

Windstorm Door Installation Instructions For Use With FL10723

Stiffness Class I					Impact 350 ft-lbs		
Door Type	Configuration	Max. Size	Min. Gauge	*Max. Design Load (psf)	Min. Latch Throw (in)	Lock Side - Min. Latch Strength (lbf)	Hardware Type
Medallion Legion Ultra Regent Omega Fuego	Inswing/ Outswing	30 x 70 Single	18	+/- 60	Cylindrical = ½" Mortise = ¾" Latchbolt	630	Cylindrical Lock, Mortise Lock (Latchbolt)
Medallion Legion Ultra Regent Omega Fuego	Inswing/ Outswing	30 x 70 Single	18	+/- 70	Cylindrical = ½" + Deadbolt = 1" Mortise = ¾" LatchBolt + 1" Deadbolt InterConnected Lock = ½" LatchBolt + 1" Deadbolt	735	Cylindrical Lock + Deadbolt, Mortise Lock (LatchBolt + DeadBolt), Interconnected Lock
Medallion Legion Ultra Regent Omega	Outswing	30 x 80 Single	18	+/- 60	Mortise = ¾" Latchbolt + 1" Deadbolt Rim Exit Device, Vertical Rod Exit Device= N/A	720	Mortise Lock (Latchbolt + Deadbolt), Rim Exit Device, Vertical Rod Exit Device
Medallion Legion Ultra Regent Omega Fuego	Outswing	30 x 70 Single	18	+/- 60	Cylindrical = ½" Mortise = ¾" Latchbolt, Mortise Exit Device, Rim Exit Device, Vertical Rod Exit Device = N/A	630	Cylindrical Lock, Mortise Lock (Latchbolt), Mortise Exit Device, Rim Exit Device, Vertical Rod Exit Device
Medallion Legion Ultra Regent Omega Fuego	Outswing	40 x 80 Single	16	+/- 70	Mortise = ¾" Latchbolt + 1" Deadbolt Rim Exit Device, Vertical Rod Exit Device= N/A	1120	Mortise Lock (Latchbolt + Deadbolt), Rim Exit Device, Vertical Rod Exit Device
Medallion	Outswing	80 x 80 Pair	16	+/- 70	Mortise = ¾" Latchbolt + 1" Deadbolt Surface Bolt = 1¼" Rim Exit Device = N/A	1120	Mortise Lock (Latchbolt + Deadbolt) - Active + Surface Bolts- Inactive Rim Exit Devices + Mullion
Legion Ultra Regent Omega Fuego	Outswing	80 x 80 Pair	16	+/- 70	Mortise = ¾" Latchbolt + 1" Deadbolt Surface Bolt = 1¼"	1120	Mortise Lock (Latchbolt + Deadbolt) - Active + Surface Bolts- Inactive

***Glass lights may limit design loads. See details to follow for additional information.**

****Louvers are excluded from use with Trio and Trio-E Doors.**

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Stiffness Class I Impact 350 ft-lbs							
Door Type	Configuration	Max. Size	Min. Gauge	*Max. Design Load (psf)	Min. Latch Throw (in)	Lock Side - Min. Latch Strength (lbf)	Hardware Type
**Trio Trio-E	Inswing/ Outswing	30x70 Single	18	±100	½" cylindrical ¾"mortise lock	1050	Cylindrical Lock, Mortise Lock w/ Deadbolt function
**Trio Trio-E	Outswing	30x70 Single	18	±100	¾" rim exit	1050	Rim Exit
**Trio Trio-E	Inswing/ Outswing	60x70 Pair	18	±70	½" cylindrical 1" deadlock ¾"mortise lock	735	Cylindrical x Deadlock, Mortise Lock w/ Deadbolt function (active), Flush Bolt or Surface Bolt(In- Active)
**Trio Trio-E	Inswing/ Outswing	40x80 Single	18	±70	½" cylindrical ¾"mortise lock	1120	Cylindrical Lock, Mortise Lock w/ Deadbolt function
**Trio Trio-E	Outswing	40x80 Single	18	±70	¾" rim exit	1120	Rim Exit
**Trio Trio-E	Outswing	80x80 Pair	18	±70	¾" rim exit x ¾" rim exit ¾" Vertical Rod Exit x ¾" Vertical Rod Exit	1120	Rim Exit x Hardware Mullion Vertical Rod Exit x Vertical Rod Exit
**Trio Trio-E	Inswing/ Outswing	80x80 Pair	18	±70	½" cylindrical 1" deadlock ¾"mortise lock	1120	Cylindrical Lock x Deadlock, Mortise Lock w/ Deadbolt function, (Active) Flush Bolt or Surface Bolt(In- Active)

***Glass lights may limit design loads. See details to follow for additional information.**

****Louvers are excluded from use with Trio and Trio-E Doors.**

Windstorm Door Installation Instructions For Use With FL10723

Stiffness Class II							Impact 350 ft-lbs
Door Type	Configuration	Max. Size	Min. Gauge	*Max. Design Load (psf)	Min. Latch Throw (in)	Lock Side - Min. Latch Strength (lbf)	Hardware Type
Imperial Versadoor	Inswing/ Outswing	30x70 Single	18	+/- 70	Cylindrical = ½" + Deadbolt 1" Mortise = ¾" Latchbolt + 1" Deadbolt InterConnected = ½" Latchbolt + 1" Deadbolt	735	Cylindrical Lock + Deadbolt, Mortise Lock (Latchbolt + Deadbolt), Interconnected Lock
Imperial Versadoor	Outswing	30x70 Single	18	+/- 60	Cylindrical = ½" Mortise = ¾" Latchbolt Mortise Exit Device, Rim Exit Device, Vertical Rod Exit Device =N/A	630	Cylindrical Lock, Mortise Lock (Latchbolt), Mortise Exit Device, Rim Exit Device, Vertical Rod Exit Device

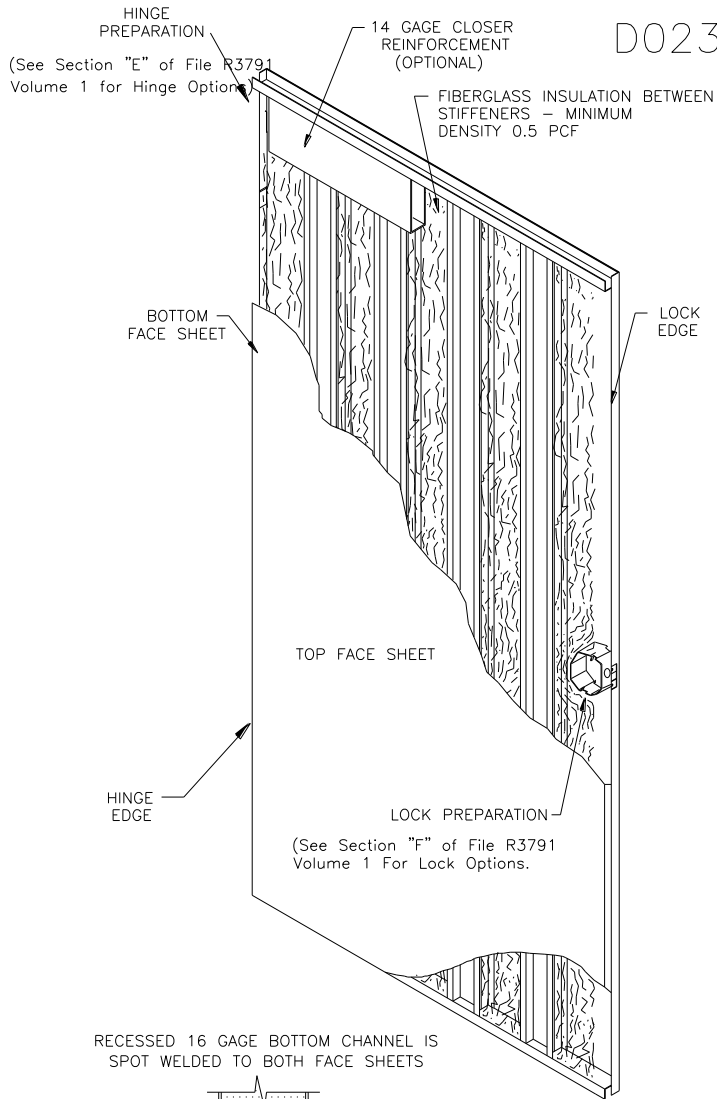
***Glass lights may limit design loads. See details to follow for additional information.**

****Louvers are excluded from use with Trio and Trio-E Doors.**

Windstorm Door Installation Instructions For Use With FL10723

Vertically Stiffened Door CONSTRUCTION DETAILS

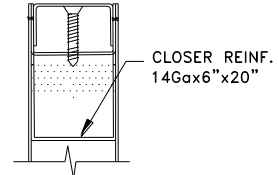
D0235



LOCK AND HINGE EDGES ARE BEVELLED 1/8" IN 2" (1:16)
SQUARE EDGE OPTIONAL

RECESSED 16 GAGE TOP CHANNEL IS WELDED TO BOTH FACE SHEETS

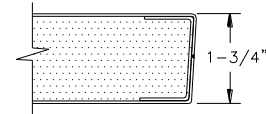
18 GAGE CAP CHANNEL IS SCREWED TO INVERTED CHANNEL (OPTIONAL).



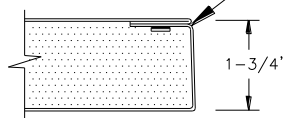
VERTICAL SECTION THRU TOP OF DOOR

STANDARD: CENTER EDGE SEAM

VERTICAL EDGE SEAMS ARE VISIBLE WITH 18 GAUGE BACKUP CHANNEL FULL HEIGHT OF DOOR WITH OPTIONAL BONDO FILLED OR WELDED SEAMLESS EDGE AVAILABLE

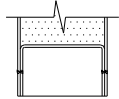


OPTIONAL: TAB & SLOT MECHANICAL INTERLOCK
WELD SEAMED EDGES GROUND
SMOOTH ARE OPTIONAL



HORIZONTAL SECTION THRU LOCK EDGE

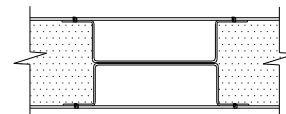
RECESSED 16 GAGE BOTTOM CHANNEL IS SPOT WELDED TO BOTH FACE SHEETS



VERTICAL SECTION THRU BOTTOM OF DOOR

Note: 1. Drawing Not To Scale

22 GAGE FORMED STEEL STIFFENERS (20 GAGE AND GALV STEEL OPTIONAL) POSITIONED NOT MORE THAN 6" APART AND SPOT WELDED TO BOTH FACE SHEETS AT 5" O.C. MAX

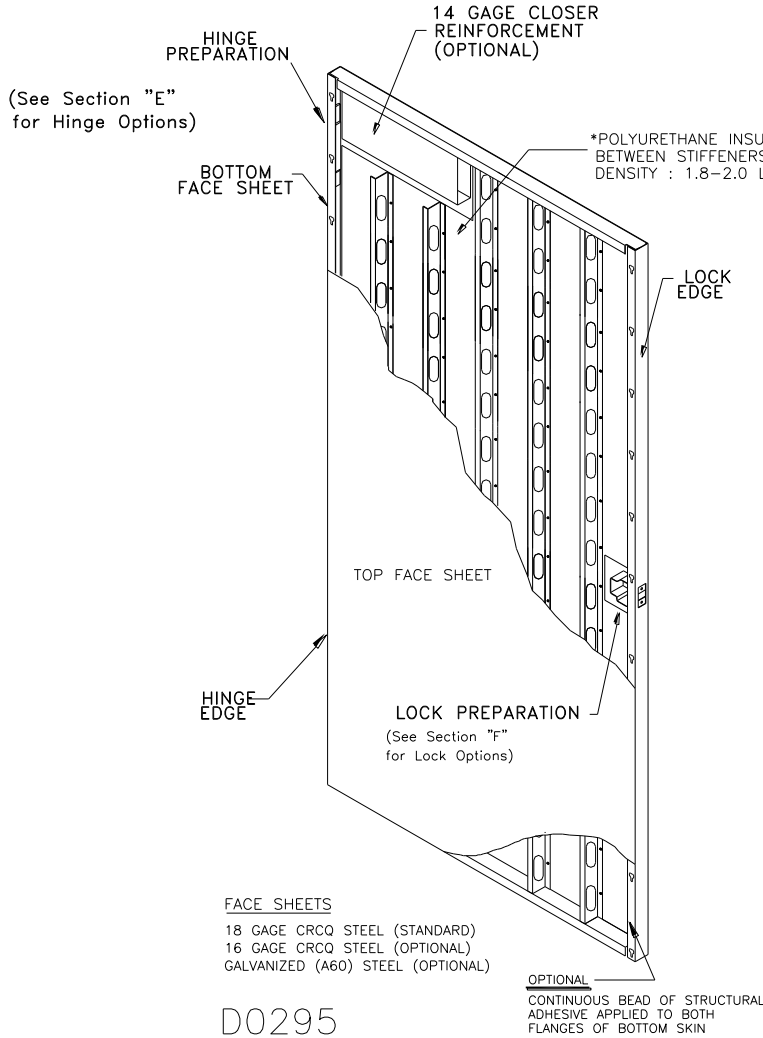


HORIZONTAL SECTION THRU VERTICAL STIFFENER

Medallion Steel-Stiffened Core Door Details

Windstorm Door Installation Instructions For Use With FL10723

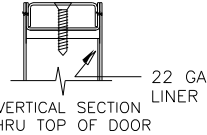
TRIO DOOR CONSTRUCTION DETAILS



LOCK EDGE IS BEVELED 1/8" IN 2"
HINGE EDGE IS PERPENDICULAR TO FACES
HINGE BACKSET IS 1/4" (VARIES PER CONDITION)

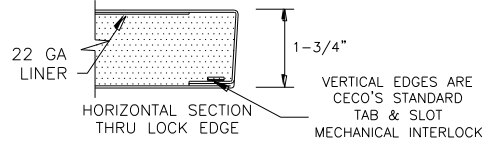
INVERTED (16 GAGE MIN., 14 GA. MAX.) TOP CHANNEL SPOT OR PROJECTION WELDED TO TOP & BOTTOM SKIN

18 GAGE CAP CHANNEL IS SCREWED TO INVERTED CHANNEL (OPTIONAL).

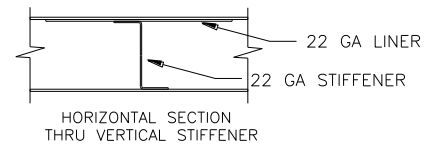


16 OR 18 GA. (WELDING OPTIONAL)

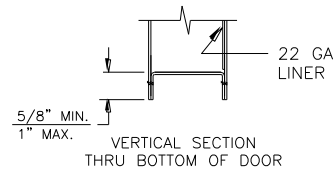
VERTICAL EDGES ARE WELDED THE FULL HEIGHT OF DOOR AND DRESSED SMOOTH TO OBTAIN COMPLETELY SEAMLESS HINGE AND LOCK EDGES.



STANDARD 22 GAGE (20 or 18 GAGE OPTIONAL) FORMED STEEL STIFFENERS, POSITIONED NOT MORE THAN 6" APART, AND WELDED TO 22 GAGE LINER (5" O.C. MAX.).



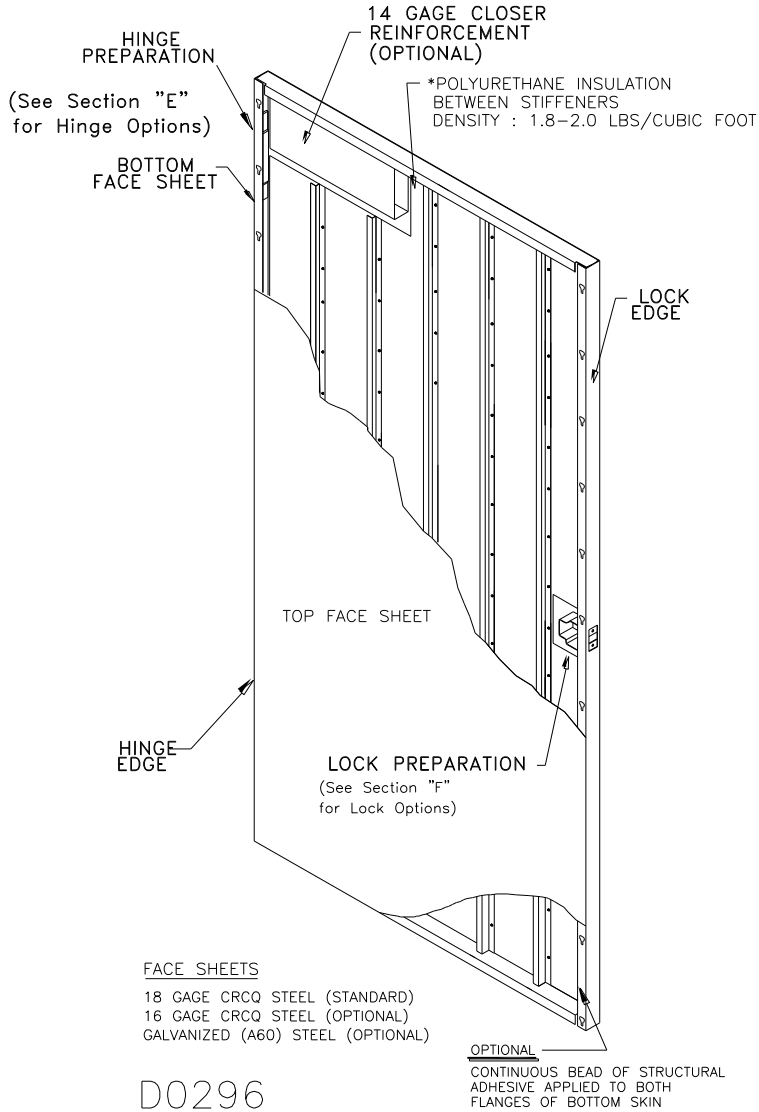
INVERTED (18 GAGE MIN., 14 GA. MAX.) BOTTOM CHANNEL SPOT OR PROJECTION WELDED TO TOP & BOTTOM SKIN



Trio Steel-Stiffened Core Door Details

Windstorm Door Installation Instructions For Use With FL10723

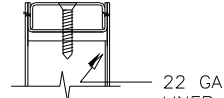
TRIO-E DOOR CONSTRUCTION DETAILS



LOCK EDGE IS BEVELED 1/8" IN 2"
HINGE EDGE IS PERPENDICULAR TO FACES
HINGE BACKSET IS 1/4" (VARIES PER CONDITION)

INVERTED (16 GAGE MIN., 14 GA. MAX.) TOP CHANNEL SPOT OR PROJECTION WELDED TO TOP & BOTTOM SKIN

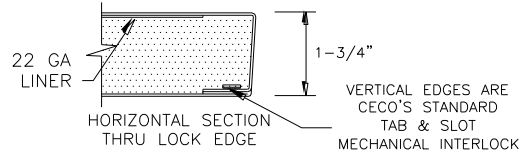
18 GAGE CAP CHANNEL IS SCREWED TO INVERTED CHANNEL (OPTIONAL).



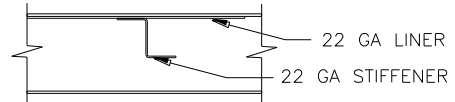
VERTICAL SECTION THRU TOP OF DOOR

16 OR 18 GA. (WELDING OPTIONAL)

VERTICAL EDGES ARE WELDED THE FULL HEIGHT OF DOOR AND DRESSED SMOOTH TO OBTAIN COMPLETELY SEAMLESS HINGE AND LOCK EDGES.

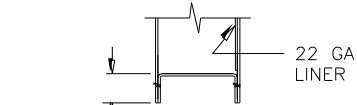


STANDARD 22 GAGE (20 or 18 GAGE OPTIONAL) FORMED STEEL STIFFENERS, POSITIONED NOT MORE THAN 6" APART, AND WELDED TO 22 GAGE LINER (5" O.C. MAX.).



HORIZONTAL SECTION THRU VERTICAL STIFFENER

INVERTED (18 GAGE MIN., 14 GA. MAX.) BOTTOM CHANNEL SPOT OR PROJECTION WELDED TO TOP & BOTTOM SKIN

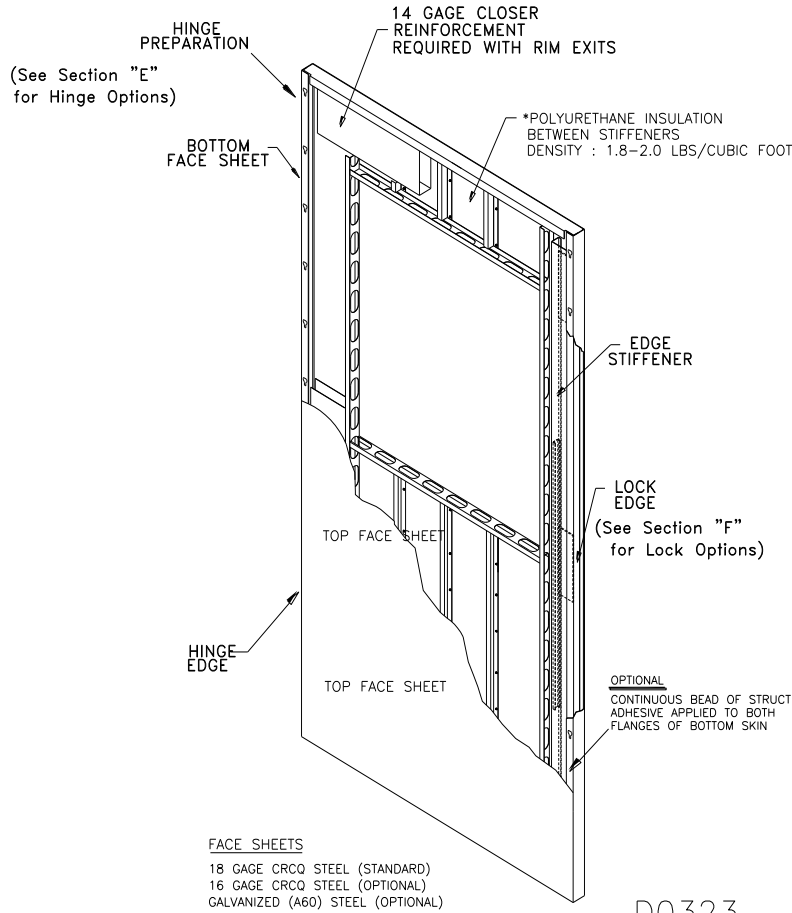


5/8" MIN.
1" MAX.
VERTICAL SECTION THRU BOTTOM OF DOOR

Trio-E Steel-Stiffened Core Door Details

Windstorm Door Installation Instructions For Use With FL10723

Glazed Trio/Trio-E CONSTRUCTION DETAILS

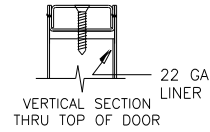


D0323

LOCK EDGE IS BEVELED 1/8" IN 2"
HINGE EDGE IS PERPENDICULAR TO FACES
HINGE BACKSET IS 1/4" (VARIES PER CONDITION)

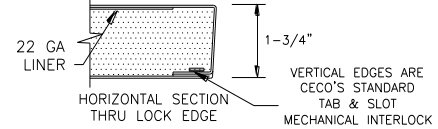
INVERTED (16 GAGE MIN., 14 GA. MAX.) TOP CHANNEL SPOT OR PROJECTION WELDED TO TOP & BOTTOM SKIN

18 GAGE CAP CHANNEL IS SCREWED TO INVERTED CHANNEL (OPTIONAL).

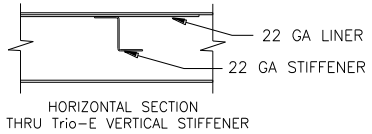


16 OR 18 GA. (WELDING OPTIONAL)

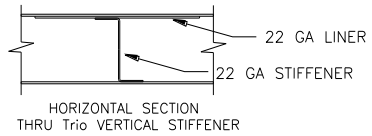
VERTICAL EDGES ARE WELDED THE FULL HEIGHT OF DOOR AND DRESSED SMOOTH TO OBTAIN COMPLETELY SEAMLESS HINGE AND LOCK EDGES.



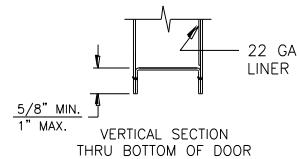
STANDARD 22 GAGE (20 or 18 GAGE OPTIONAL) FORMED STEEL STIFFENERS, POSITIONED NOT MORE THAN 6" APART, AND WELDED TO 22 GAGE LINER (5" O.C. MAX.).



STANDARD 22 GAGE (20 or 18 GAGE OPTIONAL) FORMED STEEL STIFFENERS, POSITIONED NOT MORE THAN 6" APART, AND WELDED TO 22 GAGE LINER (5" O.C. MAX.).

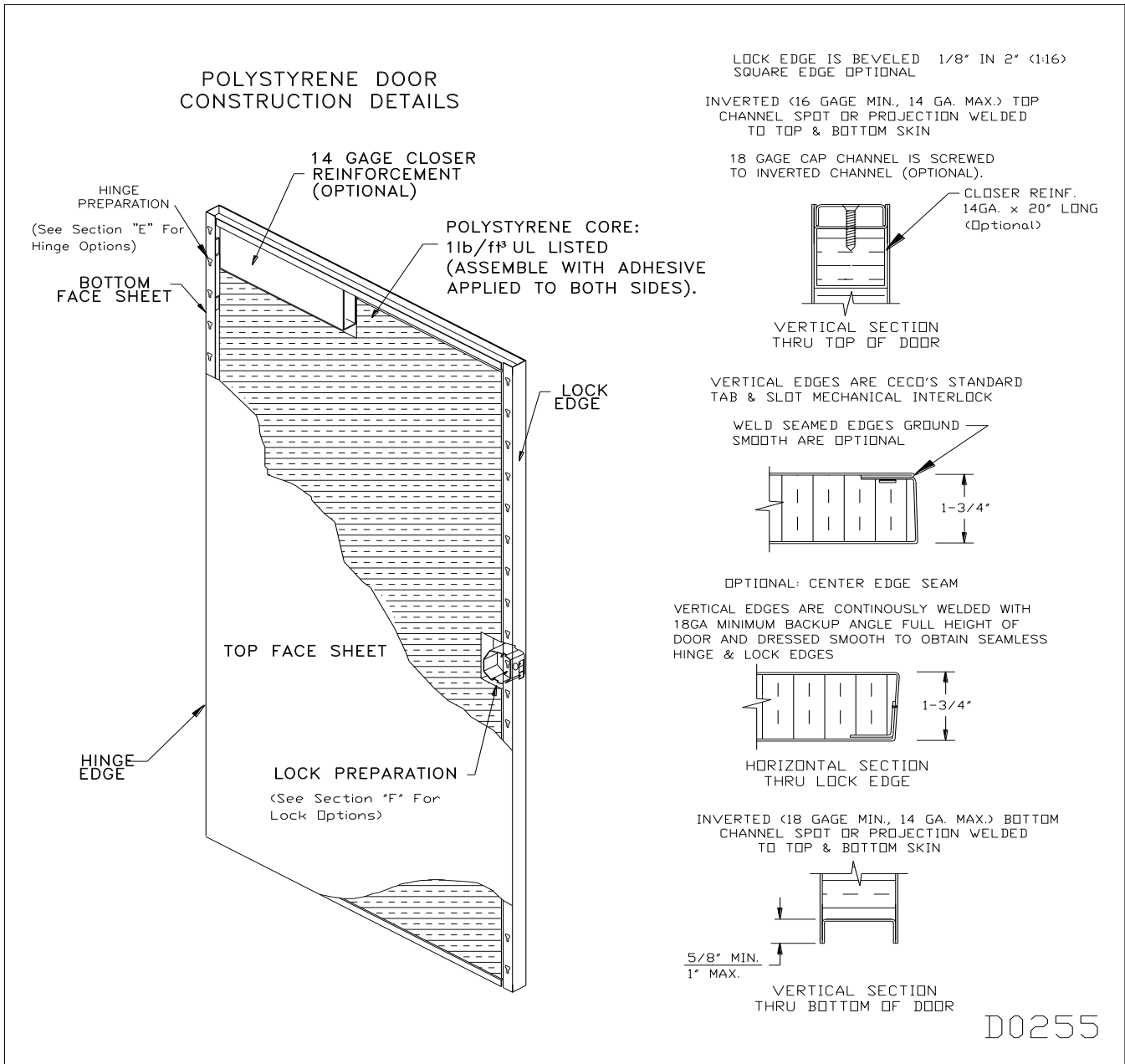


INVERTED (18 GAGE MIN., 14 GA. MAX.) BOTTOM CHANNEL SPOT OR PROJECTION WELDED TO TOP & BOTTOM SKIN



Glazed Trio/Trio-E Core Door Details

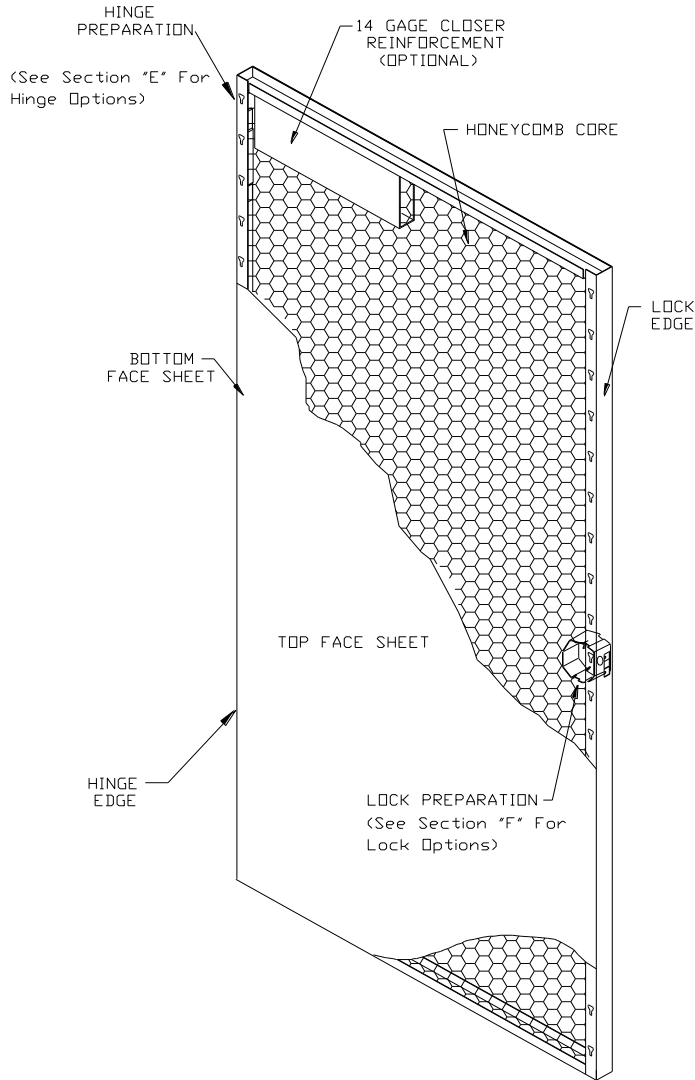
Windstorm Door Installation Instructions For Use With FL10723



Polystyrene Core Door Details

Windstorm Door Installation Instructions For Use With FL10723

Honeycomb Core Door CONSTRUCTION DETAILS

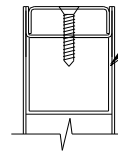


LOCK EDGE IS BEVELED 1/8" IN 2" (1:16)
SQUARE EDGE OPTIONAL

INVERTED (16 GAGE MIN., 14 GA. MAX.) TOP
CHANNEL SPOT OR PROJECTION WELDED
TO TOP & BOTTOM SKIN

18 GAGE CAP CHANNEL IS SCREWED
TO INVERTED CHANNEL (OPTIONAL).

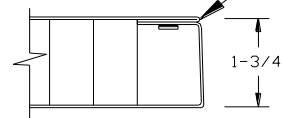
CLOSER REINF.
14GA. x 20" LONG
(Optional)



VERTICAL SECTION
THRU TOP OF DOOR

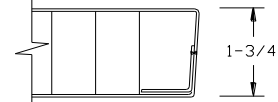
VERTICAL EDGES ARE CECO'S STANDARD
TAB & SLOT MECHANICAL INTERLOCK

WELD SEAMED EDGES GROUND
SMOOTH ARE OPTIONAL



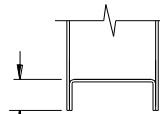
OPTIONAL: CENTER EDGE SEAM

VERTICAL EDGES ARE CONTINUOUSLY WELDED WITH
18GA MINIMUM BACKUP ANGLE FULL HEIGHT OF
DOOR AND DRESSED SMOOTH TO OBTAIN SEAMLESS
HINGE & LOCK EDGES



HORIZONTAL SECTION
THRU LOCK EDGE

INVERTED (18 GAGE MIN., 14 GA. MAX.) BOTTOM
CHANNEL SPOT OR PROJECTION WELDED
TO TOP & BOTTOM SKIN



5/8" MIN.
1" MAX.

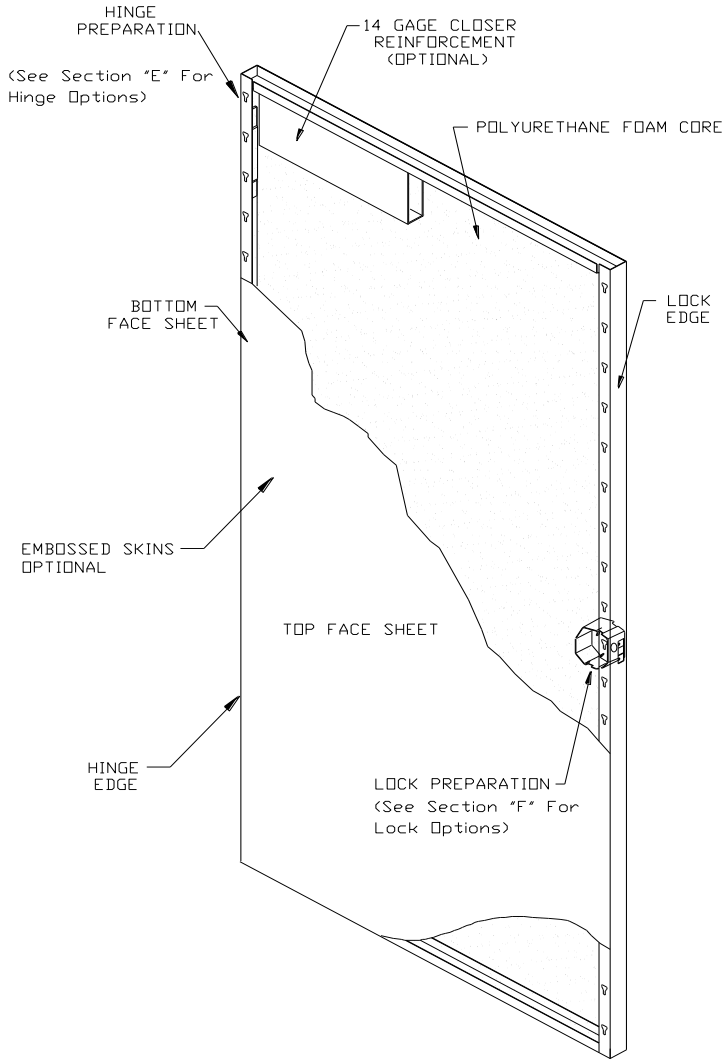
VERTICAL SECTION
THRU BOTTOM OF DOOR

D0238

Honeycomb Core Door Details

Windstorm Door Installation Instructions For Use With FL10723

Polyurethane Foam Core Door CONSTRUCTION DETAILS

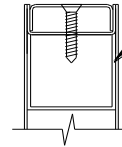


LOCK EDGE IS BEVELED 1/8" IN 2" (1:16)
SQUARE EDGE OPTIONAL

INVERTED (16 GAGE MIN., 14 GA. MAX.) TOP
CHANNEL SPOT OR PROJECTION WELDED
TO TOP & BOTTOM SKIN

18 GAGE CAP CHANNEL IS SCREWED
TO INVERTED CHANNEL (OPTIONAL).

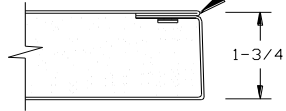
CLOSER REINF.
14GA. x 20" LONG
(Optional)



VERTICAL SECTION
THRU TOP OF DOOR

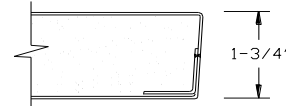
VERTICAL EDGES ARE CECO'S STANDARD
TAB & SLOT MECHANICAL INTERLOCK

WELD SEAMED EDGES GROUND
SMOOTH ARE OPTIONAL



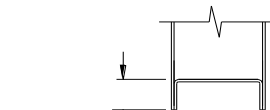
OPTIONAL: CENTER EDGE SEAM

VERTICAL EDGES ARE CONTINUOUSLY WELDED WITH
18GA MINIMUM BACKUP ANGLE FULL HEIGHT OF
DOOR AND DRESSED SMOOTH TO OBTAIN SEAMLESS
HINGE & LOCK EDGES



HORIZONTAL SECTION
THRU LOCK EDGE

INVERTED (18 GAGE MIN., 14 GA. MAX.) BOTTOM
CHANNEL SPOT OR PROJECTION WELDED
TO TOP & BOTTOM SKIN



5/8" MIN.
1" MAX.

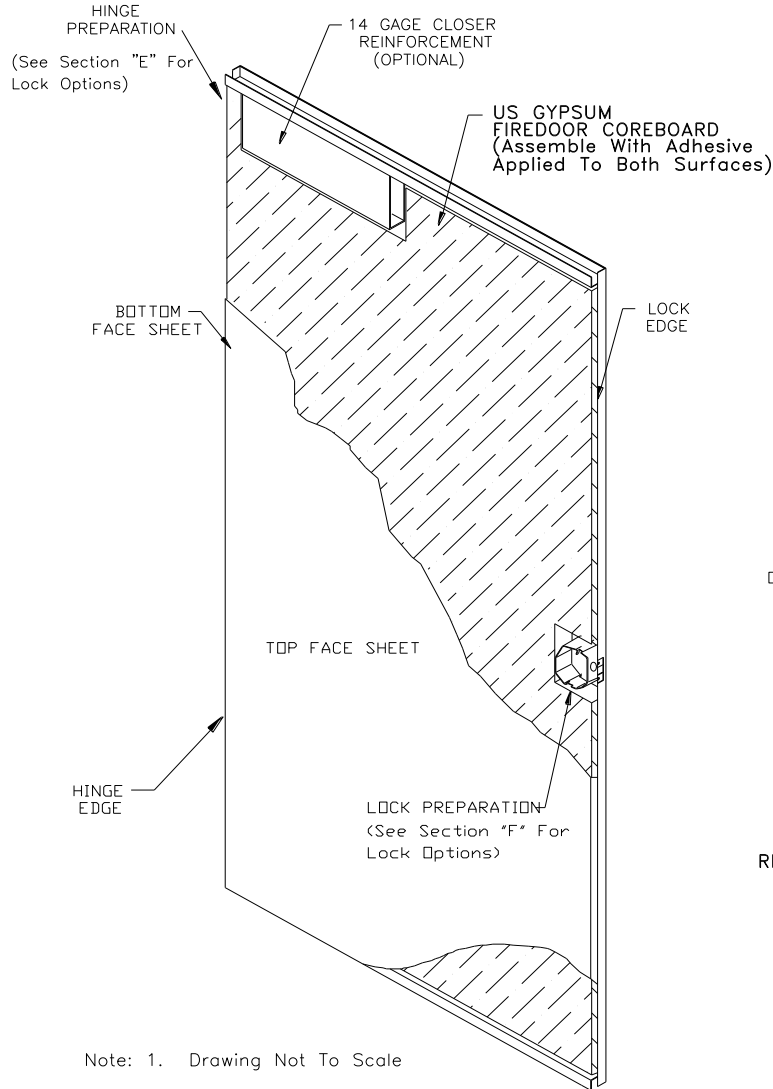
VERTICAL SECTION
THRU BOTTOM OF DOOR

D0237

Polyurethane Core Door Details

Windstorm Door Installation Instructions For Use With FL10723

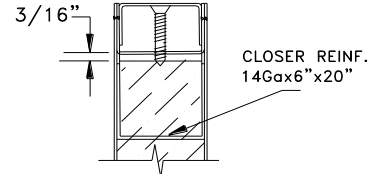
Mineral Core Door CONSTRUCTION DETAILS



LOCK AND HINGE EDGES ARE BEVELED 1/8" IN 2" (1:16)
SQUARE EDGE OPTIONAL

RECESSED 16 GAGE TOP CHANNEL IS WELDED TO BOTH FACE SHEETS

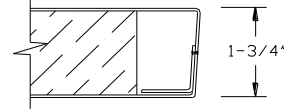
18 GAGE CAP CHANNEL IS SCREWED TO INVERTED CHANNEL (OPTIONAL).



VERTICAL SECTION THRU TOP OF DOOR

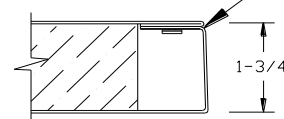
STANDARD: CENTER EDGE SEAM

VERTICAL EDGES ARE CONTINUOUSLY WELDED WITH 18GA MINIMUM BACKUP ANGLE FULL HEIGHT OF DOOR AND DRESSED SMOOTH TO OBTAIN SEAMLESS HINGE & LOCK EDGES



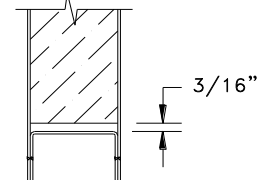
OPTIONAL: TAB & SLOT MECHANICAL INTERLOCK

WELD SEAMED EDGES GROUND SMOOTH ARE OPTIONAL



HORIZONTAL SECTION THRU LOCK EDGE

RECESSED 16 GAGE BOTTOM CHANNEL IS SPOT WELDED TO BOTH FACE SHEETS



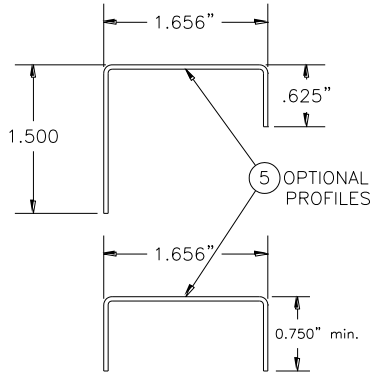
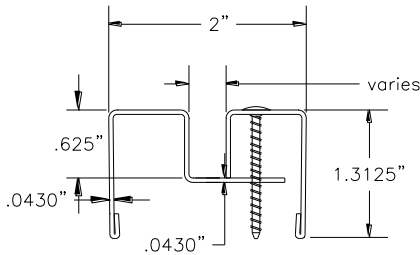
VERTICAL SECTION THRU BOTTOM OF DOOR

D0262

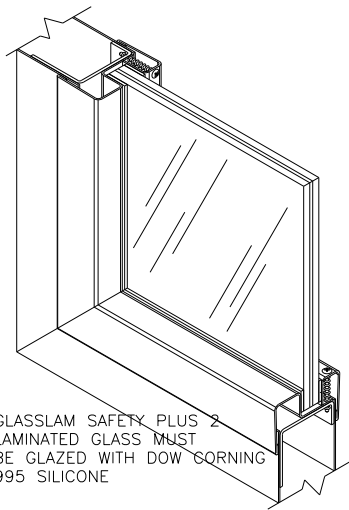
Mineral Core Door Details

Windstorm Door Installation Instructions For Use With FL10723

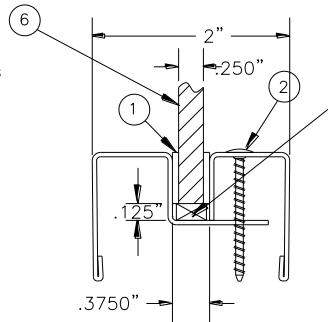
D0254



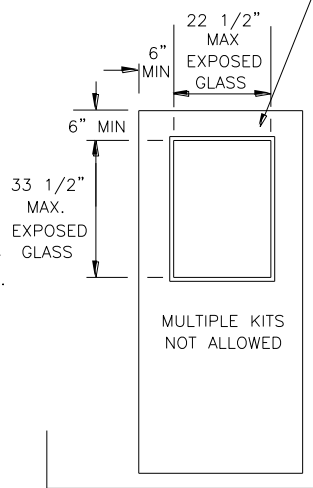
NOTE:
SURROUND CHANNEL
LENGTH IS EQUAL TO CUT-OUT
IN DOOR FOR VISION LIGHT KIT.



GLASSLAM SAFETY PLUS 2
LAMINATED GLASS MUST
BE GLAZED WITH DOW CORNING
995 SILICONE

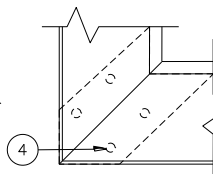


**GLAZING (OPTIONAL)
1/4" MAKROLON POLYCARBONATE
SHEET BY SHEFFIELD PLASTICS
TYPE 1 VISION LIGHT KIT
**SEE LIMITATIONS BELOW

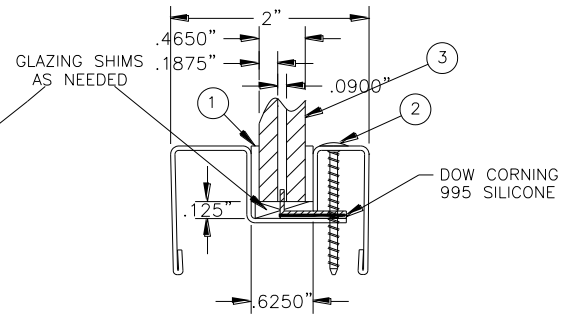


DESIGN LOAD = +/- 60 PSF
IMPACT RATING = 350 FT LBF

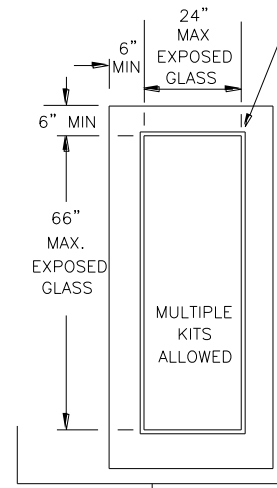
VISION LIGHT KIT DETAILS



VISION LIGHT
CORNER WELD
DETAIL
(4 SPOT WELDS
AT EACH CORNER)



*GLAZING
GLASSLAM SAFETY PLUS 2
LAMINATED GLASS
TYPE 2 VISION LIGHT KIT
*SEE LIMITATIONS BELOW



DESIGN LOAD = +/- 60 PSF
IMPACT RATING = 350 FT LBF

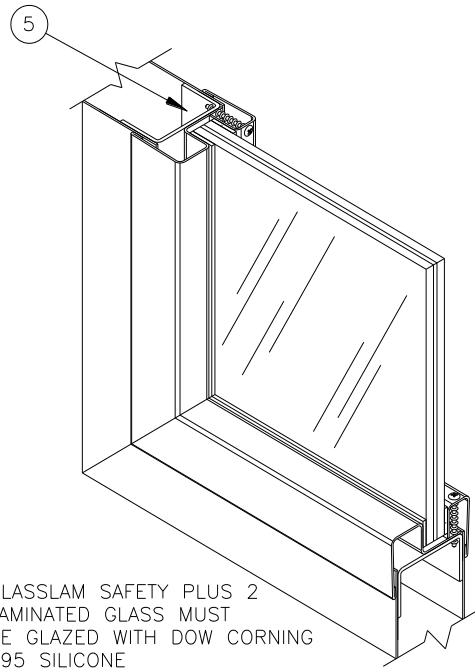
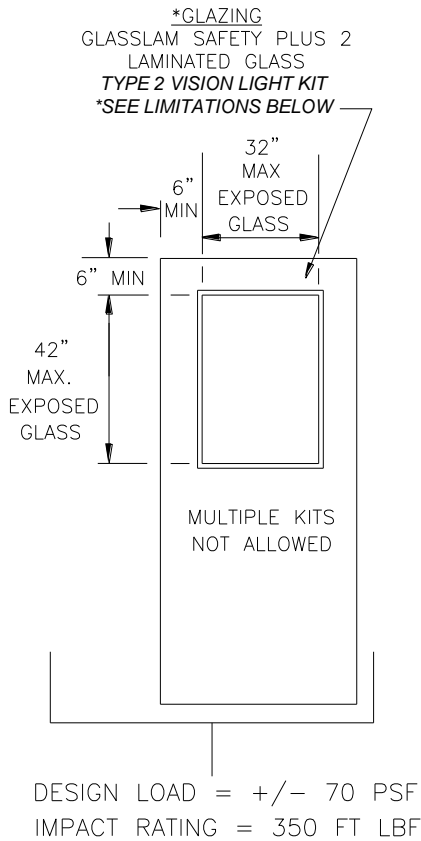
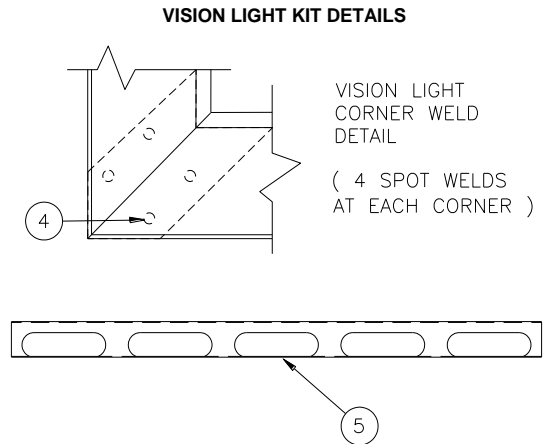
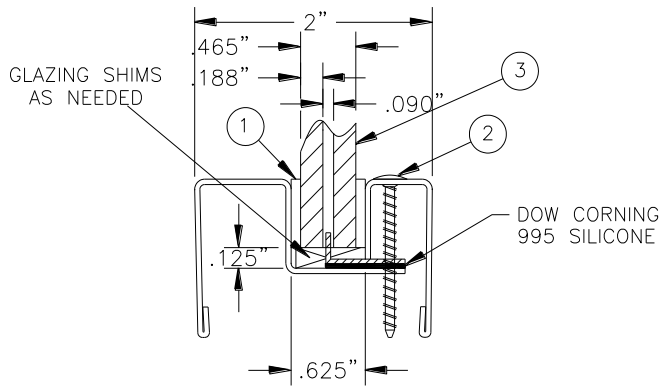
NOTES:

- 1) 1/8 x 1/2 x PERIMETER OF VISION LIGHT KIT
CLOSED CELL FOAM TAPE PER VISION LIGHT
- 2) #6 x 1 1/4" OVAL HEAD TEK SCREW -
MAXIMUM SCREW HOLE SPACING IS 9.75" ON CENTER
- 3) GLASSLAM SAFETY PLUS 2 LAMINATED GLASS
- 4) 18 GA. (.043) MIN. TYPE 2 VISION LIGHT KIT
- 5) 14 GA (.068) MIN. PIECES SURROUND CHANNEL
PER VISION LIGHT
- 6) 1/4" MAKROLON POLYCARBONATE SHEET

Applied Glass Kit Details

* GLASSLAM SAFETY PLUS 2 laminated glass tested as 3/16 HS glass x 0.090 interlayer x 3/16" HS glass.

Windstorm Door Installation Instructions For Use With FL10723



- NOTES:
- 1) 1/8 x 1/2 x PERIMETER OF VISION LIGHT KIT CLOSED CELL FOAM TAPE PER VISION LIGHT
 - 2) #6 X 1 1/4" OVAL HEAD TEK SCREW - MAXIMUM SCREW HOLE SPACING IS 8.250" ON CENTER AND 3.5" MAX. FROM ENDS
 - 3) GLASSLAM SAFETY PLUS 2 LAMINATED GLASS
 - 4) 18 GA. (.043) MIN. TYPE 2 VISION LIGHT KIT
 - 5) 20 GA (.032) MIN. GAGE SURROUND CHANNEL

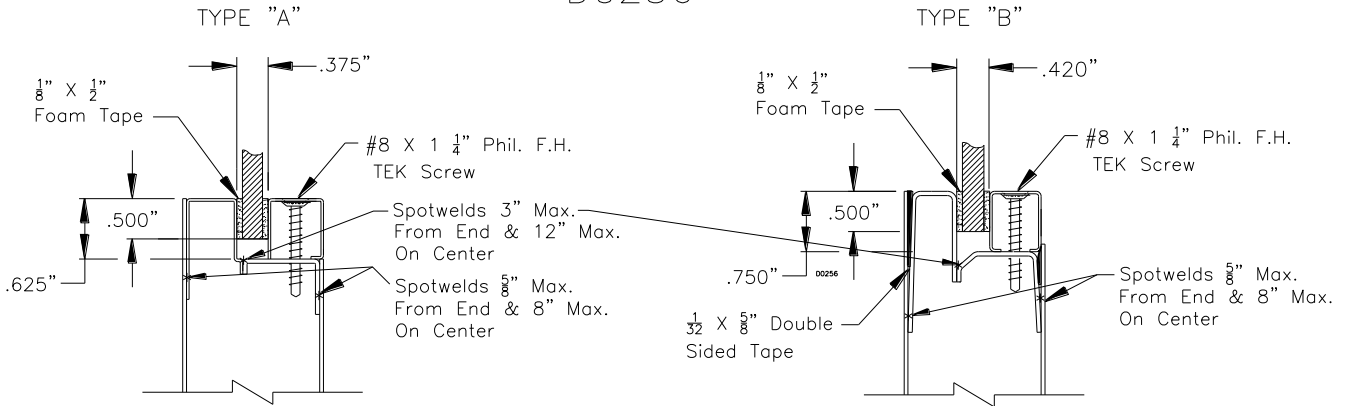
D0322

Applied Glass Kit Details Trio/Trio-E

* GLASSLAM SAFETY PLUS 2 laminated glass tested as 3/16 HS glass x 0.090 interlayer x 3/16" HS glass.

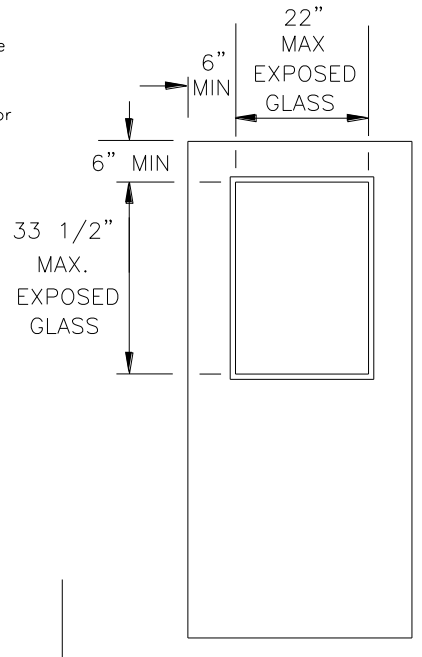
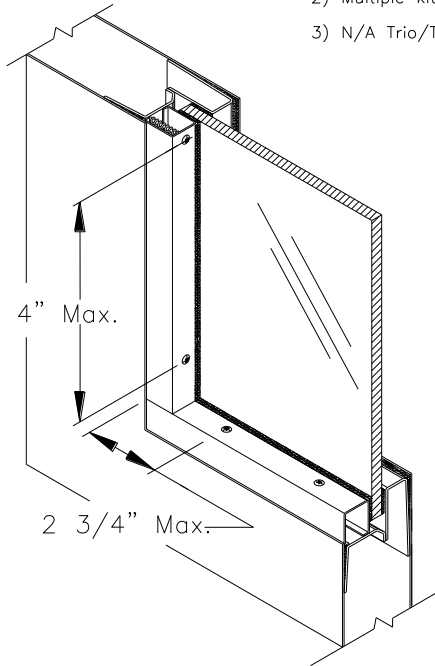
Windstorm Door Installation Instructions For Use With FL10723

D0256



NOTES:

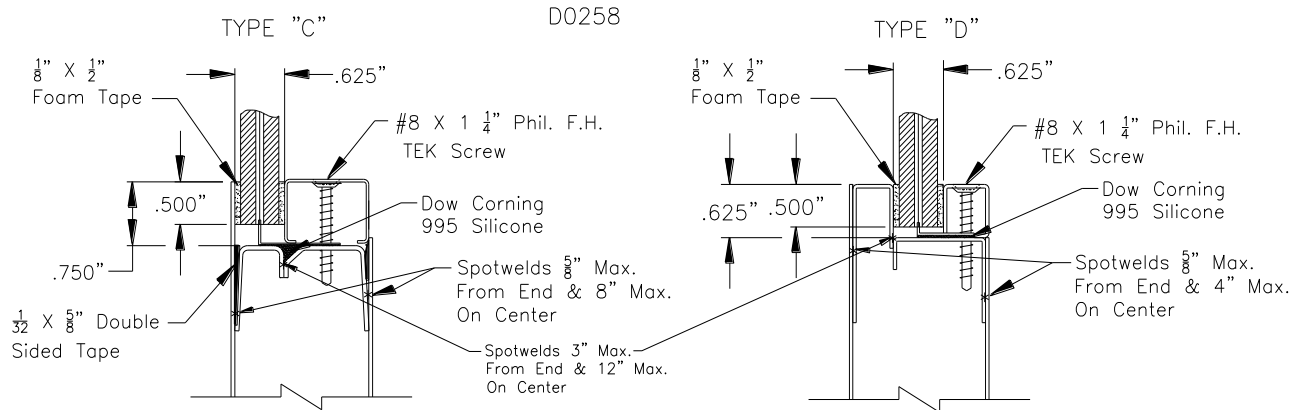
- 1) Glass is 1/4" Makrolon Polycarbonate
- 2) Multiple kits not allowed
- 3) N/A Trio/Trio-E or Imperial/Versadoor



DESIGN LOAD = +/- 60 PSF
IMPACT RATING = 350 FT LBF

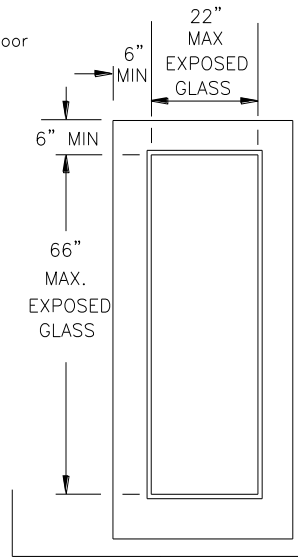
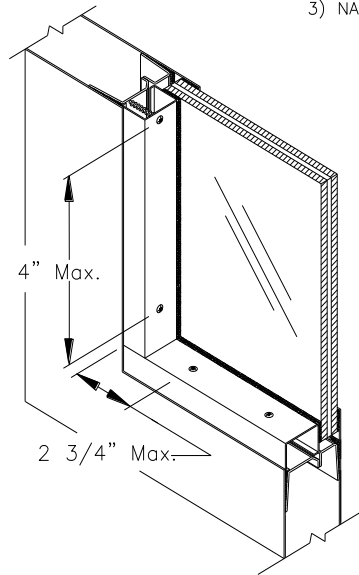
Flush Welded Glass Kit Details

Windstorm Door Installation Instructions For Use With FL10723



NOTES:

- 1) Glass is Glasslam Safety Plus II
- 2) Multiple kits allowed
- 3) NA Trio/Trio-E or Imperial/Versadoor



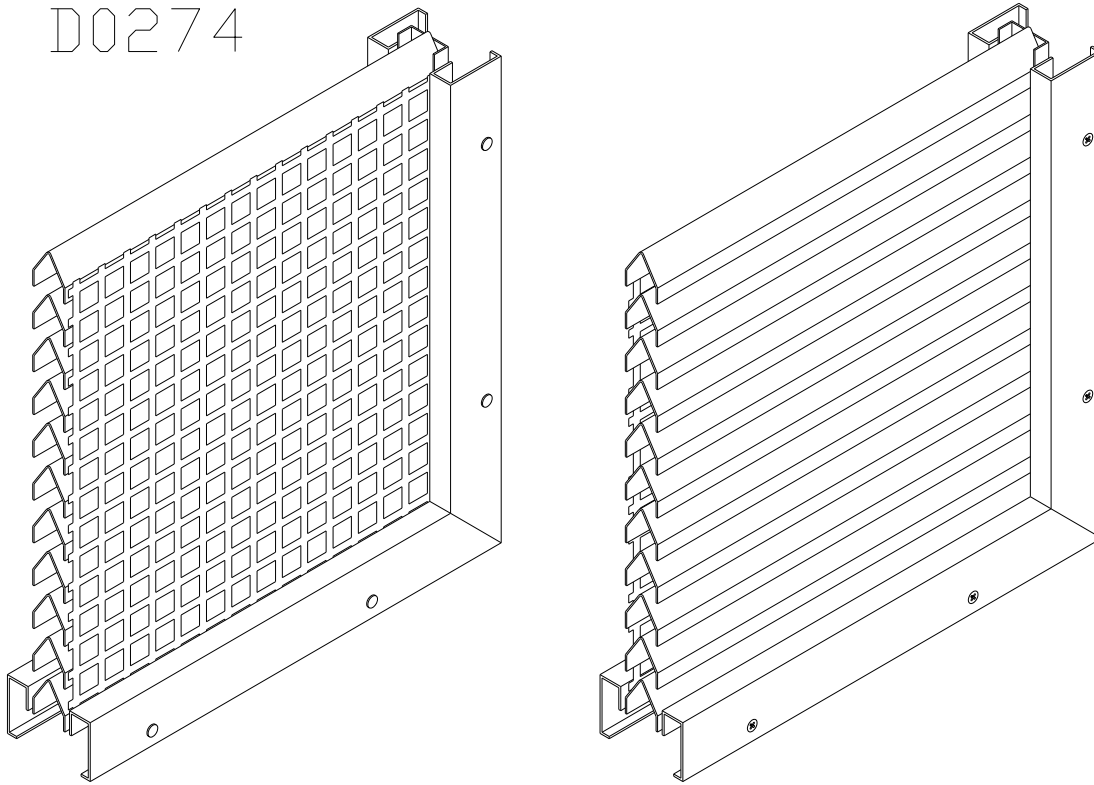
DESIGN LOAD = +/- 60 PSF
IMPACT RATING = 350 FT LBF

Alternate Flush Welded Glass Kit Details

* GLASSLAM SAFETY PLUS 2 laminated glass tested as 3/16 HS glass x 0.090 interlayer x 3/16" HS glass.

Windstorm Door Installation Instructions For Use With FL10723

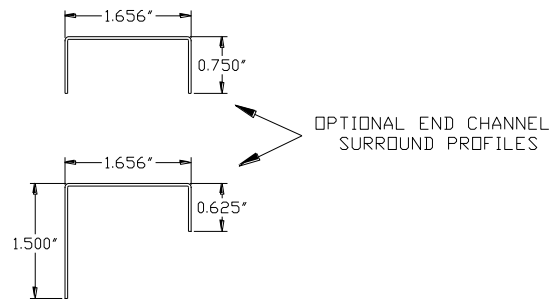
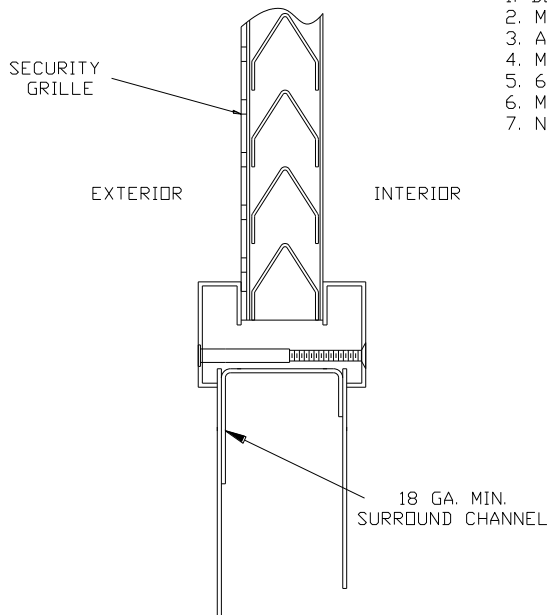
D0274



LOUVER INSTALLATION

NOTES:

1. DESIGN PRESSURE \pm 70 PSF MAX. (OUTSWING ONLY).
2. MARKAR WLV60 LOUVER WITH SECURITY GRILLE SHOWN.
3. ANY LISTED LOUVER MAY BE USED.
4. MAXIMUM LOUVER SIZE IS 34" X 78".
5. 6" MINIMUM STILES AND RAILS.
6. MULTIPLE LOUVERS ALLOWED PER DOOR
7. N/A Trio or Trio-E



Louver Details

* Louver kit as shown is excluded from use with water or air infiltration applications