


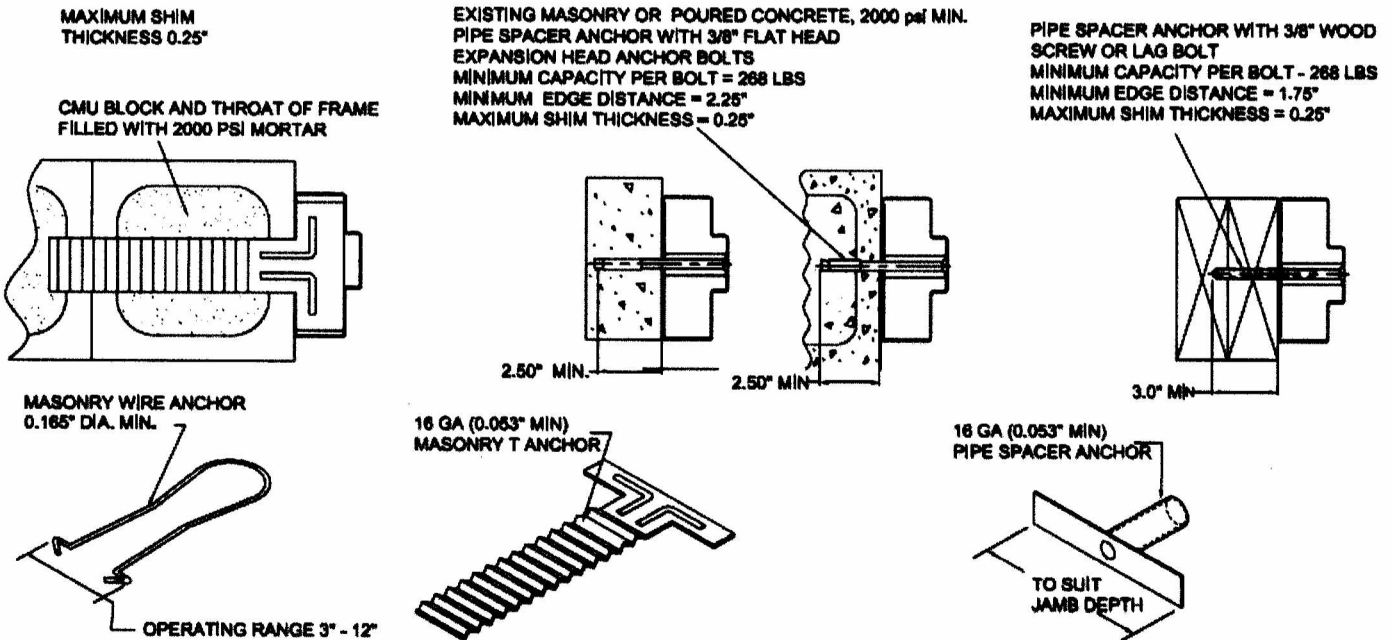
CURRIES Div. of AADG, Inc.
Installation Instructions for Sidelight and Storefront Frames
Design Pressure 70 psf

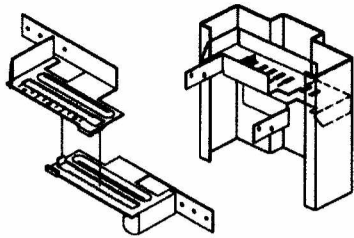

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 4-27-09

General Information

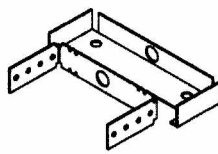
- 1) Building walls must be designed to support and sustain loads developed by the door and frame assembly and transfer loads to the building structure.
- 2) Rough opening material, by others, must be installed properly to transfer loads to the building structure.
- 3) Anchoring or loading conditions not shown in these details are not part of this approval.
- 4) Anchor embedment to base material shall be beyond wall dressing or stucco.
- 5) Masonry "T", Pipe Spacer, wire, welded EWA, wood stud, or steel stud anchors required.
- 6) Wood density, $G = 0.55$.
- 7) Anchors shall be as listed and spaced as shown in the table for each group of products.
- 8) Substitution of components must be in compliance with the current Florida Building Code.

Information for all Anchor Types

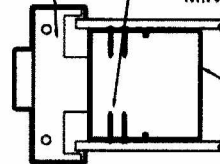




18 ga. (0.041" MIN.)
SLIP-IN STUD ANCHOR



SLIP-IN STUD ANCHOR
WITH #8 X 1" GRADE 5
SHEET METAL SCREW;
4 SCREWS REQUIRED PER ANCHOR;
MIN EDGE DISTANCE - 0.328"
MIN CAPACITY PER SCREW = 67 LB

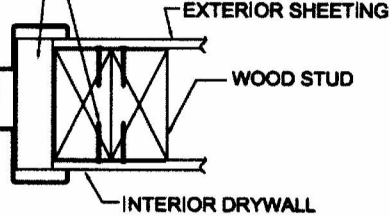
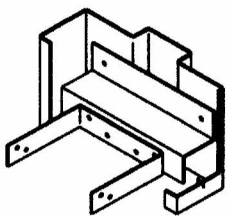


18 ga (0.041" min.)
STEEL STUDS

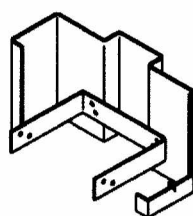
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7-27-09

WOOD STUD ANCHOR
WITH #8 X 1" GRADE 5
SHEET METAL SCREW;
4 SCREWS REQUIRED PER ANCHOR;
MIN EMBEDMENT = 1"
MIN EDGE DISTANCE = 0.524"
MIN CAPACITY PER SCREW = 67 LB

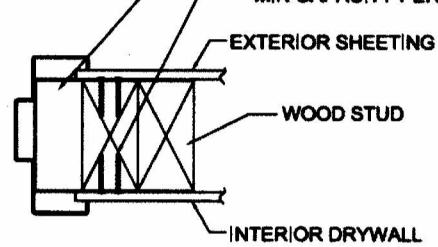
16 ga (0.053" MIN.)
WOOD STUD ANCHOR



16 ga (0.053" MIN.)
WOOD STUD ANCHOR



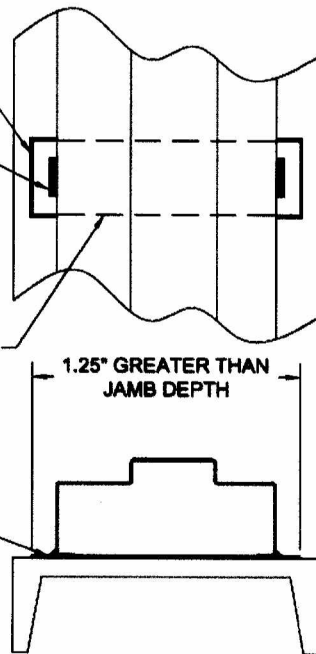
WOOD STUD ANCHOR
WITH #8 X 1" GRADE 5
SHEET METAL SCREW;
4 SCREWS REQUIRED PER ANCHOR;
MIN EMBEDMENT = 1"
MIN EDGE DISTANCE = 0.524
MIN CAPACITY PER SCREW = 67 LB



STEEL SHIMS WELDED
TO BUILDING STRUCTURE
WELD HOLLOW METAL FRAME
TO SHIM WITH 3/16" WELD,
1" LONG BOTH SIDES OF FRAME

2" X 7" STEEL SHIM
PLATE(S), OR TO SUIT
FRAME JAMB DEPTH

MAXIMUM SHIM SPACE 1/4"



1.25" GREATER THAN
JAMB DEPTH

Transom Frame with Single or Pair of 3'0" Wide Doors

- 1.) Anchors are required only in the head of a transom frame above a pair of doors
- 2.) 10 gauge C Channels are required in mullions over 3 feet in length
- 3.) See glazing and panel installation information for additional details.

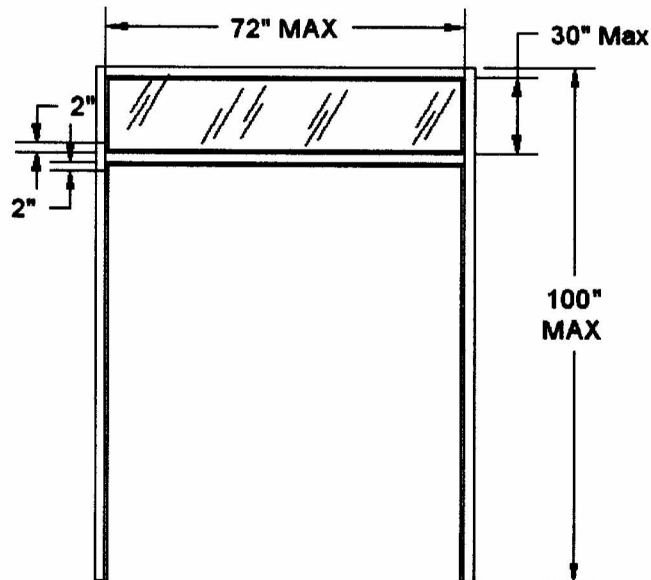


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JAMB ANCHOR REQUIREMENT TABLE – TRANSOM FRAME with SINGLE DOOR or PAIRS of DOORS					
OPENING HEIGHT	ANCHORS W/ 3/8" LAG SCREW, STEEL STUD, OR WOOD STUD	ANCHORS W/ 3/8 EXPANSION SHELL	MAX. SPACING	MASONRY "T" OR WIRE ANCHORS, OR WELDED TO BUILDING STRUCTURE	MAX. SPACING
90"	5	4	22	4	24
92" – 96"	5	5	22	4	24

See diagram below for additional anchoring of requirements at transom mullion.

HEAD ANCHOR REQUIREMENT TABLE TRANSOM FRAME HEAD WITH PAIR OF DOORS		
ANCHOR TYPE	DISTANCE FROM END OF THE HEAD	SPACING
ANCHORS W/ 3/8" LAG SCREW	2"	14" ON CENTER MAX
WELDED TO THE BUILDING STRUCTURE	3"	30" ON CENTER MAX



ADDITIONAL ANCHORING REQUIREMENTS FOR PAIRS OF DOORS WITH A TRANSOM MULLION USING 3/8" LAG BOLTS INTO WOOD STUDS OR ANCHORING TO STEEL STUDS

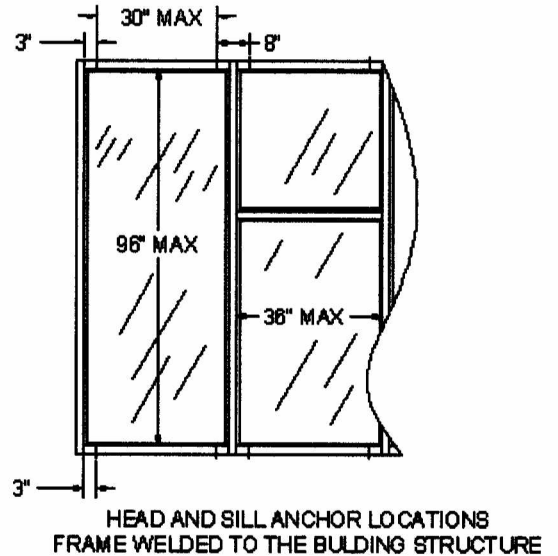
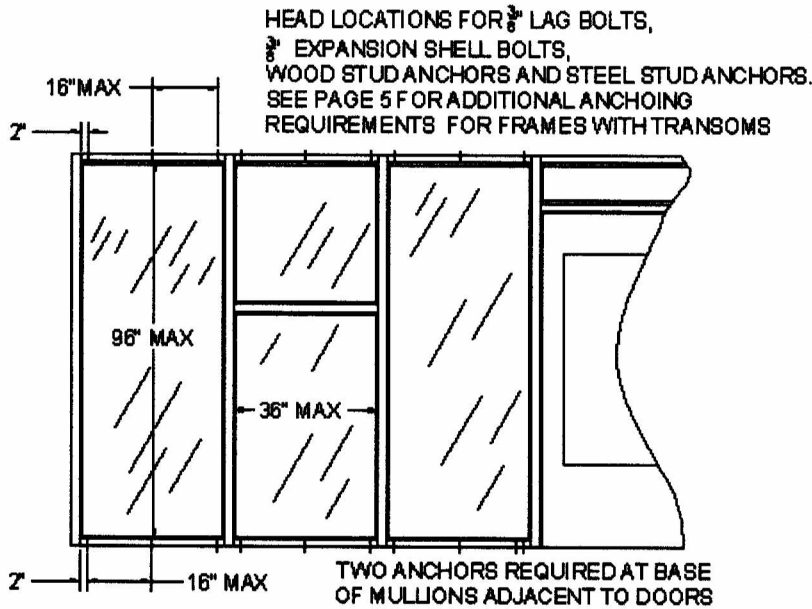
Storefront Frame Anchor Requirements

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 4-27-09

JAMB ANCHOR REQUIREMENT TABLE -STORE FRONT					
OPENING HEIGHT	ANCHORS W/ 3/8" LAG SCREW, STEEL STUD, OR WOOD STUD	ANCHORS W/ 3/8" EXPANSION SHELL	MAX. SPACING	MASONRY "T", OR WIRE ANCHORS	MAX. SPACING
80" - 88"	4	4	22	4	24
90"	5	4	22	4	24
92" - 96"	5	5	22	4	24

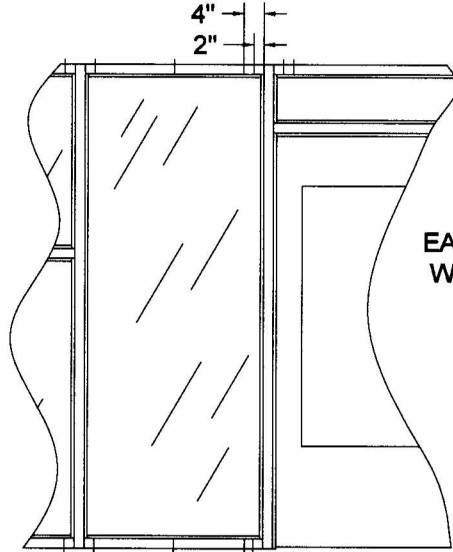
Head and sill anchor requirements for Storefront Frames

1.) Anchors are required in the head frame member above any transom in a storefront frame.



Anchor Requirements for Storefront Frame with Transom Mullions

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7-27-09




TWO ANCHORS REQUIRED ON EACH SIDE OF HEAD END OF A VERTICAL WHEN TRANSOM MULLION IS ATTACHED TO THE VERTICAL MULLION

TWO ANCHORS REQUIRED AT BASE OF MULLIONS ADJACENT TO DOORS

ADDITIONAL ANCHORING REQUIREMENTS FOR FRAMES WITH A TRANSOM WHEN USING $\frac{3}{8}$ " LAG BOLTS INTO WOOD OR ANCHORING TO METAL STUDS

Anchor Requirements for Hollow Metal Hardware Mullions

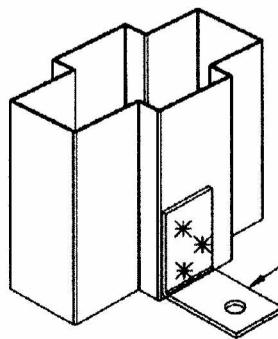
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The head end of mullions may be anchored using any of the jamb anchors as indicated below.

ANCHOR REQUIREMENTS AT THE HEAD END OF HOLLOW METAL MULLIONS					
ANCHOR TYPE	QUANTITY REQUIRED	REQUIRED EMBEDMENT	SUBSTRATE	MIN EDGE DISTANCE	MIN. CAPACITY PER ANCHOR
ANCHORS WITH 3/8" LAG BOLT	4	3"	WOOD	1.75"	292 LBS
ANCHORS WITH 3/8" EXPANSION SHELL BOLT	2	2.5"	2000 PSI CONCRETE	2.25"	584 LBS
STEEL STUD ANCHORS WITH FOUR #8 x 1" SHEET METAL SCREWS	4	N/A	18 GAUGE STEEL STUD	0.328"	292 LBS
WOOD STUD ANCHORS WITH FOUR #8 x 1" SHEET METAL SCREWS	2	1"	WOOD	0.528"	584 LBS
WELDED TO BUILDING STRUCTURE	2	N/A	STEEL	N/A	584 LBS

The sill end of hollow metal mullions may only be anchored using 3/8" lag bolts into southern pine or expansion shell anchors bolts into masonry.

ANCHOR REQUIREMENTS AT SILL END OF HOLLOW METAL MULLIONS					
ANCHOR TYPE	QUANTITY REQUIRED	REQUIRED EMBEDMENT	SUBSTRATE	MIN EDGE DISTANCE	MIN. CAPACITY PER ANCHOR
ANCHORS WITH 3/8" LAG SCREW	4	3"	SOUTHERN PINE	1.75"	292 LBS
ANCHORS WITH 3/8" EXPANSION SHELL ANCHOR	2	2.5"	2000 PSI CONCRETE	2.25"	584 BS

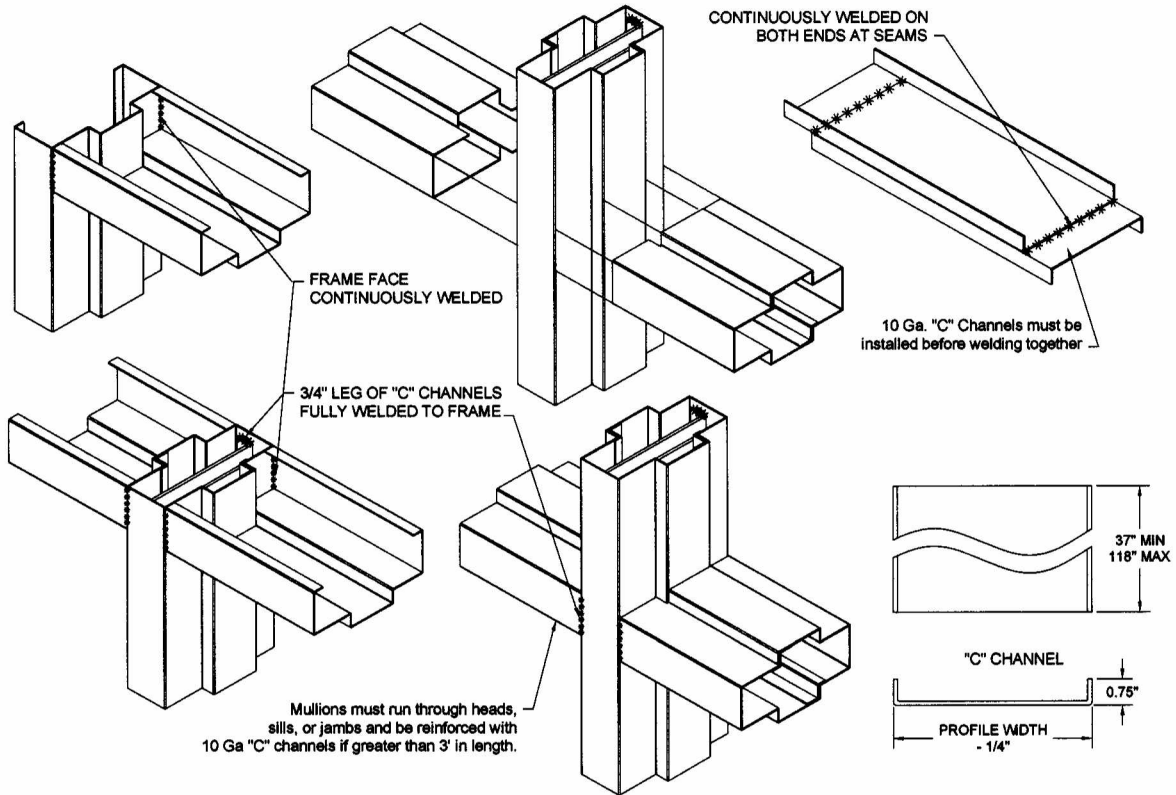


12 GA (0.094" MIN)
 MULLION FOOT CLIP AT
 SILL END OF THE MULLION

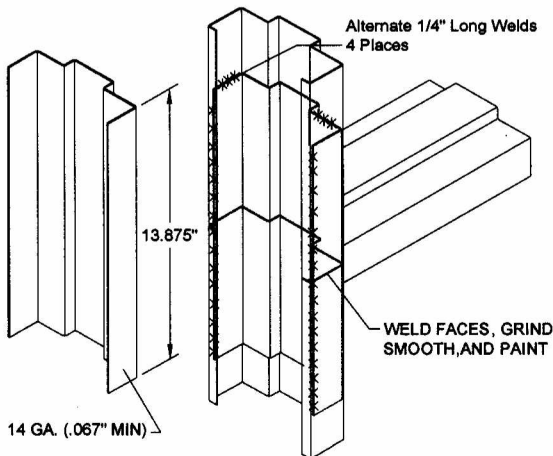
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Hollow – Metal Mullion Details

- 1.) Mullions must be face welded
- 2.) Mullions over 3' in length require 10 gauge "C" channels.
- 3.) Mullions must run through heads, sills, or jambs and be reinforced with 10 Ga. (0.126") "C" channels if greater than 3' in length.
- 4.) "C" channels must be installed at the factory.

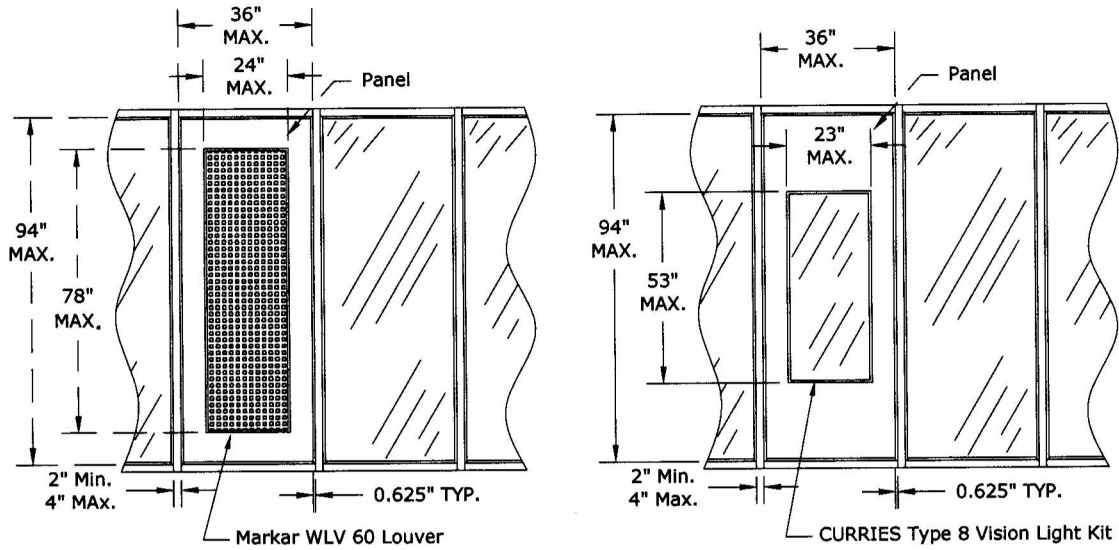


Frame Splice

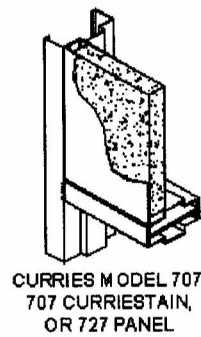
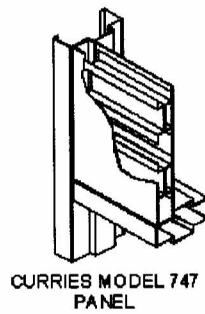


Glazing & Panel Information

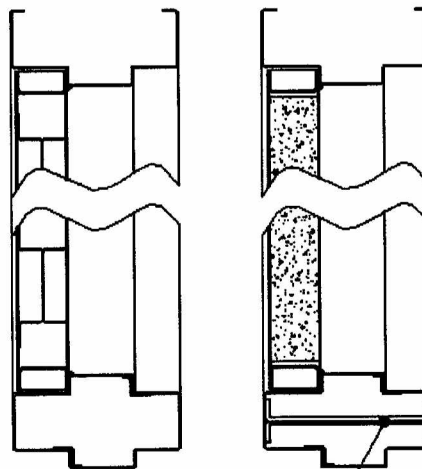
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Glass may be installed on either side of the fixed stop. See glazing details below.



1-3/4" Steel door panels must be installed on the exterior side of the fixed stop and sealed with silicone around the perimeter of the panel.



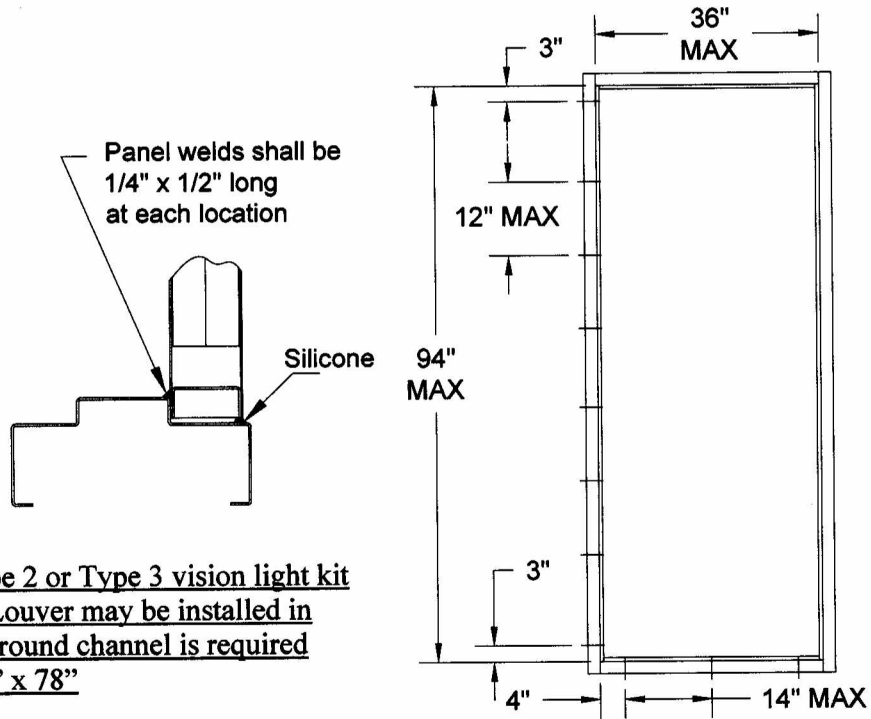
10 GA. "C" CHANNELS REQUIRED IN MULLIONS GREATER THAN 36" LONG

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Glass and panel sizing

GLAZING LIMITATIONS ANNEALED GLASS ONLY		GLAZING LIMITATIONS HEAT STRENGTHENED GLASS AND PANELS	
IF VISIBLE WIDTH IS	VISIBLE HEIGHT ALLOWED IS	IF VISIBLE WIDTH IS	VISIBLE HEIGHT ALLOWED IS
3" - 33.5"	3" - 94"	3" - 36"	3" - 94"
3" - 34"	3" - 89"	36" - 72"	3" - 30"
3" - 34".5	3" - 85"		
3" - 35"	3" - 82"		
3" - 35.5"	3" - 78"		
3" - 36"	3" - 76"		
36" - 72"	3" - 30"		

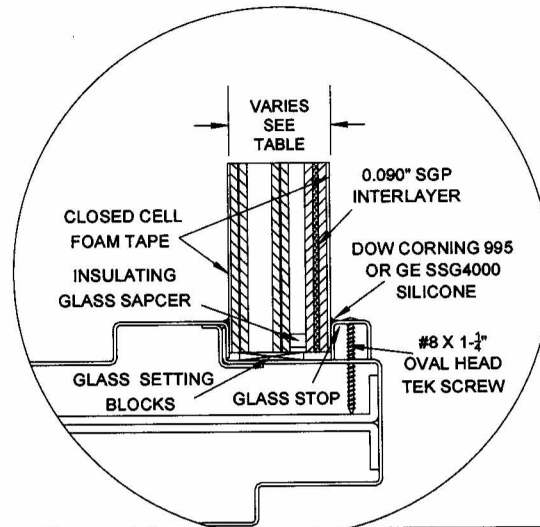
Panel installation



Note: CURRIES Type 2 or Type 3 vision light kit Or Markar WLV60 Louver may be installed in panels. 20 gauge surround channel is required Maximum size is 24" x 78"

Vetrotech Glazing Instructions – Frames

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 VZL(F)30 By VJS
 4-27-09



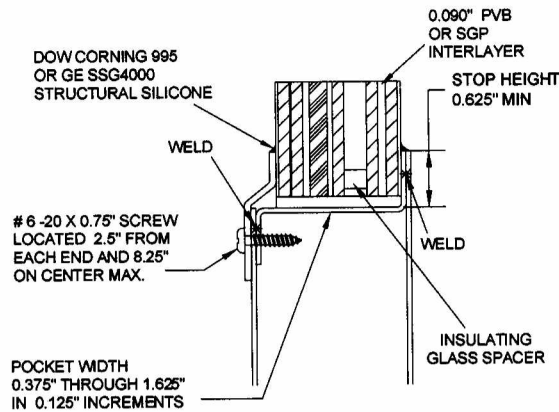
Glass	Thickness	Impact Resistant Product
Vetrotech Keralite Ultra 90 HI	1-1/2"	DuPont Sentry Glass Pus (SGP)
Vetrotech Contraflam 90 HI	1-7/8"	DuPont Sentry Glass Pus (SGP)
Vetrotech Swissflam 90 HI	1-15/16"	DuPont Sentry Glass Pus (SGP)
Vetrotech Contraflam 60 HI	1-9/16"	DuPont Sentry Glass Pus (SGP)
Vetrotech Swissflam 60 HI	1-5/8"	DuPont Sentry Glass Pus (SGP)
Vetrotech Swissflam 45 HI	1-3/8"	DuPont Sentry Glass Pus (SGP)

Glass Installation Instructions – Frames

- 1.) Before removing the removable stops, using a pencil mark alignment marks on the stops and the frame.
- 2.) Unscrew the #8-1-/2" Oval head TEK screws from the removable stops and remove the stops. Keep the screws.
- 3.) Wipe the fixed stop clean and then apply closed cell foam tape to the fixed stop.
- 4.) Wipe the removable stop clean and then apply closed cell foam tape to the removable stop.
- 5.) Use 1/8" thick max glazing shims at the sill. Glazing shims should be the full thickness of the glass.
- 5.) Place 1/8" thick glazing shims as needed then set the glass on the foam glazing tape.
- 6.) Run a generous toe bead of Dow Corning 995 or GE structural silicone around the opening.
- 7.) Remove the release tape from the closed cell foam tape on the fixed stop.
- 8.) Place glass down on sill and glazing blocks and press up against closed cell foam tape.
- 9.) Run a heel bead around the perimeter to the glass.
- 10.) Using the alignment marks, position the removable glass stops against the glass. Lightly grind the end of each stop for additional clearance
- 11.) Install and tighten the #8 x 1-1/2" Oval Head TEK screws in the removable stops. Be careful not to over tighten.
- 12.) Using the Dow Corning 995 or GE SGG 4000 silicone or other high quality silicone, apply a cap bead over the closed cell foam tape.

Vetrotech Glazing Instructions – Vision Light Kits in Panels

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 V32-1P130 By: JVS
 9-27-09



Glass	Glass Thickness	Impact Resistant Product
Vetrotech Keralite Ultra 90 HI	1-1/2"	DuPont Butacite PVB DuPont Sentry Glass Pus (SGP)
Vetrotech Swissflam 45 HI	1-3/8"	DuPont Butacite PVB DuPont Sentry Glass Pus (SGP)

CURRIES Type 8 Vision Light Kit

- 1) Before removing the removable stops, check to be sure there are screws in every hole. Pre-drill holes with a #36 bit where there are screw holes but no screws. Do not remove stops.
- 2) Using a pencil, mark alignment marks on the removable stops and the door.
- 3) Unscrew the #6 x 1-1/4" oval head TEK screws from the removable stops and remove the removable stops. Keep the screws.
- 4) Wipe the fixed stop clean and then apply closed cell foam tape to the fixed stop.
- 5) Wipe the removable stop clean and then apply closed cell foam tape to the removable stop.
- 6) Use 1/8" thick max glazing shims at the sill. Glazing shims should be the full thickness of the glass.
- 7) Run a generous toe bead of Dow Corning 995 or GE structural silicone around the opening.
- 8) Remove the release tape from the closed cell foam tape on the fixed stop.
- 9) Place glass down on glazing blocks and press up against closed cell foam tape.
- 10) Run a heel bead around the perimeter to the glass.
- 11) Using the alignment marks, position the removable stops against the glass.
Lightly grind the end of each stop for additional clearance.
- 12) Install and tighten the #6 x 1-1/4" oval head TEK screws in the removable stops. Be careful not to over tighten.
- 13) Using the Dow Corning 995 or GE SGG 4000 apply a cap bead over the closed cell foam tape.

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Hinges

- 1) Any Steel Door Institute (SDI) Member hinge spacing.
- 2) Minimum hinge size is 4-1/2" x 4-1/2" Std. Wt. unless otherwise noted.
- 3) Approved continuous hinges and pivots are allowed.
- 4) Install butt hinges, continuous hinges, and pivots in accordance with manufacturers instructions.

Locks

- 1) Any SDI Member lock locations.
- 2) Install latching hardware in accordance with manufacturers installation instructions

Glazing and Louvers

- 1) Curries Type 8 Vision Light Kit may be installed in panels.
- 2) Markar WLV60 Louver may be installed in panels.
- 3) Surround Channel for louver is 20 gauge (0.032" min)

Thresholds and Weather-strip

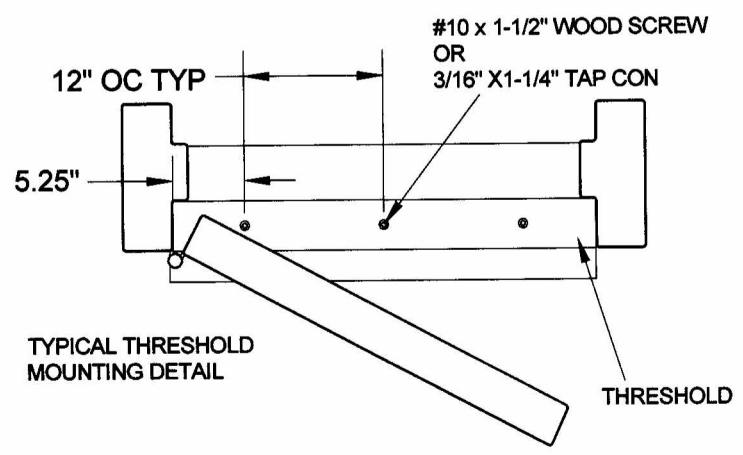
1.) Thresholds

- McKinney Products Part Nos. MCK177, MCK181, MCK2005
- National Guard Part Nos. 803, 804, 896, 8315
- Pemko Part Nos. 177, 181, 2005

2.) Weather-Strips

- McKinney Products Part Nos. MCKS88, MCK303 (Use MCK303 with continuous hinges)
- National Guard Part Nos. 160, 5050 (Use 160 with continuous hinges)
- Pemko Part Nos. S88, 303 (Use 303 with continuous hinges)

Threshold Installation



NOTE: 1/8" CLEARANCE BETWEEN THE BOTTOM OF THE DOOR AND THE THRESHOLD IS TYPICAL

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Test Protocols Used

- 1) ANSI A250.13 Testing and Rating of Severe Windstorm Resistant Components for Swinging Door Assemblies
- 2) ASTM E330 Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference
- 3) ASTM E1886 Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Storm Shutters Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials
- 4) ASTM E1996 Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors and Impact Protective Systems Impacted by Windborne Debris in Hurricanes
- 5) TAS 201-94, Impact Test Procedures
- 6) TAS 202-94, Criteria for Testing Impact and Non-Impact Resistant Building Envelope Components Using Uniform Static Air Pressure.
TAS 203-94, Criteria For Testing Products Subject to Cyclic Wind Pressure Loading