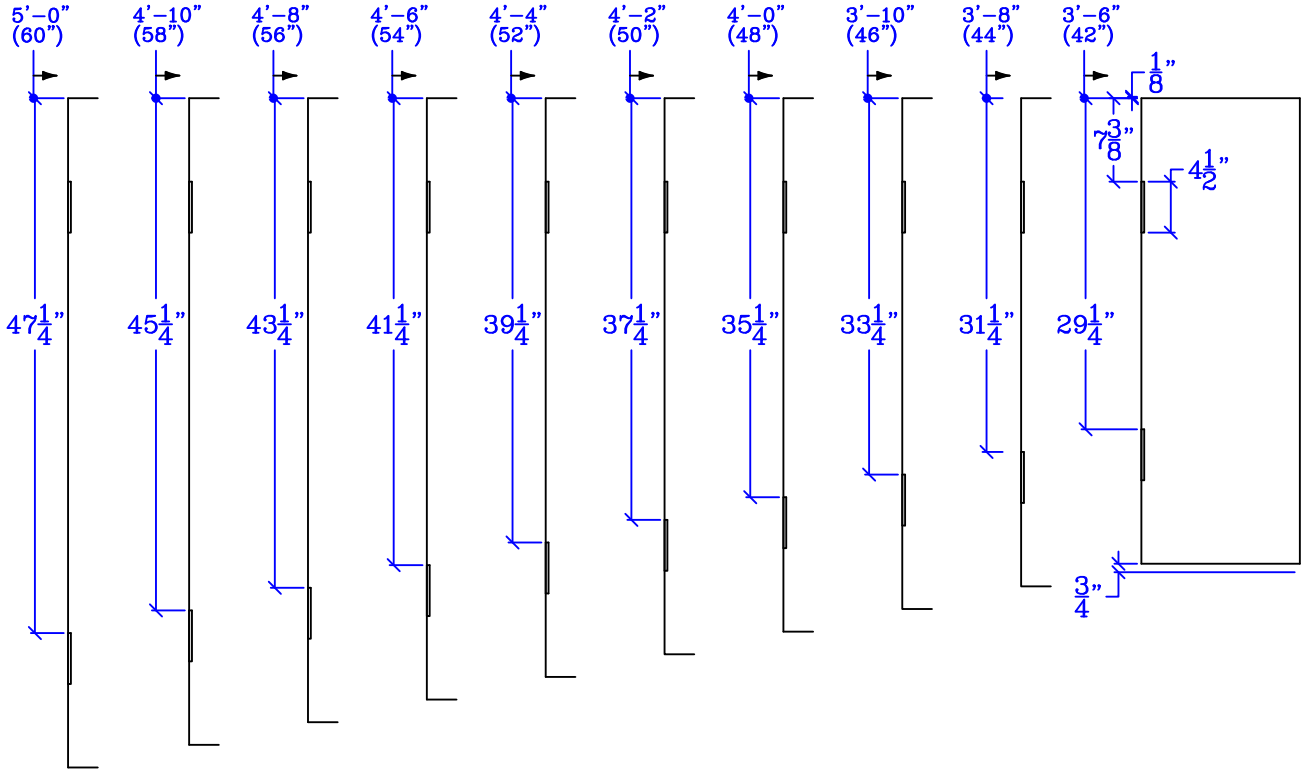


Top to top hinge locations
Bottom to center strike location

4 1/2" hinge location for 3'6" to 5'0"

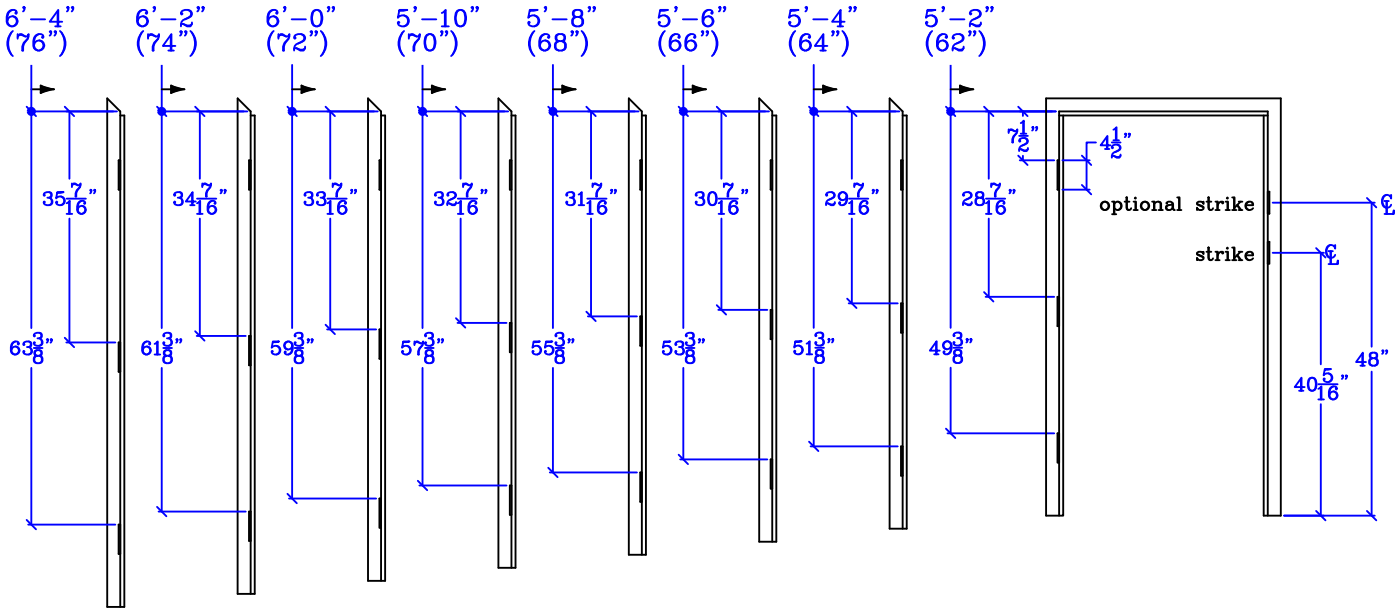


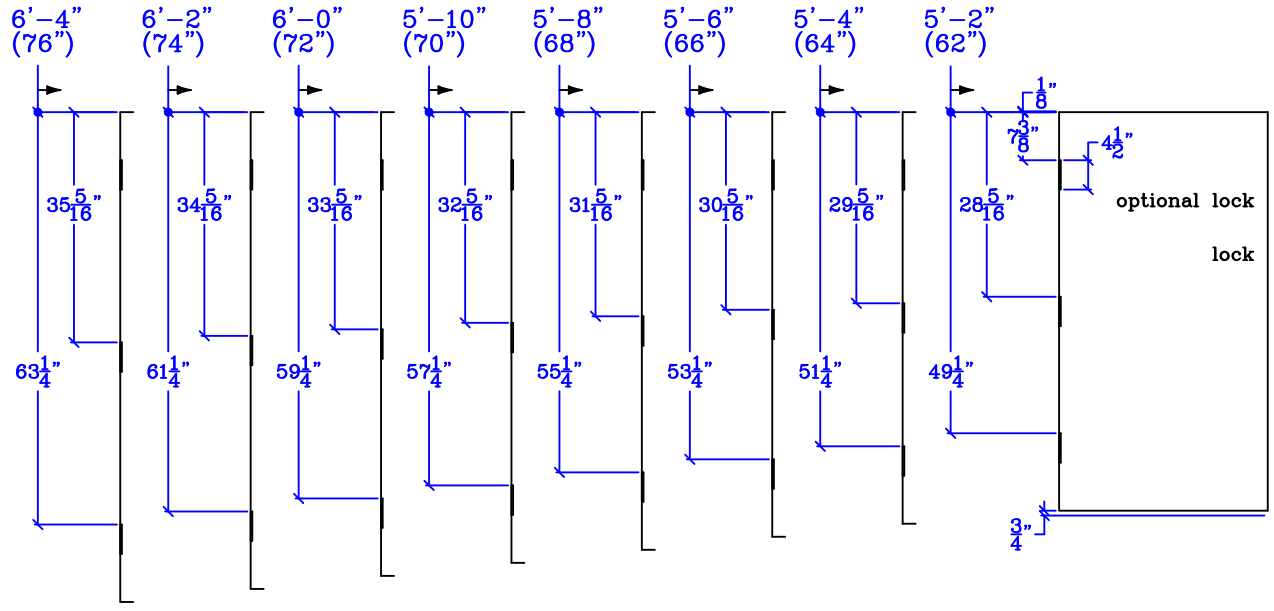
* = Mid height up to 59 15/16", 40 5/16" for greater than 60"



Top to top hinge locations
Bottom to center strike location

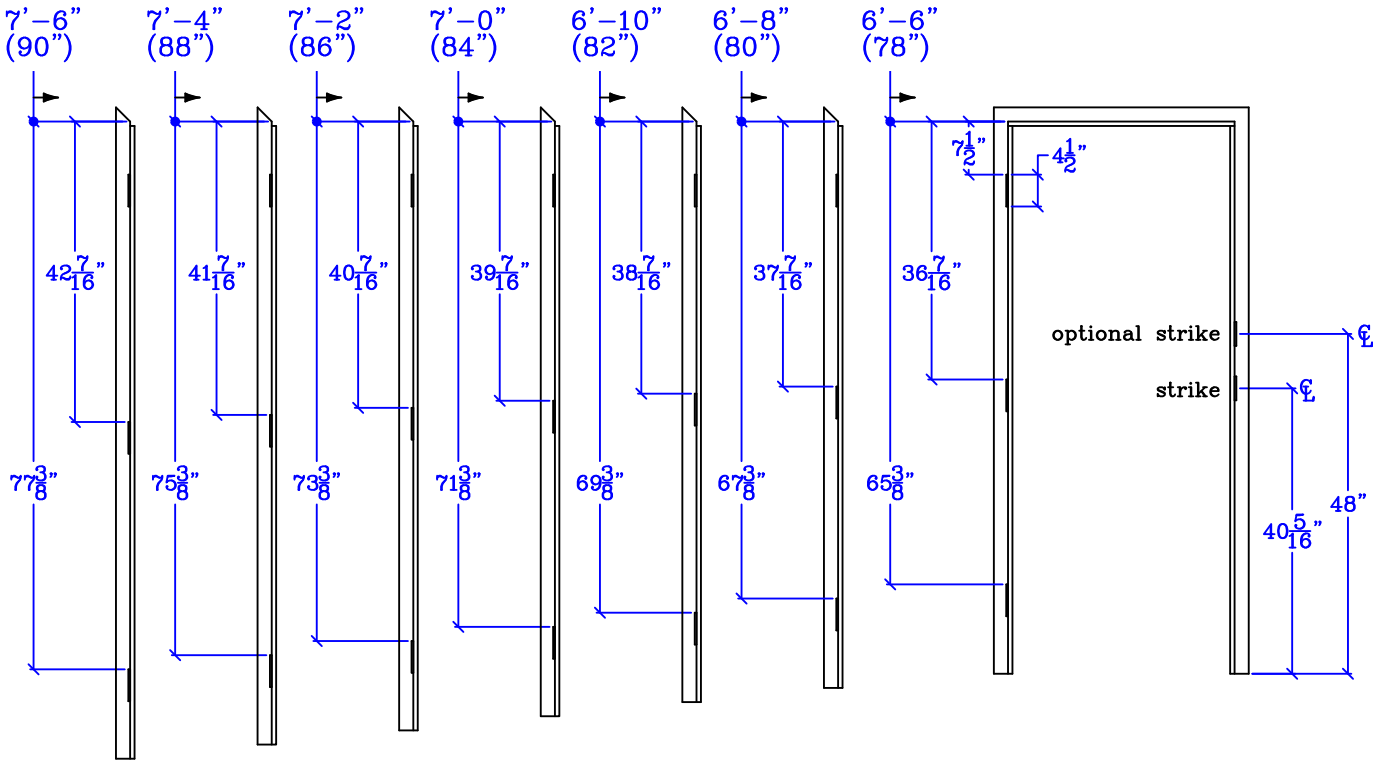
4 1/2" hinge location for 5'2" to 6'4"

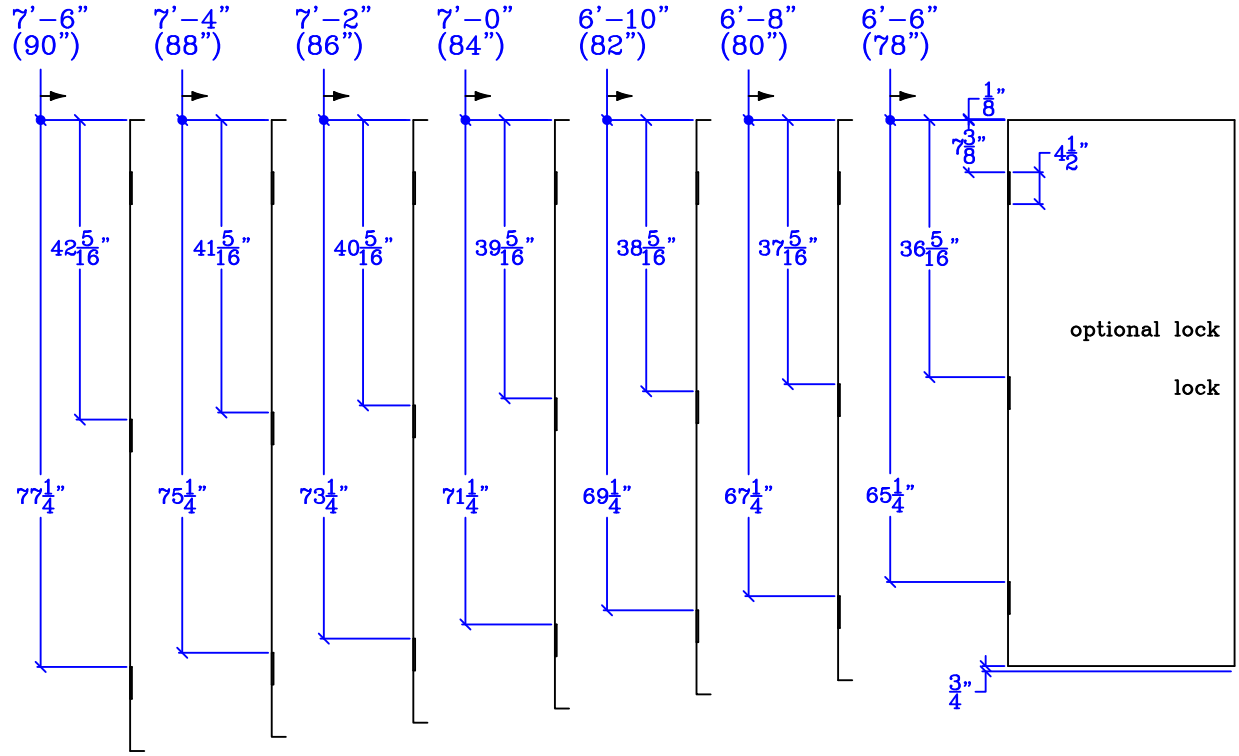




Top to top hinge locations
Bottom to center strike location

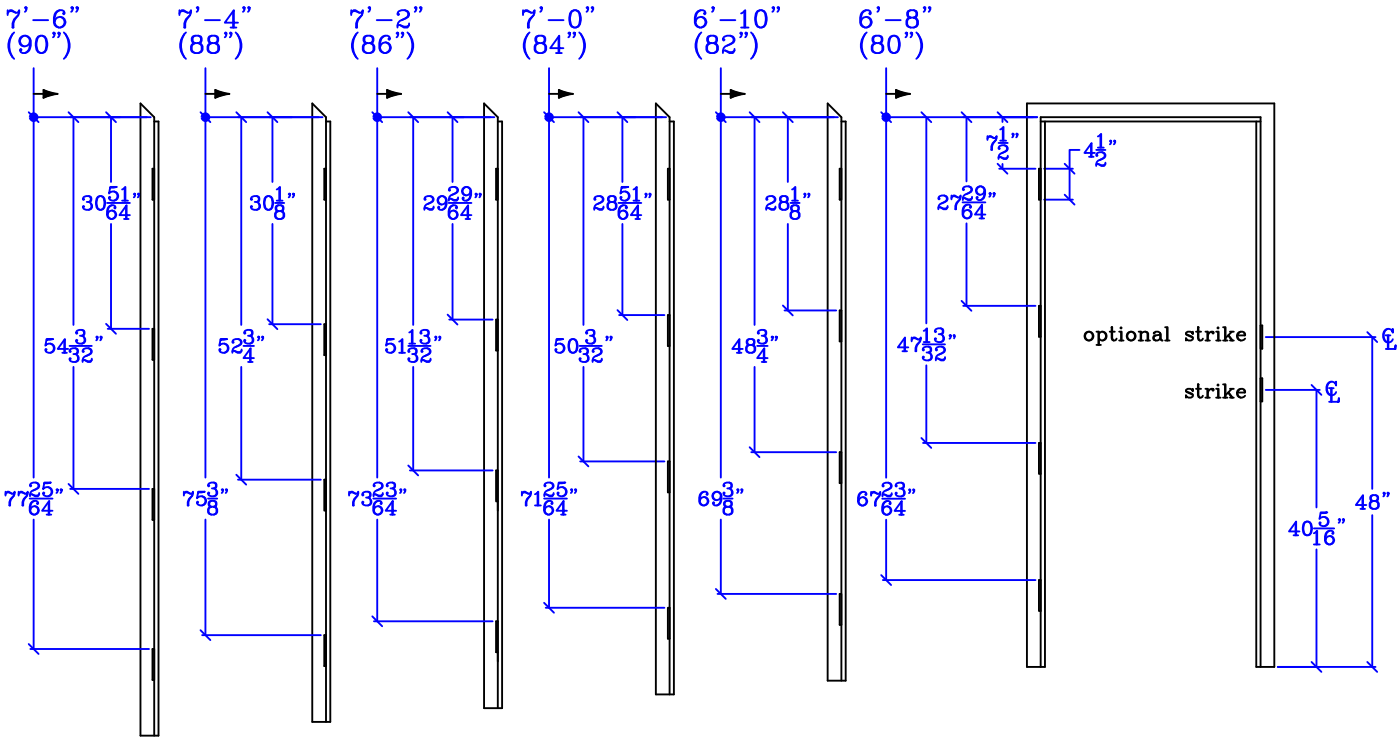
4 1/2" hinge location for 6'6" to 7'6"

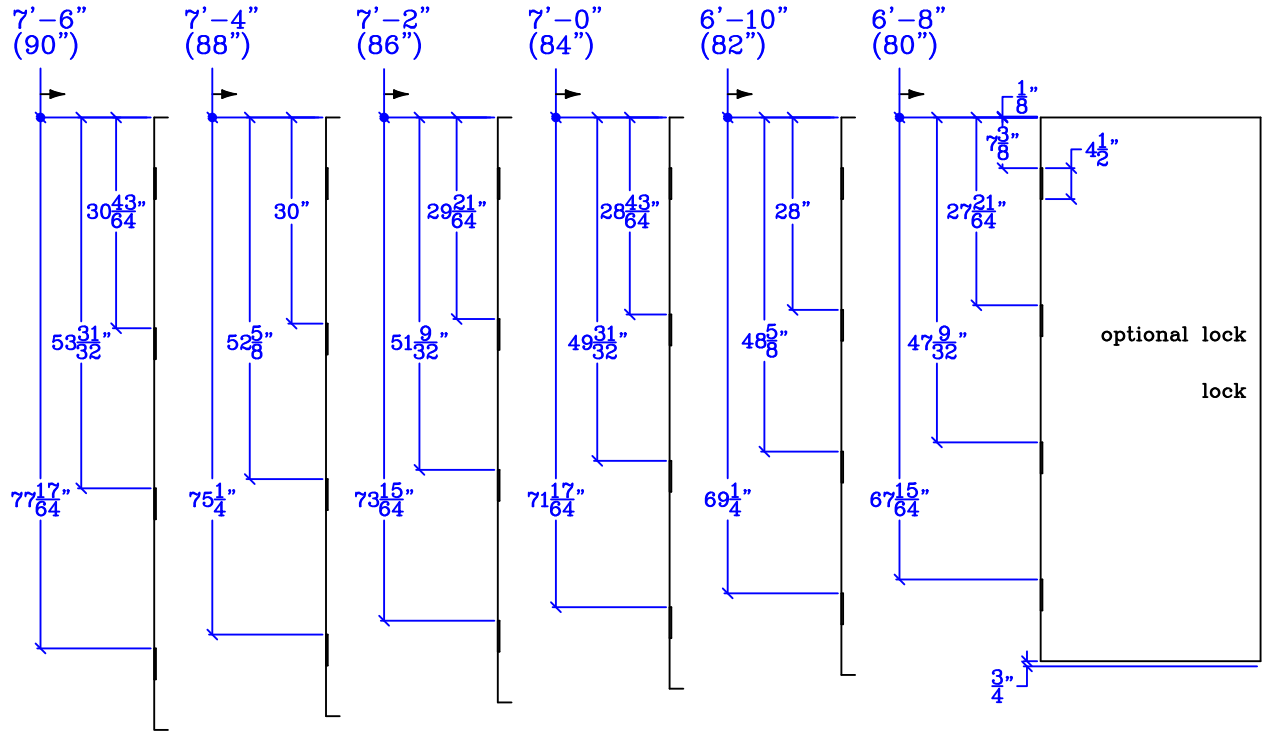




Top to top hinge locations
Bottom to center strike location

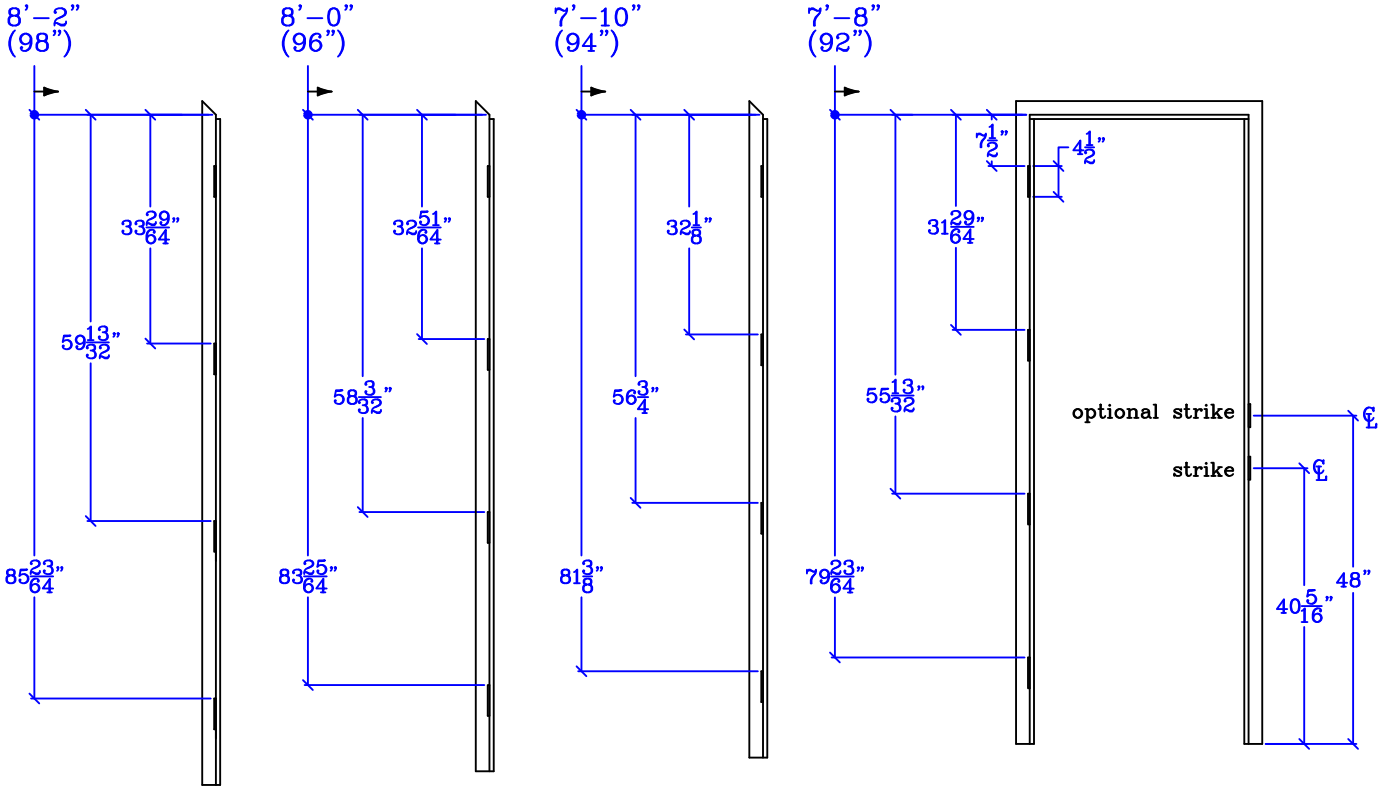
4 1/2" hinge location for 6'8" to 7'6"

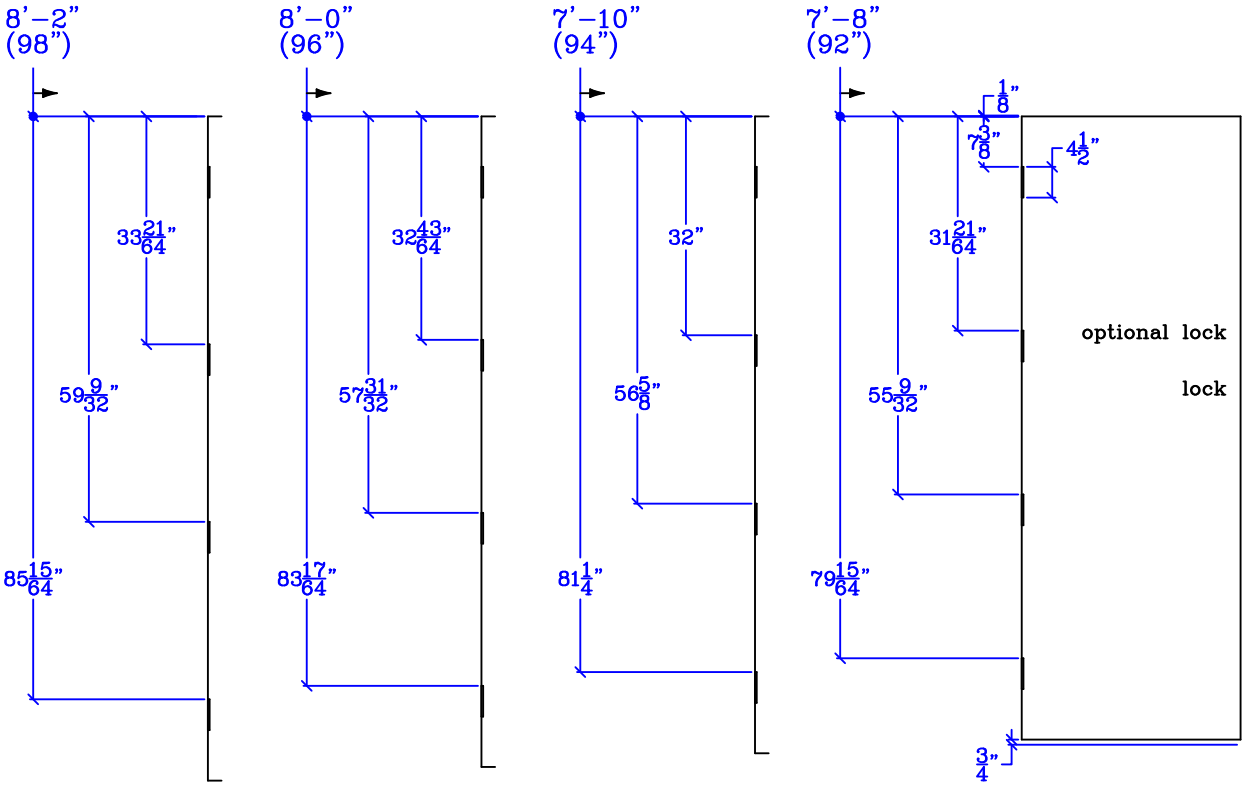




Top to top hinge locations
Bottom to center strike location

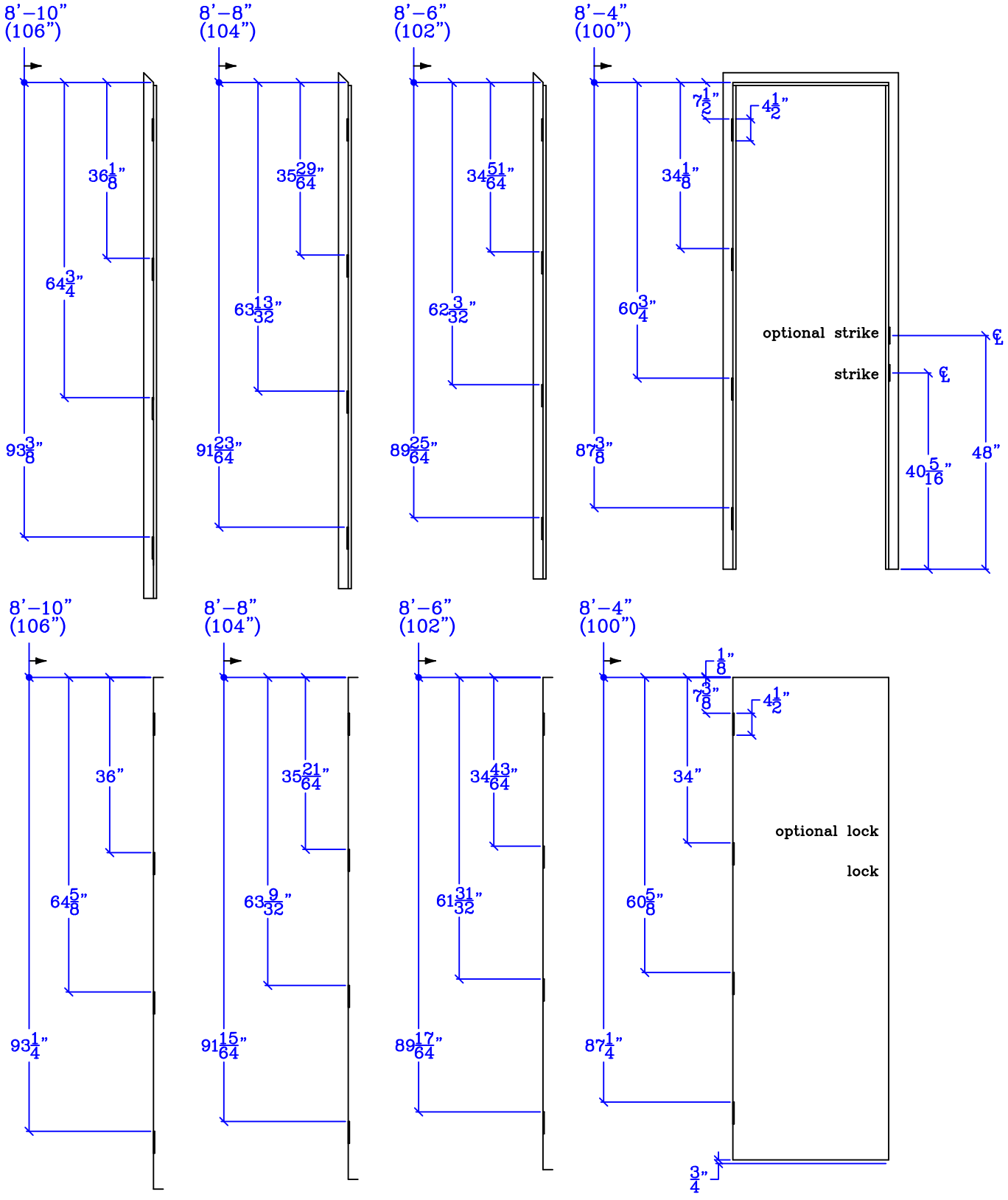
4 1/2" hinge location for 7'8" to 8'2"





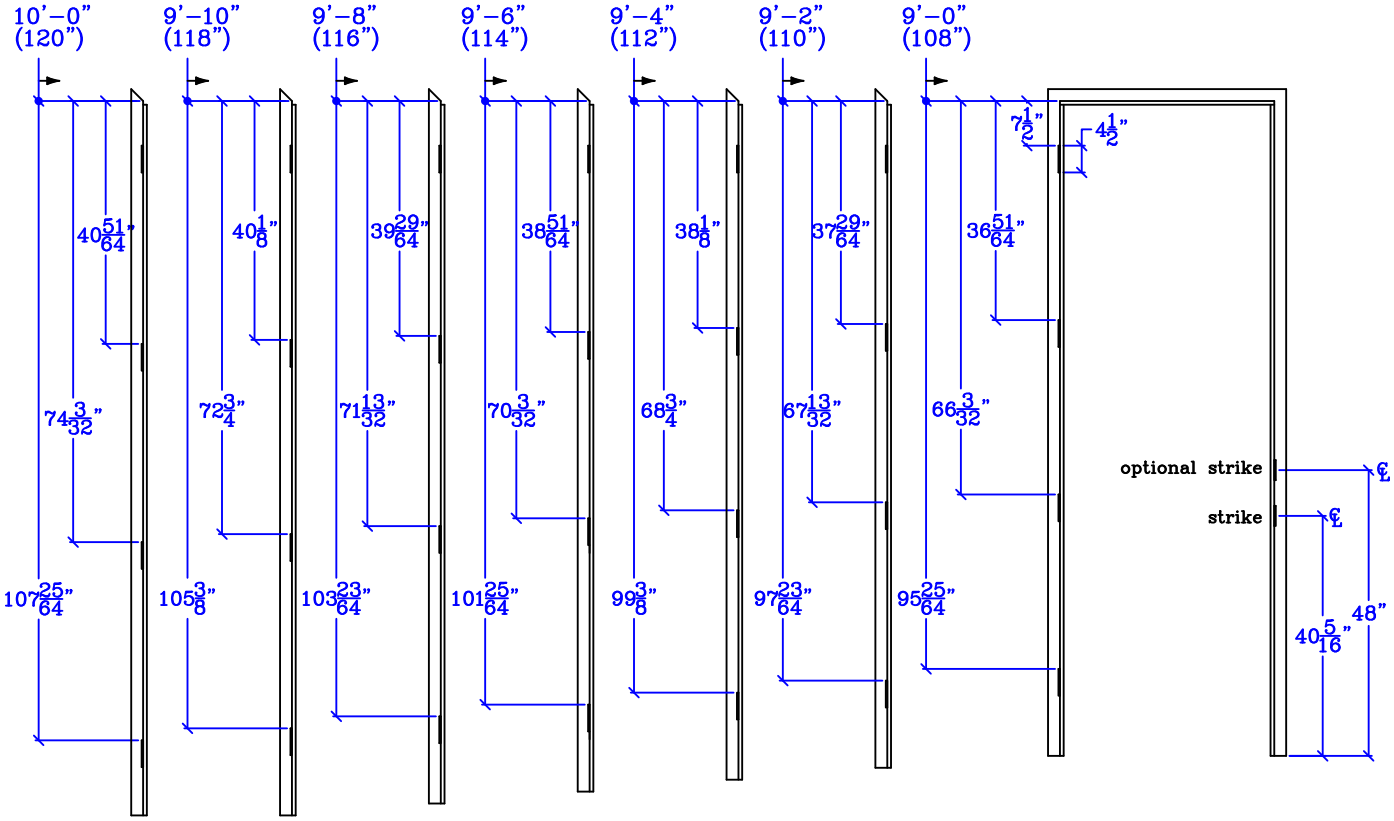
Top to top hinge locations
Bottom to center strike location

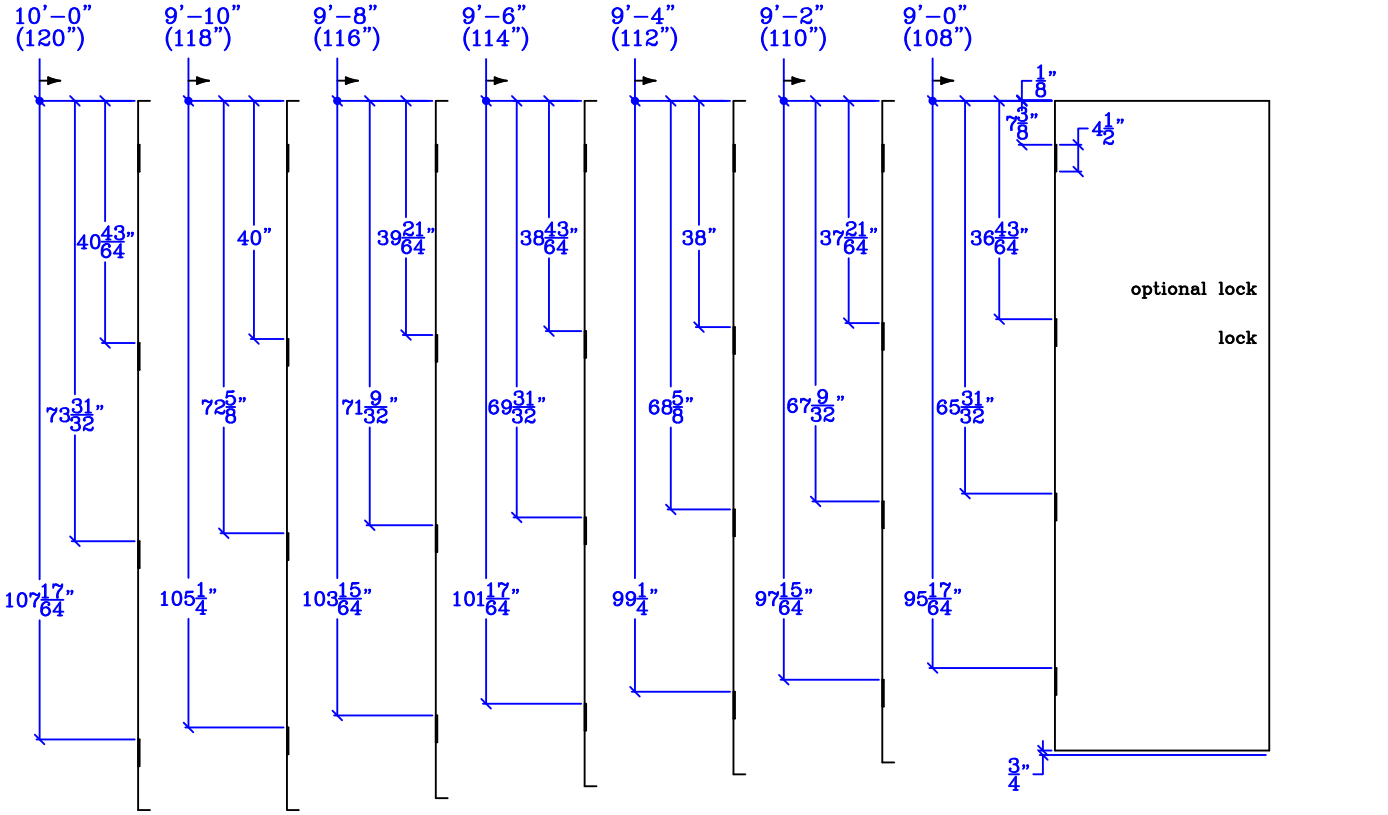
4 1/2" hinge location for 8'4" to 8'10"



Top to top hinge locations
Bottom to center strike location

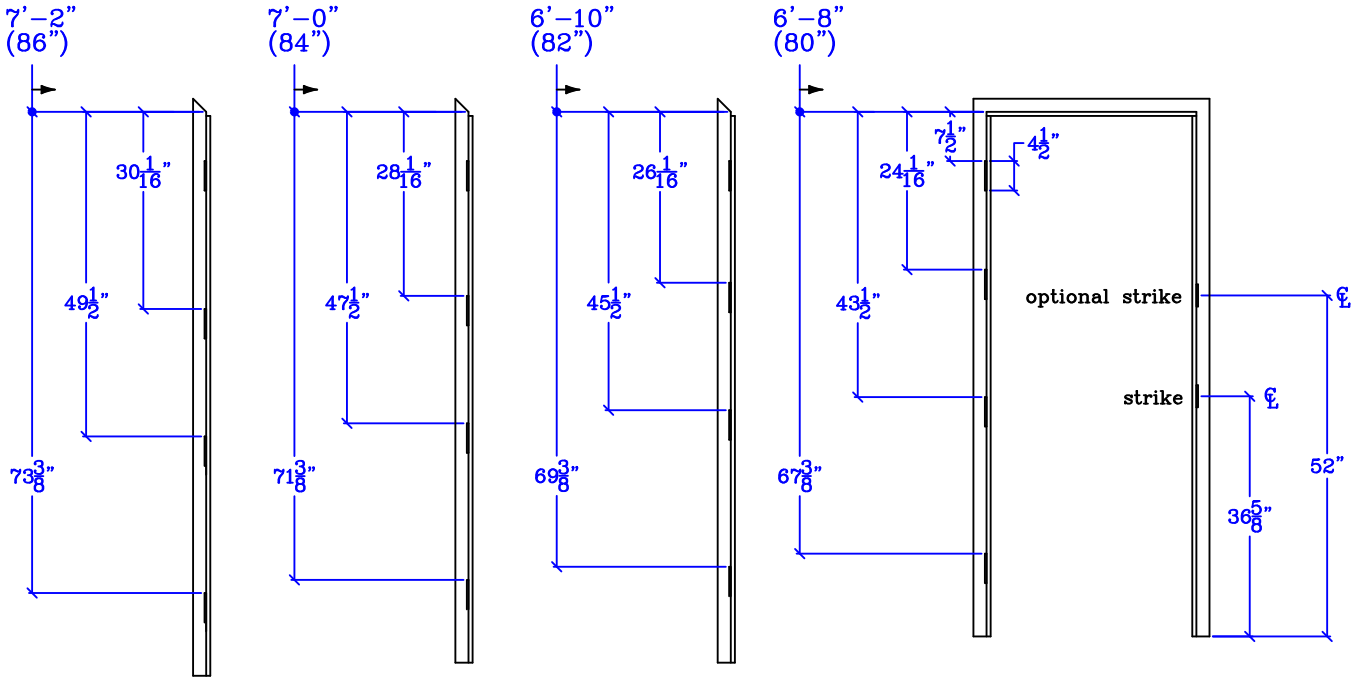
4 1/2" hinge location for 9'0" to 10'0"

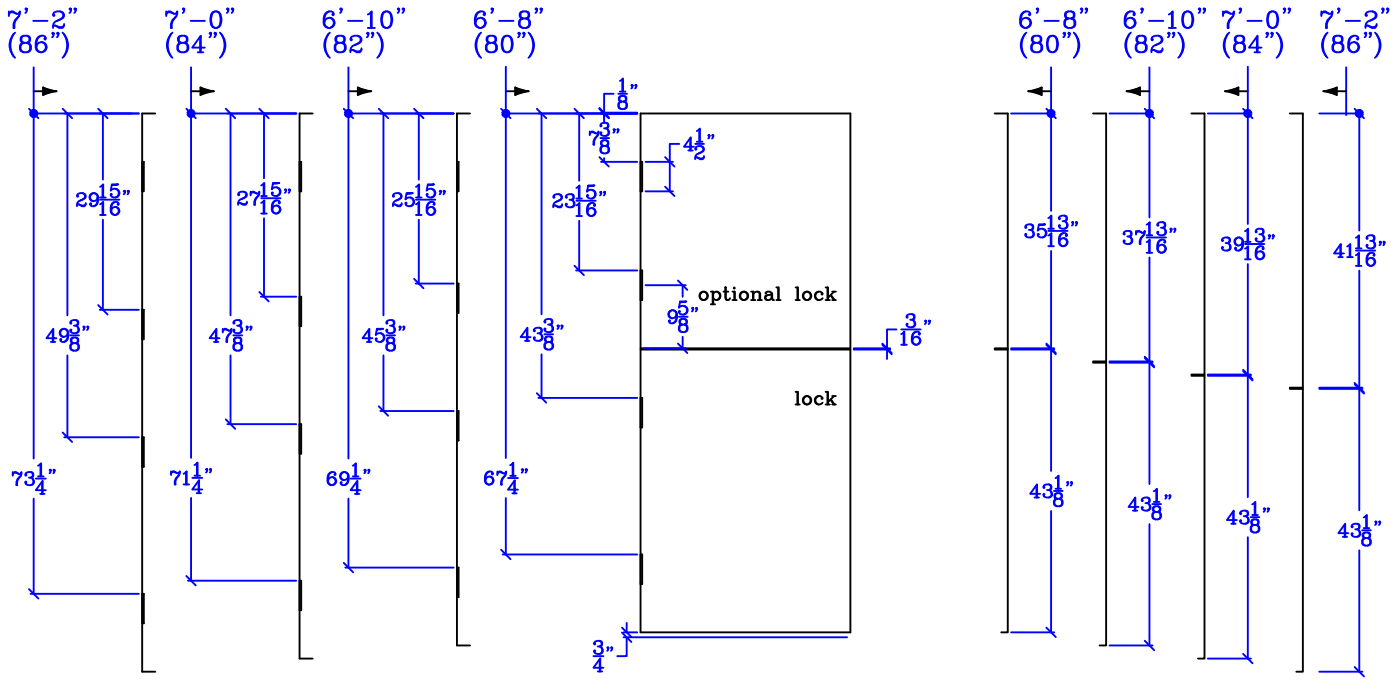




Top to top hinge locations
Bottom to center strike location

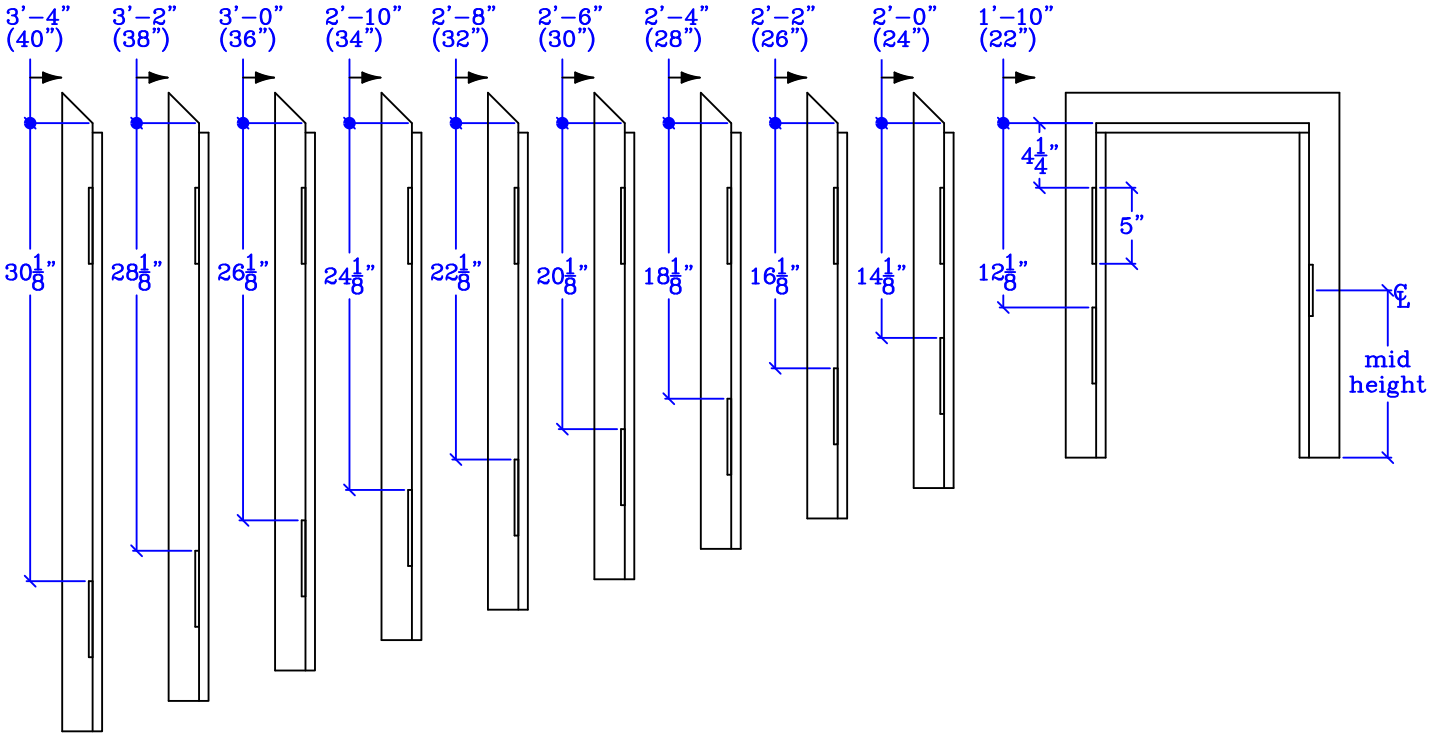
4 1/2" hinge dutch location for 6'8" to 7'2"

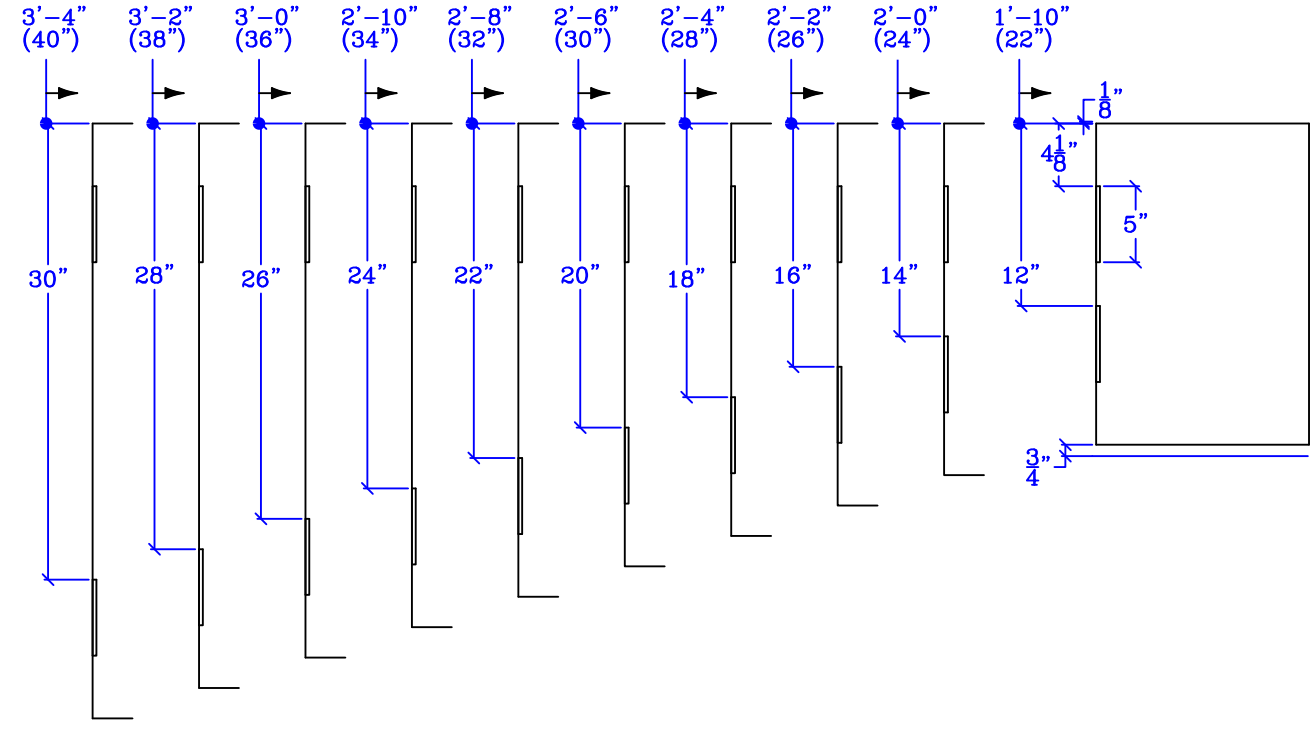




Top to top hinge locations
Bottom to center strike location

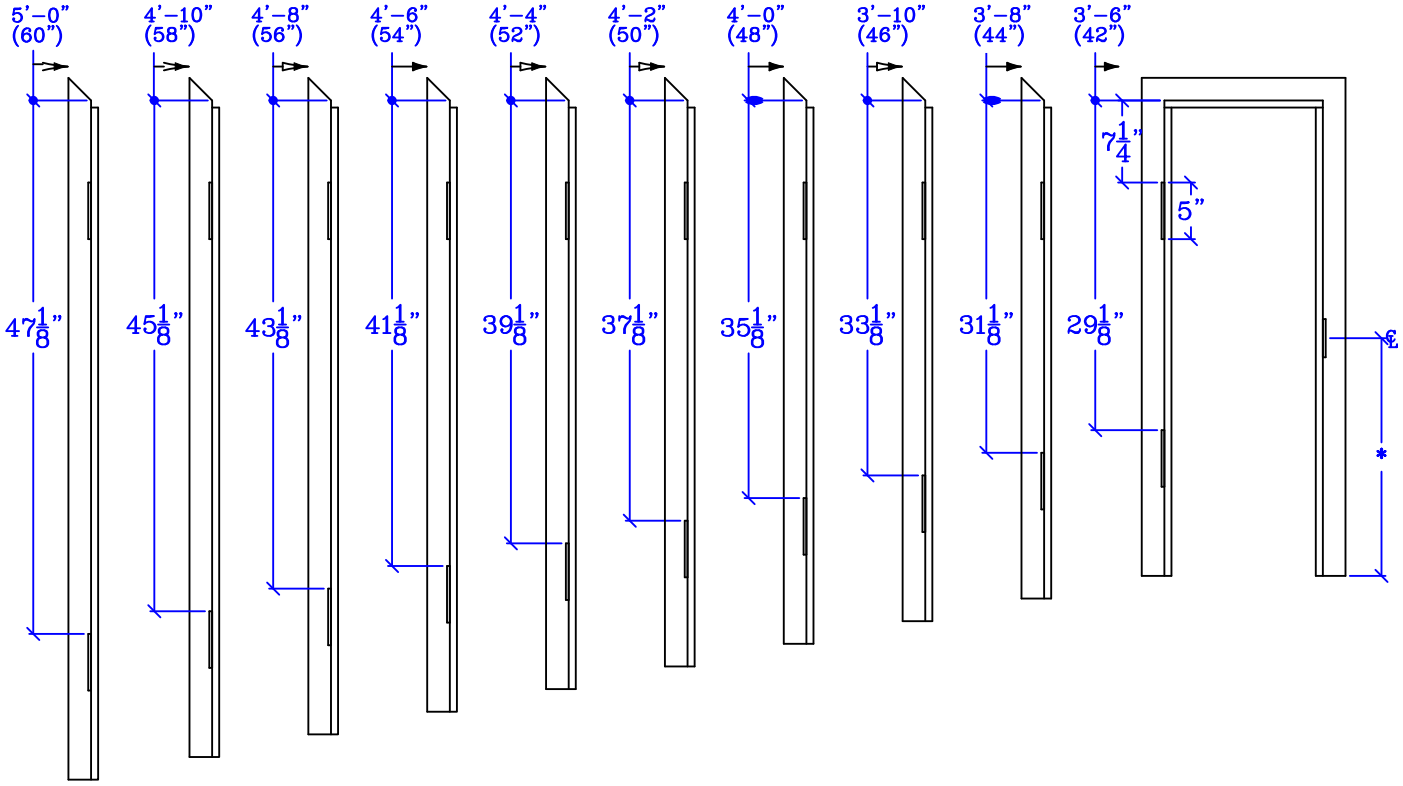
5" hinge location for 1'10" to 3'4"



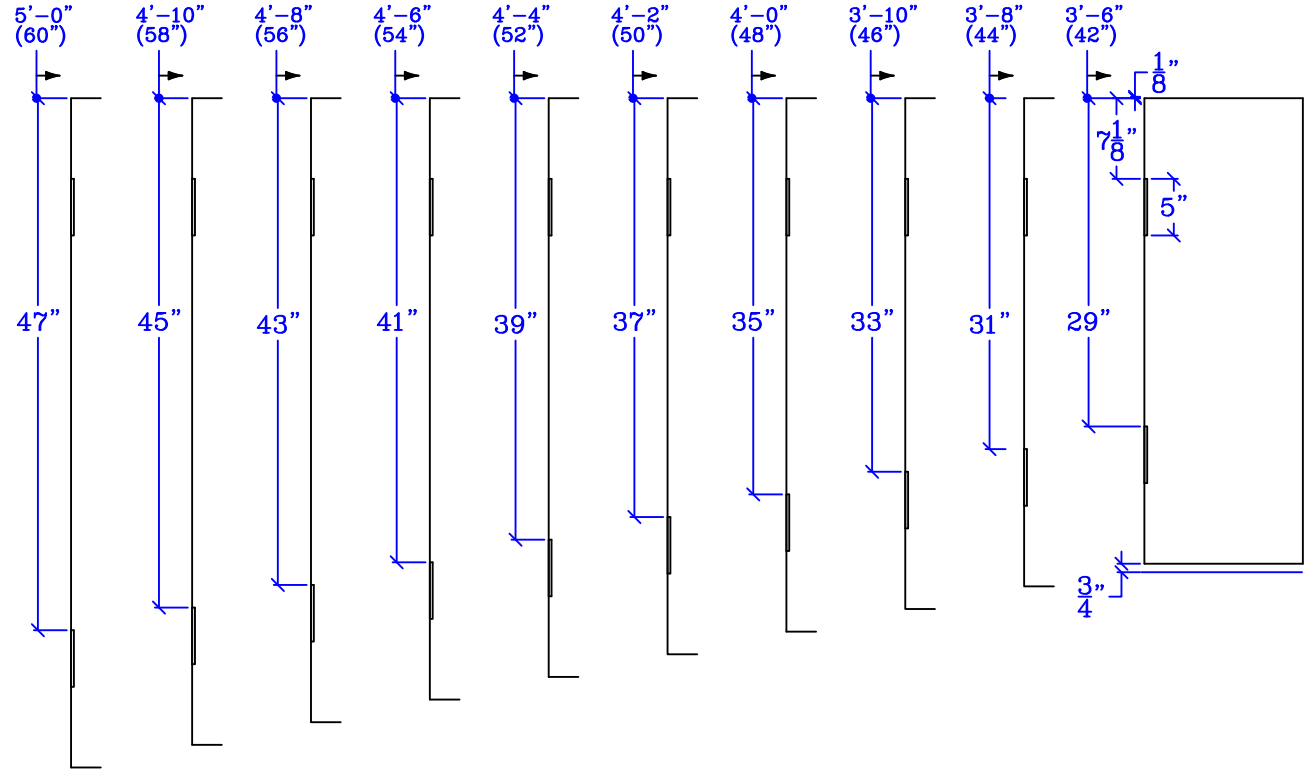


Top to top hinge locations
Bottom to center strike location

5" hinge location for 3'6" to 5'0"

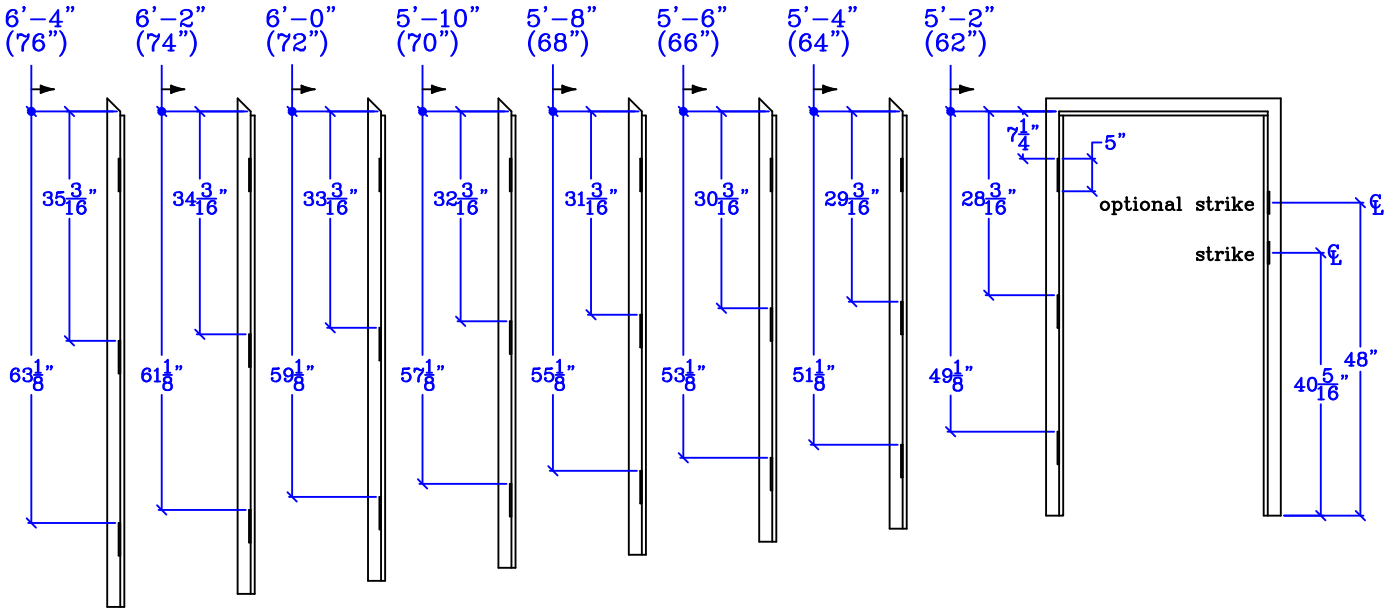


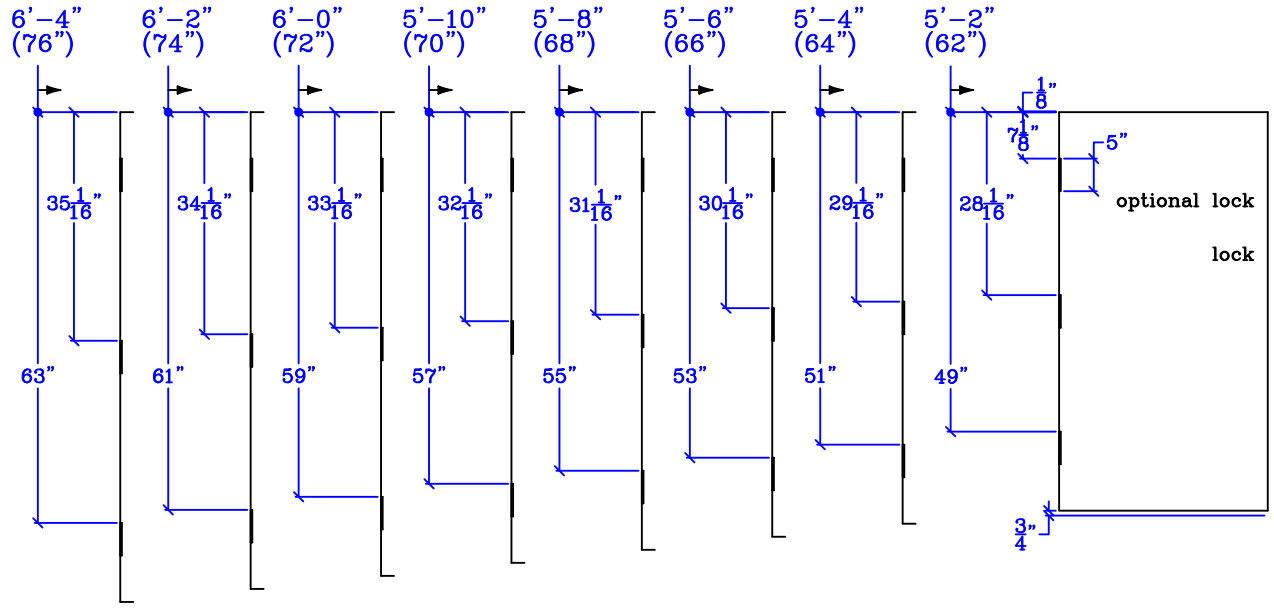
* = Mid height up to 59 15/16", 40 5/16" for greater than 60"



Top to top hinge locations
Bottom to center strike location

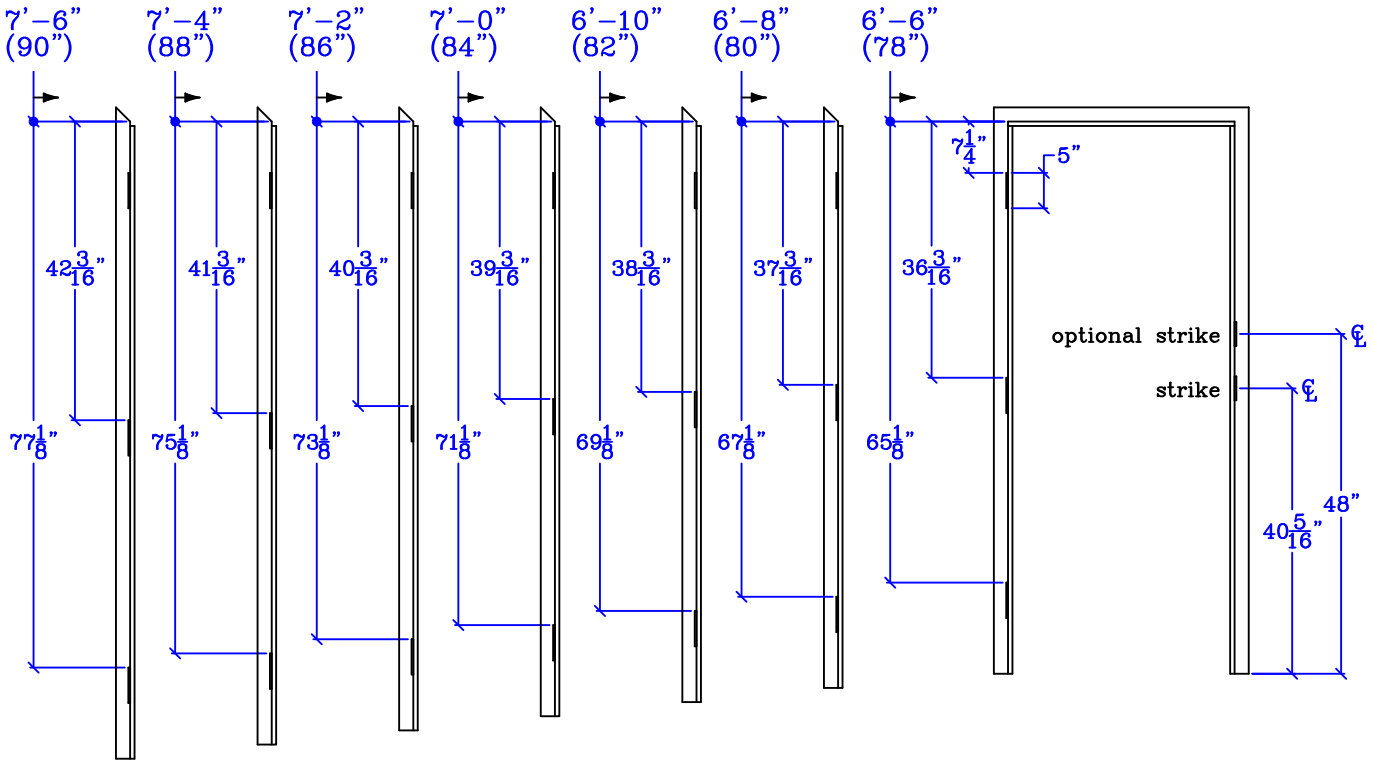
5" hinge location for 5'2" to 6'4"

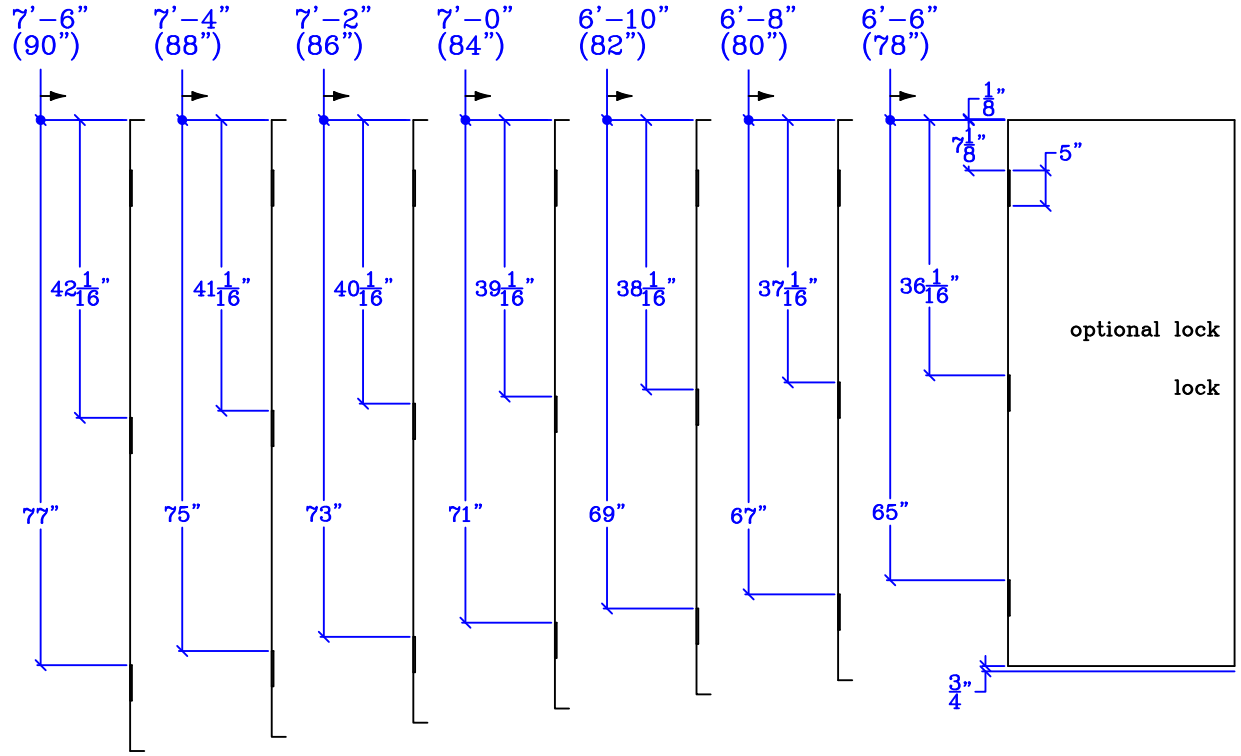




Top to top hinge locations
Bottom to center strike location

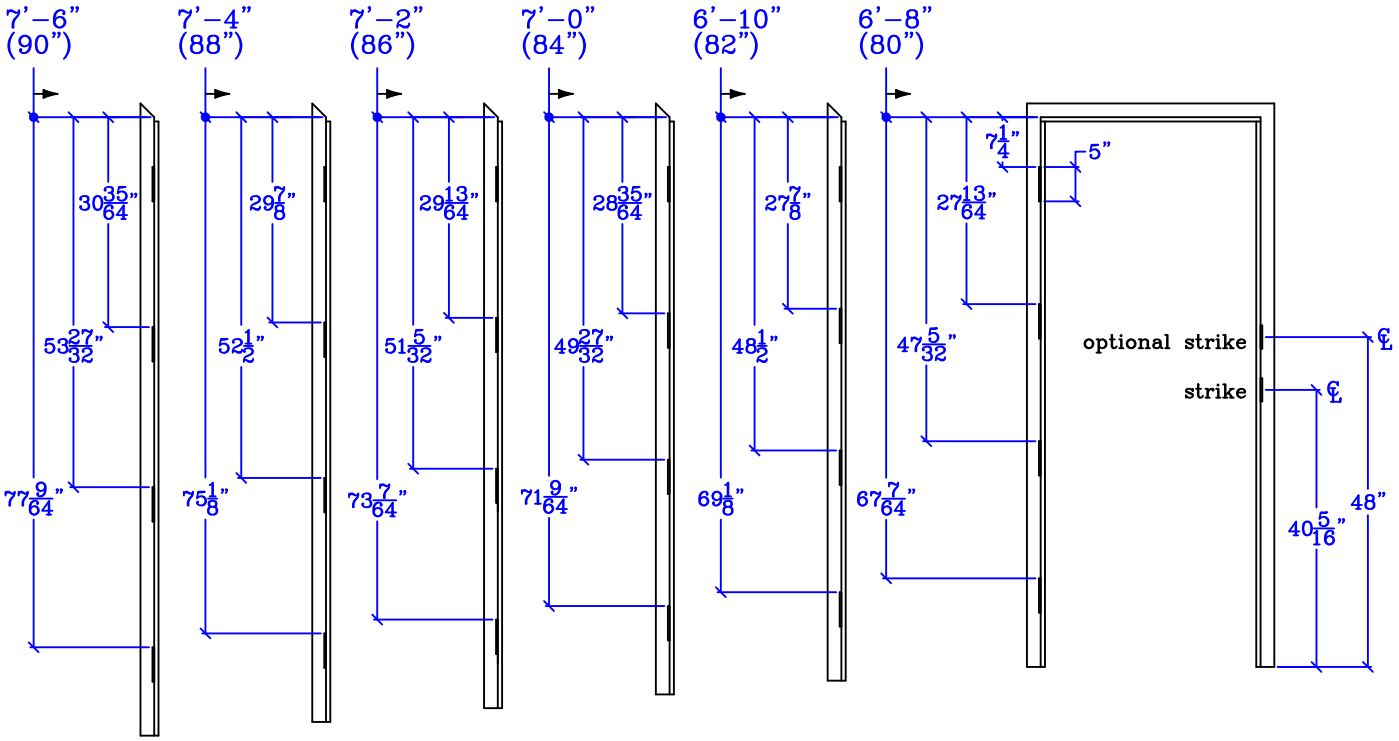
5" hinge location for 6'6" to 7'6"

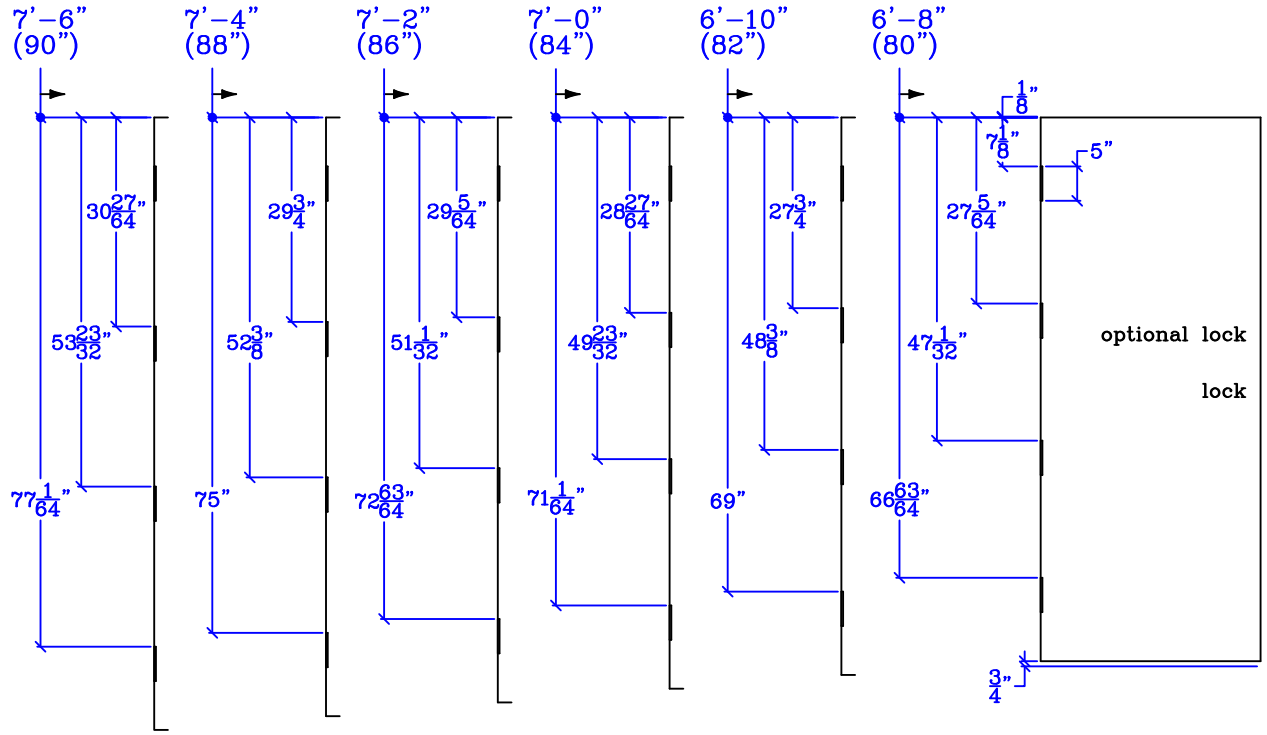




Top to top hinge locations
Bottom to center strike location

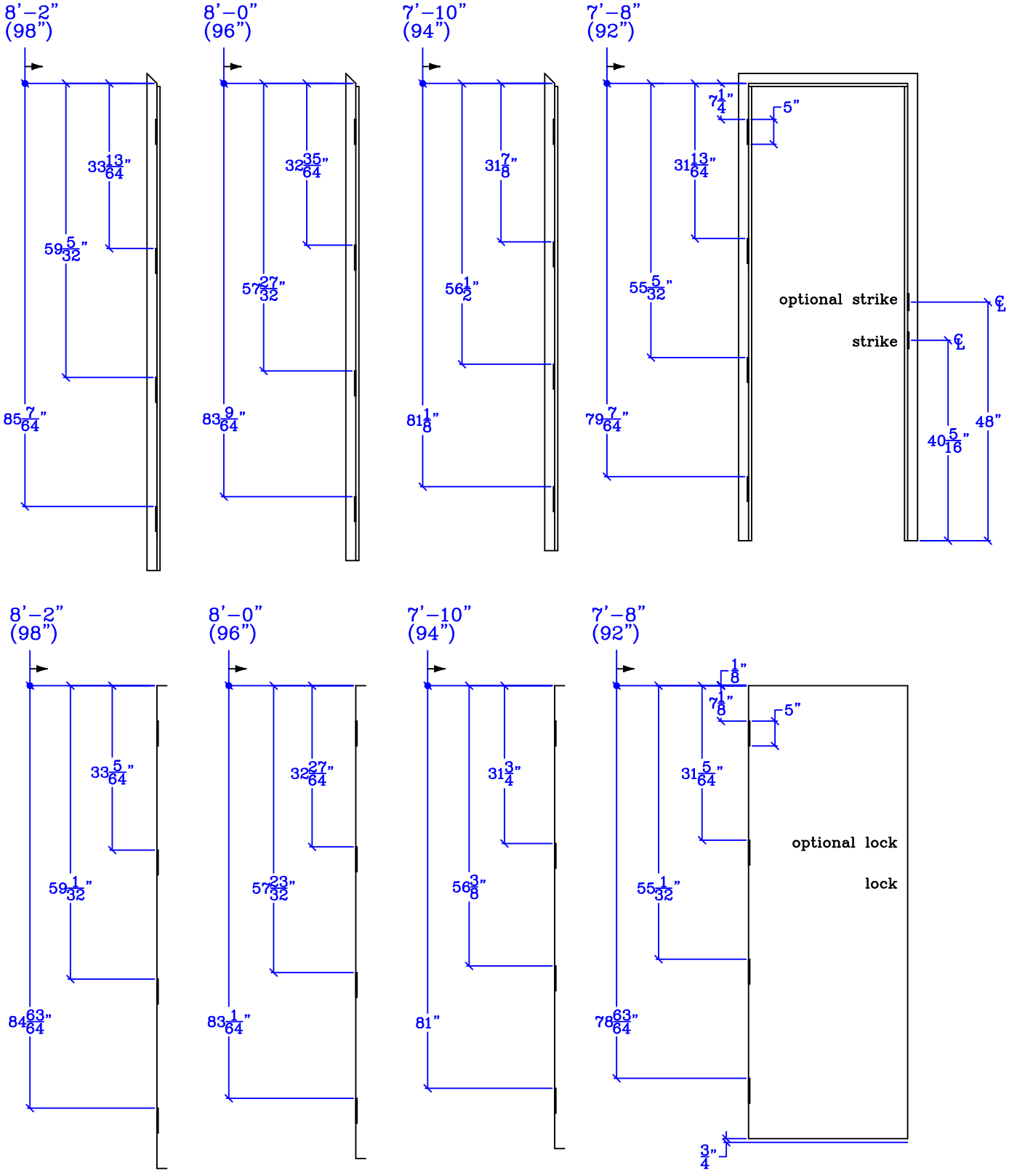
5" hinge location for 6'8" to 7'6"





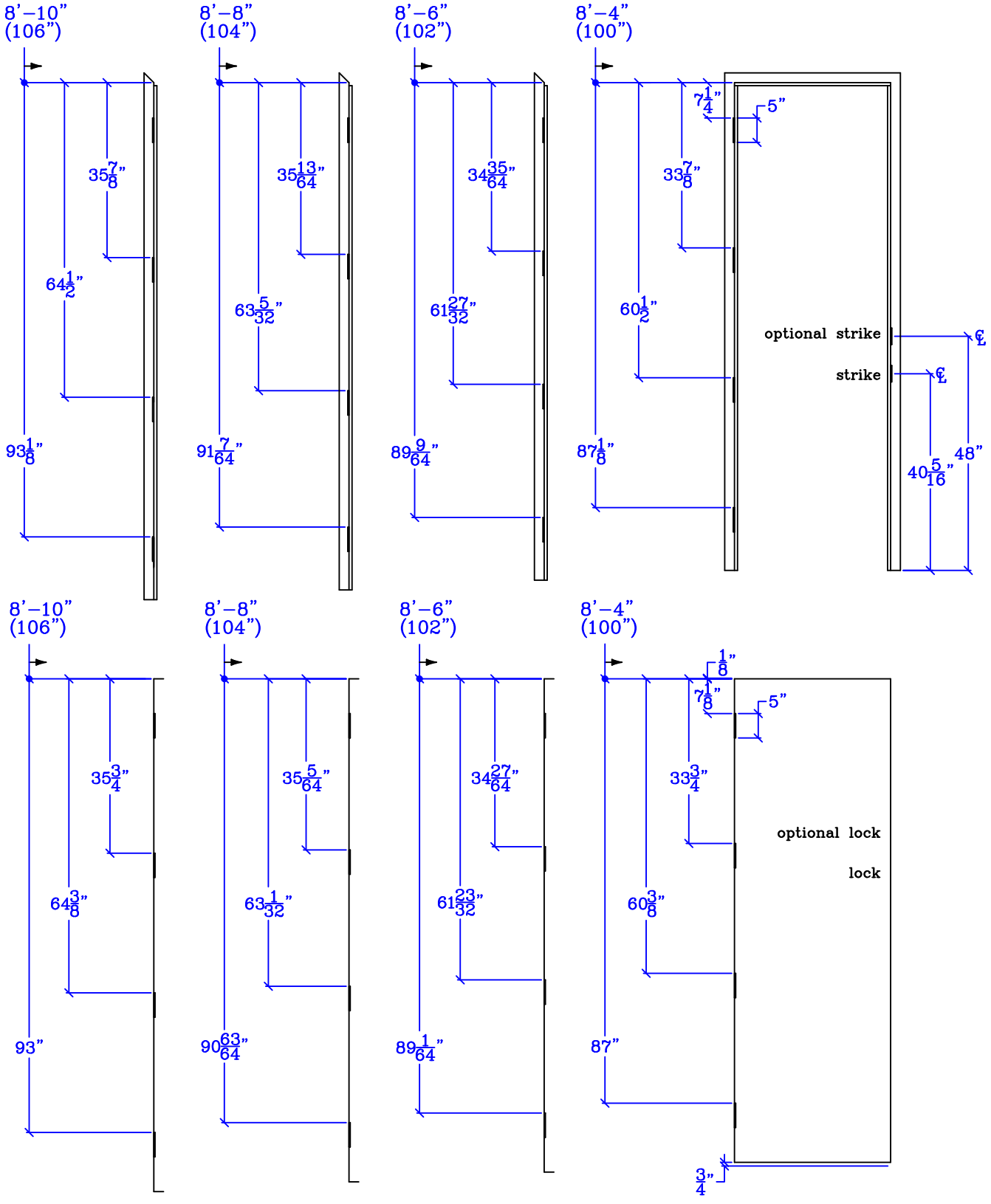
Top to top hinge locations
Bottom to center strike location

5" hinge location for 7'8" to 8'2"



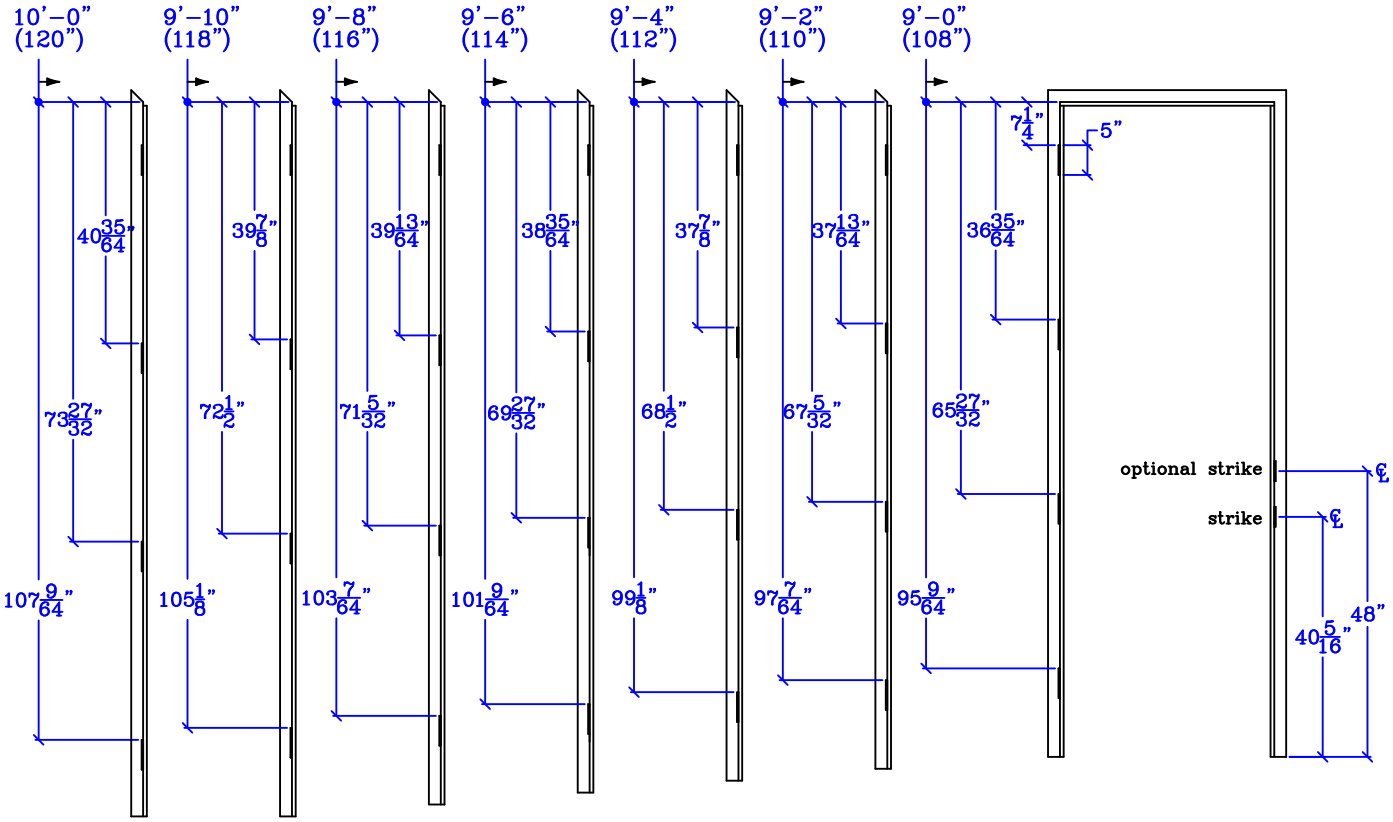
Top to top hinge locations
Bottom to center strike location

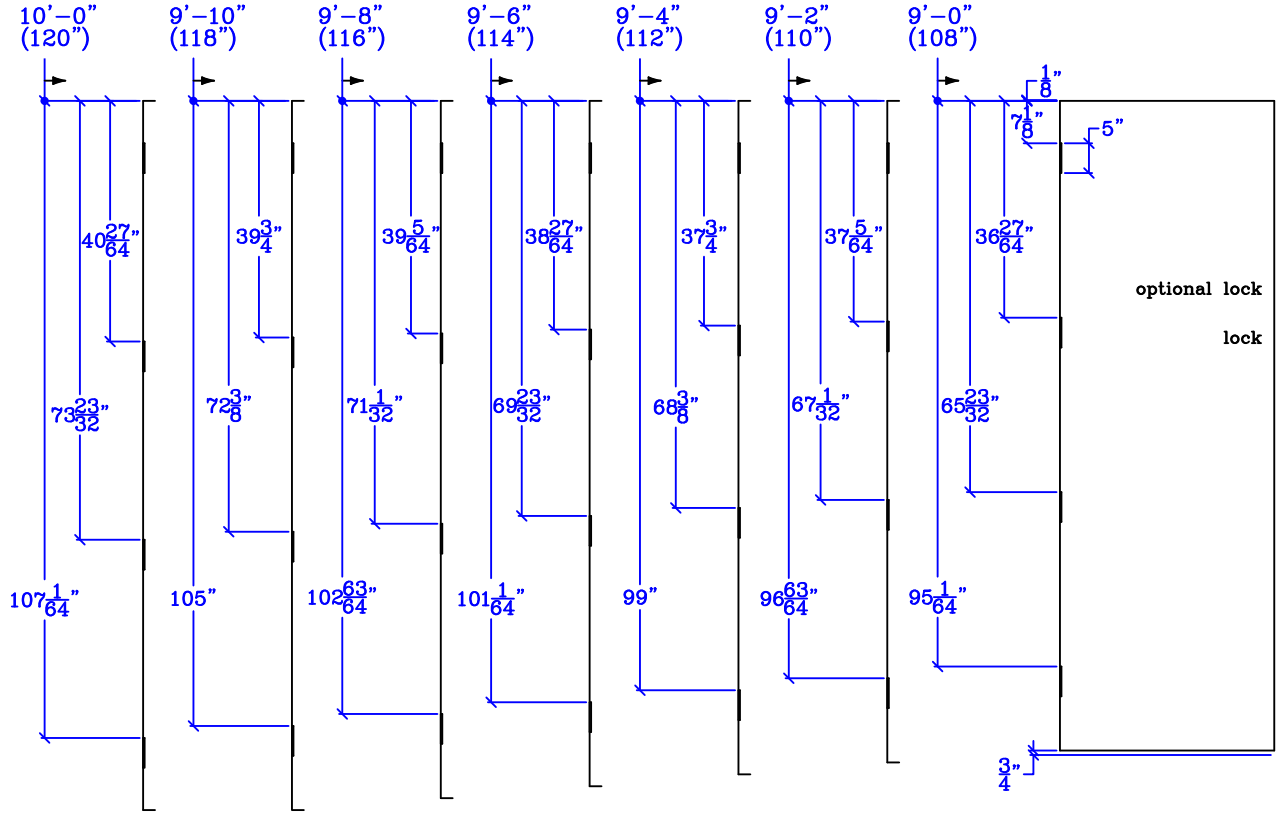
5" hinge location for 8'4" to 8'10"



Top to top hinge locations
Bottom to center strike location

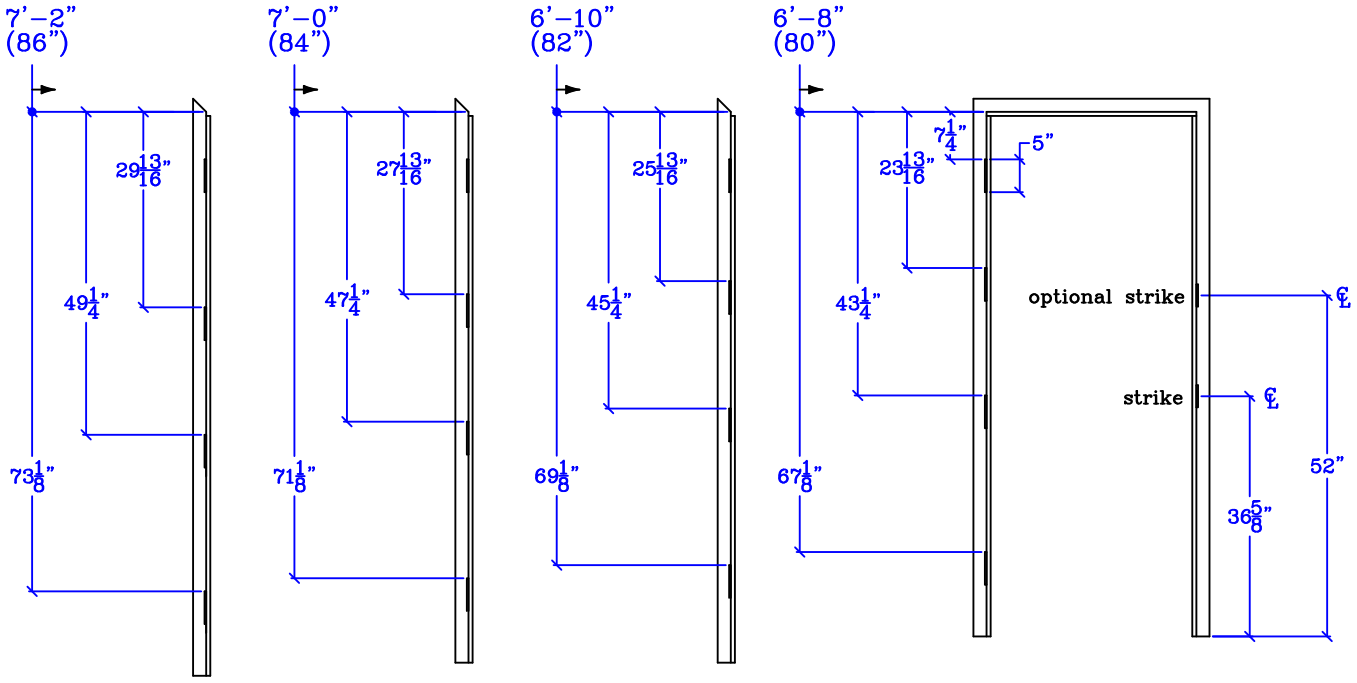
5" hinge location for 9'0" to 10'0"

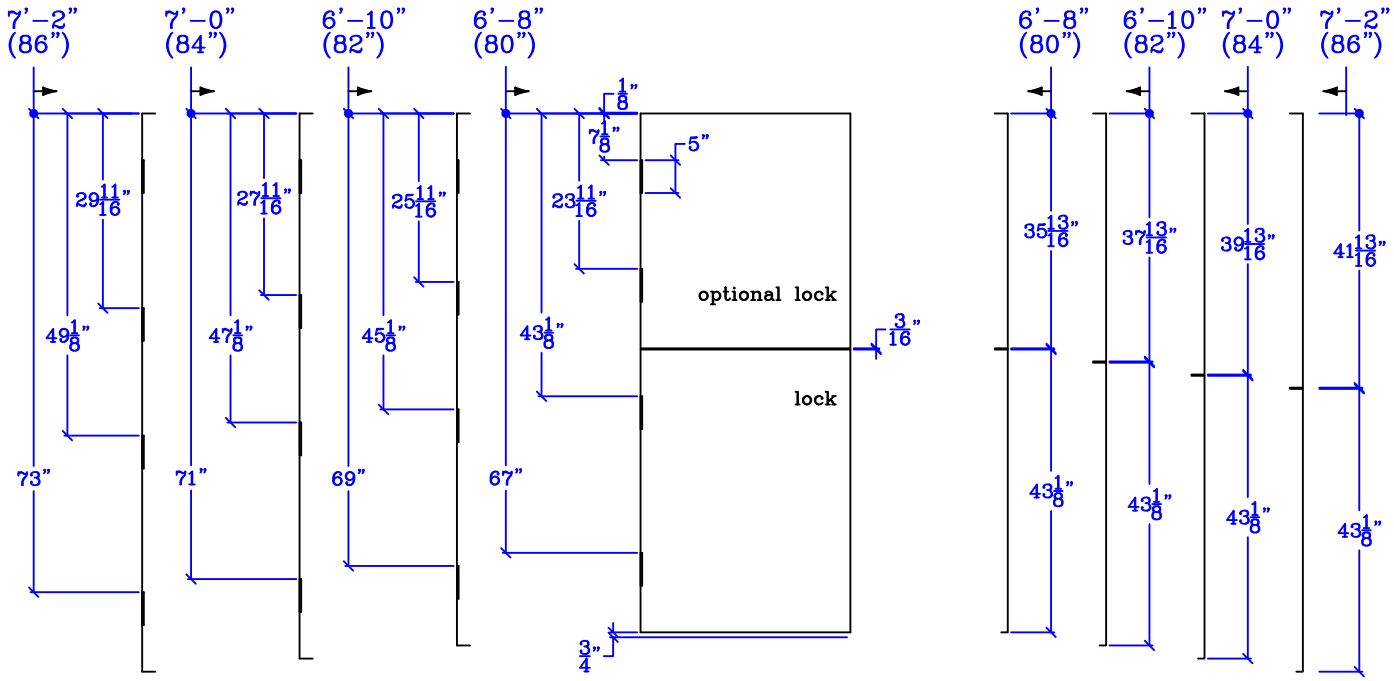




Top to top hinge locations
Bottom to center strike location

5" hinge dutch location for 6'8" to 7'2"





Top to top hinge locations
Bottom to center strike location

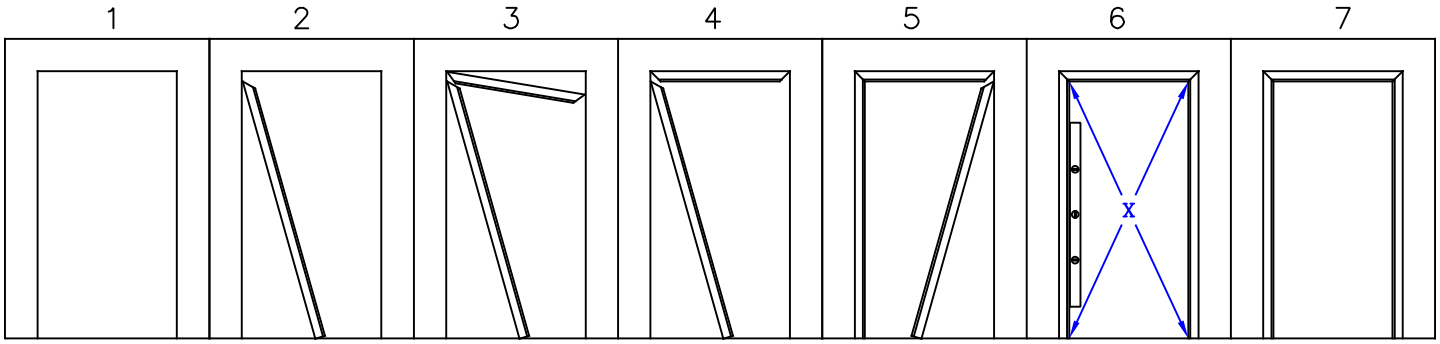
DE LA
FONTAINE

INSTALLATION

DE LA FONTAINE

INSTALLATION PAGE

Knocked down drywall frame



1. Build wall with rough opening height equal to nominal door opening : -height plus 1 ¼”
   -width plus 2”

2. Install jamb at angle, and let the top of the jamb rest against the opening close to the top.

3. Insert frame head under the corner clips of the jamb and raise into position.

4. Retract leveling anchor in the jamb and finish installing it in position on wall.

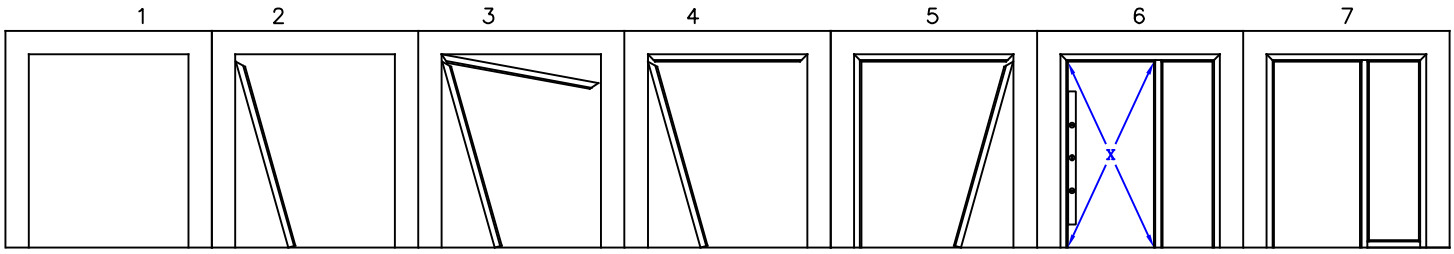
5. Insert the corner clips of the opposite jamb into the opposite end of the head and position jamb on wall.

6. After the two vertical jambs are installed with the frame head, measure diagonally from upper left to lower right corner, and from upper right to lower left corner and make sure that “X” dimensions are identical. Install base anchor screws through countersunk holes in frame face or DSA straps and floor plate.

7. Square top of frame and tighten leveling bracket. (Do not overtighten)

8. For cased open KD frames, the rough opening size is equal to finished opening: -height plus 1 ¼”
   - width plus 2 ¾”.

Knocked down drywall sidelight



1. Build wall with rough opening height equal to
   Overall size : -height minus 1”
   -width minus 2”

2. Install jamb at angle, and let the top of the jamb rest against the opening close to the top.

3. Insert frame head under the corner clips of the jamb and raise into position.

4. Retract leveling anchor in the jamb and finish installing it in position on wall.

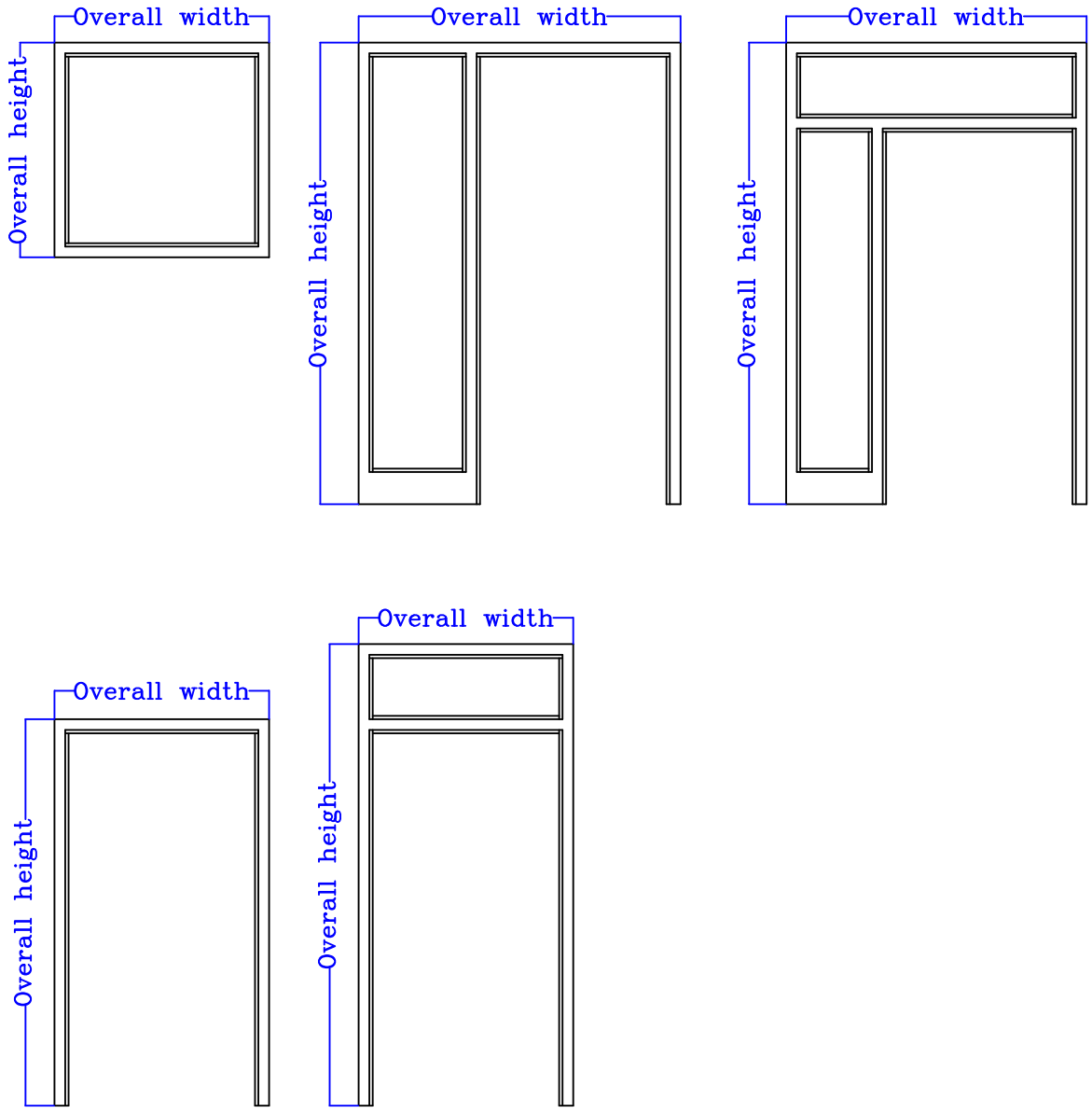
5. Insert the corner clips of the opposite jamb into the opposite end of the head and push jamb onto wall.

6. Position the mullion, measure diagonally from upper left to lower right corner, and from upper right to lower left corner and make sure that “X” dimensions are identical then anchor it down through the inverted floor anchors.

7. Insert the sill between the mullion and lite jamb. Bring back the lite jamb against the sill and install base anchor screws through countersunk holes in frame face or DSA straps

8. Square top of frame and tighten leveling bracket. (Do not overtighten)

Welded frame



The rough opening to be as high and wide as the overall height and width of the frame.

Masonry frame

1. Bracing the frame :
   Brace the frame as shown in Figure #1.
   Do not brace in the direction of intended wall.

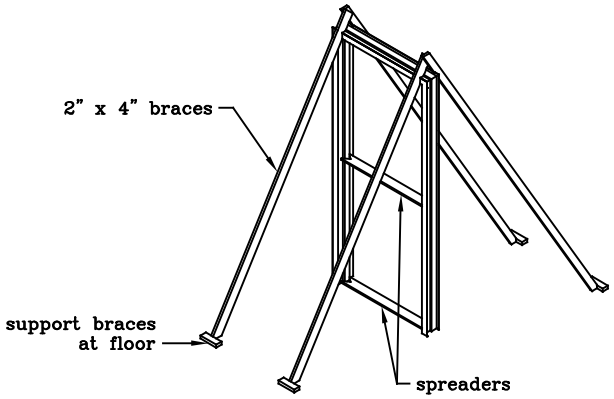


Figure #1 : Frame bracing

2. Plumbing the frame :
   The contractor should have a carpenter level, square and spreader, Figure #2.
   Set the frame in the desired location and level the header.
   If necessary shim under jamb floor anchor, Figure #2a, or equalize them through an adjustable floor anchor.
   With frame on line, set the spreader and fasten jambs to the floor through floor anchors.

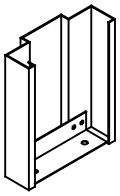


Figure #2a

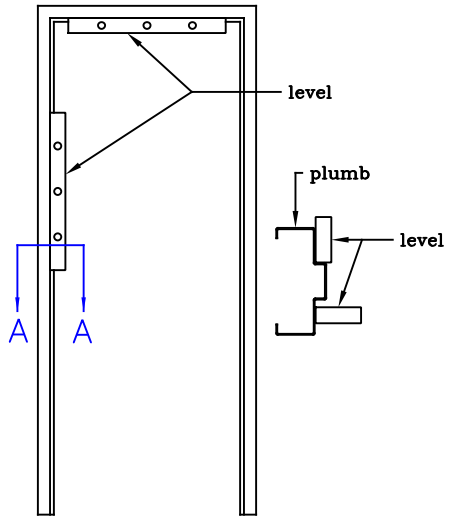


Figure #2 : Plumbing the frame

3. Spreader :
   The typical wood spreader, Figure #3, must be square and fabricated form lumber not less 1"(25.4mm) thick.
   The correct length is the door opening width between the jambs at the header.
   Cut clearance notches for frame stops.
   Spreader must be nearly as wide as frame depth for proper installation.
   Do not remove spreaders until the frame is set permanently in the wall.

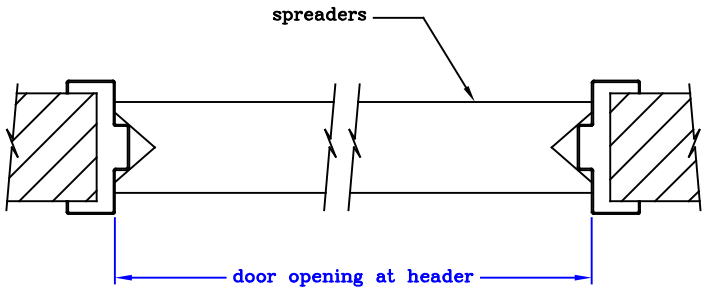


Figure #3 : wood spreaders

Masonry frame

4. The temporary spreaders often welded to the base of the jambs of frame with welded corners, ARE NOT intended to be used during the installation of the frame into the wall.
These temporary spreaders are used to prevent shipping damages only.

A second wood spreader at the mid or strike point the frame, Figure #4, must be used in addition to the one at the base of the frame to maintain a proper door opening and to prevent bowing the jambs.

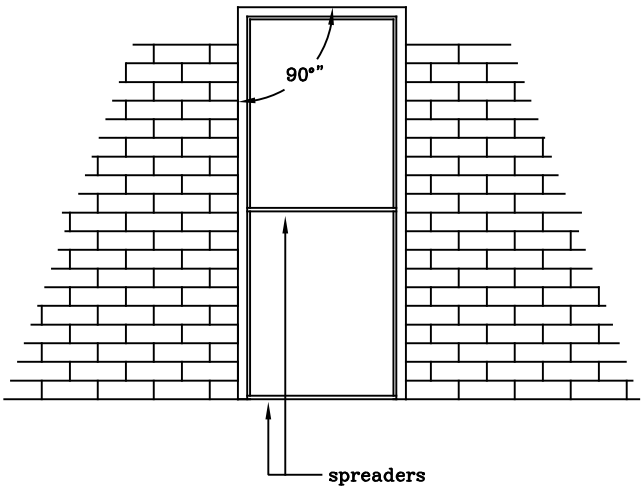
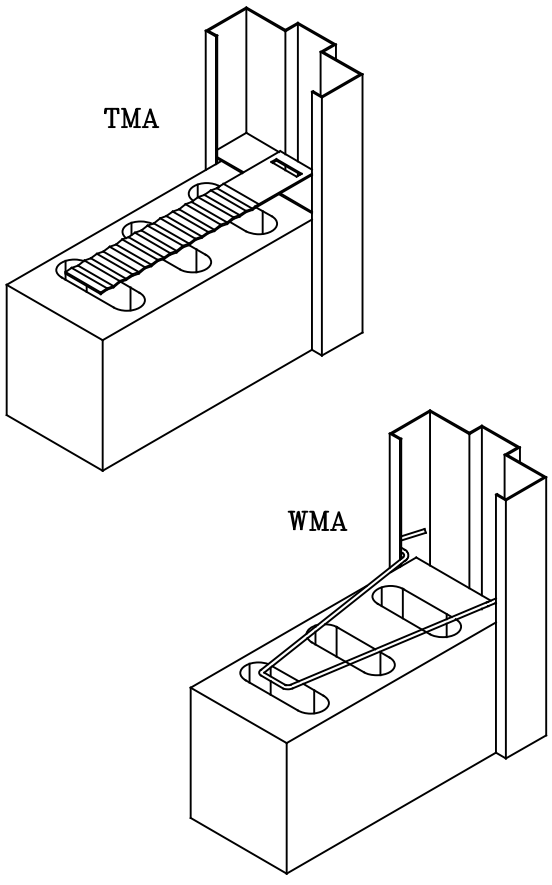


Figure #4 : Spreader locations

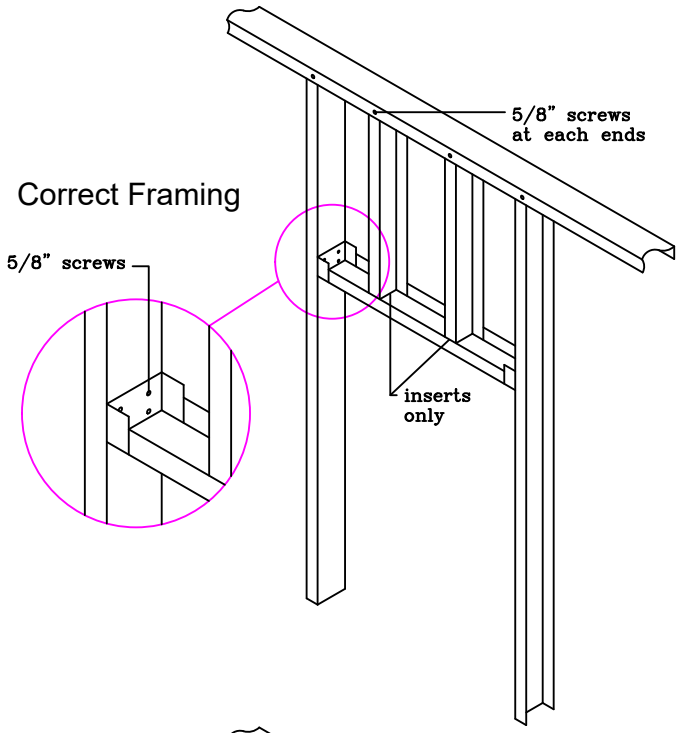
5. WMA, Wire masonry Anchor is normally used on custom frames. The metallic wire must be adjusted at the job site in function of the throat.

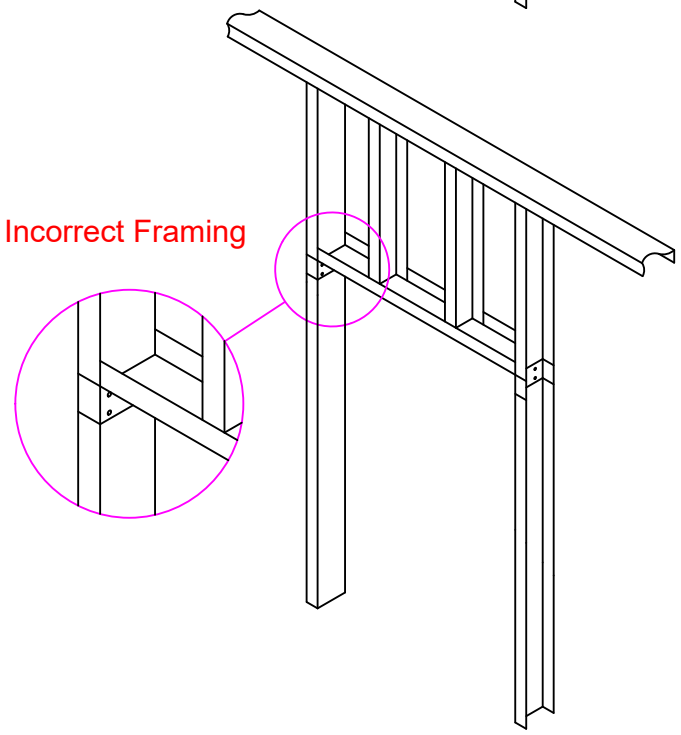
The TMA, “T” Masonry Anchor provides total adjustability and is normally made to fit a particular type of frame profile.



Steel framing

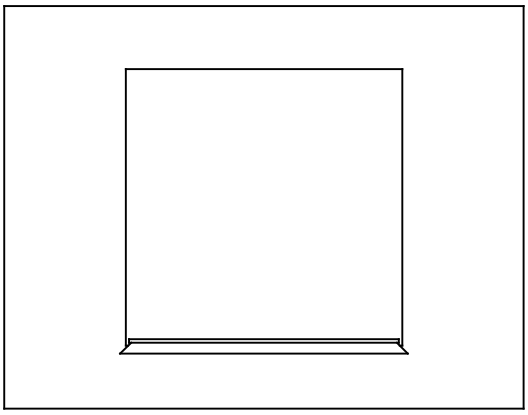
Door and borrowed light openings should be rough-framed with steel studs and runners.
Position floor to ceiling height strut-studs vertically.
Adjacent to frames, and anchor securely to top and bottom runners with 5/8" type S-12 Low profile head screws.
Where heavy or oversize doors are used, install an additional strut-stud at jambs.
Fabricate sill and header sections from steel runners and install over, less than ceiling height door frame, and above and below borrowed light frames, fabricate from a section of runner cut to lenght approx. 6" longer than rough opening.
Slit flanges and bend web to allow attachment to adjacent vertical strut-studs.
Securely attach through web to strut-stud with 5/8" type S-12 Low profile head screws.



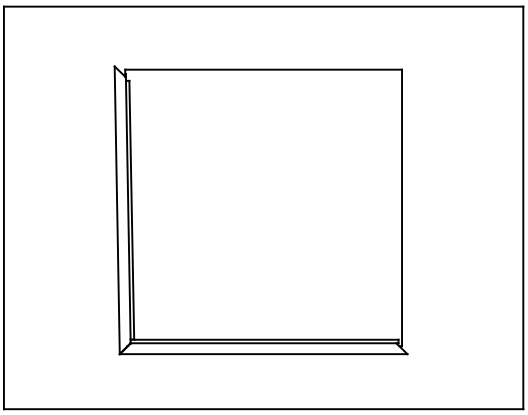


4 sided knocked down frame

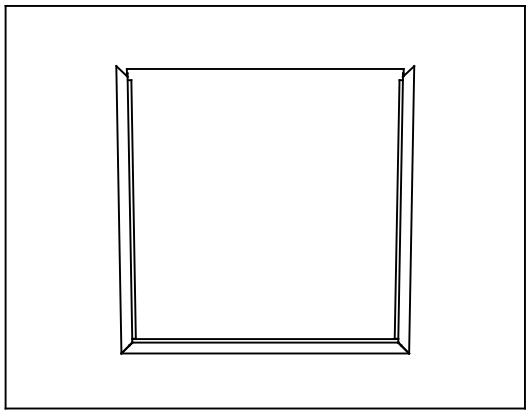
Step # 1



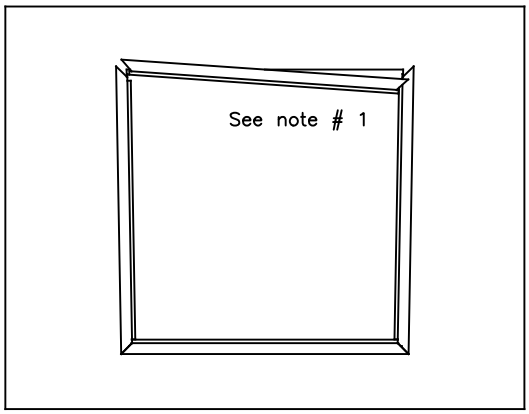
Step # 2



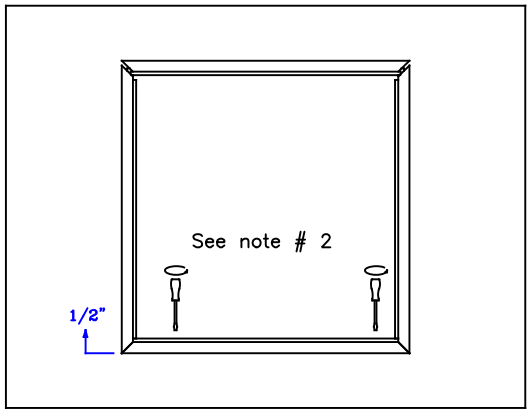
Step # 3



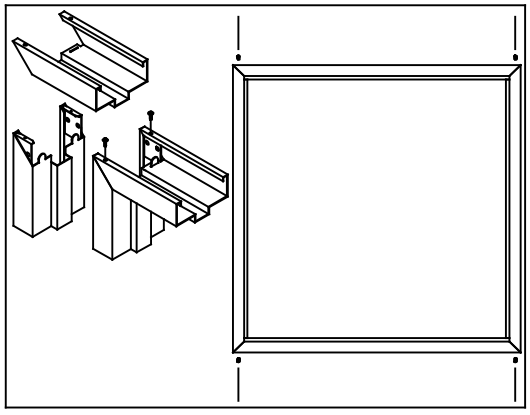
Step # 4



Step # 5

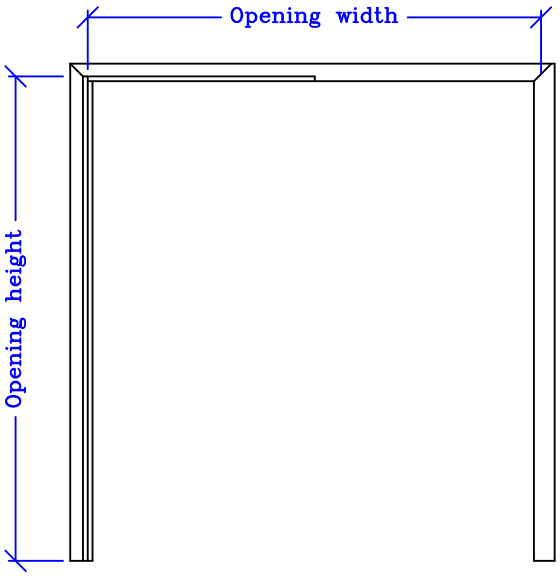


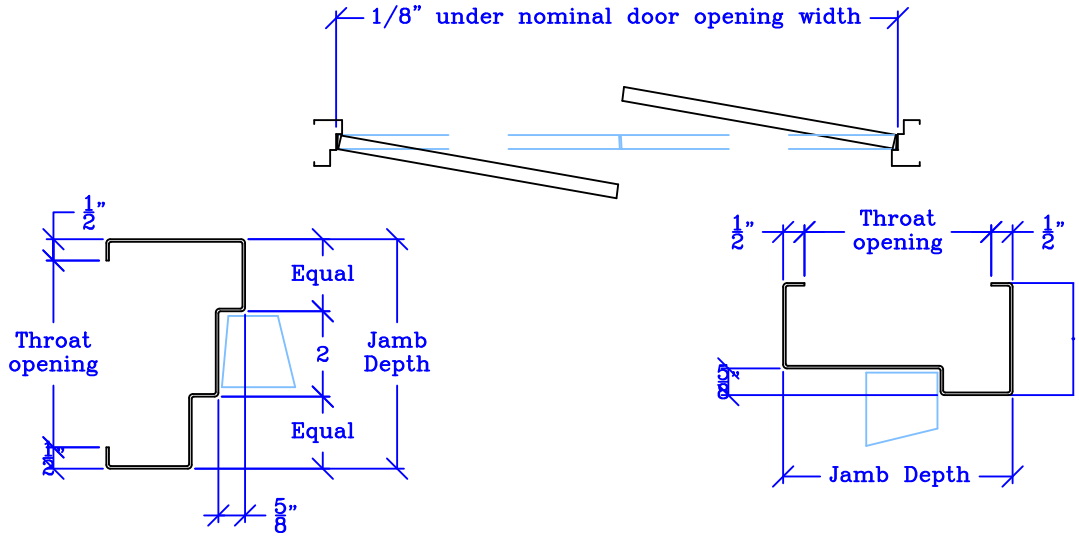
Step # 6



1. You have to open jamb throat by hand, to pass over the jamb depth.
2. The base of frame must be raised ½" to be able to properly adjust the header and this should be done with your leveling screw.
3. Construct wall with rough opening equal to finished opening height and width plus 2". If cased open, rough opening equal to finished opening height and width plus 2-3/4".
4. Standard construction, knocked down with screws, compression pads at each ends of each components.

Double egress knocked down frame





Rough Opening for 1 3/8"-2 5/8" face jambs:

Opening width + 2 1/4"= Rough Opening dimension

Opening height + 3/4"= Rough Opening dimensionn

Rough Opening for 2"-3 1/4" face jambs:

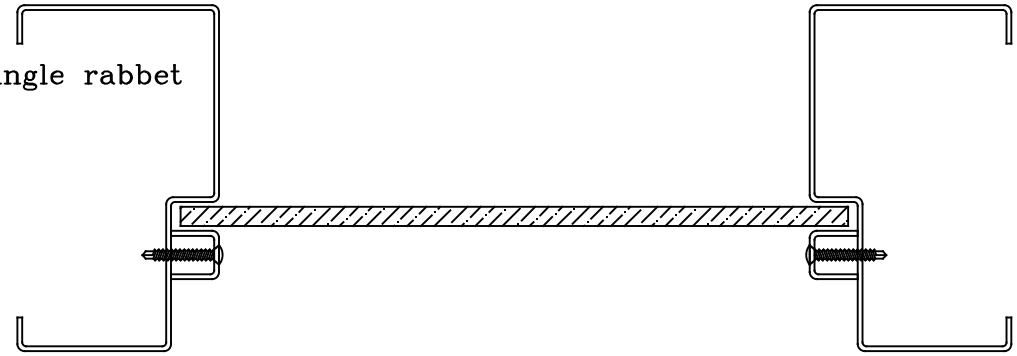
Opening width + 3 1/4"= Rough Opening dimension

Opening height + 11/4"= Rough Opening dimension

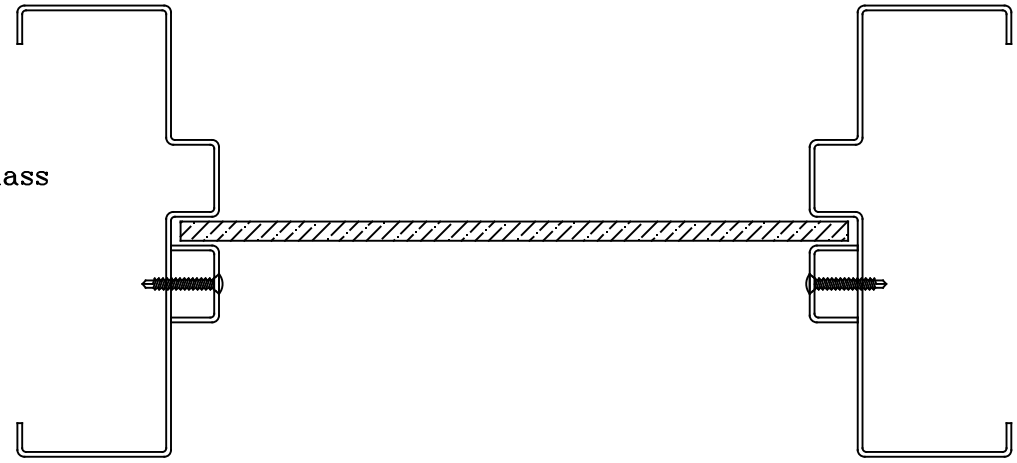
For more installation information see
Technical Data Manual page R-1.1 Knocked down drywall frame installation notes: 2 thru 7.

Glass size in elevations

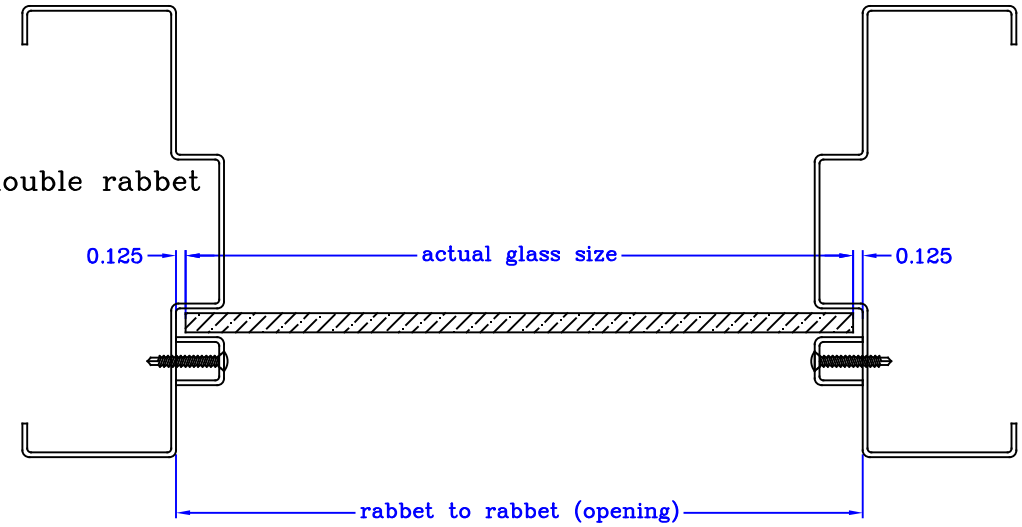
Standard single rabbet



Centered glass



Standard double rabbet

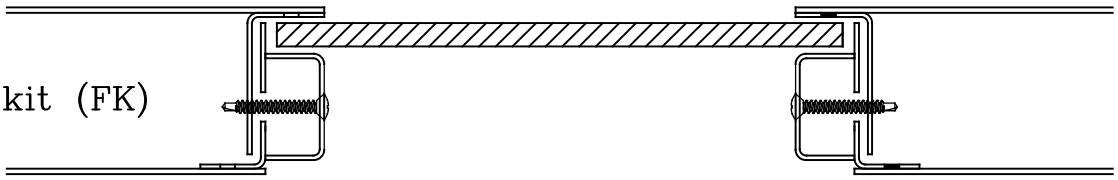


Actual glass sizes :

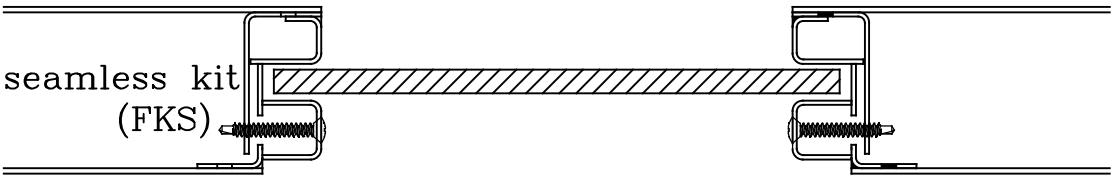
opening dimension – 1/4" in height and width

Glass size at kits

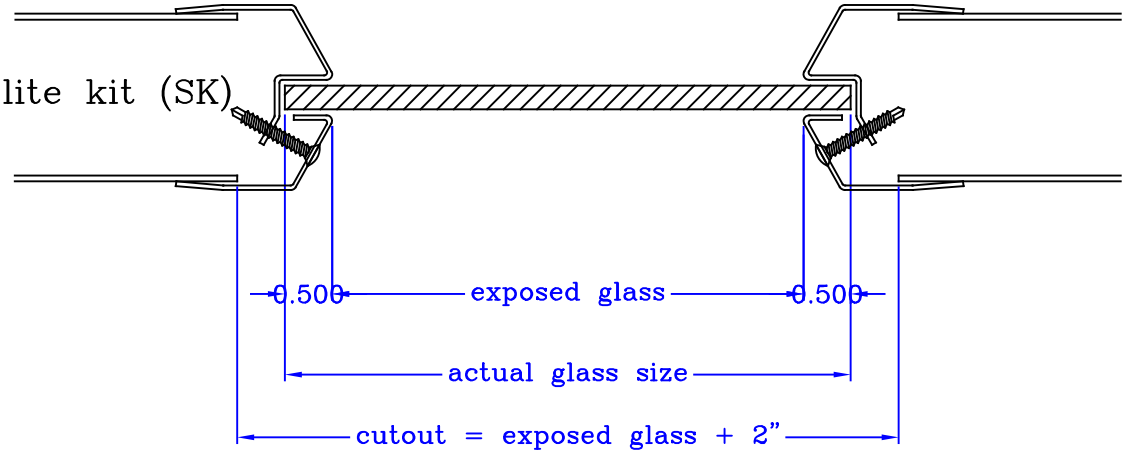
DLF flush kit (FK)



Full flush seamless kit (FKS)



Sandwich lite kit (SK)

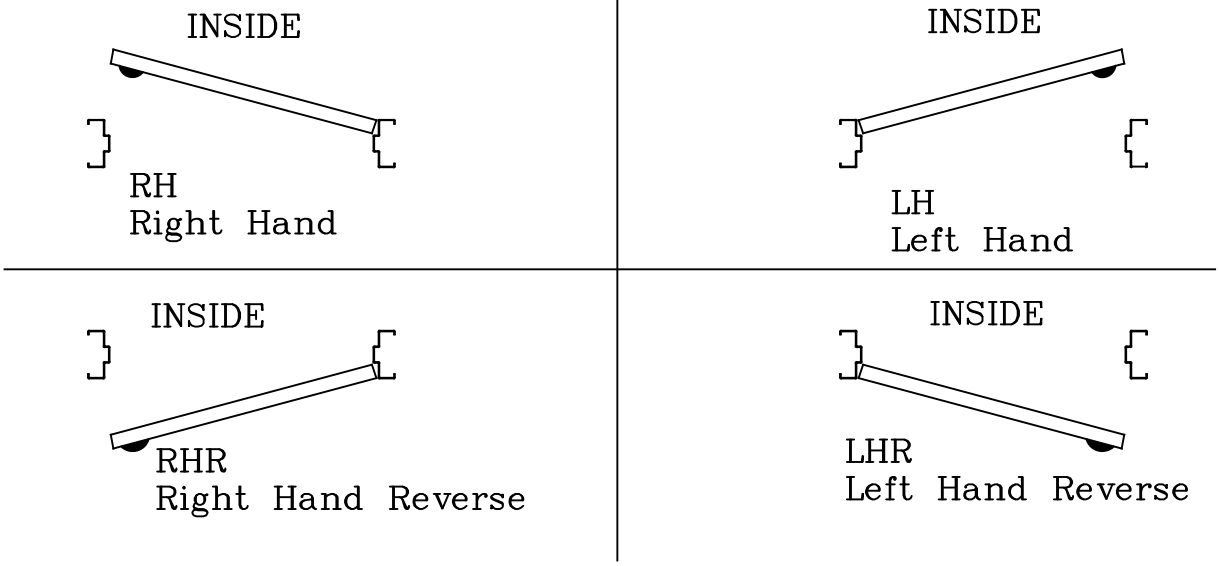


Actual glass sizes :

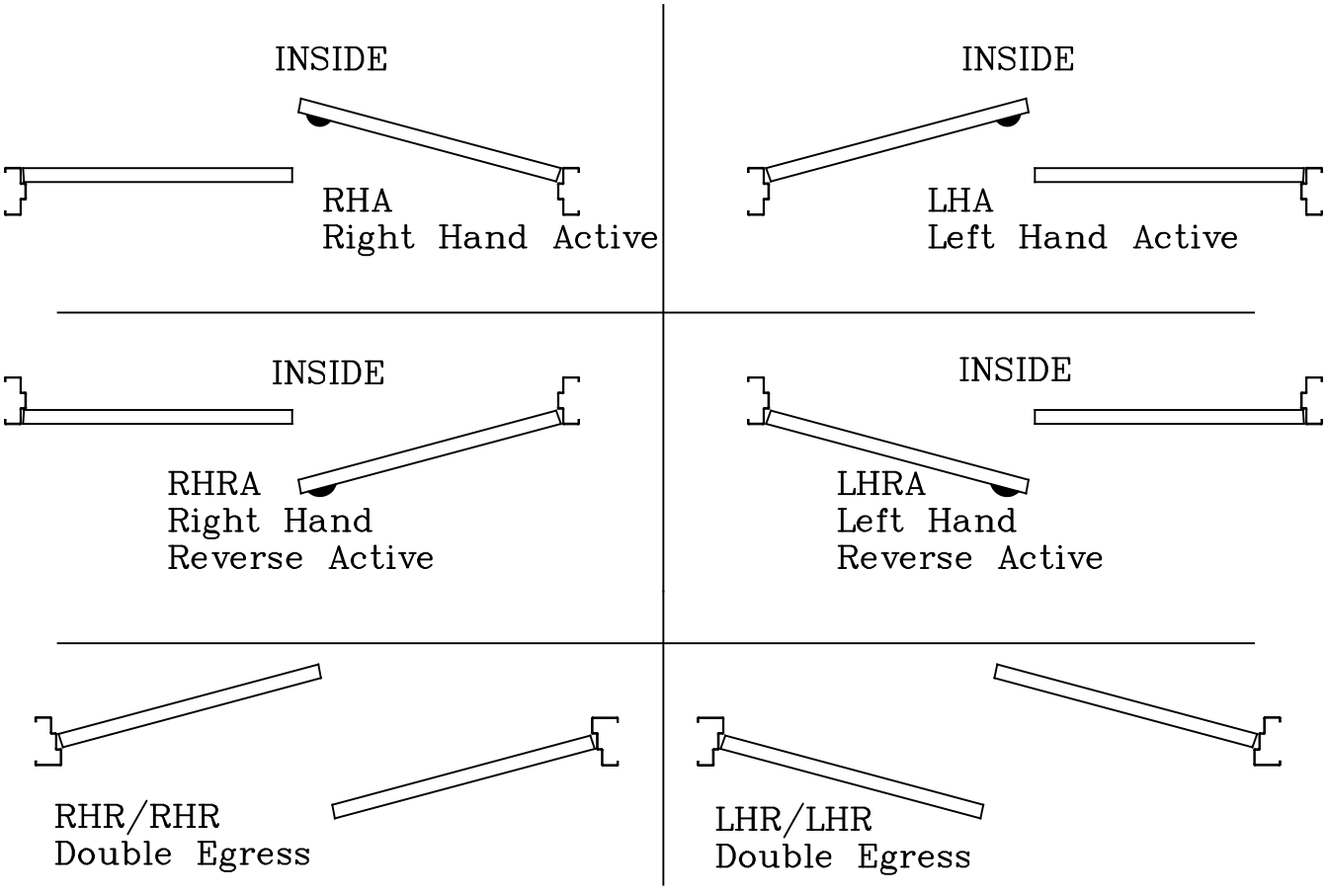
exposed glass + 1” in height and width

Handing chart

Single Doors

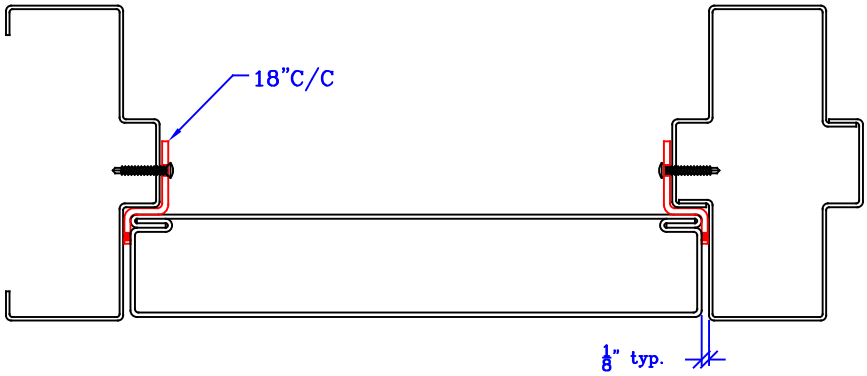


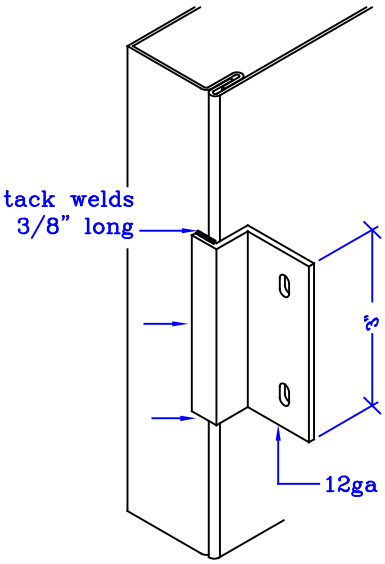
Pair of Doors



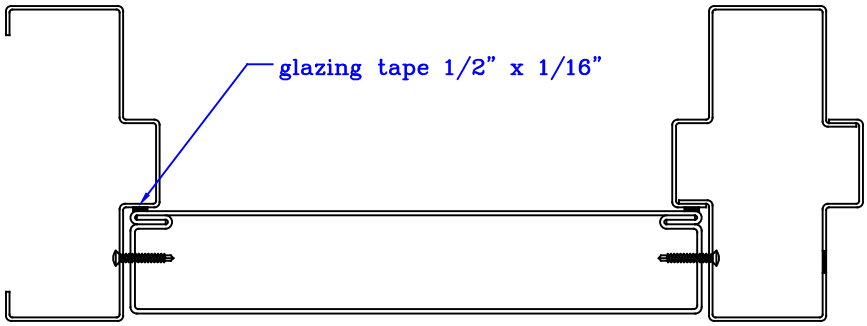
Panel

Removable
(REM)

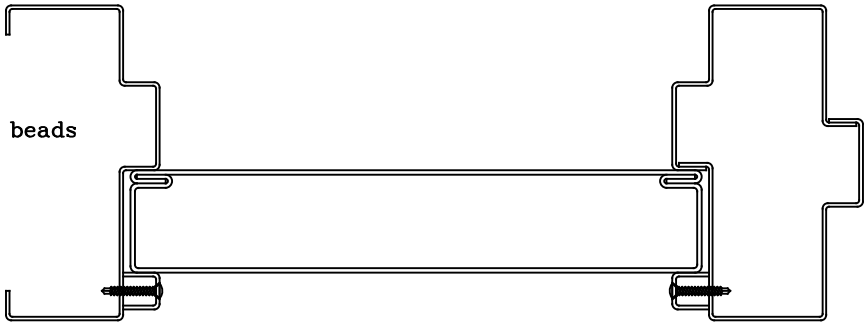




Screwed
(SCR)

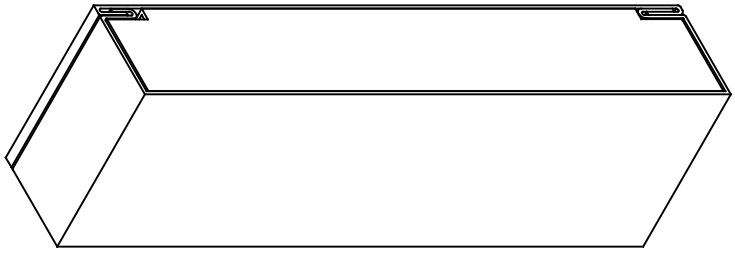


Fixed with beads
(FIX)



note: may require special profile depending on panel thickness.

Notice: panels will received top and bottom channels not sealed independently of method of installation



DE LA FONTAINE

GLOSSARY

DE LA FONTAINE

GLOSSARY

116LL ..... 1/16” Lead-Lined Door
12EC ..... Edge Channel in 12ga
134 ..... 1-3/4" Door Thickness
138 ..... 1-3/8" Door Thickness
14EC ..... Edge Channel in 14ga
161 ..... Cylindrical Lock Reinf.
161TB ..... Cylindrical Lock Reinf. w/ Thru Bolts
16EC ..... Edge Channel in 16ga
180 ..... Positive Pressure Label 180mn
180E ..... Embossed Positive Pressure 180mn
180R ..... Riveted Positive Pressure Label 180mn
18EC ..... Edge Channel in 18ga
18LL ..... 1/8” Lead-Lined Door
18UC ..... 1/8” Undercut
1PNL ..... One Panel
20 ..... Positive Pressure Label 20mn
200 ..... 2" Door Thickness
20R ..... Riveted Positive Pressure Label 20mn
214 ..... 2-1/4" Door Thickness
2G ..... Double Half Glass
2PNL ..... Two Panels
2PNLA ..... Two Panels Soft Arch
34UC ..... 3/4” Undercut
35S ..... 3-1/2” Standard Hinge Reinf.
38UC ..... 3/8” Undercut
40S ..... 4” Standard Hinge Reinf.
40T ..... 4” Thin Hinge Reinf.
45 ..... Positive Pressure Label 45mn
45E ..... Embossed Positive Pressure 45mn
45H ..... 4-1/2" Heavy Hinge Reinf.
45I ..... 4” Institutional Hinge Reinf.
45R ..... 4-1/2" Reversible Hinge Reinf.
45R ..... Riveted Positive Pressure Label 45mn
45S ..... 4-1/2" Standard Hinge Reinf.
4PNL ..... Four Panels
50H ..... 5" Heavy Hinge Reinf.
50S ..... 5" Standard Hinge Reinf.
58UC ..... 5/8” Undercut
60 ..... Positive Pressure Label 60mn
60H ..... 6” Heavy Hinge Reinf.
60R ..... Riveted Positive Pressure Label 60mn
60S ..... 6” Standard Hinge Reinf.
6PNL ..... Six Panels
86ED ..... Mortise Lock Reinf.
86FH ..... Mortise Lock Reinf. w/ Function Holes
90 ..... Positive Pressure Label 90mn
90E ..... Embossed Positive Pressure 90mn
90R ..... Riveted Positive Pressure Label 90mn
ADB ..... Automatic Door Bottom
ADJFA ..... Adjustable Floor Anchor
AH ..... Anchor Hinge
ASA ..... Standard ANSI Strike Reinf.
ASFA ..... Additional Split Frame Anchor
ATMA ..... Adjustable "T" Anchor
AUXFL ..... Auxiliary Fire Latch
B ..... Bonded Stiffeners
BEVH ..... Beveled Edge Door/Hinge Edge
BEVL ..... Beveled Edge Door/Lock Edge
BOXED ..... Box for Electric Device
BPIV ..... Bottom Pivot
BPIVF ..... Bottom Pivot on Floor
BPIVJ ..... Bottom Pivot on Jamb
CB ..... Closed Back
CCEH ..... Concealed Leaf Continuous EH Reinf.
CCH ..... Concealed Leaf Continuous Hinge Reinf.
CCR ..... Concealed Closer Reinf.

DE LA FONTAINE

GLOSSARY

CED ..... Custom Embossed Door
CFW.....Full Depth Continuous Welded Corner
CG ..... Centered Glass
CGG..... Caulking Groove
CH.....End Channel/Cap
CID..... Concealed in Door Closer
CL .....Construction Label - Fire Door/Frame
CL12 ..... Surface Closer Reinf. in 12ga
CL14 ..... Surface Closer Reinf. in 14ga
CL16 ..... Surface Closer Reinf. in 16ga
CLR..... Riveted CL
COHS .....Concealed Overhead Stop
COMM .....Communicating Frame
CPA .....Compression Anchor
CPIV .....Corner Pivot - Full Surface Reinf.
CVR ... Concealed Vertical Rod Exit Device Reinf.
CVRS..... Concealed Vertical Rod Strike
CW.....Continuously Welded & Seamless Edge
CYLDL ..... Cylindrical Deadlock Reinf.
D .....Double Rabbet Profile
DAS .....Deviated Astragal for Single Leaf
DBLM.....Double Mortising of Hing Reinf.
DCA .....Combination Wood & Steel Stud Anchor
DD.....Dutch Door
DE..... Double Egress Frame
DGL161 .....Digital Lock
DGL86 ..... Mortise Lock for Electronic Lock
DL234 ..... Cylindrical Deadlock Strike Reinf.
DL312M .....Mortise Deadlock Strike Reinf.
DL478 .....ANSI Standard Deadlock Strike Reinf.
DLS.....Double Lipped Strike Reinf.
DPS .....Magnetic Contact - Hole Only for Head
DPSBOX..... Box for DPS
DPSJ.....Magnetic Contact for Jamb
DR .....Pre-Drywall Frame
DSA..... Drywall Strap Anchor
DUTCH.....Dutch Frame
DW .....Drywall Frame
DYN4.....4" Long Dynabolt for Existing Wall
DYN5.....5" Long Dynabolt for Existing Wall
ED ..... Exit Device Surface Reinf.
EH .....Electric Hinge
ELBOX ..... Electric Prep with Knockouts
ELIAS ..... "Eliason" Pivot
ELMAG..... Electromagnetic Lock Reinf.
ELMAGEB.....ELMAG with Electric Box
EPT .....Electric Power Transfer
EPTBOX..... Box for EPT
ERS1.....Emergency Release Stop Frame
ES .....Electric Strike
ESBOX.....Box for Electric Strike
ESTOP .....Emergency Stop Release Reinf.
EWA .....Existing Wall Anchor
EWA14 ..... EWA for 1/4" Screw
EWA14NOR ..... EWA for 1/4" Screw w/o Reinf.
EWANOR .....EWA w/o Reinf.
EWAP.....EWA with Plug
EWAP14.....EWA with Plug for 1/4" Screw
EWAT.....EWA with Tube
EWAT14.....EWA with Tube for 1/4" Screw
FA..... Floor Anchor
FAS .....Flat Bar Astragal
FB.....Flush Bolts
FBS ..... Flush Bolt Strike Reinf.
FCR.....Face Mounted Coordinator Reinf.
FDD.....Full Dutch Door Shelf

DE LA FONTAINE

GLOSSARY

FG ..... Full Glass
FK ..... Flush Kit - P Series
FKS ..... Flush Kit Seamless - O Series
FL ..... Full Lip Strike
FL2PNL ..... Flush with 2 Panels at Bottom
FP ..... Flush Pull with Capping
FS ..... Full Sleeve Closer Reinf.
FW ..... Face Welded Corner
FWC ..... Flush Welded Cap
FWCR ..... Full Width Closer Reinf.
FWFS ..... Full Width Full Sleeve Closer Reinf.
FWI ..... Face Welded Intersection
FWP ..... Full Width Parallel Arm Closer Reinf.
FWRP ..... FWR & FWP Reinf.
FWR ..... Full Width Regular Arm Closer Reinf.
FWSC ..... Flush Welded & Sealed Cap
FWTJ ..... Full Width Top Jamb Closer Reinf.
HC ..... Honeycomb
HCSS ..... Honeycomb - Stainless Steel
HDD ..... Half Dutch Door Shelf
HEM ..... Hemmed
HG ..... Half Glass
HS45 ..... Hospital Stops 45°
HS90 ..... Hospital Stops 90°
HWEMUA ..... Removable Hardware Mullion
HWEMUB ..... HWEMUA with Filler Block
IL ..... Interconnected Lock Strike
INCVR ..... Inpact CVR
INMED ..... Inpact MED
INVFA ..... Inverted Floor Anchor
INVH ..... Invisible Hinge Reinf.
IPIV ..... Intermediate Pivot
KD ..... Knock Down Corner with Tabs
KDI ..... Knock Down Intersection
KDS ..... Knock Down Corner with Screws
KF ..... Kerf Frame
LBR ..... Less Bottom Rod
LLAS ..... 1/16” Lead Lined Flat Bar Astragal
LLFW116 ..... Lead-Lined Frame Full Width 1/16”
LLFW18 ..... Lead-Lined Frame Full Width 1/8”
LLHW116 ..... Lead-Lined Frame Half Width 1/16”
LLHW18 ..... Lead-Lined Frame Half Width 1/8”
LR ..... Less Return Frame
MBA ..... Metal Builder Anchor
MC ..... Magnetic Contact with Reinf.
MED ..... Mortise Exit Device Reinf.
MEDFH ..... MED with Function Holes
MFS ..... Mechanical Field Splice
MODDL ..... Mortise Deadlock Reinf.
MODDLFH ..... MODDL with Function Holes
MONOR ..... Monorail cut out, per leaf
MORG ..... Mortar Guard
MW ..... Mineral Wool
N6PNL ..... Narrow Six Panels
NL ..... Narrow Lite
NSW ..... Non-Standard Welded Corner
OBS ..... Open Back Strike
P ..... Baked on Primer for Door
PA ..... Lock Seam
PAC ..... Parallel Arm Closer Reinf.
PAF ..... Lock Seam Edge Filled Seamless
PAL ..... Pre-Assembly Lock Reinf.
PBH ..... By Passing or Bifold Hardware Reinf.
PC ..... Powder Coated Color Prefinished
PD ..... Pocket Door Frame
PEEP ..... Hole for Door Viewer/Peep Hole

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GLOSSARY

PGB ..... Pull with Grab Bar Reinf.
PP ..... Push & Pull Reinf.
PPHEC ..... PPIV Hinge Edge Construction
PPIV..... Pocket Pivot
PS ..... Polystyrene
PSSS .....Polystyrene - Stainless Steel
PU.....Polyurethane
PUSS ..... Polyurethane - Stainless Steel
RAB .....Rabbeted Cap
RAC ..... Regular Arm Closer Reinf.
RACE..... Raceway for Electrified Hardware
RDA ..... Full Reinf. Double Acting Hinge
RB12.....Rough Buck Frame in 12ga
RB14.....Rough Buck Frame in 14ga
RB16.....Rough Buck Frame in 16ga
RCO..... Round Cut Out
RDPS.....Magnetic Contact w/Reinf. for Head
RDPSJ..... Magnetic Contact w/ Reinf. for Jamb
RED .....Rim Exit Device Reinf.
REH .....Radius Pivot Edge
REL.....Radius Lock Edge
RFBS .....Reversible Flush Bolt Strike Reinf.
RIM .....Rim Exit Device Reinf.
RIMFH ..... RIM with Function Holes
RIMS..... Rim Strike Reinf.
RL .....Roller Latch/Catch
RLH.....Roller Latch Strike Reinf. - Head
RLJ .....Roller Latch Strike Reinf. - Jamb
RM ..... Removable Mullion/Transom Bar
RMF.....Removable Mullion w/ Floor Anchor
RPAC..... Regular & Parallel Arm Closer Reinf.
RPD ..... Recessed Panel Door
S ..... Single Rabbet Profile
SAS.....Extra for Screwed Astragal to the Door
SB ..... Surface Bolts Reinf.
SBA..... Screw Base Anchor
SBS.....Surface Bolt Strike Reinf.
SCH.....Surface Continuous Hinge Reinf.
SCR.....Soffit Mounted Coordinator Reinf.
SDS..... Snap-In for Drywall Partition
SF..... Split Frame
SHL .....Shearlock Head Reinf.
SI45..... 2" Sill with Miter Ends
SI90.....1/2" Sill with Square Ends
SK ..... Sandwich Kit - N Series
SKWM ..... Sandwich Kit with Muntins
SL.....Shadow Line
SLFBS..... Self-Latching Flush Bolt Strike Reinf.
SLW ..... Weatherstrip for Kerf Frame
SNAP .....Snap-In Cap
SOHS ..... Surface Overhead Stop
SOU .....Splice for Oversized Units
SPDT.....Frame Profile - Special Door Thickness
SPMH.....Special Mortise Hinge
SPS ..... Splayed Stop
SPS .....Special Strike
SPUC .....Non-Standard Undercut
SQL ..... Square Edge Door/Lock Edge
SQH ..... Square Edge Door/Hinge Edge
SR .....Standard Frame
SS .....Stainless Steel
ST.....Standard Inverted End Channel
ST45030..... TR - Steel Stiffened - 450°F in 30mn
STC ..... Sound Transmission Class
STC32 .....Sound Transmission Class Up to 32
STC37 ..... Sound Transmission Class 33 to 37

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GLOSSARY

STC48.....Sound Transmission Class 38 to 48
STPS .....Steel-Stiffened - Polystyrene
STPSSS.....STPS - Stainless Steel
STPU ..... Steel-Stiffened - Polyurethane
STPUSS .....STPU - Stainless Steel
STW..... Steel-Stiffened - Wool
STWSS ..... STW - Stainless Steel
STWT.....Steel-Stiffened - Wool/Thermal Rated
SVR ..... Surface Vertical Rod Exit Device Reinf.
SVRFH.....SVR with Function Holes
SVRS ..... Surface Vertical Rod Strike
SW .....Sanitary Weld Corner
SWS..... Snap-In for Wood & Steel Stud
T.....Standard T Strike Reinf.
TB ..... Thermal Break Frame
TJC .....Top Jamb Closer Reinf.
TMA ..... “T" Masonry Anchor
TPIV.....Top Pivot
TR ..... Temperature Rise
TR25030 .....TR - Mineral - 250°F in 30mn
TR45030 .....TR - Mineral - 450°F in 30mn
TWPF..... PAF Tack Welded
UEQ ..... Unequal Rabbet for Three-Sided Frame
UHD12 .....U Reinf. for Head in 12ga
UHD14 .....U Reinf. for Head in 14ga
UJMB12 .....U Reinf. for Jamb in 12ga
UJMB14 .....U Reinf. for Jamb in 14ga
URB .....Unequal Rabbet for Elevations
W .....Welded Stiffeners
WAS.....Extra for Welded Astragal to the Door
WBO ..... Welded by Others
WFS.....Splice for Field Welding
WMA .....Wire Masonry Anchor
WSI ..... Welded Sill Option
WTP .....Wood Trim Prep.
ZAS ....."Z" Astragal
ZBA ....."Z" Bracket Anchor
ZBA2 ..... ZBA for 2 Layers of Drywall

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APPENDIX

Steel table

MSG*	Minimum Thickness	
	Inch	mm
4	0.214	5.43
5	0.199	5.05
6	0.184	4.67
7	0.167	4.24
8	0.152	3.86
10	0.123	3.12
12	0.093	2.36
14	0.067	1.70
16	0.053	1.34
18	0.042	1.06
20	0.032	0.81
22	0.026	0.66
24	0.020	0.05

Conversion		
Fraction	Inch	mm
	1.0000	25.40
15/16	0.9375	23.81
7/8	0.8750	22.22
13/16	0.8125	20.63
3/4	0.7500	19.05
11/16	0.6875	17.46
5/8	0.6250	15.87
9/16	0.5625	14.28
1/2	0.5000	12.70
7/16	0.4375	11.11
3/8	0.3750	9.52
5/16	0.3125	7.93
1/4	0.2500	6.35
3/16	0.1875	4.76
1/8	0.1250	3.17
1/16	0.0625	1.58

*Manufacturers Standard Gage (MSG) for reference purposes only