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GENERAL

- a) Only listed doors may be used in a fire rated opening.
- b) Every labeled swinging fire door must have a self latching device.
- c) Approved hardware and components are listed in the Underwriters Laboratories "Fire Resistive Directory Vol. 3" or ITS/Warnock Hersey "Directory of Listed Products".
- d) Armour plating available, 48" x 48" max. size. Thickness of the plate may be no greater than the door face gauge. Armor plating must be applied at approved location.
- e) Labeled doors may be stainless steel.
- f) Viewers must be listed. Consult manufacturers listing for limitations.
- g) The rating for the door is the rating of the lowest rated component.
- h) Embossed panel doors have the same fire rating as 707 doors.

ASTRAGALS

- a) Astragals are required on all 180 minute pairs of doors, including double egress, except pairs of doors with rim or mortise exit devices that latch into a hardware or hollow metal mullion (Underwriters Laboratories and ITS/Warnock Hersey view the doors in this exception as two single doors. Check with the Authority Having Jurisdiction (AHJ) prior to using the exception to ensure acceptance).
- b) Astragals used for fire protection must be a steel overlapping type. Weatherstrip astragals rated for 180 minutes do not satisfy the astragal requirement for fire doors.
- c) Astragals are required on pairs of positive pressure rated 727 doors at all hourly ratings.
- d) Astragals are not required on double egress doors or doors swinging in the same direction rated for 90 minutes or less.
- e) When astragals are used on pairs of doors equipped with fire exit hardware a coordinator must be used to insure proper closing sequence. An astragal may be used on pairs of doors equipped with a mortise panic device on the active leaf and a vertical rod on the inactive leaf. An astragal may not be used on pairs of doors equipped with vertical rod devices on both leaves (except double egress) since the astragal could inhibit or prevent the opening of one of the leaves. Because 180 minute rated pairs of doors with this hardware require an astragal, vertical rod exit devices may not be used on both leaves of 180 minute rated pairs of doors swinging in the same direction.
- f) Astragals shall be attached (either screwed or welded) to project approximately 3/4 inch from the edge of the door (re: NFPA80).

CLEARANCES

- a) The maximum clearance between the door and frame and between meeting edges of doors swinging in pairs is 1/8 inch (re: NFPA80). Refer to CURRIES Tech Data sections for design clearances on CURRIES doors.
- b) The maximum clearances under fire doors are listed in the table below: — (re: NFPA80)

Clearance Between	Swinging Doors With Builders Hardware		Swinging Doors With Fire Door Hardware	
	in.	mm	in.	mm
Bottom of door and raised noncombustible sills	3/8	9.5	3/8	9.5
Floor where no sill exists	3/4	19.1	3/4	19.1
Rigid floor tile	5/8	15.9		
Floor coverings	1/2	12.7	1/2	12.7

NOTE: Doors with vertical rod devices may have bottom latches that may not engage the strike if maximum allowed clearances are used.

LABEL DOORS AND FRAMES

April 1, 2002

ASSA ABLOY, the global leader
in door opening solutions**CLOSING DEVICES**

- a) A closing device shall be installed on every fire door.
- b) Closer reinforcements are furnished as standard on CURRIES fire rated doors.
- c) If the closer is installed with sex bolts, the closer reinforcement may be omitted on fire rated doors.
- d) Spring hinges may be used instead of a closer and a closer reinforcing. At least two spring hinges are required per door leaf.
- e) The closer may be omitted on the inactive leaf of pairs of doors to mechanical equipment rooms (re: NFPA80).
- f) Overhead stops may be used if they do not inhibit the door from closing and latching.
- g) If an astragal or projecting latch bolt prevents the inactive door from closing and latching before the active door, a coordinating device shall be used. A coordinating device is not required where each door leaf of a pair of doors closes and latches independently of each other.
- h) Door holder/release devices are permitted when acceptable to the Authority Having Jurisdiction. These are fail-safe devices, controlled by a detection device to release the door in the event of fire (re: NFPA80).

DUTCH DOORS

- a) The upper and lower leaf may latch into the frame or the upper leaf may latch in lower leaf which latches into the frame.
- b) The top leaf must be equipped with a closing device and a horizontal astragal that brings the bottom leaf closed or the horizontal astragal may be omitted and the bottom leaf provided with a closing device.
- c) Positive pressure rated dutch doors must have a horizontal astragal attached to the bottom of the top leaf for all hourly ratings.

EXIT DEVICES

- a) CURRIES labeled fire exit doors may be prepared for any listed fire exit hardware device.
- b) The door size must not exceed the maximum door size listed for the individual hardware manufacturers devices.
- c) Doors that are reinforced for fire exit hardware must bear a label which states "Fire Door to be equipped with Fire Exit Hardware."
- d) Fire Exit Hardware may be applied to doors that are not reinforced for such hardware by using sex bolts or through bolts. These doors may not bear the label "Fire Door to be Equipped with Fire Exit Hardware."
- e) Doors equipped with Fire Exit Hardware may not be provided with a louver.
- f) Vertical rod exit devices may not be used on a single door (this does not include less bottom rod devices that have a mortise lock.)

GASKETING/EDGE SEALS

- a) Only listed gasketing material may be used, consult the U.L. Fire Resistive Directory Vol. 3 or ITS/WHI Directory of Listed Products.
- b) Smoke and draft control assemblies must employ gaskets listed for smoke and draft control.
- c) CURRIES fire rated doors do not require the use of edge seal systems (intumescents).

GLASS/GLAZING

- a) See glazing capability charts for type, size, and rating of glass.

HINGES

- a) Doors up to 60 inches in height require two leaf type hinge. An additional hinge must be used for each additional 30 inches of height or fraction thereof (NFPA80).
- b) CURRIES fire doors over 96 inches in height may be prepared for standard weight hinges.
- c) Listed continuous hinges, pivots, or electric hinges may be used with CURRIES fire rated doors.

LABELS

- a) Fire labels on CURRIES doors are metal. Metal labels may be attached with drive screws or steel pop rivets.
- b) Labels may be applied only at authorized locations.
- c) A field inspection is required for a label to be applied at a jobsite.

LOCKS

- a) The door size used must not exceed the maximum door size listed for the individual hardware manufacturers devices.
- b) Refer to the hardware manufacturer's listing to determine capability to supply single point locks for doors over 8 feet in height.
- c) Latch Throw Requirements
 - 607 & 707 Single: 1/2 inch minimum latch throw
 - 607 & 707 Pairs: 5/8 inch minimum latch throw on pairs to 8 feet in height.
 - 707 Pairs: 3/4 inch minimum latch throw on pairs to 10 feet in height.
 - 727 Single: 1/2 inch minimum latch throw
 - 727 Pairs: 5/8 inch minimum latch throw
 - 747 & 847 Single: 1/2 inch minimum latch throw
 - 747 & 847 pairs: 5/8 inch minimum latch throw

747 doors may also be prepared for two and three point latching devices.

- d) Dead bolts may not be used on doors which are in a means of egress. Locks with dead bolts that are interconnected with latch bolts and retract simultaneously when the latch bolt is retracted may be used on fire doors within a means of egress.
- e) Dead bolts may be used in addition to an active latch bolt on doors that are not in a means of egress, or as otherwise permitted by the Authority Having Jurisdiction.

LOUVERS

- a) Any listed automatic fusible link louver may be used in CURRIES labeled doors.
- b) Glass lights are not permitted in doors equipped with louvers.
- c) Fire Exit Hardware is not allowed on doors equipped with louvers.
- d) Maximum rating for louvers is 90 minutes.
- e) Maximum listed louver size is 24 x 24 inches.
- f) Louvers may not be installed in the upper half of a fire door.
- g) Louvers may not be installed in 20 minute doors.

PAIRS OF DOORS

- a) The inactive leaf of pairs of doors may be provided with self-latching top and bottom bolts or automatic flush bolts or labeled two point latches. Manual bolts either mortise or surface may be used on doors to rooms not normally occupied by humans.
- b) Double egress doors are intended to be provided with vertical rod exit devices (concealed or surface mounted).
- c) Open back strikes may be used on pairs of 707 or 747 doors to a maximum of 8'0" high, maximum height for 607 doors is 7'0" high.
- d) Two doors in the same frame separated by a hollow metal mullion are treated as two single doors.

PROTECTION PLATES/PLANT ONS

- a) Protection plates or kick plates may be a maximum of 48 x 48 inches and may be attached to both faces of a door; protection plates may not be thicker than the door face skin gauge. NFPA 80 states that labeling is not required on protection plates less than 16". Field installed plates must be labeled and installed in accordance with the protection plate manufacturer's listing. The protection plate manufacturer should advise size and installation limitations. Protection plates are listed under UL Category code GVUX.
- b) Plant-ons, decorative moldings, or cladding may not be used on CURRIES fire doors.

SMOKE AND DRAFT CONTROL

- a) All components used in a Smoke and Draft Control assembly must pass a 20 minute without hose stream fire test.
- b) Only gaskets listed for smoke and draft control may be used for smoke and draft control assemblies.
- c) The gaskets used for a smoke and draft control assembly must be listed for the type of door installed in the frame, i.e. hollow metal or wood.
- d) Wood doors used in a smoke and draft assembly that do not have intumescent imbedded in the door edge may require an edge seal (intumescent) and a smoke and draft control qualified gasket to be installed in the door frame.

TEMPERATURE RISE DOORS

- a) The L727 series door may be used in 250° and 450° temperature rise applications.
- b) A steel overlapping astragal is required on all positive pressure rated pairs of 727 doors.

VISION LIGHT REQUIREMENTS

- a) No glass should be used in exterior doors subject to a severe fire exposure.
- b) Any listed fire door vision light kit may be used in CURRIES labeled doors. Vision kits should be listed for use in the type of door construction they are installed in.
- c) CURRIES vision light kits may be used in CURRIES doors only.
- d) Minimum stile between visible glass and the edge of door is 6 inches, the minimum distance between two vision light kits is 6" from visible glass to visible glass.
- e) NFPA 80 allows vision lite kits up to 100 sq. inches in 250° and 450° temp. rise applications. Authority Having Jurisdiction may allow use of specialty glazing (see glazing chart for approved glazing) over 100 sq. inches.

RECOMMENDATIONS FOR THE SELECTION OF SWINGING FIRE DOORS AND FRAMES

1. Determine the appropriate building code, and resulting fire door requirements.
2. Check and fulfill the fire insurance company's requirements for the specific building.
3. Basic Fire Door assembly - Use this check list.
 - a) A fire door must have an attached label
 - b) A fire door frame must have either an attached label or an embossment in the metal of the frame.
 - c) A fire door must be self-latching.
 - d) A fire door must be self-closing.
 - e) If a fire door is held open, it must be equipped with a listed heat responsive device, fusible link or a smoke detection device.
 - f) A fire door must be free of any obstructions which could prevent the door from operating properly, i.e., wedge door stops, chains; etc.
 - g) Only listed fire door hardware shall be used.
 - h) A fire door must have steel bearing type hinges, a listed continuous hinge, or a listed specialty hinge. (Exception: Non-bearing plain steel hinges may be used if part of a listed assembly.)
 - i) Doors swinging in pairs that require astragals shall have at least one overlapping astragal. Pairs of doors within a means of egress shall not be equipped with an astragal that inhibits the free use of either leaf. A coordinator, or open back strike should be used to ensure proper closing.
 - j) Fire doors with glass lights:
 - 1) The glass frame and glazing bead must be listed.
 - 2) The glass must be listed glass as permitted by the listing agency and/or the Authority Having Jurisdiction.
 - k) Fire doors with fusible link louvers:
 - 1) Only listed louvers can be used.
 - 2) Louvers can be furnished in 1-3/4" thick doors with a 90 minute or a 45 minute label.
 - 3) Maximum louver size is 24" x 24".
 - 4) Louvers are not permitted to be installed in doors with Fire Exit Hardware, doors with vision lights, or doors installed in stairwells.
 - 5) Louvers may not be installed in doors requiring smoke & draft control.
 - l) For maximum fire protection - Standard Number 80 of the National Fire Protection Association should be used for an installation guide.
 - m) Purchase doors from a recognized responsible manufacturer whose fire doors and frames are produced to conform to Fire Door Procedures and are subject to periodic inspections. Fire doors and frames should be listed by an agency acceptable to the Authority Having Jurisdiction.

LABEL DOORS AND FRAMES

April 1, 2002

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










		Series Skin Gauges Door Thickness Inches (mm)	L607 20 or 18 1 – 3/4 (44)	L707 20 or 18 1 – 3/8 (35)	L707 20, 18, 16 1 – 3/4 (44)	L707 14 1 – 3/4 (44)	L727 ⁽²⁾ 18 or 16 1 – 3/4 (44)	L747 18 or 16 1 – 3/4 (44)	L747 14 1 – 3/4 (44)	L757 16 or 14 1 – 3/4 (44)	L847 14 1 – 3/4 (44)	L857 14 2 (51)
TYPE		RATING	MAXIMUM OPENING SIZE									
	SINGLE FLUSH	180 min. 90 min. 60 min. 45 min. 20 min.	4070 (1219x2134)	3672 (1067x2184)	4080 (1219x2438)	4080 (1219x2438)	4080 (1219x2438)	40100 (1219x3048)	4080 (1219x2438)		4080 (1219x2438)	4080 (1219x2438)
	SINGLE FLUSH	90 min. 60 min. 45 min. 20 min.	8070 (2438x2134)	3672 (1067x2184)	40100 (1219x3048)	4080 (1219x2438)	4080 (1219x2438)	40100 (1219x3048)	4080 (1219x2438)		4080 (1219x2438)	4080 (1219x2438)
	PAIR FLUSH	180 min. 90 min. 60 min. 45 min. 20 min.	8070 (2438x2134)	6070 (1829x2134)	8080 (2438x2438)	8080 (2438x2438)	8080 (2438x2438)	80100 (2438x3048)	8080 (2438x2438)		8080 (2438x2438)	
	PAIR FLUSH	90 min. 60 min. 45 min. 20 min.	8070 (2438x2134)	6070 (1829x2134)	80100 (2438x3048)	8080 (2438x2438)	8080 (2438x2438)	80100 (2438x3048)	8080 (2438x2438)		8080 (2438x2438)	
	OPEN BACK STRIKE FLUSH	90 min. 60 min. 45 min. 20 min.	8070 (2438x2134)		8080 (2438x2438)	8080 (2438x2438)		8080 (2438x2438)	8080 (2438x2438)			
	DBL EGRESS FLUSH	180 min. 90 min. 60 min. 45 min. 20 min.	8070 (2438x2134)		80100 (2438x3048)	8080 (2438x2438)	8080 (2438x2438)	80100 (2438x3048)	8080 (2438x2438)		8080 (2438x2438)	
	DBL EGRESS FLUSH	90 min. 60 min. 45 min. 20 min.	8070 (2438x2134)		80100 (2438x3048)	8080 (2438x2438)	8080 (2438x2438)	80100 (2438x3048)	8080 (2438x2438)		8080 (2438x2438)	
	SINGLE LOUVER	90 min. 45 min.	4070 (1219x2134)		40100 (1219x3048)	4080 (1219x2438)		40100 (1219x3048)	4080 (1219x2438)		4080 (1219x2438)	4080 (1219x2438)
	PAIR LOUVER	90 min. 45 min.	8070 (2438x2134)	6070 (1829x2134)	80100 (2438x3048)	8080 (2438x2438)		80100 (2438x3048)	8080 (2438x2438)		8080 (2438x2438)	
	DUTCH DOOR FLUSH	180 min. 90 min. 45 min. 20 min.			3872 (1118x2184)			3672 (1067x2184)				
	SINGLE EMBOSSED PANEL	180 min. 90 min. 45 min. 20 min.			3470 (1016x2134) (18 GA. only)							
	PAIR EMBOSSED PANEL	180 min. 90 min. 45 min. 20 min.			6870 (2032x2134) (18 GA. only)							
	SINGLE FULL GLASS	20 min. without hose stream			4080 (1219x2438)	4080 (1219x2438)		4080 (1219x2438)	4080 (1219x2438)			
	PAIR FULL GLASS	20 min. without hose stream			8080 (2438x2438)	8080 (2438x2438)		8080 (2438x2438)	8080 (2438x2438)			
	SOUND RATED FIRE DOOR FLUSH	90 min. 60 min. 45 min. 20 min.								4080 (1219x2438)		

NOTES: 1) SEE DOOR GLAZING SPECIFICATIONS FOR GLAZING REQUIREMENTS.
2) 180, 90, 45 MIN. LABELS ONLY.



LABEL DOORS AND FRAMES

November, 2007

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		Series Skin Gauges Door Thickness Inches (mm)	L607 20 or 18 1 – 3/4 (44)	L707 20 or 18 1 – 3/8 (35)	L707 20, 18, 16 1 – 3/4 (44)	L707 14 1 – 3/4 (44)	L727 ⁽³⁾ 18 or 16 1 – 3/4 (44)	L747 18 or 16 1 – 3/4 (44)	L747 14 1 – 3/4 (44)	L757 16 or 14 1 – 3/4 (44)	L847 14 1 – 3/4 (44)	L857 14 2 (51)
TYPE		RATING	MAXIMUM OPENING SIZE ²									
	SINGLE FLUSH	180 min. 90 min. 60 min. 45 min. 20 min.	4070 (1219x2134)	3676 (1067x2286)	4080 (1219x2438)	4080 (1219x2438)	4080 (1219x2438)	40100 (1219x3048)	4080 (1219x2438)		4080 (1219x2438)	4080 (1219x2438)
	PAIR FLUSH	180 min. 90 min. 60 min. 45 min. 20 min.	8070 (2438x2134)	6070 (1829x2134)	8080 (2438x2438)	8080 (2438x2438)	8080 (2438x2438)	80100 (2438x3048)	8080 (2438x2438)		8080 (2438x2438)	
	OPEN BACK STRIKE FLUSH	90 min. 60 min. 45 min. 20 min.	8070 (2438x2134)		8080 (2438x2438)	8080 (2438x2438)		8080 (2438x2438)	8080 (2438x2438)			
	DBL EGRESS FLUSH	180 min. 90 min. 60 min. 45 min. 20 min.	6070 (1829x2134)		6080 (1829x2438)	6080 (1829x2438)	8080 (2438x2438)	80100 (2438x3048)	8080 (2438x2438)		8080 (2438x2438)	
	SINGLE LOUVER	90 min. 45 min.	4070 (1219x2134)		4080 (1219x2438)	4080 (1219x2438)		40100 (1219x3048)	4080 (1219x2438)		4080 (1219x2438)	4080 (1219x2438)
	PAIR LOUVER	90 min. 45 min.	8070 (2438x2134)	6070 (1829x2134)	8080 (2438x2438)	8080 (2438x2438)		80100 (2438x3048)	8080 (2438x2438)		8080 (2438x2438)	
	DUTCH DOOR FLUSH	180 min. 90 min. 45 min. 20 min.						3672 (1067x2184)				
	SINGLE EMBOSSSED PANEL	180 min. 90 min. 45 min. 20 min.			3470 (1016x2134) 3670 ⁵ (1067x2134)							
	PAIR EMBOSSSED PANEL	180 min. 90 min. 45 min. 20 min.			6870 (2032x2134) 7070 ⁵ (2134x2134)							
	SINGLE FULL GLASS	20 min. without hose stream			4080 (1219x2438)	4080 (1219x2438)		4080 (1219x2438)	4080 (1219x2438)			
	PAIR FULL GLASS	20 min. without hose stream			8080 (2438x2438)	8080 (2438x2438)		8080 (2438x2438)	8080 (2438x2438)			
	SOUND RATED FIRE DOOR FLUSH	90 min. 60 min. 45 min. 20 min.								4080 (1219x2438)		

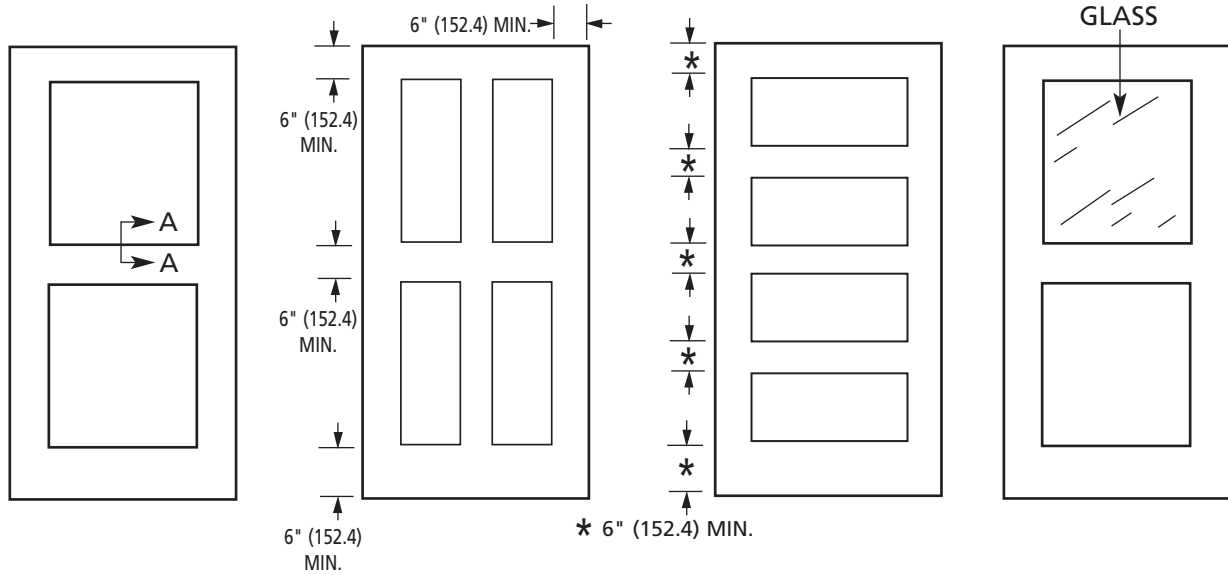
- NOTES: 1) SEE DOOR GLAZING SPECIFICATIONS FOR GLAZING REQUIREMENTS.
2) CERTIFIED TO UL 10C, UBC 7-2-1997, NFPA 252, UL 10B
3) 180, 90, 45 MIN. LABELS ONLY.
4) MINERAL CORE PANEL
5) 18 GAUGE

	SINGLE ⁴ PANEL DOOR	90 min. 45 min. 20 min.			4080 (1219x2438)	4080 (1219x2438)		4080 (1219x2438)	4080 (1219x2438)			
	PAIR ⁴ PANEL DOOR	90 min. 45 min. 20 min.			8080 (2438x2438)	8080 (2438x2438)		8080 (2438x2438)	8080 (2438x2438)			

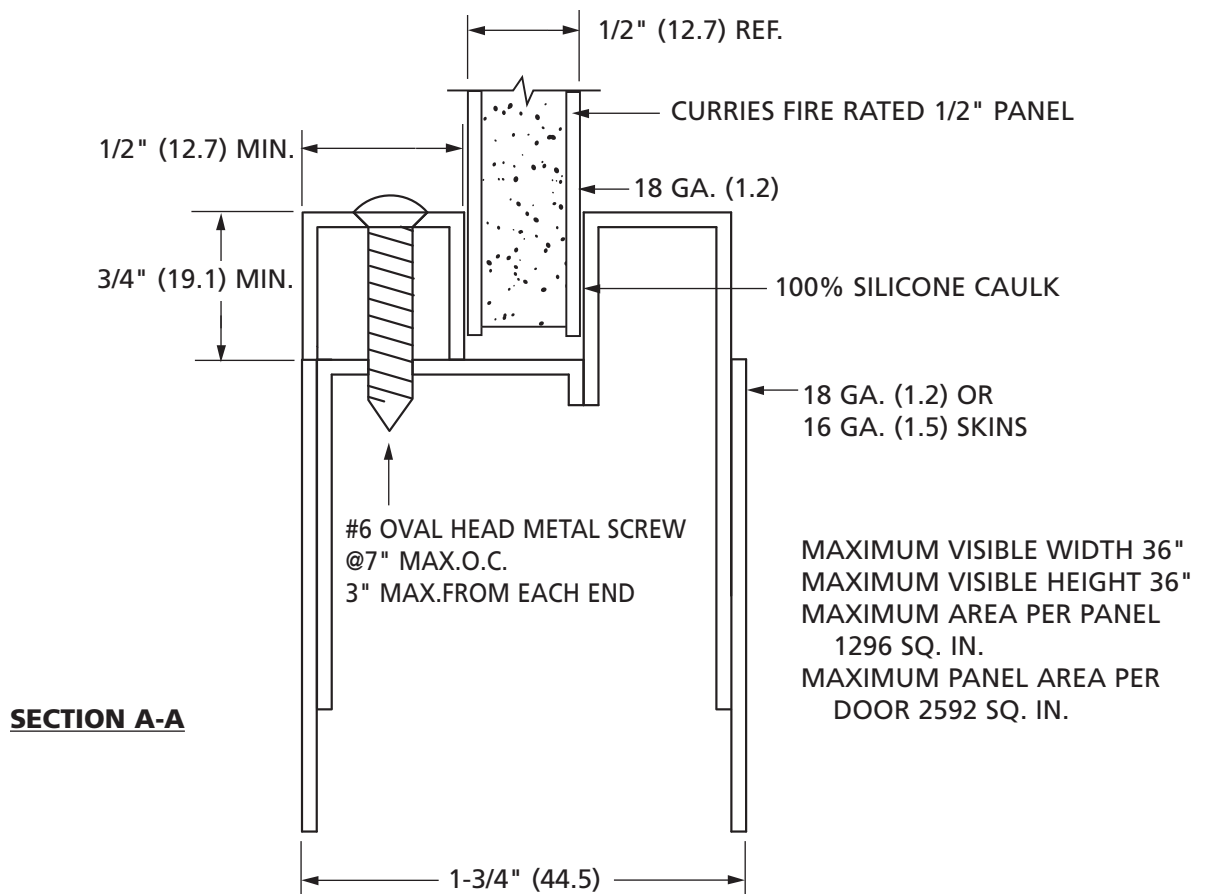
NOTES: SEE PAGE 9 FOR MORE INFORMATION ON PANEL DOORS

90 MINUTE MAXIMUM RATING.

TYPICAL FACE TYPES



6" MINIMUM STILE AND RAIL



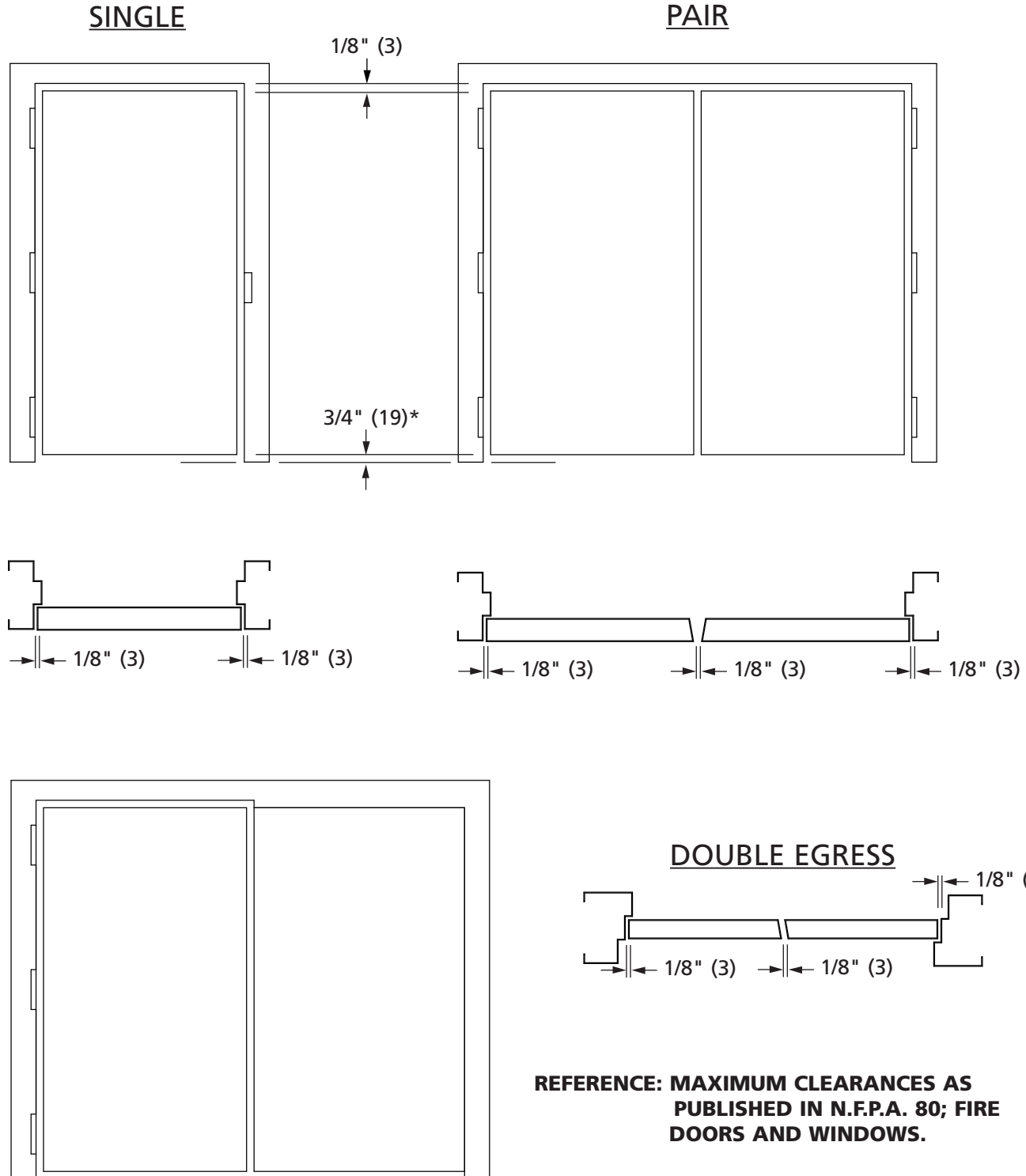
10 Maximum Label Door Clearances LABEL DOORS AND FRAMES

April 1, 2002

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*CURRIES STANDARD UNDERCUT IS 5/8" (16)

12 KD Fire Door Frame Capabilities Chart

LABEL DOORS AND FRAMES



July 15, 2003

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NEUTRAL AND POSITIVE PRESSURE

HOUR RATING		180 (3 HOUR) MASONRY WALLS ONLY	90 (1-1/2 HOUR)	45 (3/4 HOUR)	20 (20 MINUTE)
PROFILE TYPE	MAT'L GAUGE	JAMB DEPTH SIZES			
1" FACE FRAME (M)	16	4" MIN. - 14-1/2" MAX. (102) - (368)	4" MIN. - 14-1/2" MAX. (102) - (368)	4" MIN. - 14-1/2" MAX. (102) - (368)	4" MIN. - 14-1/2" MAX. (102) - (368)
	14				
	12				
1-1/4" - 4" FACE FRAME (M)	16	3-1/4" ⁽³⁾ MIN. - 14" MAX. (83) - (356)	3-1/4" ⁽³⁾ MIN. - 14" MAX. (83) - (356)	3-1/4" ⁽³⁾ MIN. - 14" MAX. (83) - (356)	3-1/4" ⁽³⁾ MIN. - 14" MAX. (83) - (356)
	14				
	12				
(CM)	16	3-1/4" ⁽⁴⁾ MIN. - 14" MAX. (83) - (356) ⁽²⁾	3-1/4" ⁽³⁾ MIN. - 14" MAX. (83) - (356)	3-1/4" ⁽³⁾ MIN. - 14" MAX. (83) - (356)	3-1/4" ⁽³⁾ MIN. - 14" MAX. (83) - (356)
	14				
(C) ^(1, 6)	16	NOT AVAILABLE	3-1/4" ⁽³⁾ MIN. - 14" MAX. (83) - (356)	3-1/4" ⁽³⁾ MIN. - 14" MAX. (83) - (356)	3-1/4" ⁽³⁾ MIN. - 14" MAX. (83) - (356)
	14				
(C) ^(1, 6)	16	NOT AVAILABLE	4-5/8" MIN. - 14" MAX. (117) - (356)	4-5/8" MIN. - 14" MAX. (117) - (356)	4-5/8" MIN. - 14" MAX. (117) - (356)
	14				
(G) ⁽¹⁾	16	NOT AVAILABLE	3-1/4" ⁽²⁾ MIN. - 14" MAX. (83) - (356)	3-1/4" ⁽³⁾ MIN. - 14" MAX. (83) - (356)	3-1/4" ⁽³⁾ MIN. - 14" MAX. (83) - (356)
	14				
	12				
(CMG)	16	3-1/4" ⁽³⁾ MIN. - 14" MAX. (83) - (356) ⁽²⁾	3-1/4" ⁽³⁾ MIN. - 14" MAX. (83) - (356)	3-1/4" ⁽³⁾ MIN. - 14" MAX. (83) - (356)	3-1/4" MIN. - 14" MAX. (83) - (356)
	14				
(DEM)	16	4-3/4" MIN. - 14" MAX. (121) - (356)	4-3/4" MIN. - 14" MAX. (121) - (356)	4-3/4" MIN. - 14" MAX. (121) - (356)	4-3/4" MIN. - 14" MAX. (121) - (356)
	14				
	12				
(DEC)	16	4-3/4" MIN. - 14" MAX. (121) - (356)	4-3/4" MIN. - 14" MAX. (121) - (356)	4-3/4" MIN. - 14" MAX. (121) - (356)	4-3/4" MIN. - 14" MAX. (121) - (356)
	14				
(WM)	16	5-1/4" MIN. - 14" MAX. (133) - (356)	5-1/4" MIN. - 14" MAX. (133) - (356)	5-1/4" MIN. - 14" MAX. (133) - (356)	5-1/4" MIN. - 14" MAX. (133) - (356)
	14				
(WCM)	16	5-1/4" MIN. - 14" MAX. (133) - (356)	5-1/4" MIN. - 14" MAX. (133) - (356)	5-1/4" MIN. - 14" MAX. (133) - (356)	5-1/4" MIN. - 14" MAX. (133) - (356)
	14				
(WG)	16	4-1/8" MIN. - 14-1/2" MAX. (105) - (368)	4-1/8" MIN. - 14-1/2" MAX. (105) - (368)	4-1/8" MIN. - 14-1/2" MAX. (105) - (368)	4-1/8" MIN. - 14-1/2" MAX. (105) - (368)
	14				
(WCG)	16	4-1/8" MIN. - 14-1/2" MAX. (105) - (368)	4-1/8" MIN. - 14-1/2" MAX. (105) - (368)	4-1/8" MIN. - 14-1/2" MAX. (105) - (368)	4-1/8" MIN. - 14-1/2" MAX. (105) - (368)
	14				
(WC) ⁽¹⁾	16	NOT AVAILABLE	4-5/8" MIN. - 14" MAX. (118) - (356)	4-5/8" MIN. - 14" MAX. (118) - (356)	4-5/8" MIN. - 14" MAX. (118) - (356)
	14				

(1) COMPRESSION ANCHOR
(4) MASONRY WALLS ONLY

(2) ONLY MASONRY WALLS WITH APPROVED CORNER CLIP
(5) 18 GAUGE AVAILABLE - SEE FOLLOWING PAGES

(3) 3-1/4"-4" JAMB DEPTH FOR 1-3/8" DOORS ONLY
(6) 14 GA. AVAILABLE IN 2" FACE ONLY

KD Fire Door Frame Capabilities Chart

LABEL DOORS AND FRAMES

July 15, 2003

NEUTRAL AND POSITIVE PRESSURE

HOUR RATING		180 (3 HOUR) MASONRY WALLS ONLY	90 (1-1/2 HOUR)	45 (3/4 HOUR)	20 (20 MINUTE)
PROFILE TYPE	MAT'L GAUGE	OPENING SIZES			
1" FACE FRAME (M)	16 14 12	SINGLE: 4'0" X 8'0" PAIRS: 8'0" X 10'0"	SINGLE: 4'0" X 8'0" PAIRS: 8'0" X 10'0"	SINGLE: 4'0" X 8'0" PAIRS: 8'0" X 10'0"	SINGLE: 4'0" X 8'0" PAIRS: 8'0" X 10'0"
1-1/4" FACE FRAME (M)	16 14 12	SINGLE: 4'0" X 10'0" PAIRS: 8'0" X 10'0"	SINGLE: 4'0" X 10'0" PAIRS: 8'0" X 10'0"	SINGLE: 4'0" X 10'0" PAIRS: 8'0" X 10'0"	SINGLE: 4'0" X 10'0" PAIRS: 8'0" X 10'0"
(CM)	16 14	SINGLE: 4'0" X 10'0" ⁽¹⁾ PAIRS: 8'0" X 10'0"	SINGLE: 4'0" X 10'0" PAIRS: 8'0" X 10'0"	SINGLE: 4'0" X 10'0" PAIRS: 8'0" X 10'0"	SINGLE: 4'0" X 10'0" PAIRS: 8'0" X 10'0"
(C) ⁽¹⁾ (4)	16	NOT AVAILABLE	SINGLE: 3'6" X 7'0"	SINGLE: 3'6" X 7'0"	SINGLE: 3'6" X 7'0"
(C) ⁽¹⁾	16	NOT AVAILABLE	SINGLE: 4'0" X 9'0" PAIRS: 8'0" X 7'2" - OR - 7'0" X 9'0"	SINGLE: 4'0" X 9'0" PAIRS: 8'0" X 7'2" - OR - 7'0" X 9'0"	SINGLE: 4'0" X 9'0" PAIRS: 8'0" X 7'2" - OR - 7'0" X 9'0"
(G)	16 14 12	SINGLE: 4'0" X 10'0" PAIRS: 8'0" X 10'0"	SINGLE: 4'0" X 10'0" PAIRS: 8'0" X 10'0"	SINGLE: 4'0" X 10'0" PAIRS: 8'0" X 10'0"	SINGLE: 4'0" X 10'0" PAIRS: 8'0" X 10'0"
(CMG)	16 14	SINGLE: 4'0" X 10'0" PAIRS: 8'0" X 10'0" ⁽²⁾	SINGLE: 4'0" X 10'0" PAIRS: 8'0" X 10'0"	SINGLE: 4'0" X 10'0" PAIRS: 8'0" X 10'0"	SINGLE: 4'0" X 10'0" PAIRS: 8'0" X 10'0"
(DEM)	16 14 12	PAIRS: 8'0" X 10'0" ⁽²⁾	PAIRS: 8'0" X 10'0"	PAIRS: 8'0" X 10'0"	PAIRS: 8'0" X 10'0"
(DEC)	16 14	PAIRS: 8'0" X 10'0" ⁽²⁾	PAIRS: 8'0" X 10'0"	PAIRS: 8'0" X 10'0"	PAIRS: 8'0" X 10'0"
(WM)	16 14	SINGLE: 4'0" X 10'0" PAIRS: 8'0" X 10'0"	SINGLE: 4'0" X 10'0" PAIRS: 8'0" X 10'0"	SINGLE: 4'0" X 10'0" PAIRS: 8'0" X 10'0"	SINGLE: 4'0" X 10'0" PAIRS: 8'0" X 10'0"
(WCM)	16 14	SINGLE: 4'0" X 10'0" PAIRS: 8'0" X 10'0" ⁽²⁾	SINGLE: 4'0" X 10'0" PAIRS: 8'0" X 10'0"	SINGLE: 4'0" X 10'0" PAIRS: 8'0" X 10'0"	SINGLE: 4'0" X 10'0" PAIRS: 8'0" X 10'0"
(WG)	16 14	SINGLE: 4'0" X 10'0" PAIRS: 8'0" X 10'0"	SINGLE: 4'0" X 10'0" PAIRS: 8'0" X 10'0"	SINGLE: 4'0" X 10'0" PAIRS: 8'0" X 10'0"	SINGLE: 4'0" X 10'0" PAIRS: 8'0" X 10'0"
(WCG)	16 14	SINGLE: 4'0" X 10'0" PAIRS: 8'0" X 10'0" ⁽²⁾	SINGLE: 4'0" X 10'0" PAIRS: 8'0" X 10'0"	SINGLE: 4'0" X 10'0" PAIRS: 8'0" X 10'0"	SINGLE: 4'0" X 10'0" PAIRS: 8'0" X 10'0"
(WC) ⁽¹⁾	16	NOT AVAILABLE	SINGLE: 4'0" X 9'0" PAIRS: 8'0" X 7'2" - OR - 7'0" X 9'0"	SINGLE: 4'0" X 9'0" PAIRS: 8'0" X 7'2" - OR - 7'0" X 9'0"	SINGLE: 4'0" X 9'0" PAIRS: 8'0" X 7'2" - OR - 7'0" X 9'0"

(1) COMPRESSION ANCHOR (2) ONLY MASONRY WALLS WITH APPROVED CORNER CLIP (3) 18 GAUGE AVAILABLE - SEE FOLLOWING PAGES
(4) 1-3/8" DOORS ONLY

14 18 Gauge Three Sided Fire Door Frame LABEL DOORS AND FRAMES

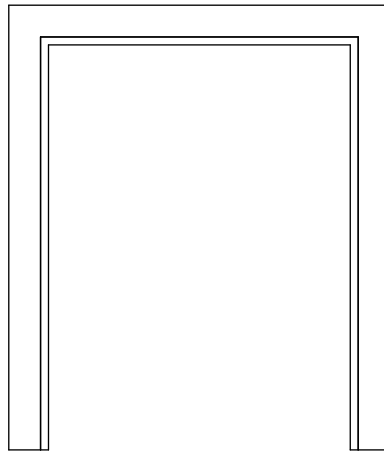
April 1, 2002



ASSA ABLOY

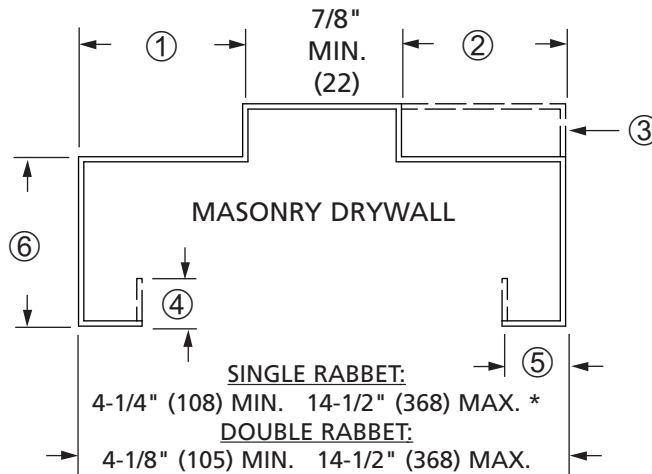
ASSA ABLOY, the global leader
in door opening solutions

90 MINUTE MAXIMUM RATING NEUTRAL AND POSITIVE PRESSURE



GENERAL NOTES:

- ① TO SUIT DOOR THICKNESS
- ② VARIES
- ③ PROFILE VARIABLE
- ④ 3/8" (10) MIN.
3/4" (19) MAX.
- ⑤ 3/8" (10) MIN.
1-3/8" (35)
- ⑥ 1-1/4" (32)*
4" (102) MAX. JAMB
6" (152) MAX. HEAD



18 Gauge Three Sided Fire Door Frame LABEL DOORS AND FRAMES

April 1, 2002

90 MINUTE MAXIMUM RATING - DRYWALL WALLS (WARNOCK HERSEY LISTING ONLY)

MAXIMUM FRAME SIZES:

MASONRY, DRYWALL: SINGLE — 4'0" (1219) W X 8'0" (2438) H
PAIRS — 8'0" (2438) W X 8'0" (2438) H

WALL CONSTRUCTION: DRYWALL OR MASONRY WALLS

FRAME CORNER CONSTRUCTION: KD, FACE WELD, OR CONTINUOUS WELD

ANCHORS: ANY LISTED WELD-IN OR SLIP-IN DRYWALL OR MASONRY TYPE.
ANCHOR MAY BE USED IN THIS FRAME. (COMPRESSION ANCHORS NOT ALLOWED)

MATERIAL: 18 GA. (1.2) MIN. COLD ROLLED OR GALVANIZED STEEL

HARDWARE RESTRICTIONS:

A) HINGES: STEEL (BALL BEARING - OIL LIGHT BUSHING) TYPE, POCKET PIVOT TYPE,
STANDARD PIVOT TYPE, ANCHOR TYPE, AND CONTINUOUS TYPE.

B) CLOSERS: CLOSERS ARE REQUIRED ON ALL FRAMES WHICH ARE TO BE FIRE LABELED,
REGARDLESS OF THE HOURLY RATING. IF A LABEL APPROVED
REINFORCEMENT IS NOT PROVIDED, THE CLOSER MUST BE THROUGH -BOLTED
TO THE FRAME. IN LIEU OF A CLOSER, SPRING HINGES MUST BE USED.

C) STRIKES: STANDARD STRIKES FOR VARIOUS TYPES OF LISTED HARDWARE MAY BE USED.

D) HARDWARE MULLION: IT IS PERMISSIBLE TO USE A LISTED HARDWARE MULLION IN A PAIR CONFIGURATION.

NOTE: ANY HARDWARE WHICH IS TO BE USED ON FIRE RATED DOORS AND FRAMES SHOULD BE CONFIRMED FOR LABEL APPROVAL USING THE LATEST EDITION OF THE U.L. FIRE RESTRICTIVE DIRECTORY VOL. 3, OR ITS/WHI DIRECTORY OF LISTED PRODUCTS.

FACE WELDING COMPLETELY ASSEMBLED AND INSTALLED KD FRAMES IN THE FIELD IS AN ACCEPTABLE PRACTICE, CONTACT FACTORY FOR DETAILS.

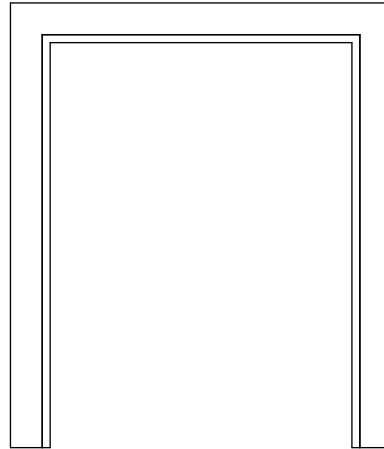
16 Three Sided Fire Door Frame LABEL DOORS AND FRAMES

February, 2007



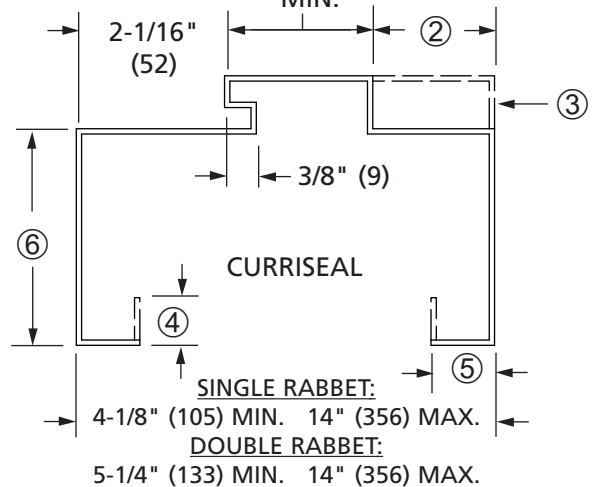
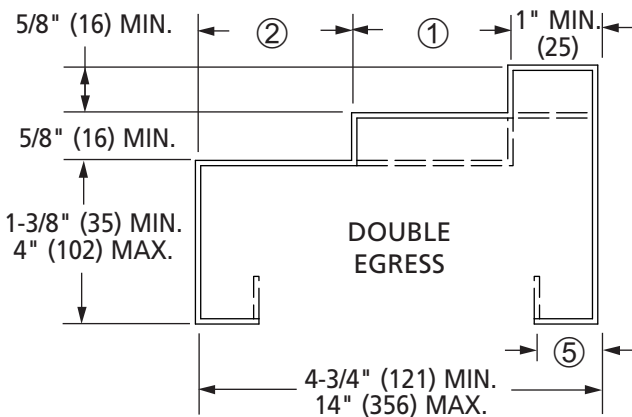
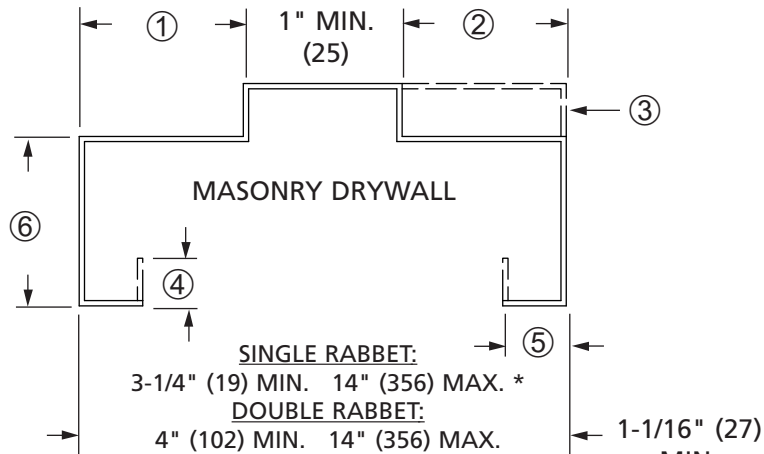
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180 MINUTE MAXIMUM RATING - MASONRY WALLS
90 MINUTE MAXIMUM RATING - DRYWALL WALLS
NEUTRAL AND POSITIVE PRESSURE



GENERAL NOTES:

- ① TO SUIT DOOR THICKNESS
- ② VARIES
- ③ PROFILE VARIABLE
- ④ 3/8" (10) MIN.
3/4" (19) MAX.
- ⑤ 3/8" (10) MIN.
1-3/8" (35)
- ⑥ 1-1/4" (32)*
4" (102) MAX. JAMB
8" (204)¹ MAX. HEAD



* 3-1/4" to 4" jamb depth for 1-3/8" door only.
1) Heads with greater than 4" face are UL label only.

Three Sided Fire Door Frame LABEL DOORS AND FRAMES

April 1, 2002

180 MINUTE MAXIMUM RATING - MASONRY WALLS 90 MINUTE MAXIMUM RATING - DRYWALL WALLS

MAXIMUM FRAME SIZES:

MASONRY DRYWALL:	SINGLE — 4'0" (1219) W X 10'0" (3048) H PAIRS — 8'0" (2438) W X 10'0" (3048) H
DOUBLE EGRESS:	PAIRS ONLY — 8'0" (2438) W X 10'0" (3048) H
CURRISEAL:	SINGLE — 4'0" (1219) W X 10'0" (3048) H PAIRS — 8'0" (2438) W X 10'0" (3048) H
WALL CONSTRUCTION:	DRYWALL OR MASONRY WALLS
FRAME CORNER CONSTRUCTION:	KD, FACE WELD, OR CONTINUOUS WELD
ANCHORS:	ANY LISTED WELD-IN OR SLIP-IN DRYWALL OR MASONRY TYPE ANCHOR MAY BE USED IN THIS FRAME.
MATERIAL:	16 GA. (1.5) MIN. 12 GA. (2.6) MAX. COLD ROLLED OR GALVANIZED STEEL
MULLIONS:	WELDED OR REMOVABLE HOLLOW METAL MULLIONS ARE PERMITTED.

HARDWARE RESTRICTIONS:

A) HINGES:	STEEL (BALL BEARING - OIL LIGHT BUSHING) TYPE, POCKET PIVOT TYPE, STANDARD PIVOT TYPE, ANCHOR TYPE, AND CONTINUOUS TYPE.
B) CLOSERS:	CLOSERS ARE REQUIRED ON ALL FRAMES WHICH ARE TO BE FIRE LABELED, REGARDLESS OF THE HOURLY RATING. IF A LABEL APPROVED REINFORCEMENT IS NOT PROVIDED, THE CLOSER MUST BE THROUGH -BOLTED TO THE FRAME. IN LIEU OF A CLOSER, SPRING HINGES MUST BE USED.
C) STRIKES:	STANDARD STRIKES FOR VARIOUS TYPES OF LISTED HARDWARE MAY BE USED.
D) HARDWARE MULLION:	IT IS PERMISSIBLE TO USE A LISTED HARDWARE MULLION IN A PAIR CONFIGURATION.

NOTE: ANY HARDWARE WHICH IS TO BE USED ON FIRE RATED DOORS AND FRAMES SHOULD BE CONFIRMED FOR LABEL APPROVAL USING THE LATEST EDITION OF THE U.L. FIRE RESISTIVE DIRECTORY VOL. 3, OR ITS/WHI DIRECTORY OF LISTED PRODUCTS.

FACE WELDING COMPLETELY ASSEMBLED AND INSTALLED KD FRAMES IN THE FIELD IS AN ACCEPTABLE PRACTICE, CONTACT FACTORY FOR DETAILS.

18 Three Sided Fire Door Frame

LABEL DOORS AND FRAMES

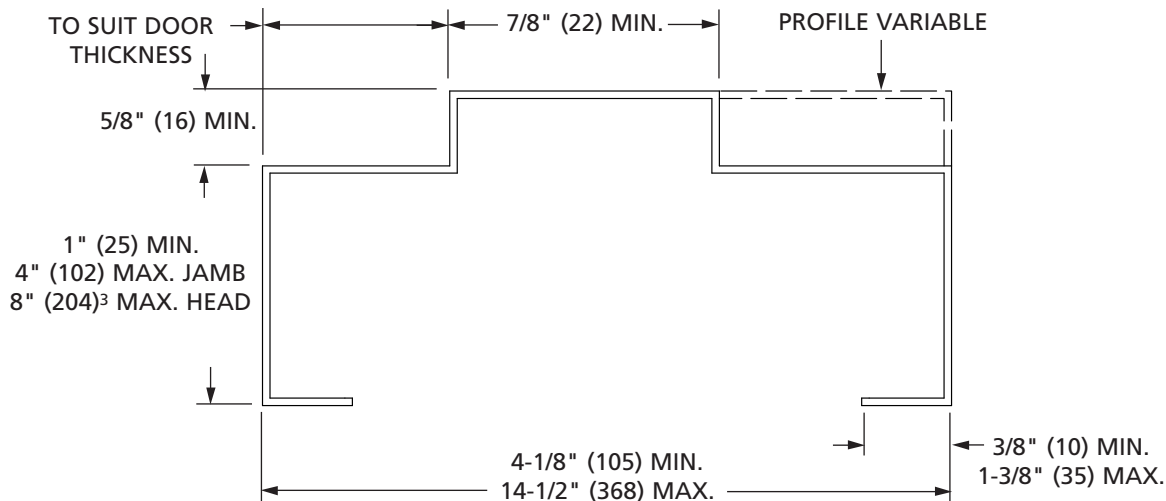
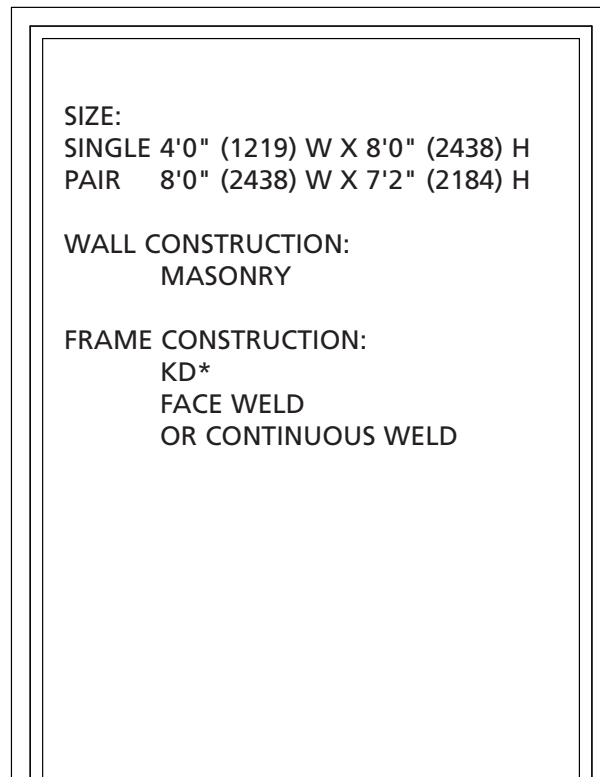
February, 2007

CURRIES

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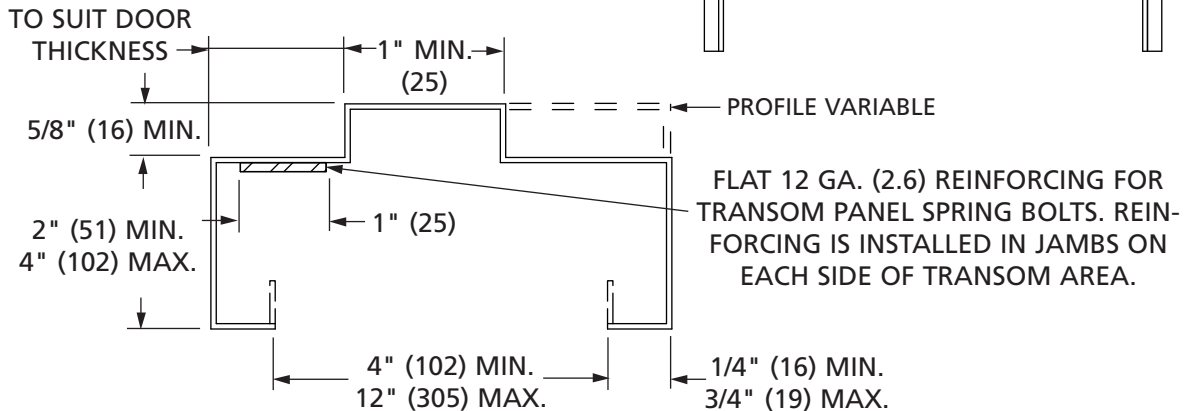
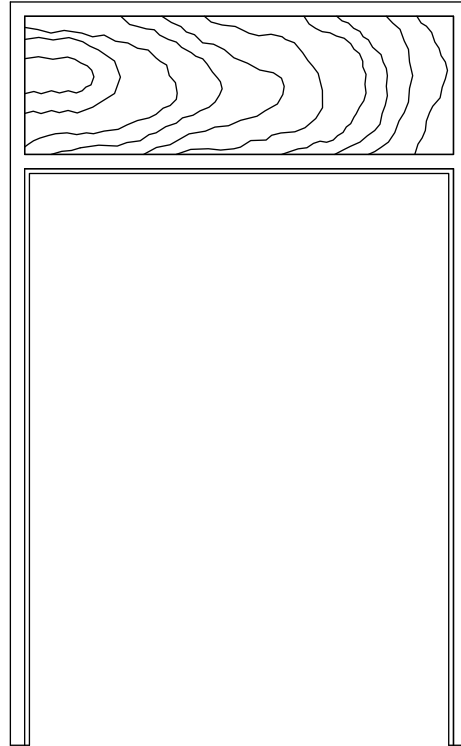
1" FACE DOOR FRAME **MASONRY WALL CONSTRUCTION** **180 MINUTE MAXIMUM FIRE RATING** **NEUTRAL AND POSITIVE PRESSURE**



- 1) WELDED AND REMOVABLE MULLIONS MAY BE USED WITH THIS FRAME.
- 2) ANY LISTED WELD IN OR SLIP IN MASONRY ANCHOR MAY BE USED IN THIS FRAME.
- 3) HEADS WITH GREATER THAN 4" FACE ARE UL LABEL ONLY.

**WOOD TRANSOM PANEL
90 MINUTE MAXIMUM RATING
NEUTRAL AND POSITIVE PRESSURE ONLY**

- FRAME SIZE:**
4"0" (1219) W X 11'0" (3353) SINGLE SWING
- WALL CONSTRUCTION:**
MASONRY
DRYWALL
- FRAME CONSTRUCTION:**
CONTINUOUS WELD
- TRANSOM PANEL:**
ANY LISTED WOOD TRANSOM PANEL
- MAX. PANEL SIZE:**
BASED ON WOOD DOOR MANUFACTURER'S LISTING.
1-1/2 HOUR MAX. LABEL RATING
- MAX. DOOR SIZE:**
ANY LABELED DOOR



NOTES:

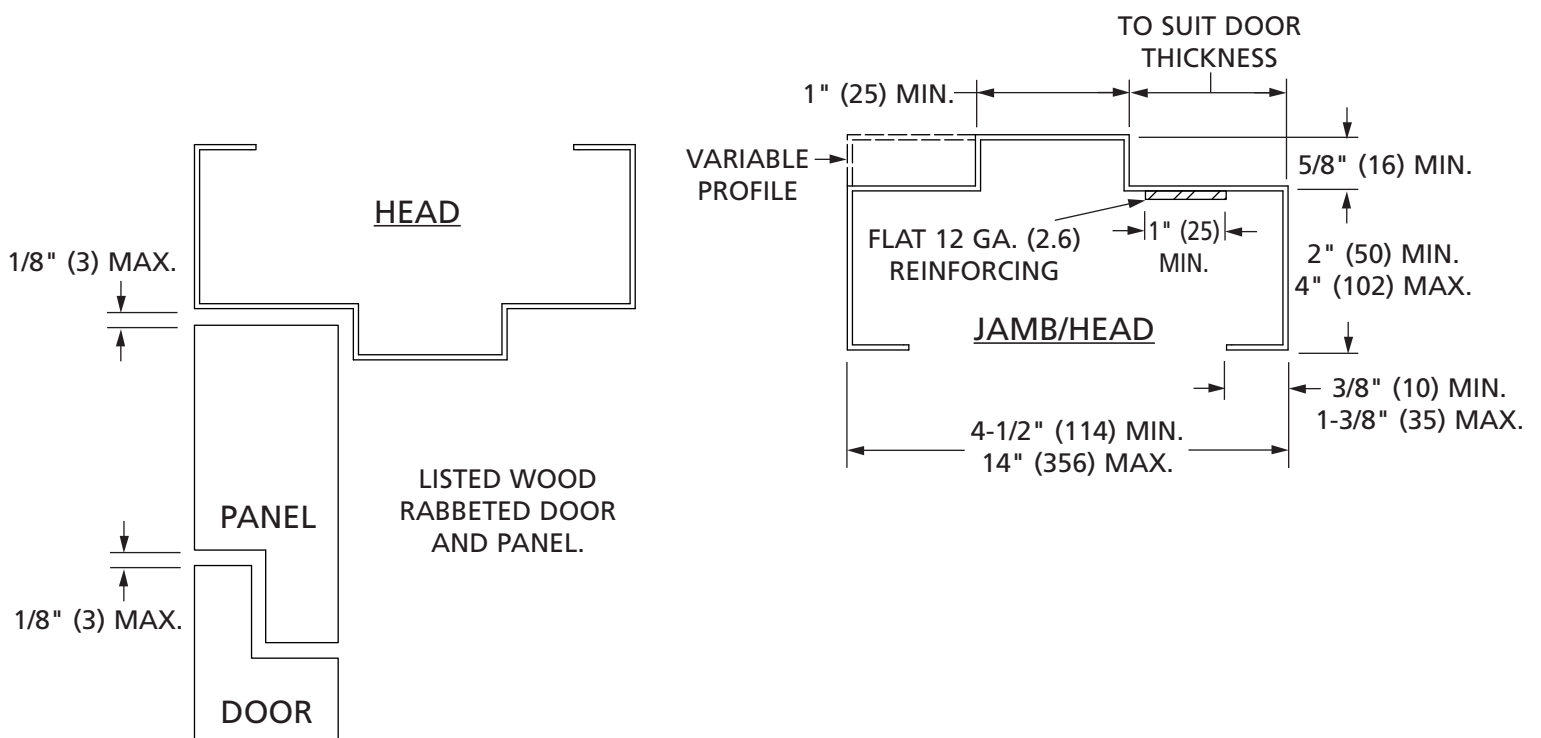
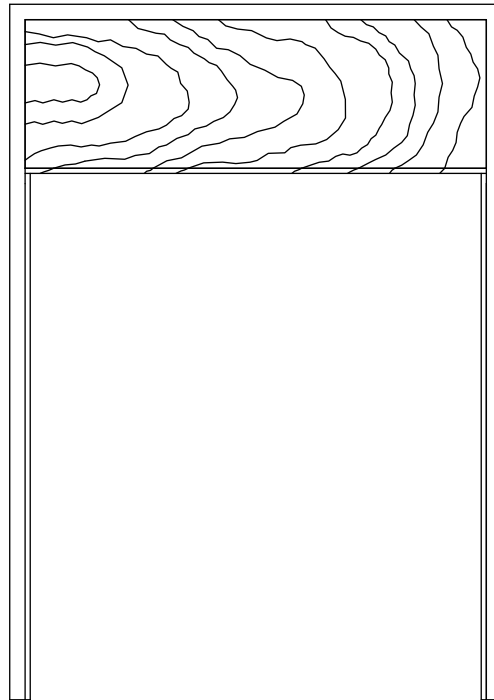
- 1) THIS FRAME IS CONSIDERED A TRANSOM FRAME AND MUST BEAR A LABEL WHICH STATES "FIRE DOOR FRAME WITH PANELS"
- 2) ATTACHMENT OF TRANSOM PANEL TO FRAME IS BY USE OF SPRING BOLTS THAT ARE PROVIDED WITH THE PANEL. (PANEL MAY ALSO BE ATTACHED TO FRAME BY OTHER MEANS AS ALLOWED BY THE PANEL MANUFACTURER'S LISTING.) SPRING BOLTS ENGAGE IN TO REINFORCED HOLES IN THE FRAME.
- 3) ANY LISTED WELD IN OR SLIP IN MASONRY OR DRYWALL ANCHOR MAY BE USED IN THIS FRAME. (COMPRESSION ANCHORS NOT ALLOWED).
- 4) SEE GLAZING CHARTS AND TRANSOM/SIDELITE FRAMES FOR ADDITIONAL CAPABILITIES.

LABEL DOORS AND FRAMES

April 1, 2002

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**90 MINUTE MAXIMUM RATING.
NEUTRAL PRESSURE ONLY.**



Transom Frame For Rabbeted Wood Door & Transom Panel
LABEL DOORS AND FRAMES

April 1, 2002

**90 MINUTE MAXIMUM RATING.
NEUTRAL PRESSURE ONLY**

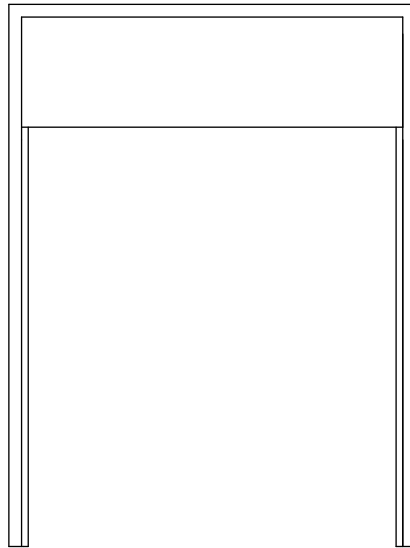
MAXIMUM FRAME SIZE:	4'0" (1219) X 10'0" (3048) AS KD 4'0" (1219) X 11'0" (3353) AS WELDED
MAXIMUM DOOR HEIGHT:	8'0" (2438)
WALL CONSTRUCTION:	MASONRY OR DRYWALL
FRAME CONSTRUCTION:	KD, FACE WELD, OR CONTINUOUS WELD
ANCHORS:	ANY LISTED WELD-IN OR SLIP-IN TYPE DRYWALL OR MASONRY ANCHORS MAY BE USED IN THIS FRAME. (COMPRESSION ANCHORS NOT ALLOWED).
MATERIAL:	COLD ROLLED AND GALVANIZED STEEL 16 GA. (1.5) MINIMUM TO 12 GA. (2.6) MAXIMUM
TRANSOM PANEL:	1-3/4" (44) THICKNESS MAXIMUM SIZE: 4'0" (1219) W X 4'0" (1219) H MAXIMUM LABEL RATING: 1-1/2 HOUR
NOTES:	<ol style="list-style-type: none">1) FLAT 12 GA. (2.6) REINFORCING FOR TRANSOM PANEL SPRING BOLTS. REINFORCING IS INSTALLED IN JAMBS ON EACH SIDE OF TRANSOM PANEL.2) THIS FRAME IS CONSIDERED A TRANSOM FRAME AND MUST BEAR A LABEL WHICH STATES: "FIRE DOOR FRAME WITH PANELS."3) ATTACHMENT OF TRANSOM PANEL TO FRAME IS BY USE OF SPRING BOLTS PROVIDED WITH THE PANEL. (PANEL MAY BE ATTACHED TO THE FRAME BY OTHER MEANS, AS ALLOWED BY THE PANEL MANUFACTURERS LISTINGS.) SPRING BOLTS ENGAGE INTO REINFORCED HOLES IN THE FRAME.4) CONTACT WOOD DOOR & PANEL MANUFACTURER FOR PANEL AND DOOR LIMITATIONS.

LABEL DOORS AND FRAMES

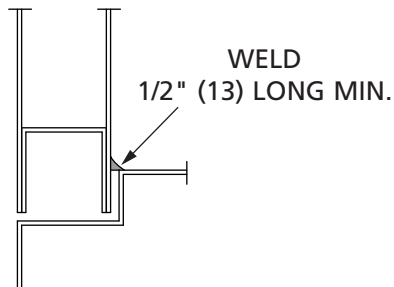
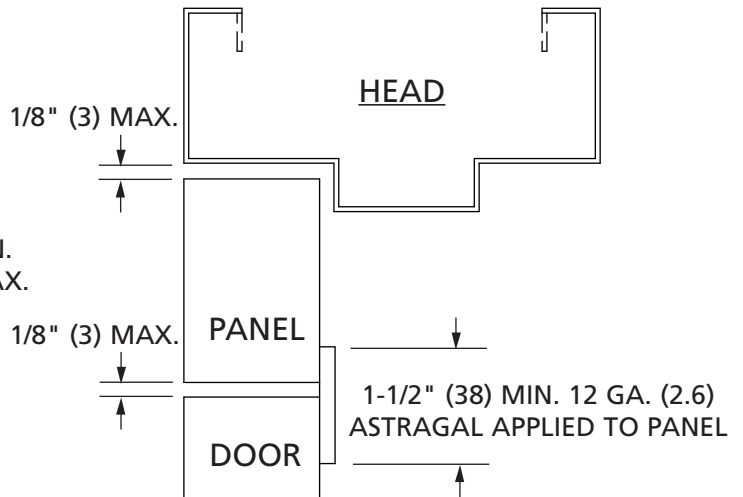
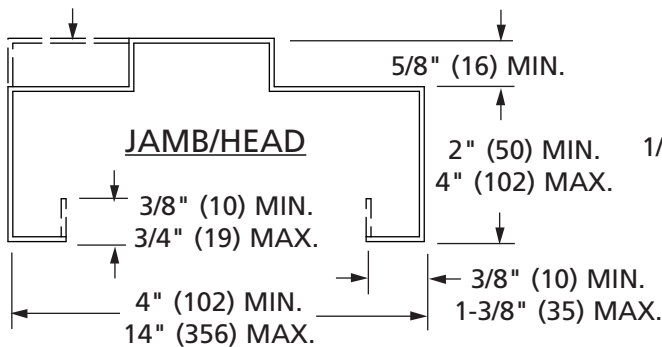
April 1, 2002

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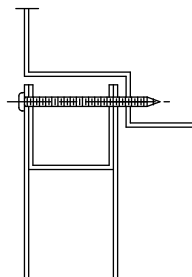
180 MINUTE MAXIMUM RATING.
NEUTRAL AND POSITIVE PRESSURE.



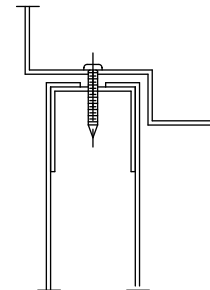
VARIABLE PROFILE



A
STANDARD



B
OPTIONAL



C
OPTIONAL
THIS METHOD CANNOT BE USED ON MULLION SECTIONS

**180 MINUTE MAXIMUM RATING - MASONRY WALLS
90 MINUTE MAXIMUM RATING - DRYWALL WALLS**

MAXIMUM FRAME SIZE:	SINGLE — 4'0" (1219) W X 10'0" (3048) H PAIR — 8'0" (2438) W X 10'0" (3048) H
WALL CONSTRUCTION:	MASONRY OR DRYWALL (DRYWALL WALL INSTALLATION LIMITED TO 90 MINUTES)
FRAME CONSTRUCTION:	KD, FACE WELD, OR CONTINUOUS WELD
ANCHORS:	ANY LISTED WELD IN OR SLIP IN TYPE DRYWALL OR MASONRY ANCHORS MAY BE USED IN THIS FRAME. (COMPRESSION ANCHORS NOT ALLOWED).
MATERIAL:	COLD ROLLED AND GALVANIZED STEEL 16 GA. (1.5) MINIMUM TO 12 GA. (2.6) MAXIMUM
TRANSOM PANEL:	MUST BE 747 CONSTRUCTION. SINGLE: 4'0" (1219) W X 3'0" (1219) H MAX. PAIR: 8'0" (2438) W X 3'0" (1219) H
ASTRAGAL:	ASTRAGAL NOT REQUIRED ON ASSEMBLIES RATED 90.
DOORS:	MAXIMUM DOOR LEAF SIZE SINGLE & PAIRS - 707: 4'0" (1219) W X 10'0" (3048) H SINGLE & PAIRS - 747: 4'0" (1219) W X 10'0" (3048) H
NOTES:	1) THIS FRAME IS CONSIDERED A TRANSOM FRAME AND MUST BEAR A LABEL WHICH STATES: "FIRE DOOR FRAME WITH PANELS" AND IS LIMITED TO THE SAME RESTRICTIONS AS OTHER TRANSOM FRAMES. 2) SCREWS AND WELDS FOR PANEL ANCHORING SHALL BE AT 2-1/2" (64) FROM ENDS AND A MAXIMUM OF 12" (305) APART ON TOP AND BOTTOM EDGES AND 18" (457) APART ON SIDES. PANEL SCREWS SHALL BE MINIMUM #10 SIZE.

Compression Anchor (C-Type) Slip-on Drywall Frame LABEL DOORS AND FRAMES

April 1, 2002

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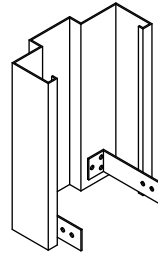
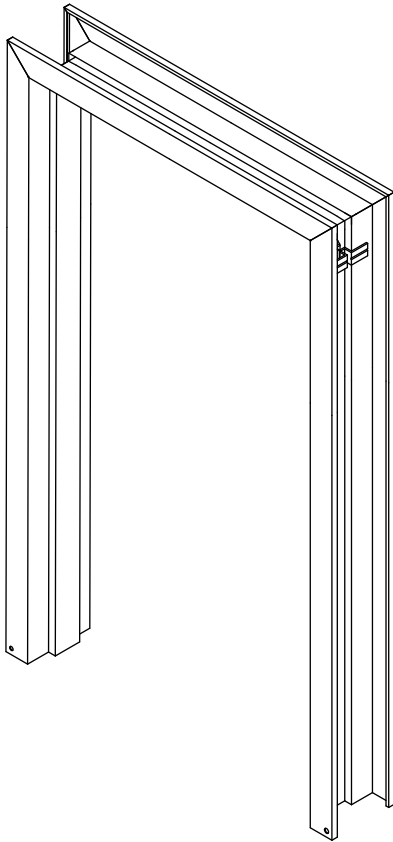
**90 MINUTE MAXIMUM FIRE RATING.
NEUTRAL AND POSITIVE PRESSURE.**

SIZE:

SINGLE: 4'0" (1219) W X 9'0" (2743) H
PAIR: 8'0" (2438) W X 7'2" (2184)
7'0" (2134) W X 9'0" (2743) H

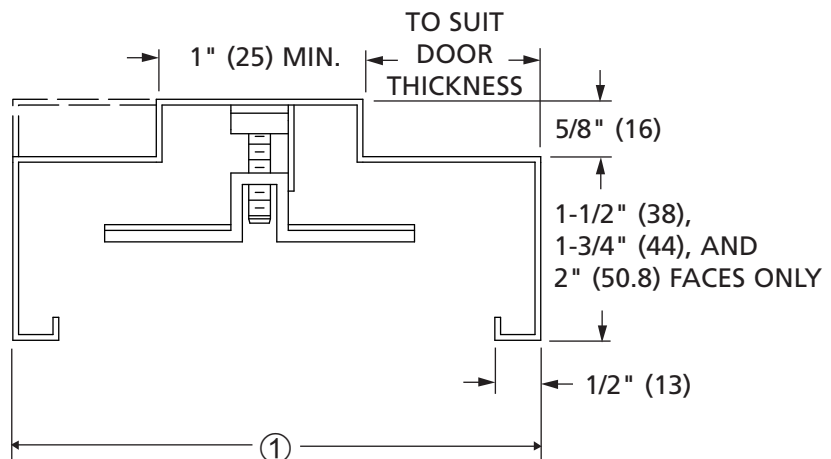
WALL CONSTRUCTION: DRYWALL

FRAME CONSTRUCTION: KD (WITH COMPRESSION ANCHOR SYSTEM)



– COUNTERSUNK BASE ANCHOR HOLE IS STANDARD ON 2" (51) FACE FRAMES, STRAP TYPE BASE ANCHOR OPTIONAL.

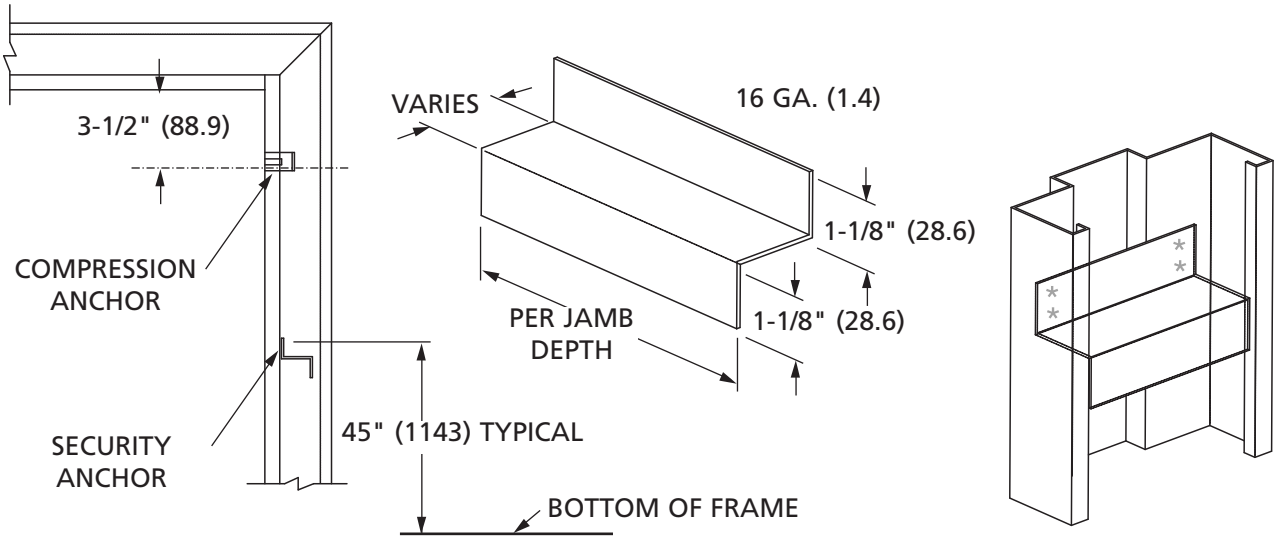
– STRAP TYPE BASE ANCHOR OPTIONAL ON 2" (50.8) FACE FRAMES AND MUST BE USED ON 1-1/2" (38) AND 1-3/4" (44) FACE FRAMES.



NOTE:

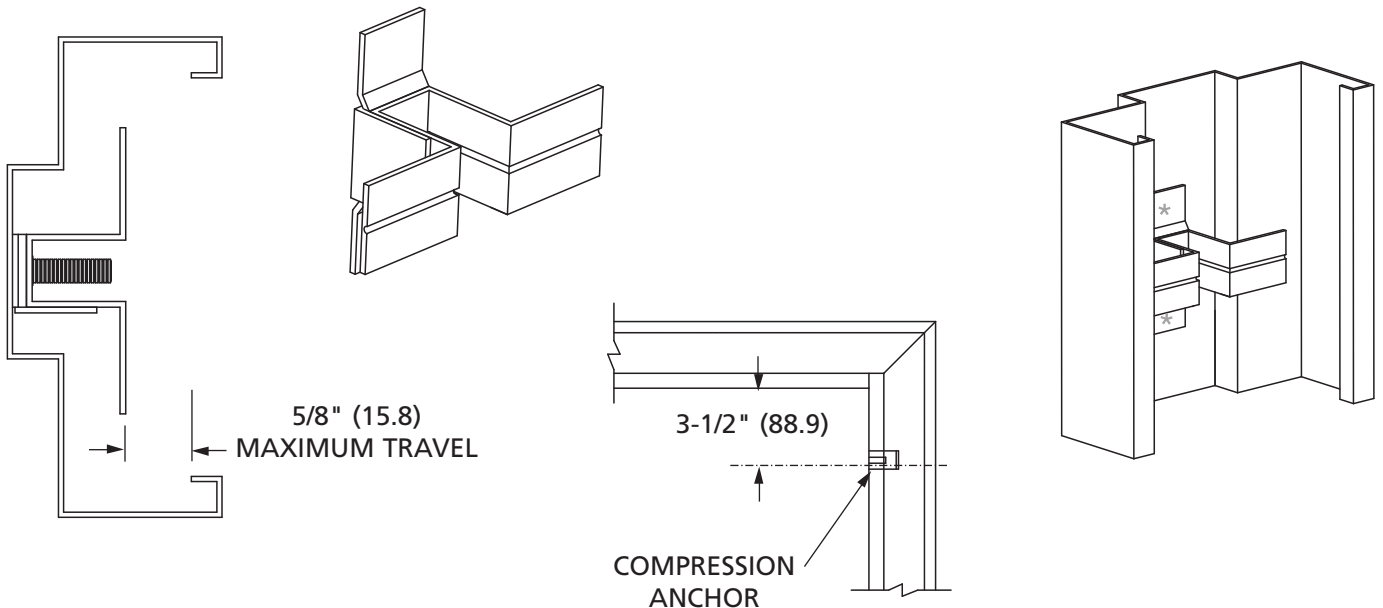
- 1) 3-1/4" (83) MIN. - 14" (356) MAX. FOR SINGLE OPENING FRAMES TO 3'6" (1067) WIDE X 7'0" (2134) HIGH 4-5/8" (118) MIN. - 14" (356) MAX. FOR SINGLE OPENING FRAMES TO 4'0" (1219) WIDE X 9'0" (2743) HIGH AND DOUBLE OPENING FRAMES TO 7'0" (2134) WIDE X 9'0" HIGH OR 8'0" (203) WIDE X 7'2" (2184) HIGH
- 2) KD FRAMES OVER 7'2" (2136) UP TO 8' (2438.4) REQUIRE ONE SECURITY ANCHOR PER JAMB (SEE NEXT PAGE FOR DETAILS). FRAMES OVER 8' (2438.4) UP TO 9' (2743.2) REQUIRE THREE SECURITY ANCHOR IN EACH JAMB. FRAMES FOR PAIRS OF DOORS OVER 7'2" (2184.4) REQUIRE TWO SECURITY ANCHOR IN THE HEAD OF THE FRAME. ONE EACH 12" (304.8) FROM THE CENTERLINE OF THE FRAME HEAD.

ANCHOR PART NUMBER: P0028



Drywall Frame Compression Anchor

ANCHOR PART NUMBER: P0026



26 Multiple Opening Frames LABEL DOORS AND FRAMES

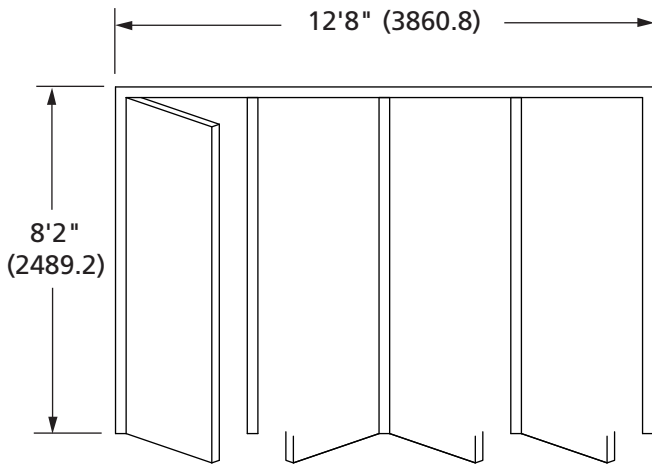


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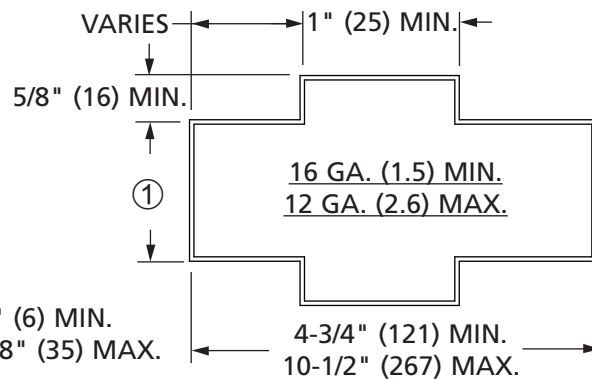
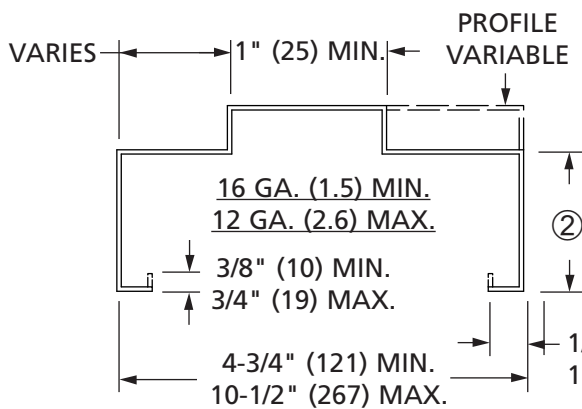
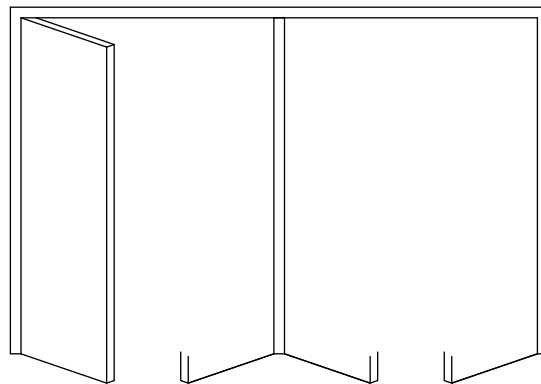
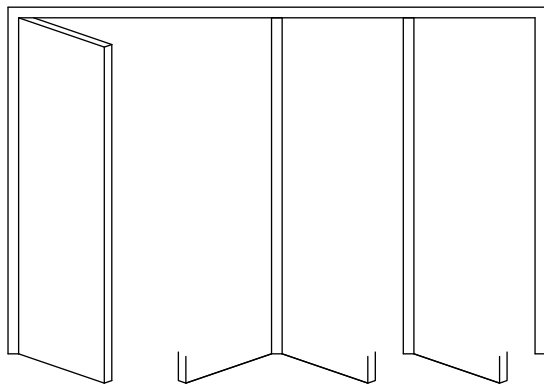
**90 MINUTE MAXIMUM FIRE RATING.
NEUTRAL AND POSITIVE PRESSURE.
ELEVATION/SECTIONS**

FRAME AND DOOR CONFIGURATION MAY VARY



NOTES:

- 1) MAX. FOUR DOORS IN ANY COMBINATION OF SINGLE SWING, PAIRS, OR DOUBLE EGRESS PAIRS.
- 2) CURRIES MODEL 707, OR ANY LISTED WOOD FIRE DOOR MAY BE USED.
- 3) 3/4" (19) LATCH BOLT THROW IS REQUIRED.
- 4) CYLINDRICAL, MORTISE, OR FIRE EXIT HARDWARE IS ACCEPTABLE.
- 5) WELDED CONSTRUCTION ONLY.
- 6) ANY LISTED WELD IN OR SLIP-IN DRYWALL OR MASONRY ANCHOR MAY BE USED IN THIS FRAME.
- 7) MAY BE PROVIDED AS A FOUR SIDED FRAME, REFER TO SILL ANCHOR REQUIREMENTS, SILL MUST BUTT BETWEEN VERTICAL FRAME MEMBERS.



HEAD AND JAMB SECTION

① 2" (51) MIN.
4" (102) MAX.

② 2" (51) MIN.
2" (51) MAX. HEAD
4" (102) MAX. JAMB

LABEL DOORS AND FRAMES

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28 Transom / Sidelight Frame LABEL DOORS AND FRAMES

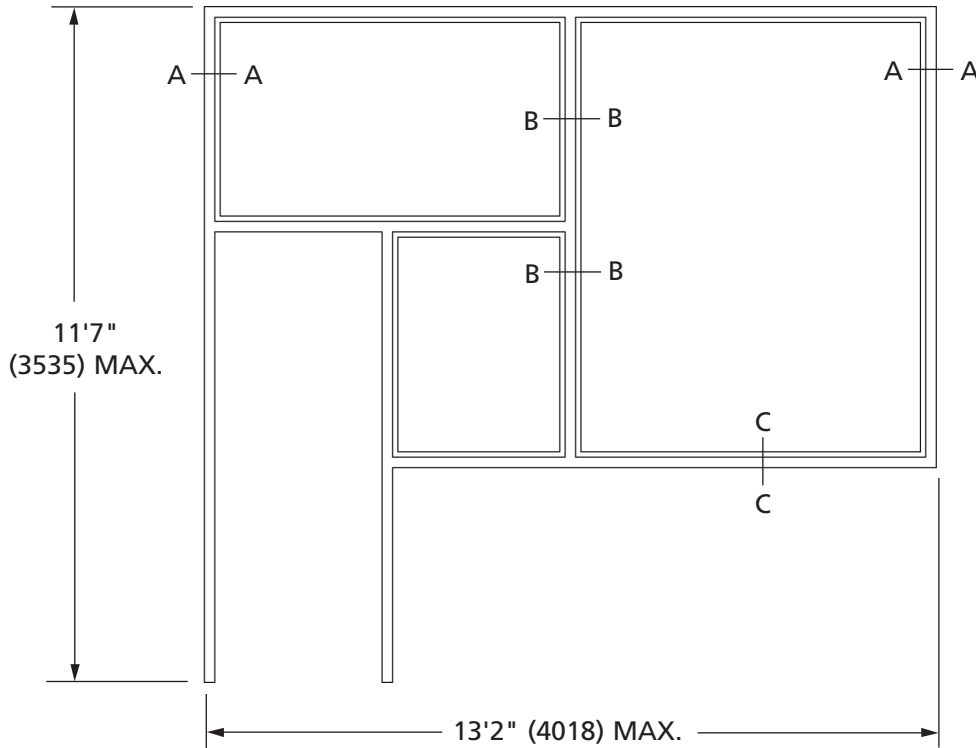


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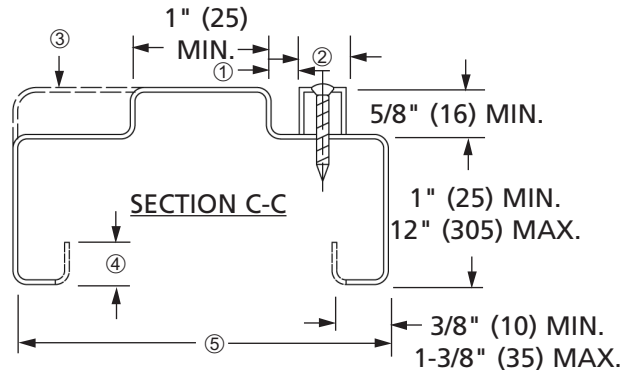
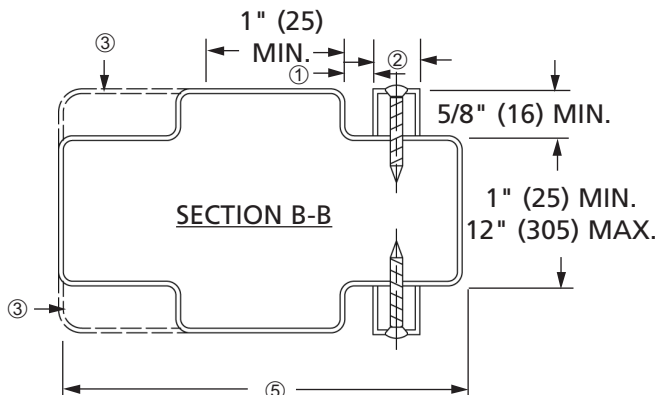
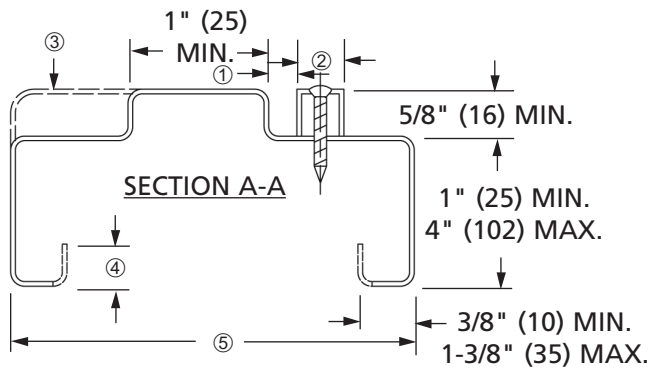
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**20 MINUTE WITHOUT HOSE STREAM MAXIMUM RATING
NEUTRAL OR POSITIVE PRESSURE
ELEVATION DETAILS**



GENERAL NOTES:

- ① 3/8" (10) MIN. GLASS POCKET
- ② 5/8" (16) MIN.
- ③ VARIABLE PROFILE
- ④ 3/8" (10) MIN.
3/4" (19) MAX.
- ⑤ 4-1/2" (124) MIN.
14" (356) MAX.



**20 MINUTE WITHOUT HOSE STREAM MAXIMUM RATING.
NEUTRAL OR POSITIVE PRESSURE SPECIFICATIONS**

MAXIMUM FRAME SIZE:	13'2" (4013) W X 11'7" (3531) H
MAXIMUM DOOR SIZE:	SINGLE — 4'0" (1219) W X 10'0" H PAIR — 8'0" (2438) W X 10'0" H
MAX. GLASS AREA: **SEE NOTES 1&2	5/8" (16) H X 5/8" (16) W MIN. STOP; MAX W OR H IS 109-3/4" (2788) NOT TO EXCEED 5268 SQ. IN. (3398703) OF VISIBLE GLASS
WALL CONSTRUCTION:	MASONRY OR DRYWALL
FRAME CONSTRUCTION:	FACE OR CONTINUOUS WELDS.
MATERIAL:	COLD ROLLED AND GALVANIZED STEEL 16 GA. (1.5) MINIMUM TO 12 GA. (2.6) MAXIMUM
ANCHORS:	ANY LISTED WELD IN OR SLIP-IN TYPE DRYWALL OR MASONRY ANCHORS MAY BE USED IN THIS FRAME
NOTES:	1) IF FIRE WINDOW FRAME DOES NOT EXTEND TO THE FLOOR AND IS SUSPENDED OVER A DRYWALL SILL, A SUITABLE ANCHOR MUST BE USED IN THE SILL MEMBER FOR EACH 30" (762) OF LENGTH OR FRACTION THEREOF. 2) THE CONFIGURATION OF TRANSOM AND LIGHT AREAS MAY VARY! ONLY LISTED GLAZING MATERIALS MAY BE USED IN THIS FRAME. SEE <i>FRAME GLAZING CHARTS</i> FOR ADDITIONAL GLAZING OPTIONS.

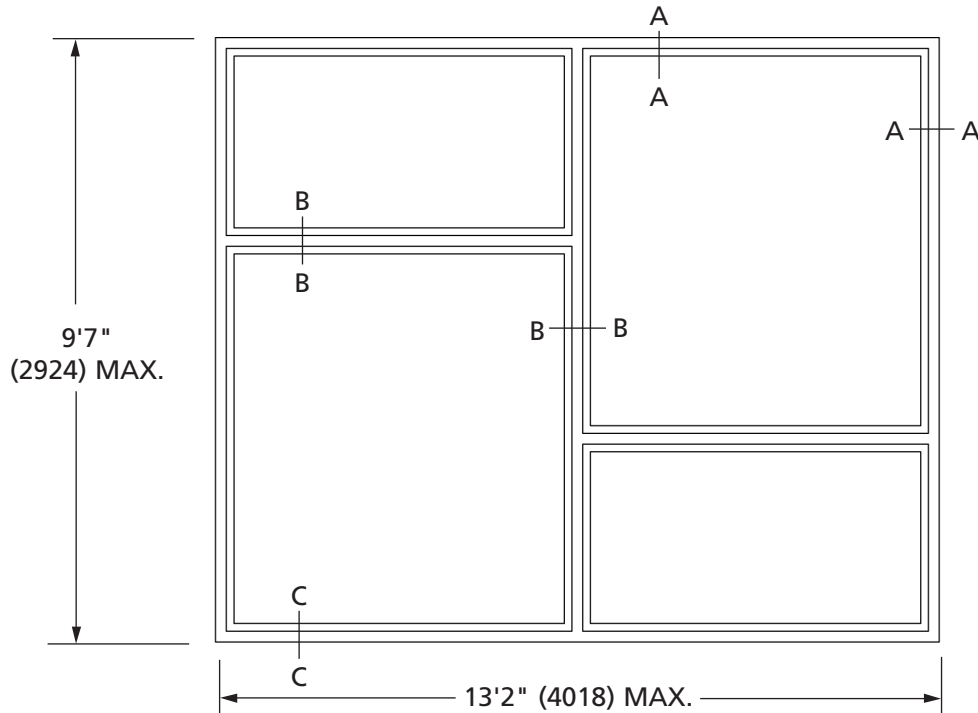
30 Fire Window Frame LABEL DOORS AND FRAMES



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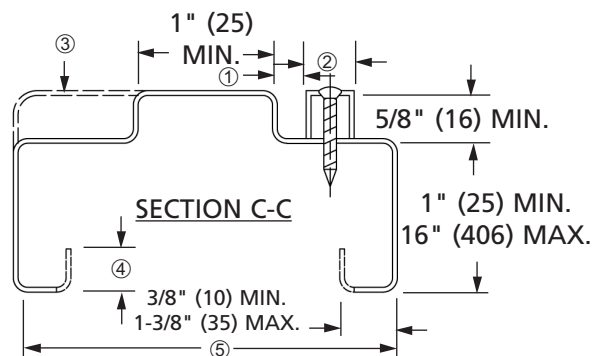
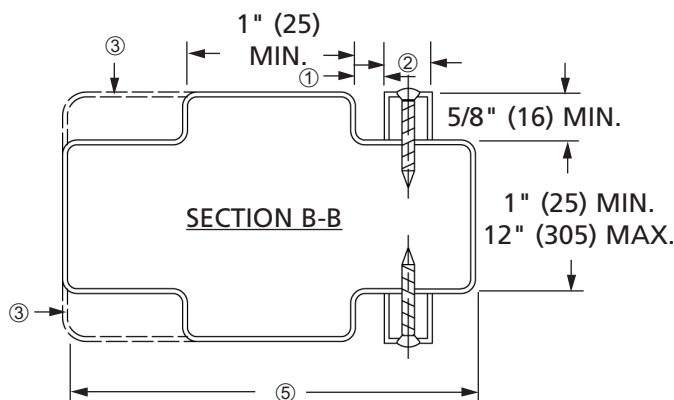
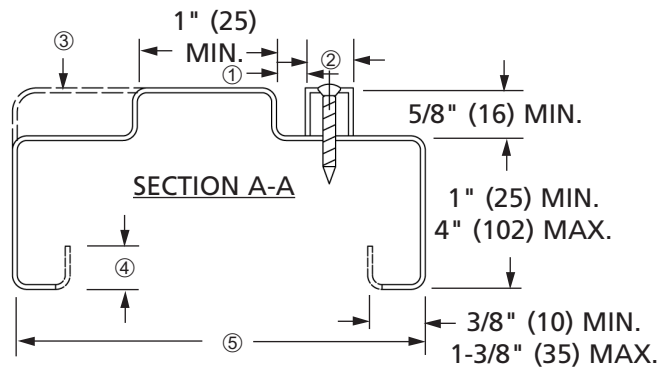
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20 MINUTE WITHOUT HOSE STREAM MAXIMUM RATING NEUTRAL OR POSITIVE PRESSURE ELEVATION/SECTIONS DETAIL



GENERAL NOTES:

- ① 3/8" (10) MIN. GLASS POCKET
- ② 5/8" (16) MIN.
- ③ VARIABLE PROFILE
- ④ 3/8" (10) MIN.
3/4" (19) MAX.
- ⑤ 4-1/2" (124) MIN.
14" (356) MAX.



**20 MINUTE WITHOUT HOSE STREAM MAXIMUM RATING.
NEUTRAL OR POSITIVE PRESSURE SPECIFICATIONS**

MAXIMUM FRAME SIZE:	13'2" (4013) W X 9'7" (2924) H
MAXIMUM GLASS AREAS:	5/8" (16) H X 5/8" (16) W MIN. STOP; MAX. W OR H IS 109-3/4" (2788); NOT TO EXCEED 5268 SQ. IN. (3398703) VISIBLE GLASS SEE <i>FRAME GLAZING CHARTS</i> FOR ADDITIONAL GLAZING OPTIONS.
WALL CONSTRUCTION:	MASONRY OR DRYWALL.
FRAME CONSTRUCTION:	FACE OR CONTINUOUS WELDS
MATERIAL:	COLD ROLLED AND GALVANIZED STEEL 16 GA. (1.5) MINIMUM TO 12 GA. (2.6) MAXIMUM
ANCHORS:	ANY LISTED WELD-IN OR SLIP-IN TYPE DRYWALL OR MASONRY ANCHORS MAY BE USED IN THIS FRAME.
NOTES:	<ol style="list-style-type: none">1) IF THE FIRE WINDOW FRAME DOES NOT EXTEND TO THE FLOOR AND IS SUSPENDED OVER A DRYWALL SILL, A SUITABLE ANCHOR MUST BE USED IN THE SILL MEMBER FOR EACH 30" (762) OF LENGTH OR FRACTION THEREOF.2) THE CONFIGURATION OF GLASS LIGHT AREAS MAY VARY. ONLY LISTED GLAZING MATERIALS MAY BE USED IN THIS FRAME.3) THE AUTHORITY HAVING JURISDICTION SHOULD REVIEW THE USE OF A FIRE WINDOW FRAME WITH A 20 MINUTE - WITHOUT HOSE STREAM RATING.4) GLASS STOP SCREW SPACING #8 OVAL HEAD SHEET METAL SCREW 2" FROM EACH END AND 6" ON CENTER MAX.5) GLASS STOP EXTENDER MAY BE USED WITH THIS FRAME.

32 Fire Window Frame (Masonry Walls Only) LABEL DOORS AND FRAMES

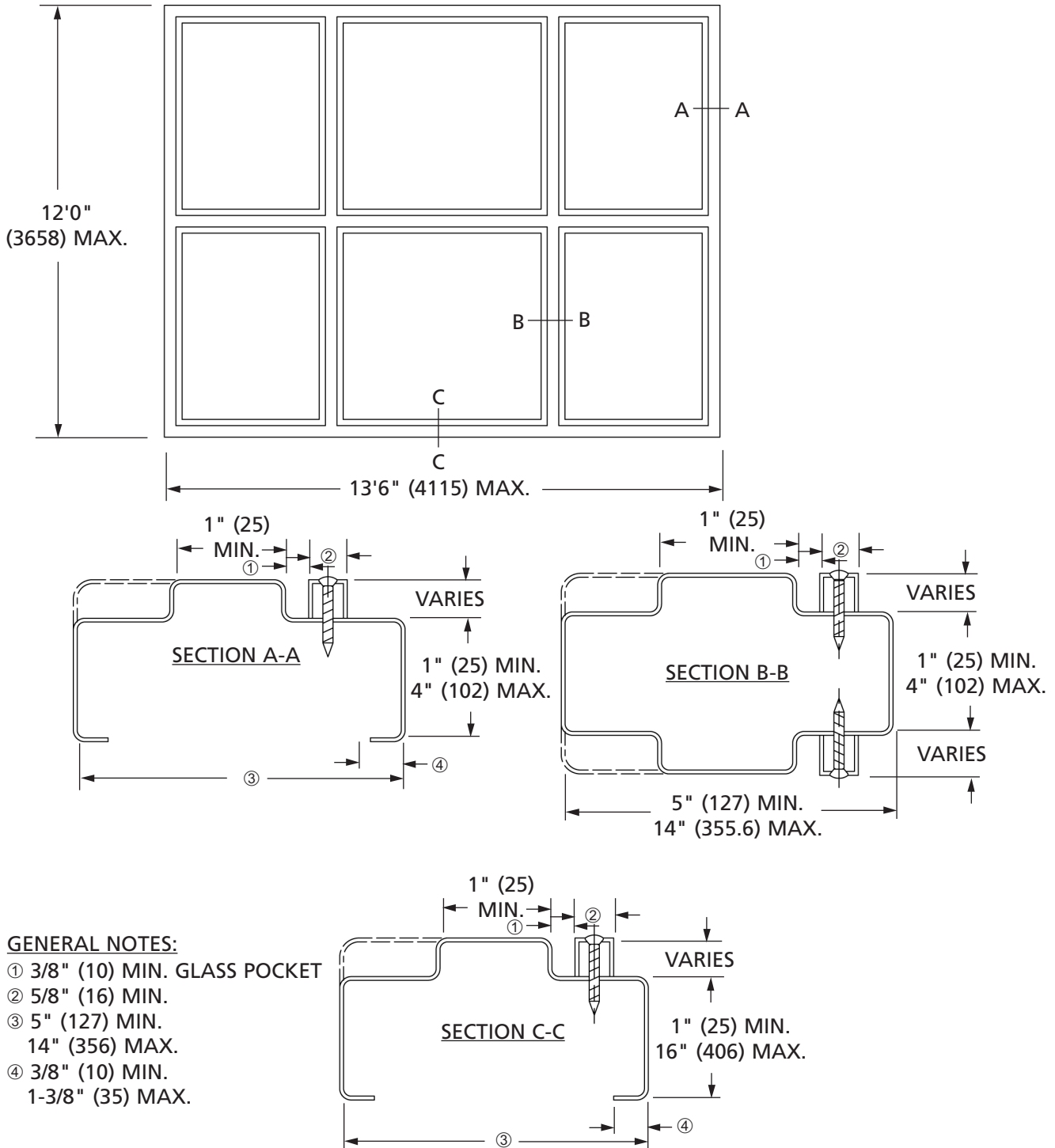


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**90 MINUTE MAXIMUM RATING
IN MASONRY WALLS ONLY
NEUTRAL OR POSITIVE PRESSURE
ELEVATION/SECTIONS DETAIL**



**90 MINUTE MAXIMUM RATING
NEUTRAL OR POSITIVE PRESSURE SPECIFICATIONS**

OVERALL FRAME SIZE:	13'6" (4115) W X 12'0" (3658) H
GLAZING REQUIREMENTS:	SEE <i>FRAME GLAZING CHARTS</i> FOR GLAZING OPTIONS INCLUDING MAXIMUM HOURLY RATINGS. MAXIMUM VISIBLE AREA, MAXIMUM HEIGHT AND WIDTH, MINIMUM STOP HEIGHT, AND GLASS POCKET WIDTH FOR EACH GLAZING OPTION IS LISTED IN THE CHART. LISTED GLAZING COMPOUND, 100% SILICONE, OR CLOSED CELL FOAM TAPE MAY BE USED. SEE GLAZING MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR GLASS OPTIONS.
WALL CONSTRUCTION:	MASONRY WALLS
FRAME CONSTRUCTION:	FACE OR CONTINUOUS WELDS
MATERIAL:	COLD ROLLED AND GALVANIZED STEEL 16 GA. (1.5) MINIMUM TO 12 GA. (2.6) MAXIMUM
ANCHORS:	ANY LISTED WELD-IN OR SLIP-IN TYPE MASONRY ANCHOR MAY BE USED WITH THIS FRAME.
NOTES:	1) GLASS STOP SCREW SPACING; NO. 8 OVAL HEAD SHEET METAL SCREWS SPACED 2" (51) FROM EACH END AND 6" (152) ON CENTER 2) THE CONFIGURATION OF GLASS LIGHT AREAS MAY VARY. 3) THIS FRAME MAY BE PROVIDED WITH A SCREW APPLIED FIELD SPLICE FOR CONNECTION AT THE JOB SITE. 4) GLASS STOP EXTENDER MAY BE USED WITH THIS FRAME. 5) ASSEMBLY HAS NO TEMPERATURE RISE RATING.

34 Fire Window Frame LABEL DOORS AND FRAMES

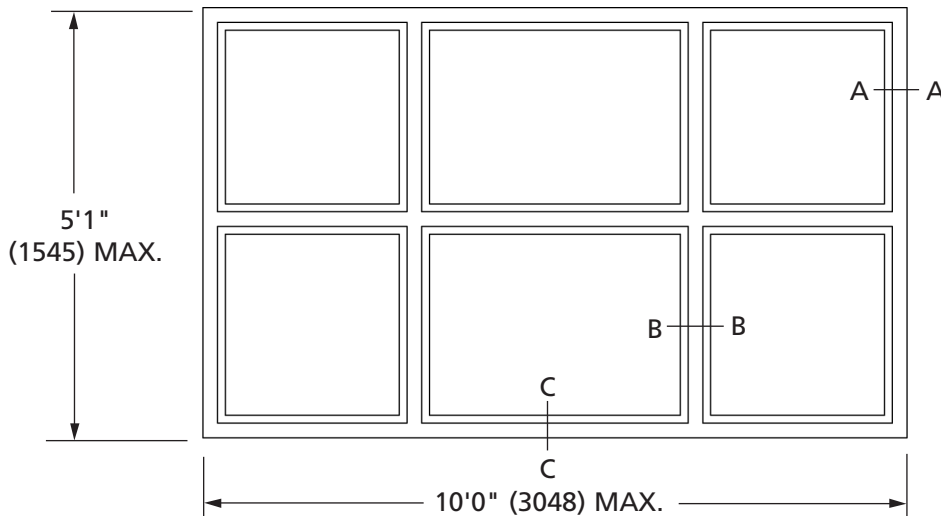
July 1, 2003

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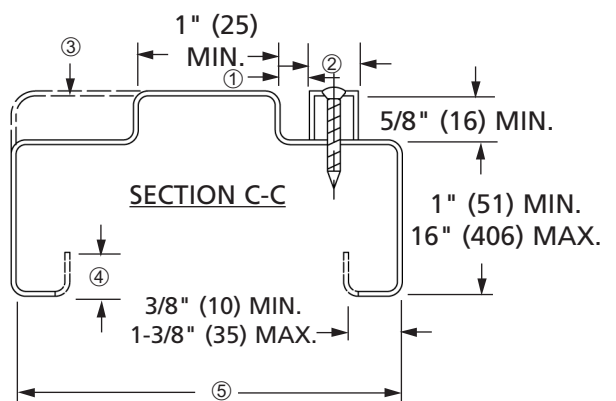
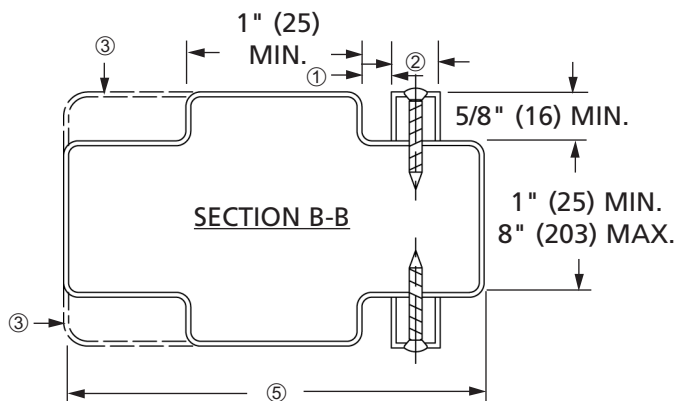
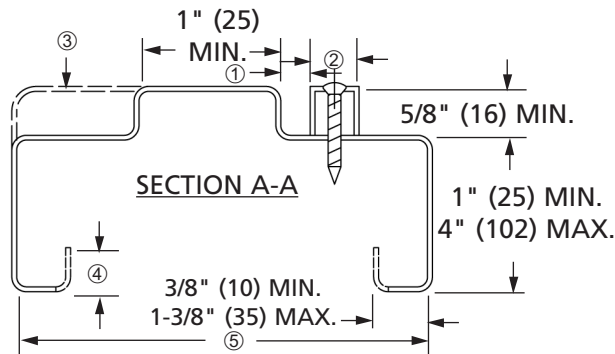
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90 MINUTE MAXIMUM RATING NEUTRAL OR POSITIVE PRESSURE IN DRYWALL WALLS ELEVATION/SECTIONS DETAIL



GENERAL NOTES:

- ① 3/8" (10) MIN. GLASS POCKET
- ② 5/8" (16) MIN.
- ③ VARIABLE PROFILE
- ④ 3/8" (10) MIN.
3/4" (19) MAX.
- ⑤ 4-1/2" (114) MIN.
14" (356) MAX.

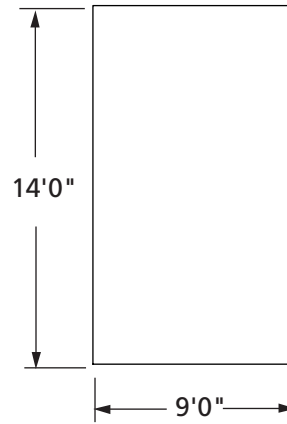
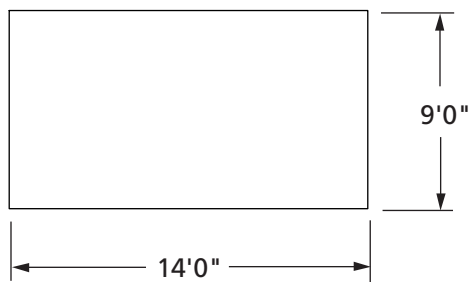


**90 MINUTE MAXIMUM RATING
NEUTRAL OR POSITIVE PRESSURE SPECIFICATIONS**

OVERALL FRAME SIZE:	10'0" (3048) W X 5'1" (1549) H; FOR USE IN DRYWALL WALLS.
GLAZING REQUIREMENTS:	SEE <i>FRAME GLAZING CHARTS</i> FOR GLAZING OPTIONS INCLUDING MAXIMUM HOURLY RATINGS. MAXIMUM VISIBLE AREA, MAXIMUM HEIGHT AND WIDTH, MINIMUM STOP HEIGHT, AND GLASS POCKET WIDTH FOR EACH GLAZING OPTION IS LISTED IN THE CHART. LISTED GLAZING COMPOUND, 100% SILICONE, OR CLOSED CELL FOAM TAPE MAY BE USED ON. SEE GLAZING MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR OTHER OPTIONS.
WALL CONSTRUCTION:	DRYWALL
FRAME CONSTRUCTION:	FACE OR CONTINUOUS WELDS.
MATERIAL:	COLD ROLLED AND GALVANIZED STEEL 16 GA. (1.5) MINIMUM TO 12 GA. (2.6) MAXIMUM
ANCHORS:	ANY LISTED WELD-IN OR SLIP-IN TYPE DRYWALL ANCHOR.
NOTES:	1) IF FIRE WINDOW FRAME IS INSTALLED OVER DRYWALL SILL, A SUITABLE ANCHOR MUST BE USED IN THE SILL MEMBER FOR EACH 30" (762) OF SILL LENGTH. 2) STOP HEIGHT EXTENDER MAY BE USED ON THESE FRAMES. 3) GLASS STOP SCREW SPACING: NO. 8 OVAL HEAD SHEET METAL SCREWS SPACED 2" (51) FROM EACH END AND 6" (152) ON CENTER. 4) THE CONFIGURATION OF GLASS LIGHT AREAS MAY VARY. 5) ASSEMBLY HAS NO TEMPERATURE RISE RATING.

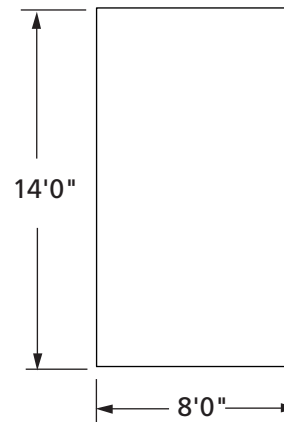
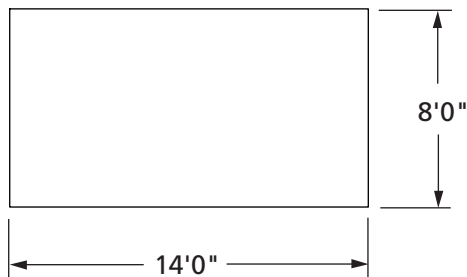
FRAMES WELDED AT CURRIES:

PROVIDE FIELD SPLICES FOR FRAMES THAT EXCEED SIZE SHOWN.

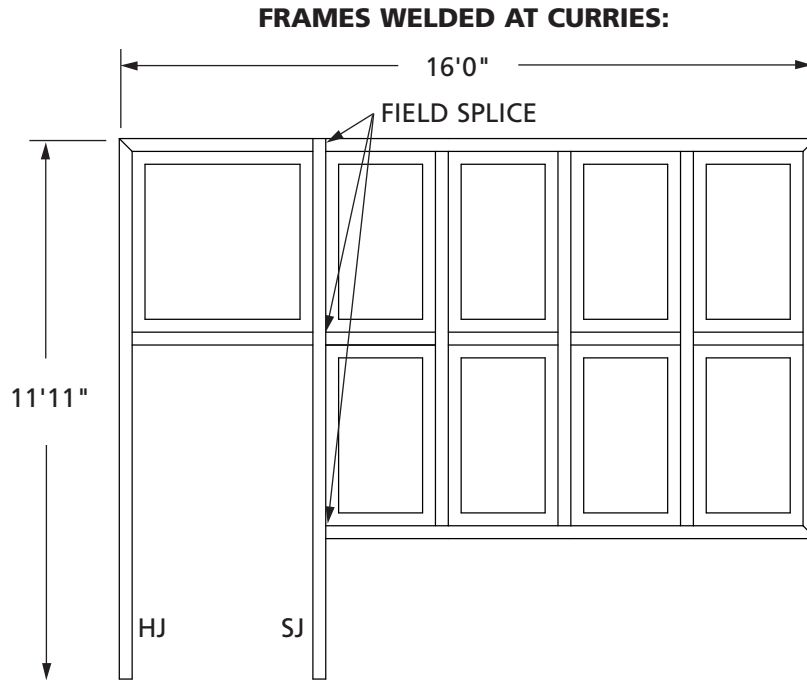


FIELD SPLICING BRACKETS ON WELDED FRAMES WILL BE PROVIDED.
SEE NEXT PAGE FOR SPLICE EXAMPLES.

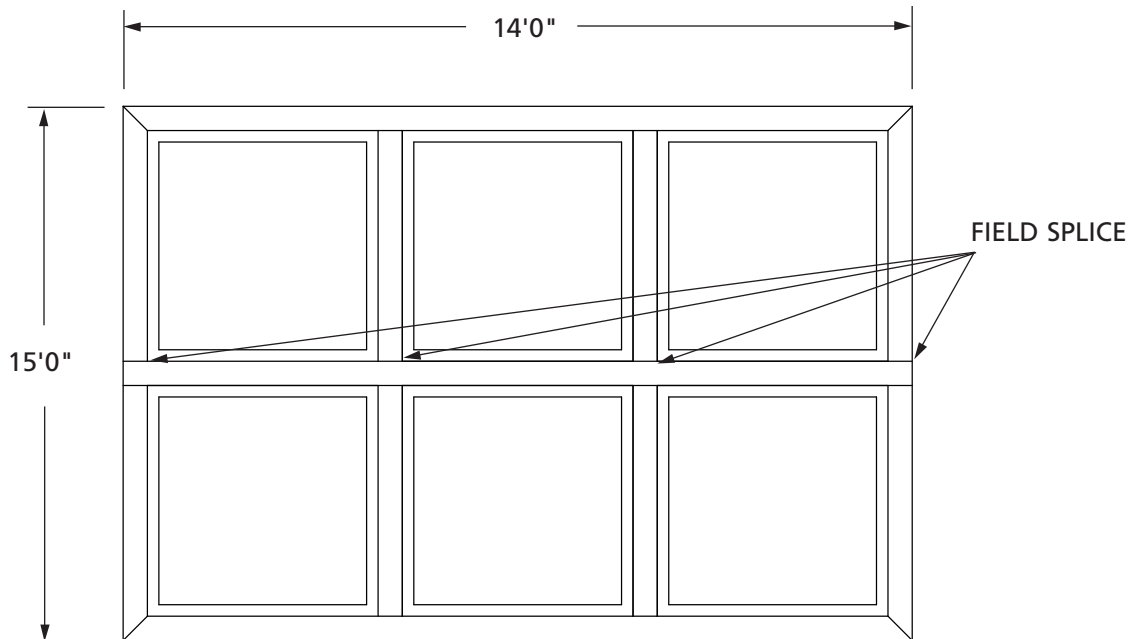
FRAMES WELDED AT SERVICE CENTERS:



FIELD SPLICING BRACKETS ON WELDED FRAMES WILL BE PROVIDED.
SEE NEXT PAGE FOR SPLICE EXAMPLES.



FIELD SPLICE SLEEVES, WILL BE APPLIED TO STRIKE JAMB, ONE FOR EACH ATTACHING HORIZONTAL RAIL.



FIELD SPLICE SLEEVES, WILL BE APPLIED TO HORIZONTAL MULLION, ONE FOR EACH ATTACHING VERTICAL RAIL.

38 Fire Window Frame Bow Window LABEL DOORS AND FRAMES

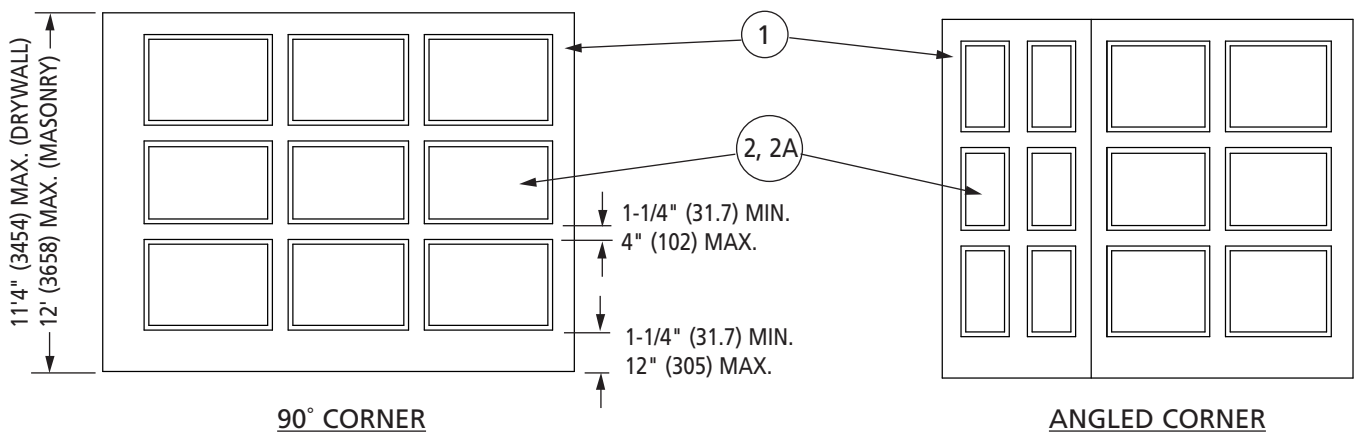
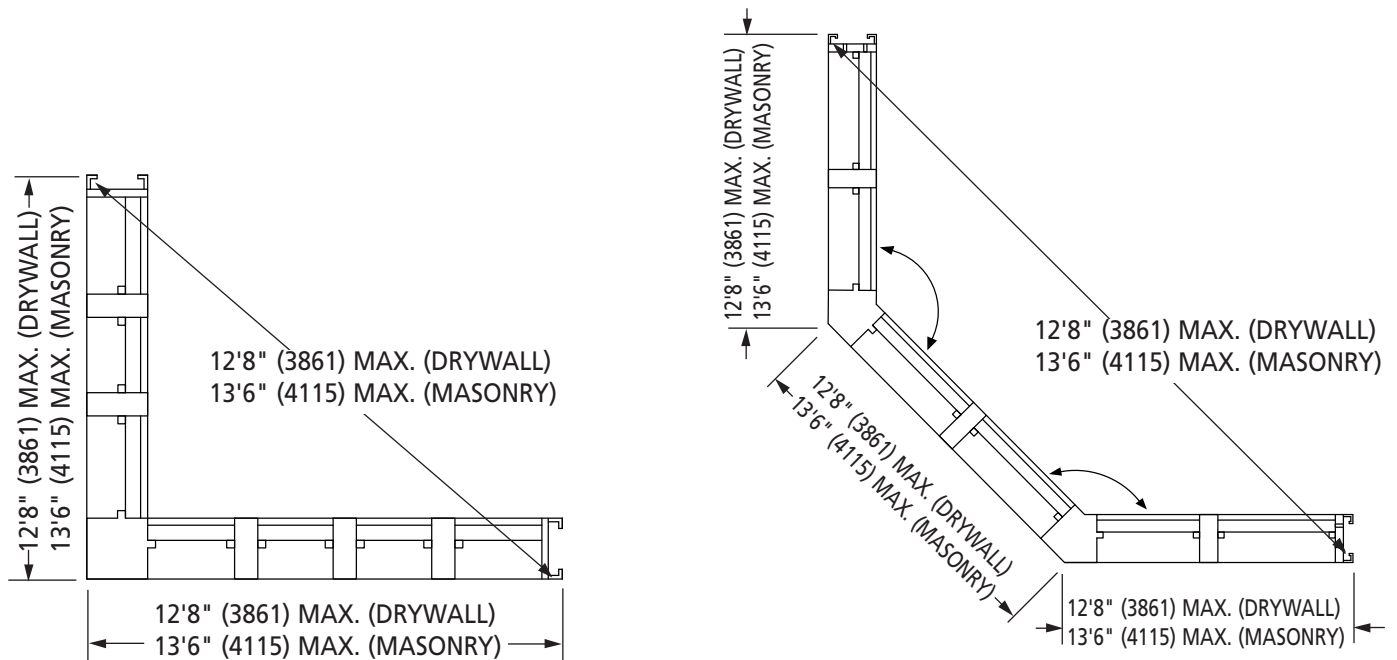
April 1, 2002

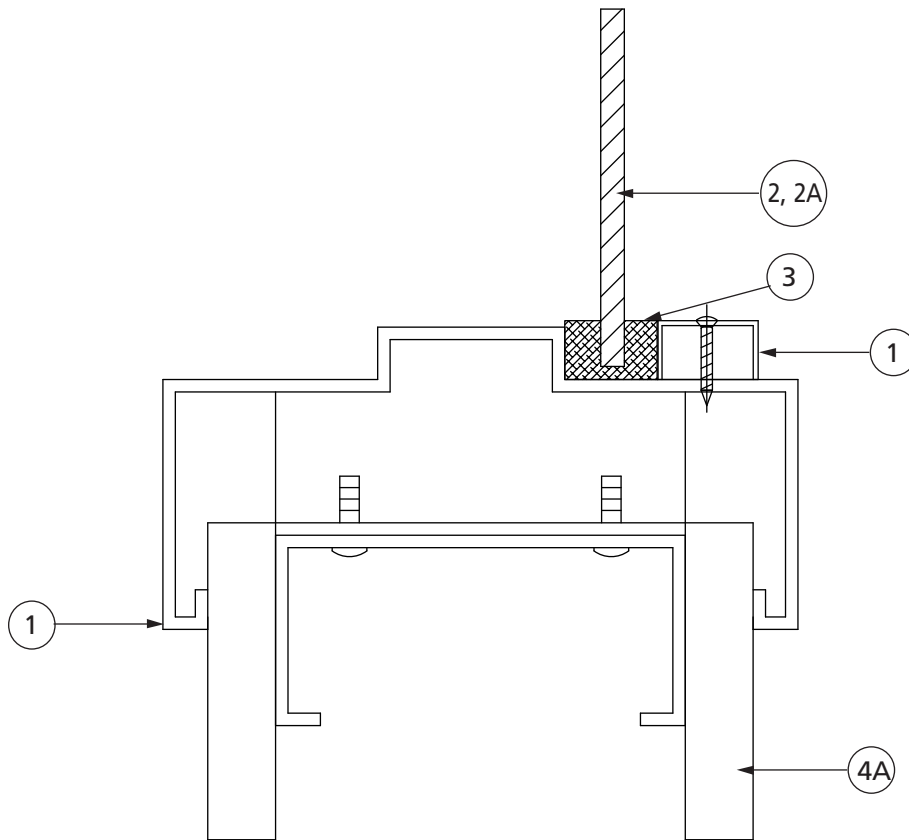


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ASSEMBLY NO. WA-3-01
FIRE RATINGS - 3/4 HR.
MEETS THE CRITERIA OF STANDARD UL 9 (2000) AND UBC STANDARD 7-4, (1997)





CROSS SECTION

1. FIRE WINDOW FRAME + THE FRAME IS TO BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDED INSTALLATION PRACTICES PRESENTED IN NFPA 80, "FIRE-RATED HOLLOW METAL DOORS AND WINDOWS," AND NAAMM STANDARD 850-00, "FIRE-RATED HOLLOW METAL DOORS AND FRAMES." THE WINDOW FRAME MAY INCLUDE A DOOR FRAME THAT IS PART OF A FIRE RATED DOOR ASSEMBLY HAVING A MIN. 3/4 HR. RATING. THE BASIC FRAME CONSTRUCTION AND LIMITATIONS ARE AS FOLLOWS:

- A) OPENING SIZE-MAXIMUM WALL OPENING SIZE SHALL BE 152 IN. FOR GYPSUM WALLBOARD CONSTRUCTION AND 162 IN. FOR MASONRY CONSTRUCTION. FRAME PROJECTION FROM FACE OF WALL SHALL NOT EXCEED THE MAX. ALLOWABLE OPENING WIDTH.
- B) MULLION AND JAMB FACE DIMENSIONS 1-1/4 MIN. - 4 IN. MAX. SILL FACE DIMENSION 1-1/4 IN. MIN. - 12 IN. MAX.
- C) THE FRAME IS TO BE PROVIDED WITH ANCHORS SUITABLE FOR THE WALL CONDITIONS IN ACCORDANCE WITH NAAMM STANDARD 850-00.
- D) THE INSIDE ANGLE BETWEEN FRAME SEGMENTS MAY VARY. INSIDE ANGLES OF 90° AND 135° ARE SHOWN IN THE ILL. FRAME CURVATURE TO BE CONTINUOUS OR SEGMENTED.
- E) SPLICES - THE FRAME MAY BE PROVIDED WITH SPLICES FOR SHIPMENT PURPOSES.

40 Fire Window Frame Bow Window LABEL DOORS AND FRAMES

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2) **GLAZING MATERIALS*** 1/4 IN. THICK WIRED GLASS. SEE GLAZING MATERIALS CATEGORY (KCMZ) FOR NAMES OF CLASSIFIED COMPANIES AND THE MAXIMUM SIZE OF GLAZING MATERIAL. GLAZING MATERIAL SHALL HAVE A MINIMUM RATING OF 3/4 HR.

2A) **GLAZING MATERIALS (ALTERNATE)*** AS AN ALTERNATE TO WIRED GLASS, THE FOLLOWING GLAZING MATERIALS MAY BE USED. SEE GLAZING MATERIALS (KCMZ) FOR THE MAXIMUM SIZE OF GLAZING MATERIAL. GLAZING MATERIAL SHALL HAVE A MINIMUM RATING OF 3/4 HR.

NIPPON ELECTRIC GLASS CO LTD - NON-WIRED 3/16 IN. FIRELITE, FIRELITE NT, 5/16 IN. THICK
FIRELITE PLUS, FIRELITE IGU

MESTEK CO.

ANEMOSTAT PRODUCTS - NON-WIRED 3/16 IN. FIRELITE, FIRELITE NT, 5/16 IN. THICK FIRELITE PLUS, FIRELITE IGU

TECHNICAL GLASS PRODUCTS - NON WIRED 3/16 IN. FIRELITE, FIRELITE NT, 5/16 IN. THICK FIRELITE PLUS, FIRELITE IGU

3) **GLAZING COMPOUND*** GLAZING COMPOUND SHALL COMPLETELY FILL THE GLAZING POCKET WITH A MIN. THICKNESS OF 1/16 IN. BETWEEN THE GLAZING AND THE FRAME. SEE GLAZING MATERIALS CATEGORY (KCMZ) FOR NAMES OF GLAZING COMPOUNDS TO BE USED WITH GLAZING MATERIALS (ITEM 2).

4) **WALL CONSTRUCTION** MASONRY OR DRYWALL CONSTRUCTION (STEEL STUD GYPSUM WALLBOARD WALL SHOWN).

A) **GYPSUM WALLBOARD** THE ONE HOUR MINIMUM FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY. THE FIRE WINDOW FRAME IS ANCHORED TO THE STEEL STUDS OR WOOD STUDS USING THE APPROPRIATE ANCHORS SHIPPED WITH THE FRAME. WHERE FRAME IS ADJACENT TO GYPSUM WALL BOARD ASSEMBLY, THE OPENING IS TO BE FRAMED WITH DOUBLE STUDS. GYPSUM WALLBOARD TO BE INSERTED INTO THE FRAME THROAT 1/2 IN. MINIMUM.

B) **MASONRY** FRAME TO BE INSTALLED INTO MASONRY CONSTRUCTION (BRICK CONCRETE BLOCK) WITH A ONE-HOUR MINIMUM FIRE RATING USING MASONRY TYPE ANCHORS.

+BEARING THE UL LISTING MARK.

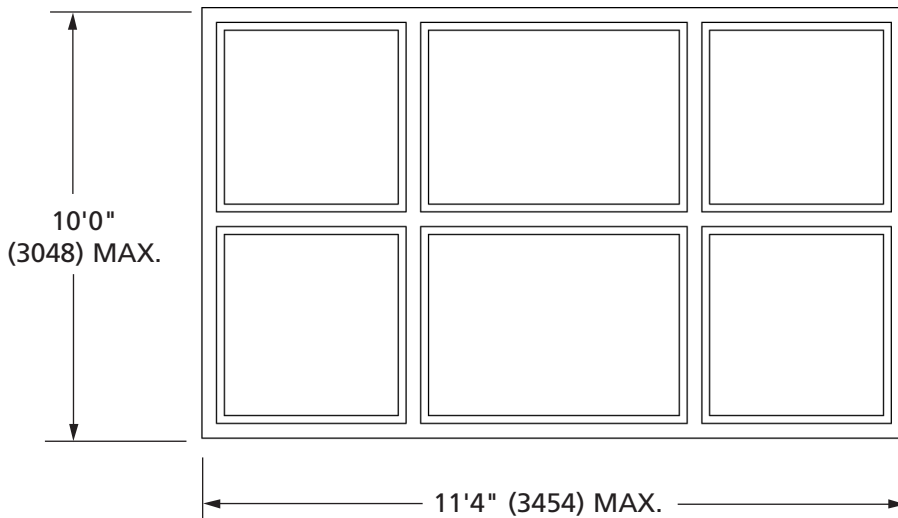
*BEARING THE UL CLASSIFICATION MARK.

LABEL DOORS AND FRAMES

July 1, 2003

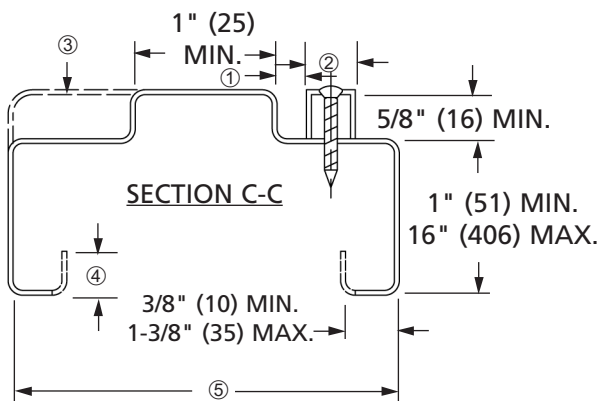
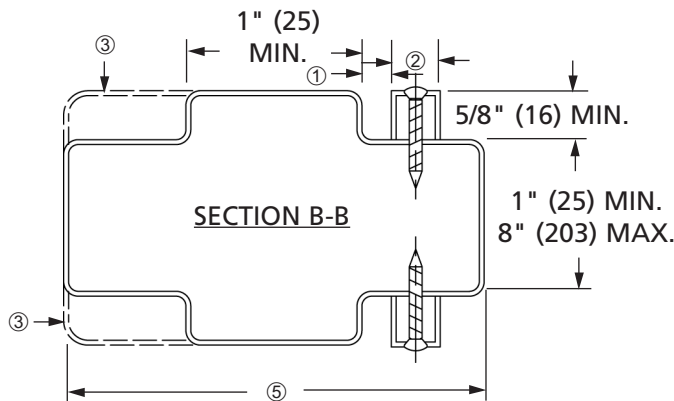
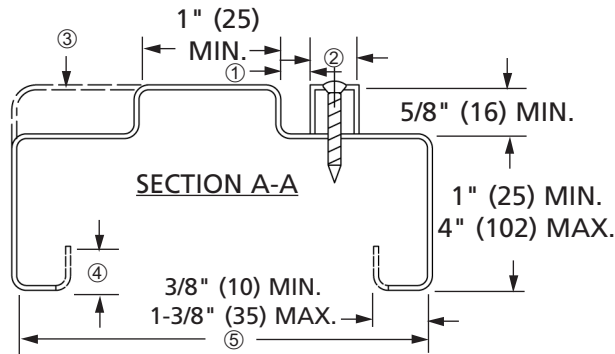
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**90 MINUTE MAXIMUM RATING
DRYWALL WALLS WITH NONCOMBUSTIBLE SILL
NEUTRAL OR POSITIVE PRESSURE
ELEVATION/SECTIONS DETAIL**



GENERAL NOTES:

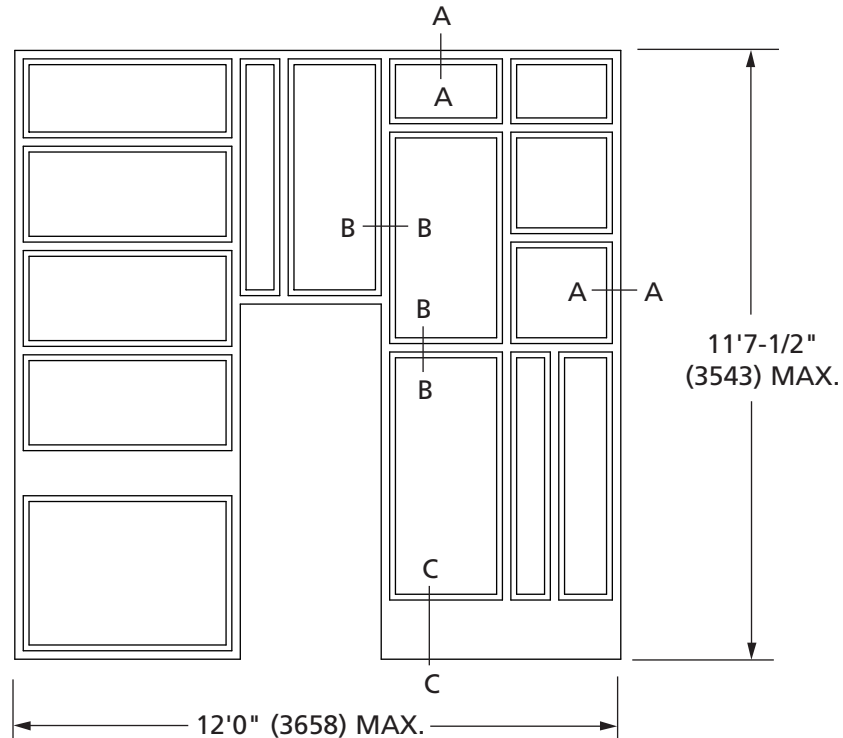
- ① 3/8" (10) MIN. GLASS POCKET
- ② 5/8" (16) MIN.
- ③ VARIABLE PROFILE
- ④ 3/8" (10) MIN.
3/4" (19) MAX.
- ⑤ 4-1/2" (114) MIN.
14" (356) MAX.



**90 MINUTE MAXIMUM RATING
NEUTRAL OR POSITIVE PRESSURE SPECIFICATIONS**

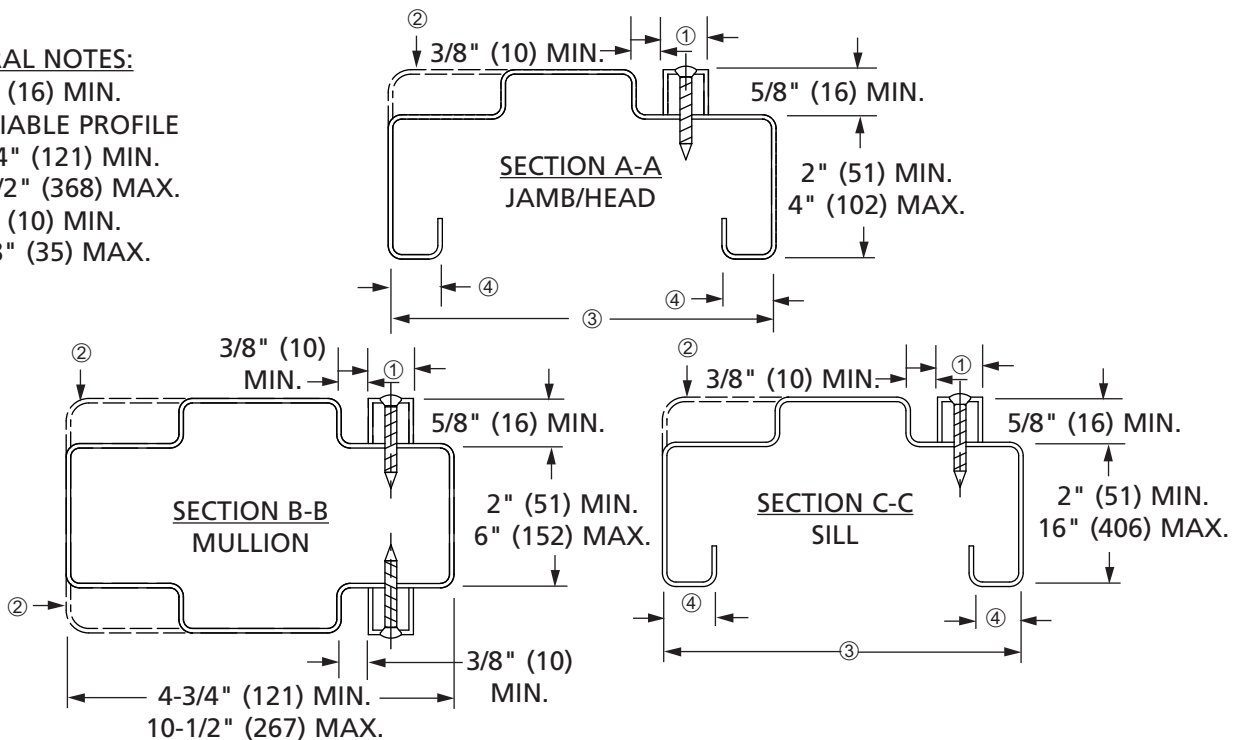
OVERALL FRAME SIZE:	11'4" (3454) W X 10'0" (3048) H; FOR USE IN DRYWALL WALLS WITH A NON-COMBUSTIBLE MASONRY OR CONCRETE SILL.
GLAZING REQUIREMENTS:	SEE FRAME GLAZING CHARTS FOR GLAZING OPTIONS INCLUDING MAXIMUM HOURLY RATINGS. MAXIMUM VISIBLE AREA, MAXIMUM HEIGHT AND WIDTH, MINIMUM STOP HEIGHT, AND GLASS POCKET WIDTH FOR EACH GLAZING OPTION IS LISTED IN THE CHART. LISTED GLAZING COMPOUND, 100% SILICONE, OR CLOSED CELL FOAM TAPE MAY BE USED. SEE GLAZING MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR OPTIONS.
WALL CONSTRUCTION:	DRYWALL WITH NON-COMBUSTIBLE SILL
FRAME CONSTRUCTION:	FACE OR CONTINUOUS WELDS
MATERIAL:	COLD ROLLED AND GALVANIZED STEEL 16 GA. (1.5) MINIMUM TO 12 GA. (2.6) MAXIMUM
ANCHORS:	ANY LISTED WELD-IN OR SLIP-IN TYPE DRYWALL ANCHORS MAY BE USED IN THIS FRAME.
NOTES:	1) GLASS STOP SCREW SPACING; NO. 8 OVAL HEAD SHEET METAL SCREWS SPACED 2" (51) FROM EACH END AND 6" (152) ON CENTER 2) THE CONFIGURATION OF GLASS LIGHT AREAS MAY VARY. 3) THIS FRAME MAY BE PROVIDED WITH A SCREW APPLIED FIELD SPLICE FOR CONNECTION AT THE JOB SITE. 4) GLASS STOP EXTENDERS MAY BE USED WITH THIS FRAME. 5) ASSEMBLY HAS NO TEMPERATURE RISE RATING.

**45 MINUTE MAXIMUM RATING IN DRYWALL WALLS
NEUTRAL OR POSITIVE PRESSURE
ELEVATION DETAILS**



GENERAL NOTES:

- ① 5/8" (16) MIN.
- ② VARIABLE PROFILE
- ③ 4-3/4" (121) MIN.
14-1/2" (368) MAX.
- ④ 3/8" (10) MIN.
1-3/8" (35) MAX.



**45 MINUTE MAXIMUM RATING
NEUTRAL OR POSITIVE PRESSURE SPECIFICATIONS**

MAXIMUM FRAME SIZE:	12'0" (3658) W X 11'7-1/2" (3543) H
MAXIMUM DOOR SIZE:	SINGLE — 4'0" (1219) X 10'0" (3048) PAIR — 8'0" (2438) X 10'0" (3048)
MAX. GLASS AREA:	FOR LISTED 1/4" WIRED GLASS 5/8" (16) H X 5/8" (16) W MINIMUM STOP; MAXIMUM W OR H SHALL BE 54" (1372) NOT TO EXCEED 1296 (836127) SQUARE INCHES OF VISIBLE GLASS. MUST USE LISTED GLAZING COMPOUND OR 100% SILICON. FOR PEMKO FG3000 WITH 1/4" WIRED PILKINGTON GLASS: 5/8" (16) H 5/8" (16) W MINIMUM STOP; MAXIMUM W OR H SHALL BE 106" (2692) NOT TO EXCEED 4704 SQ. IN. SEE <i>FRAME GLAZING CHARTS</i> FOR ADDITIONAL GLAZING OPTIONS.
WALL CONSTRUCTION:	DRYWALL ONLY.
FRAME CONSTRUCTION:	FACE OR CONTINUOUS WELDS
MATERIAL:	COLD ROLLED AND GALVANIZED STEEL 16 GA. (1.5) MINIMUM TO 12 GA. (2.6) MAXIMUM
ANCHORS:	ANY LISTED WELD-IN OR SLIP-IN TYPE DRYWALL ANCHORS MAY BE USED IN THIS FRAME.
NOTES:	1) THE CONFIGURATION OF THE TRANSOM AND SIDE AREAS MAY VARY. 2) THIS FRAME MAY BE PROVIDED WITH A SCREW APPLIED FIELD SPLICE FOR CONNECTION AT THE JOB SITE. 3) GLASS STOP SCREW SPACING IS 2" (51) FROM EACH END AND 6" (152) ON CENTER.

46 Transom / Sidelight Frame LABEL DOORS AND FRAMES

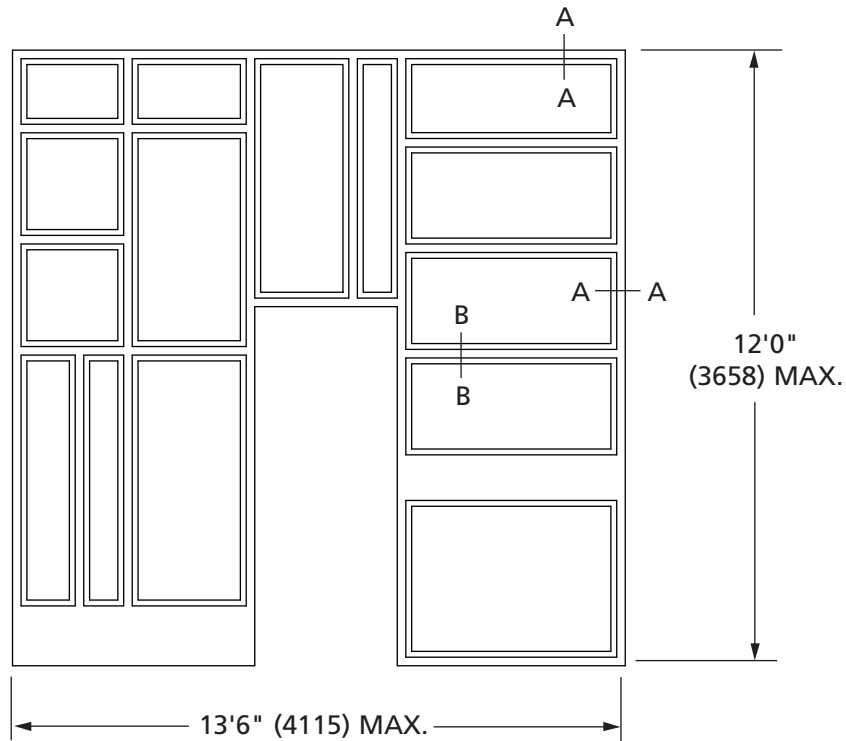
April 1, 2002



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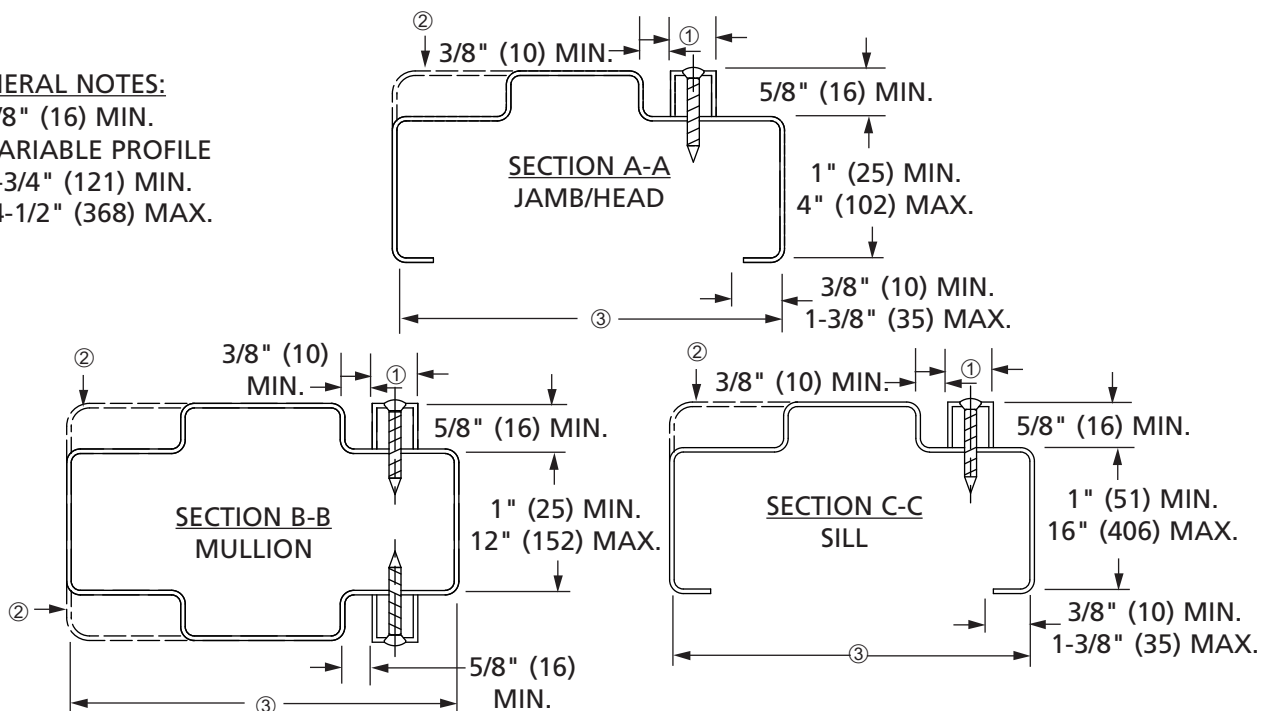
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45 MINUTE MAXIMUM RATING IN MASONRY WALLS NEUTRAL OR POSITIVE PRESSURE ELEVATION DETAILS



GENERAL NOTES:

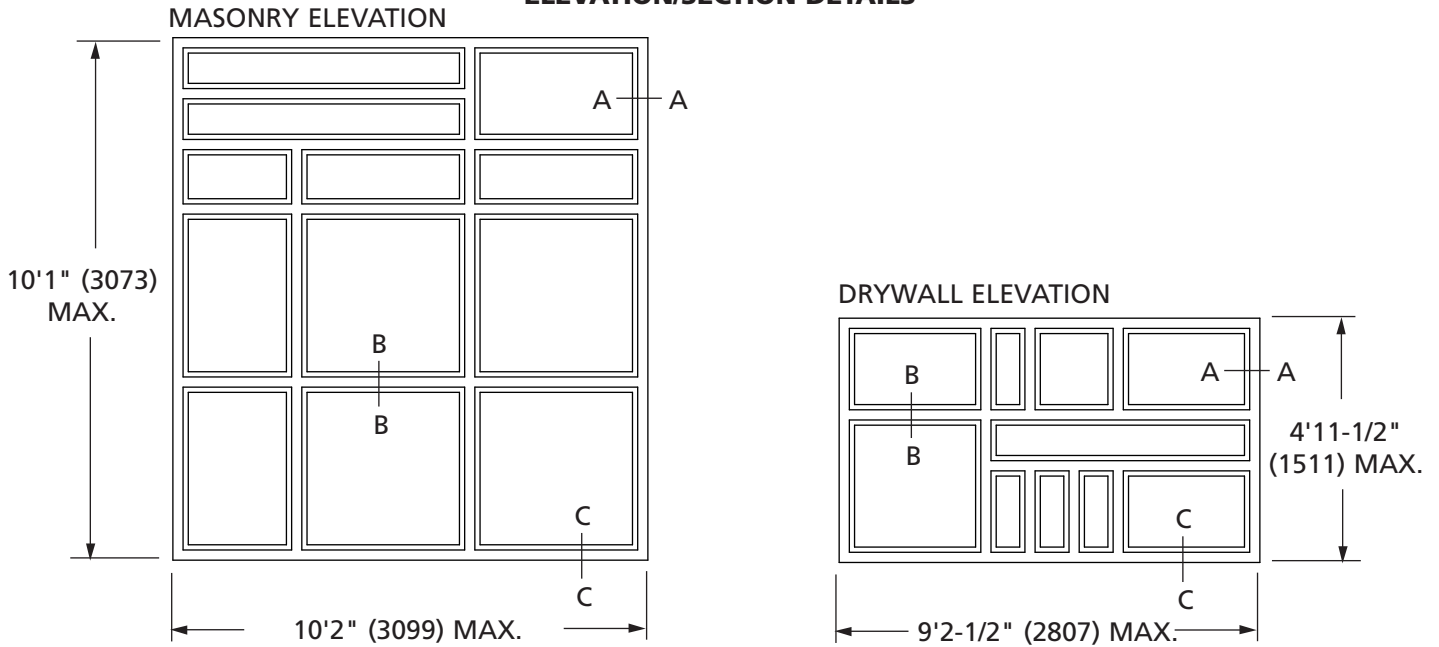
- ① 5/8" (16) MIN.
- ② VARIABLE PROFILE
- ③ 4-3/4" (121) MIN.
14-1/2" (368) MAX.



**45 MINUTE MAXIMUM RATING
NEUTRAL OR POSITIVE PRESSURE SPECIFICATIONS**

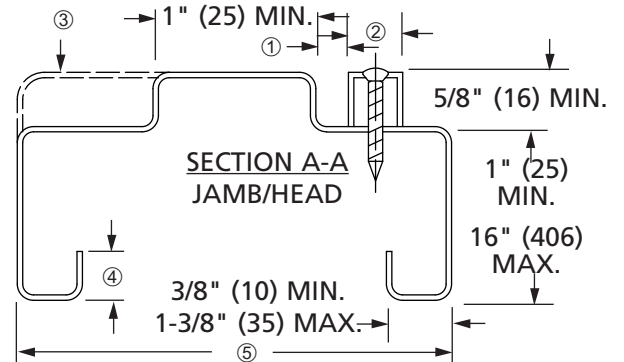
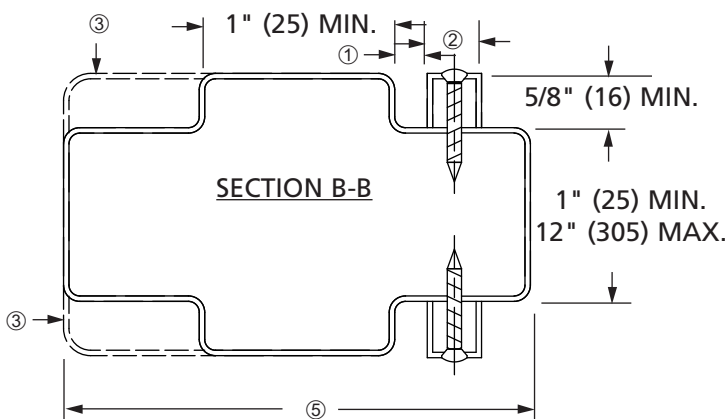
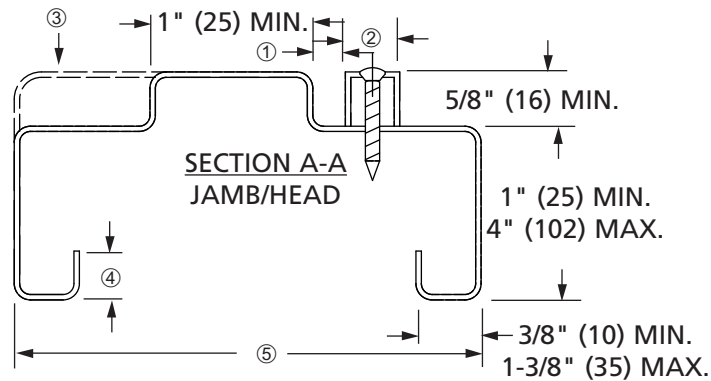
MAXIMUM FRAME SIZE:	13'6" (4115) W X 12'0" (3658) H
MAXIMUM DOOR SIZE:	SINGLE — 4'0" (1219) X 10'0" (3048) PAIR — 8'0" (2438) X 10'0" (3048)
MAX. GLASS AREA:	FOR LISTED 1/4" WIRED GLASS 5/8" (16) H X 5/8" (16) W MINIMUM STOP; MAXIMUM W OR H SHALL BE 54" (1372) NOT TO EXCEED 1296 (836127) SQUARE INCHES OF VISIBLE GLASS. MUST USE LISTED GLAZING COMPOUND OR 100% SILICON. FOR PEMKO FG3000 WITH 1/4" WIRED PILKINGTON GLASS: 5/8" (16) H 5/8" (16) W MINIMUM STOP; MAXIMUM W OR H SHALL BE 106" (2692) NOT TO EXCEED 4704 SQ. IN. SEE <i>FRAME GLAZING CHARTS</i> FOR ADDITIONAL GLAZING DETAILS.
WALL CONSTRUCTION:	MASONRY ONLY.
FRAME CONSTRUCTION:	FACE OR CONTINUOUS WELDS
MATERIAL:	COLD ROLLED AND GALVANIZED STEEL 16 GA. (1.5) MINIMUM TO 12 GA. (2.6) MAXIMUM
ANCHORS:	ANY LISTED WELD-IN OR SLIP-IN TYPE DRYWALL ANCHORS MAY BE USED IN THIS FRAME.
NOTES:	1) THE CONFIGURATION OF THE TRANSOM AND SIDE AREAS MAY VARY. 2) THIS FRAME MAY BE PROVIDED WITH A SCREW APPLIED FIELD SPLICE FOR CONNECTION AT THE JOB SITE. 3) GLASS STOP SCREW SPACING IS 2" (51) FROM EACH END AND 6" (152) ON CENTER.

**60 MINUTE MAXIMUM RATING
NEUTRAL OR POSITIVE PRESSURE
ELEVATION/SECTION DETAILS**



GENERAL NOTES:

- ① 3/8" (10) MIN. GLASS POCKET
- ② 5/8" (16) MIN.
- ③ VARIABLE PROFILE
- ④ 3/8" (10) MIN.
3/4" (19) MAX.
- ⑤ 4-7/8" (124) MIN.
14" (356) MAX.



**60 MINUTE MAXIMUM RATING
NEUTRAL OR POSITIVE PRESSURE SPECIFICATIONS**

OVERALL FRAME SIZE:	A) 10'2" (3099) W X 10'1" (3073) H; FOR USE IN EITHER MASONRY WALLS OR DRYWALL WALLS WITH A NON-COMBUSTIBLE SILL. B) 9'2-1/2" (2807) W X 4'11-1/2" (1511) H; FOR USE IN EITHER MASONRY WALLS OR DRYWALL WALLS WITH A DRYWALL SILL.
MAX. GLASS AREAS:	5/8" (16) H X 5/8" (16) W GLASS STOP; MAX. WIDTH: 54" (1372); MAX. HEIGHT: 77-3/4" (1975) 2721 SQ. INCHES (1755480) OF VISIBLE GLASS. - GLAZING MATERIAL: 3/16" (5) THICK "FIRELITE" OR 5/16" (8) THICK "FIRELITE PLUS" GLASS ONLY! - GLAZING COMPOUNDS: 100% SILICON, DAP "33", OR METACAUULK 990.
WALL CONSTRUCTION:	DRYWALL OR MASONRY
FRAME CONSTRUCTION:	WELDED JOINTS ONLY!
MATERIAL:	COLD ROLLED AND GALVANIZED STEEL 16 GA. (1.5) MINIMUM TO 14 GA. (1.9) MAXIMUM
ANCHORS:	ANY LISTED WELD-IN OR SLIP-IN TYPE DRYWALL OR MASONRY ANCHOR MAY BE USED WITH THIS FRAME.
NOTES:	1) IF FIRE WINDOW FRAME IS INSTALLED OVER DRYWALL SILL, A SUITABLE ANCHOR MUST BE USED IN THE SILL MEMBER FOR EACH 30" (762) OF SILL LENGTH OR FRACTION THEREOF. 2) GLASS STOP SCREW SPACING: NO. 8 SHEET METAL SCREWS SPACED 2" (51) FROM EACH END AND 6" (152) ON CENTER.

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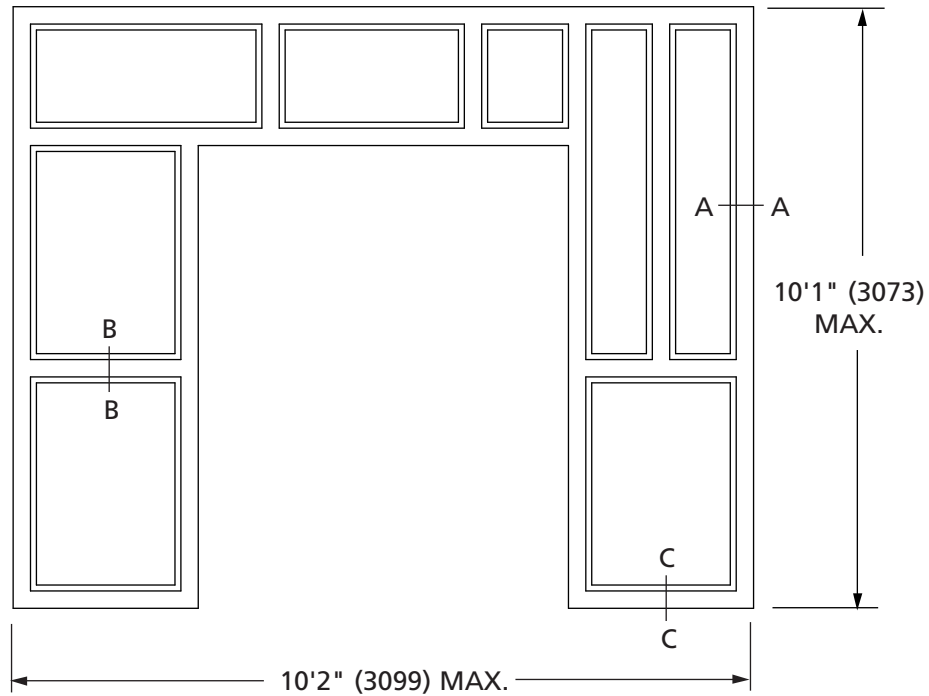
April 1, 2002



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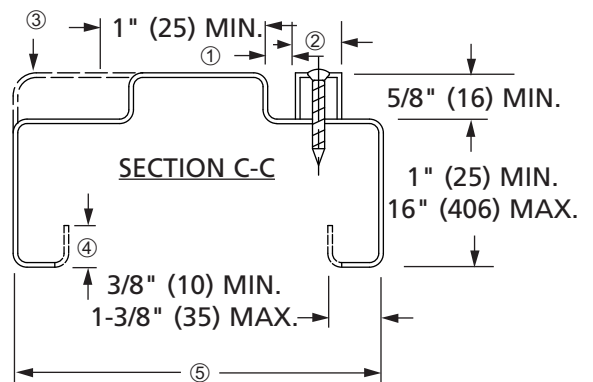
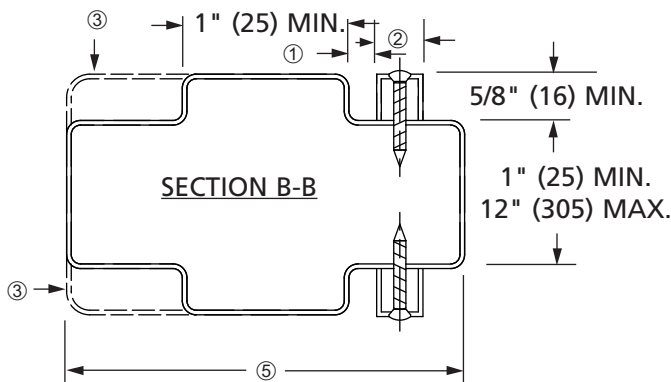
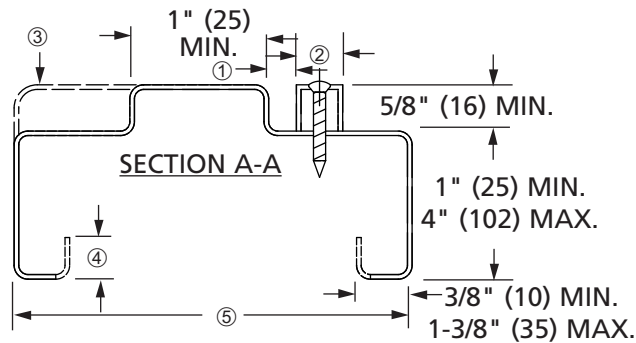
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60 MINUTE MAXIMUM RATING NEUTRAL OR POSITIVE PRESSURE ELEVATION DETAILS



GENERAL NOTES:

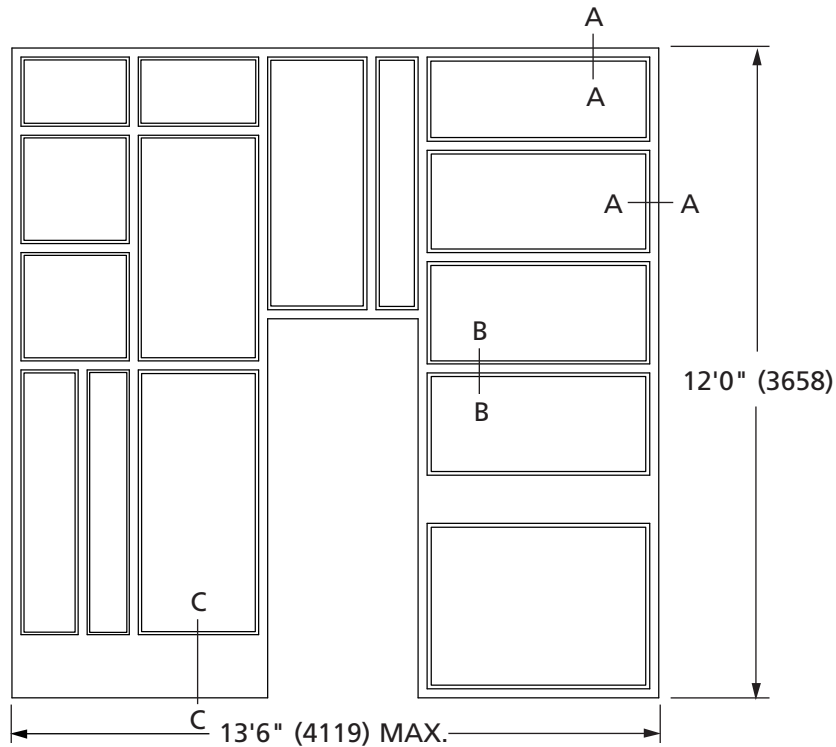
- ① 3/8" (10) MIN. GLASS POCKET
- ② 5/8" (16) MIN.
- ③ VARIABLE PROFILE
- ④ 3/8" (10) MIN.
3/4" (19) MAX.
- ⑤ 4-7/8" (124) MIN.
14" (356) MAX.



**60 MINUTE MAXIMUM RATING
NEUTRAL OR POSITIVE PRESSURE SPECIFICATIONS**

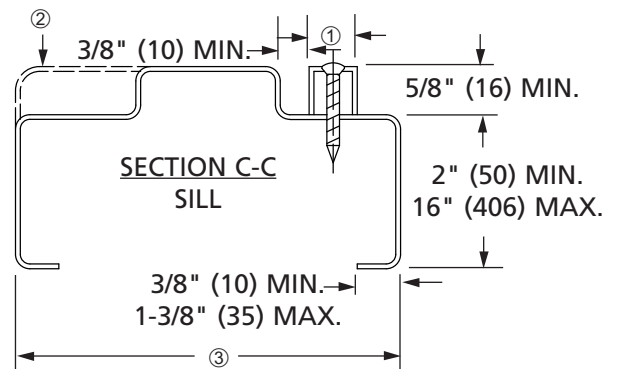
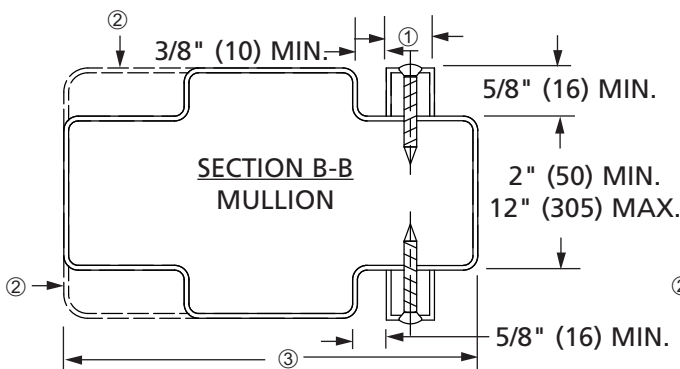
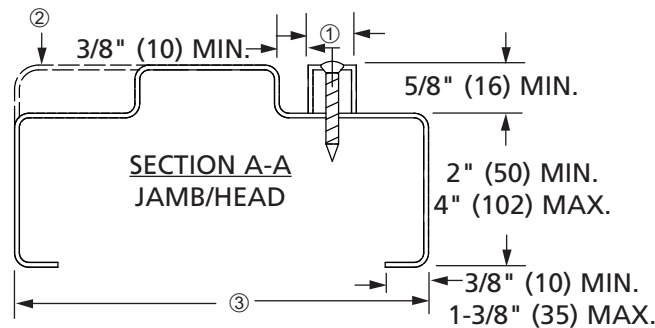
MAXIMUM FRAME SIZE:	10'2" (3099) W X 10'1" (3073) H
MAXIMUM DOOR SIZE:	SINGLE — 4'0" (1219) W X 10'0" (3048) H PAIR — 8'0" (2438) W X 10'0" (3048) H
MAX. GLASS AREAS: ** SEE NOTES 1 & 2	5/8" (16) H X 5/8" (16) W GLASS STOP; MAX. WIDTH IS 77-3/4" (1975) MAX. HEIGHT: 77-3/4" (1975) NOT TO EXCEED 2721 SQ. INCHES (1755480) OF VISIBLE GLASS.
WALL CONSTRUCTION:	DRYWALL OR MASONRY
FRAME CONSTRUCTION:	FACE OR CONTINUOUS WELDS.
MATERIAL:	COLD ROLLED AND GALVANIZED STEEL 16 GA. (1.5) MINIMUM TO 12 GA. (2.6) MAXIMUM
ANCHORS:	ANY LISTED WELD-IN OR SLIP-IN TYPE DRYWALL OR MASONRY ANCHOR MAY BE USED WITH THIS FRAME.
NOTES:	1) GLAZING MATERIAL SHALL BE "FIRELITE" GLASS ONLY. 2) GLAZING COMPOUNDS ARE EITHER 100% SILICON, DAP, "33", OR METACAULK 990. 3) IF SIDELIGHT IS INSTALLED OVER DRYWALL SILL, A SUITABLE ANCHOR MUST BE USED IN THE SILL MEMBER FOR EACH 30 INCHES (762) OF SILL LENGTH OR FRACTION THEREOF. 4) GLASS STOP SCREW SPACING: NO. 8 SHEET METAL SCREWS SPACED 2" (51) FROM EACH END AND 6" (152) ON CENTER.

**90 MINUTE MAXIMUM RATING IN MASONRY WALL
NEUTRAL OR POSITIVE PRESSURE
ELEVATION/SECTION DETAILS**



GENERAL NOTES:

- ① 5/8" (16) MIN.
- ② VARIABLE PROFILE
- ③ 4-3/4" (121) MIN.
14-1/2" (368) MAX.



**90 MINUTE MAXIMUM RATING
NEUTRAL OR POSITIVE PRESSURE SPECIFICATIONS**

MAXIMUM FRAME SIZE:	13'6" (4013) W X 12'0" (3632) H
MAXIMUM DOOR SIZE:	SINGLE — 4'0" (1219) W X 10'0" (3048) H PAIR — 8'0" (2438) W X 10'0" (3048) H
GLAZING REQUIREMENTS:	SEE <i>FRAME GLAZING CHARTS</i> FOR GLAZING OPTIONS INCLUDING MAXIMUM HOURLY RATINGS. MAXIMUM VISIBLE AREA, MAXIMUM HEIGHT AND WIDTH, MINIMUM STOP HEIGHT, AND GLASS POCKET WIDTH FOR EACH GLAZING OPTION IS LISTED IN THE CHART. LISTED GLAZING COMPOUND, 100% SILICONE, OR CLOSED CELL FOAM TAPE MAY BE USED. SEE GLAZING MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR OPTIONS.
WALL CONSTRUCTION:	MASONRY ONLY
FRAME CONSTRUCTION:	FACE OR CONTINUOUS WELDS.
MATERIAL:	COLD ROLLED AND GALVANIZED STEEL 16 GA. (1.5) MINIMUM TO 12 GA. (2.6) MAXIMUM
ANCHORS:	ANY LISTED WELD-IN OR SLIP-IN TYPE DRYWALL OR MASONRY ANCHOR MAY BE USED WITH THIS FRAME.

MAXIMUM PANEL DIMENSIONS**TRANSOM PANEL:**

1-3/4" (44) THICK HOLLOW METAL TRANSOM PANEL
NO GREATER THAN 96" (2438) W X 48" (1219) H
1/2" (13) THICK SOLID PANEL THAT SHALL BE
NO GREATER THAN 96" (2438) W X 48" (1272) H
ANY LISTED MANUFACTURER'S WOOD PANEL

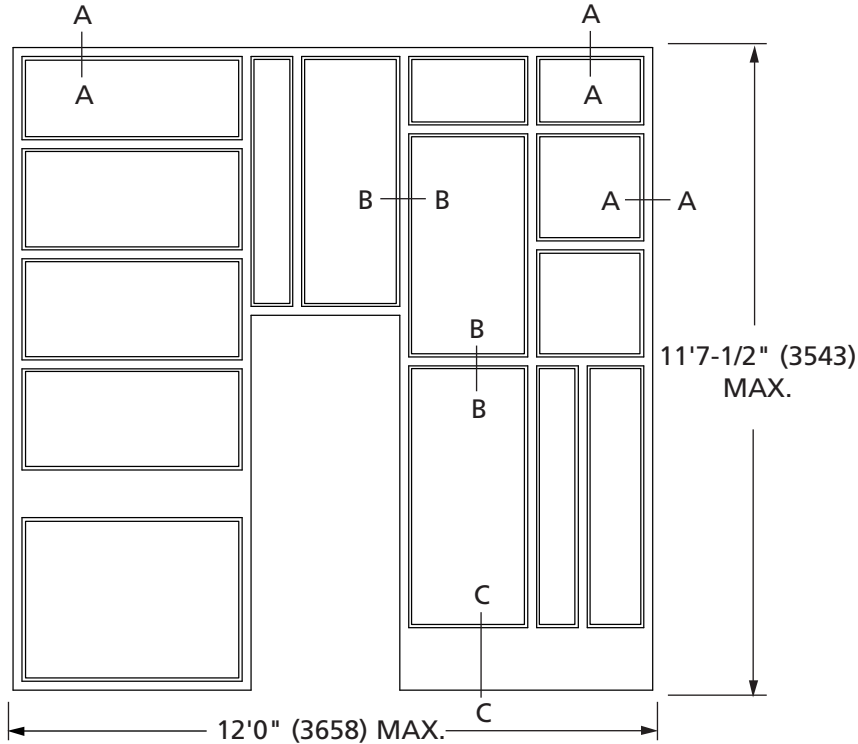
SIDE PANELS:

1-3/4" (44) THICK HOLLOW METAL THAT SHALL BE
NO GREATER THAN 54" (1372) W X 54" (1372) H MAX
NOT TO EXCEED 1296 (836127) SQ. IN.
1/2" (13) THICK SOLID PANEL THAT SHALL BE
NO GREATER THAN 54" (1372) W X 54" (1372) H MAX
NOT TO EXCEED 1296 (836127) SQ. IN.

NOTES:

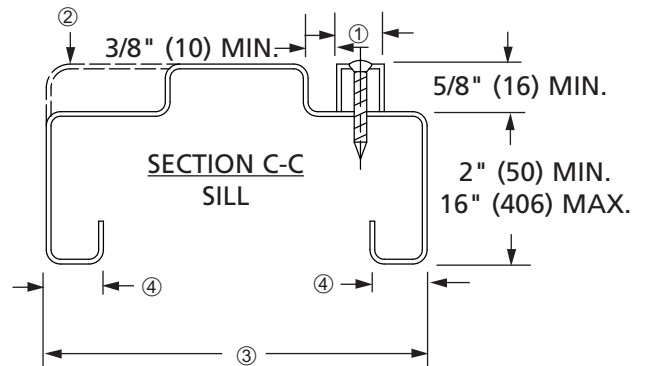
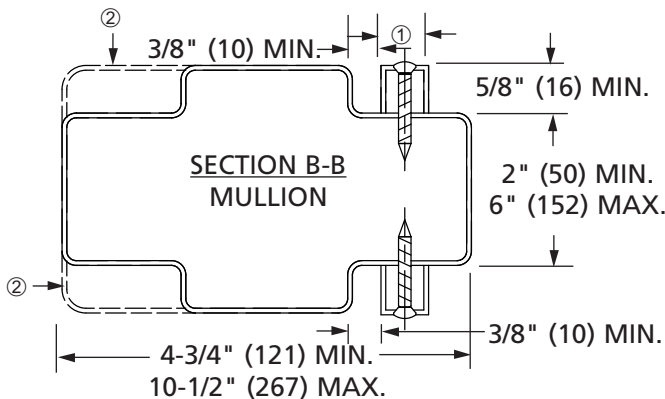
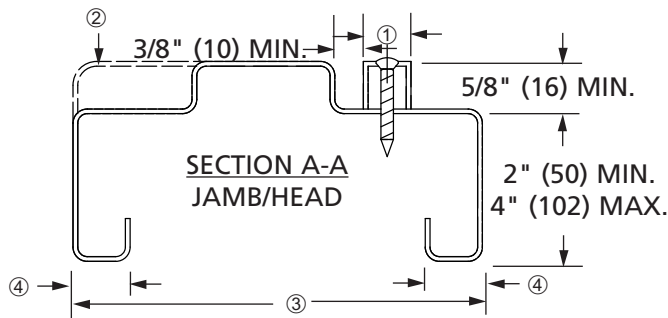
- 1) THE CONFIGURATION OF THE TRANSOM AND SIDE AREAS MAY VARY.
- 2) THIS FRAME MAY BE PROVIDED WITH A SCREW APPLIED FIELD SPLICE FOR CONNECTION AT THE JOB SITE.
- 3) GLASS STOP SCREW SPACING: NO. 8 OVAL HEAD SHEET METAL SCREW 2" (50) FROM EACH END AND 6" (152) ON CENTER MAX.
- 4) STOP EXTENDERS MAY BE USED WITH THIS FRAME.
- 5) ASSEMBLY HAS NO TEMPERATURE RISE RATING.

**90 MINUTE MAXIMUM RATING IN DRYWALL WALLS
NEUTRAL OR POSITIVE PRESSURE
ELEVATION/SECTION DETAIL**



GENERAL NOTES:

- ① 5/8" (16) MIN.
- ② VARIABLE PROFILE
- ③ 4-3/4" (121) MIN.
14-1/2" (368) MAX.
- ④ 3/8" (10) MIN.
1-3/8" (35) MAX.



**90 MINUTE MAXIMUM RATING
NEUTRAL OR POSITIVE PRESSURE SPECIFICATIONS**

MAXIMUM FRAME SIZE:	12'0" (3658) W X 11'7-1/2" (3543) H
MAXIMUM DOOR SIZE:	SINGLE — 4'0" (1219) W X 10'0" (3048) H PAIR — 8'0" (2438) W X 10'0" (3048) H
GLAZING REQUIREMENTS:	SEE FRAME GLAZING CHARTS FOR GLAZING OPTIONS INCLUDING MAXIMUM HOURLY RATINGS. MAXIMUM VISIBLE AREA, MAXIMUM HEIGHT AND WIDTH, MINIMUM STOP HEIGHT, AND GLASS POCKET WIDTH FOR EACH GLAZING OPTION IS LISTED IN THE CHART. LISTED GLAZING COMPOUND, 100% SILICONE, OR CLOSED CELL FOAM TAPE MAY BE USED. SEE GLAZING MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR OTHER OPTIONS.
WALL CONSTRUCTION:	DRYWALL ONLY
FRAME CONSTRUCTION:	FACE OR CONTINUOUS WELDS.
MATERIAL:	COLD ROLLED AND GALVANIZED STEEL 16 GA. (1.5) MINIMUM TO 12 GA. (2.6) MAXIMUM
ANCHORS:	ANY LISTED WELD-IN OR SLIP-IN TYPE DRYWALL OR MASONRY ANCHOR MAY BE USED WITH THIS FRAME.
<u>MAXIMUM PANEL DIMENSIONS</u>	
<u>TRANSOM PANEL:</u>	1-3/4" (44) THICK HOLLOW METAL TRANSOM PANEL NO GREATER THAN 96" (2438) W X 48" (1219) H 1/2" (13) THICK SOLID PANEL THAT SHALL BE NO GREATER THAN 96" (2438) W X 48" (1272) H ANY LISTED MANUFACTURER'S WOOD PANEL
SIDE PANELS:	1-3/4" (44) THICK HOLLOW METAL THAT SHALL BE NO GREATER THAN 54" (1372) W X 54" (1372) H MAX NOT TO EXCEED 1296 (836127) SQ. IN. 1/2" (13) THICK SOLID PANEL THAT SHALL BE NO GREATER THAN 54" (1372) W X 54" (1372) H MAX NOT TO EXCEED 1296 (836127) SQ. IN.
NOTES:	1) THIS FRAME MAY BE PROVIDED WITH A SCREW APPLIED FIELD SPLICE FOR CONNECTION AT THE JOB SITE. 2) CONFIGURATION OF THE PANEL AREAS MAY VARY. 3) GLASS STOP SCREW SPACING: NO. 8 OVAL HEAD SHEET METAL SCREW 2" (51) FROM EACH END AND 6" (152) ON CENTER MAX. 4) GLASS STOP EXTENDER MAY BE USED WITH THIS FRAME. 5) ASSEMBLY HAS NO TEMPERATURE RISE RATING.

56 Four Sided Fire Door Frame LABEL DOORS AND FRAMES

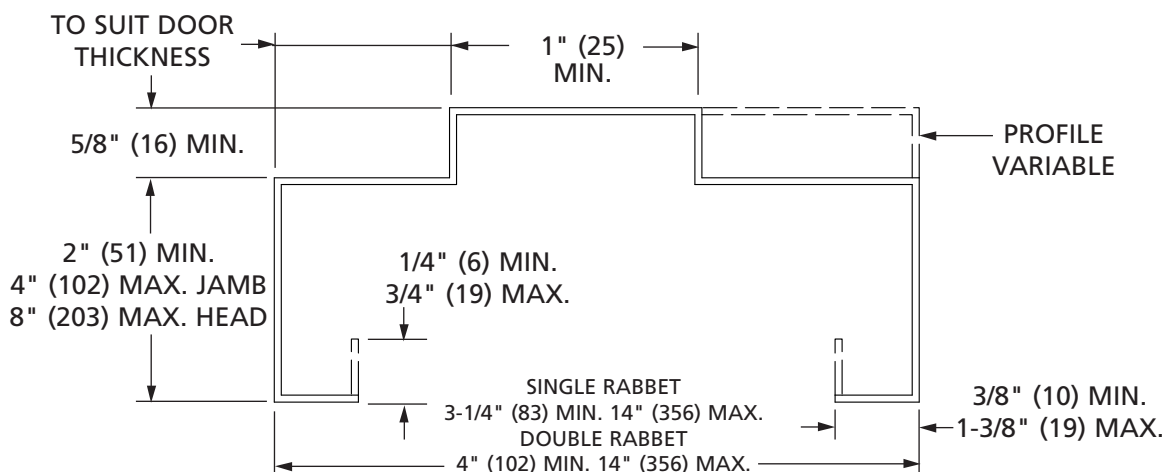
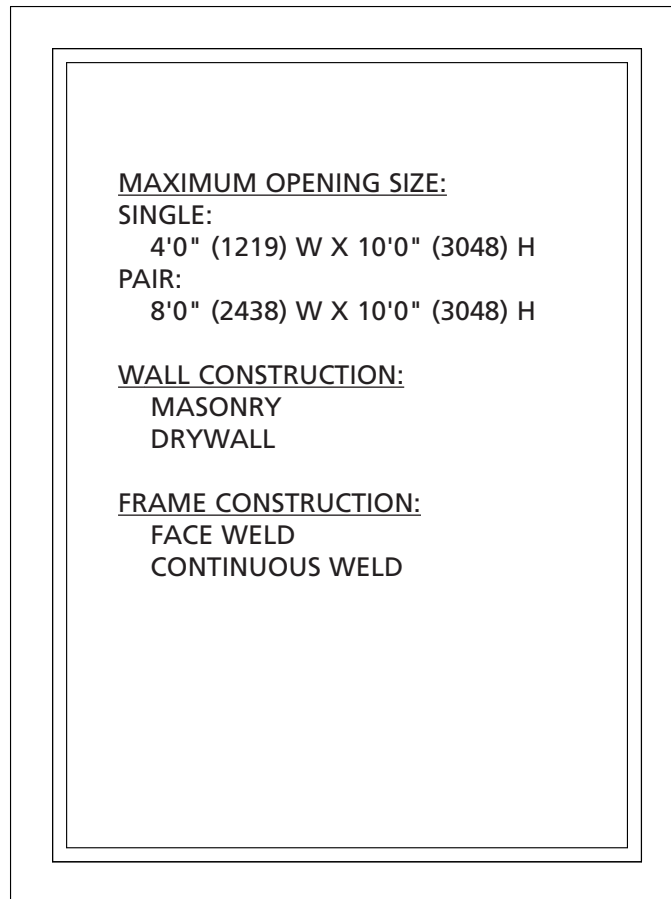
April 1, 2002

CURRIES

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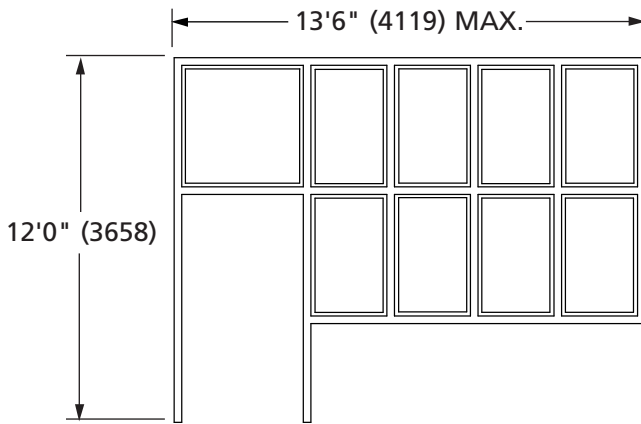
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**180 MINUTE MAXIMUM RATING - MASONRY WALLS
90 MINUTE MAXIMUM RATING - DRYWALL WALLS
NEUTRAL AND POSITIVE PRESSURE**



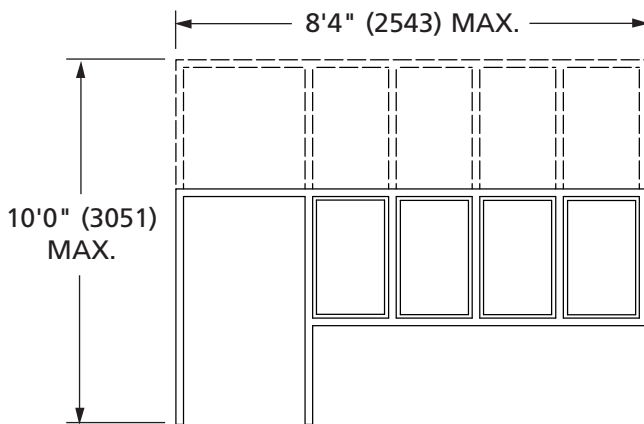
- NOTES:
- 1) FOR OPENINGS OVER 48" (1219) WIDE THE SILL MUST BE FITTED WITH A MULLION BASE ANCHOR AT ITS MIDPOINT.
 - 2) FOR USE WITH DOORS ONLY.
 - 3) 3-1/4" (83) TO 4" (102) JAMB DEPTH 1-3/8" (35) DOOR ONLY.
 - 4) ANY LISTED WELD IN OR SLIP-IN MASONRY OR DRYWALL ANCHOR MAY BE USED IN THIS FRAME. (COMPRESSION ANCHOR NOT ALLOWED)

60 MINUTE MAXIMUM RATING



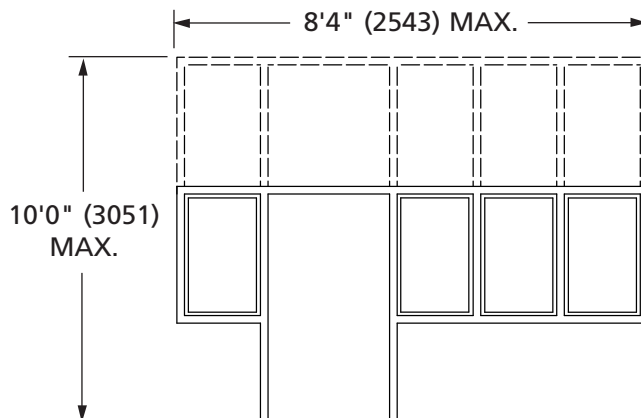
NOTES:

- 1) CONFIGURATION OF TRANSOM AREAS AND SIDE AREAS MAY BE VARIED.
- 2) ANY SIZE OF LABELED SINGLE SWING OR PAIR OF DOORS MAY BE USED.
- 3) SEE TRANSOM/SIDELIGHT FRAME FOR MAXIMUM GLASS SIZE.



NOTES:

- 1) CONFIGURATION MAY VARY BUT MAY NOT EXCEED OVERALL SIZE SHOWN.
- 2) OBSERVE SIZE RESTRICTIONS FOR INDIVIDUAL GLASS OR PANEL OPENINGS.
- 3) TRANSOM AREAS MAY BE INCLUDED.
- 4) HORIZONTAL SILL MUST BE EQUIPPED WITH A DRYWALL ANCHOR FOR EACH 30" (762) OF LENGTH OR FRACTION THEREOF.



- 5) ANY SIZE OF LABELED SINGLE SWING OR PAIR OF DOORS MAY BE USED.
- 6) SEE TRANSOM/SIDELIGHT FRAME FOR MAXIMUM GLASS SIZE.

LABEL DOORS AND FRAMES

April 1, 2002

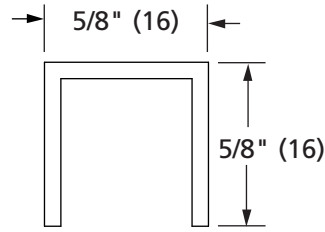


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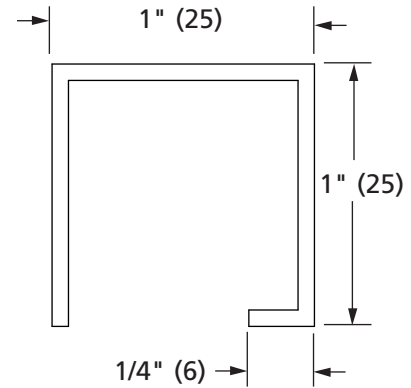
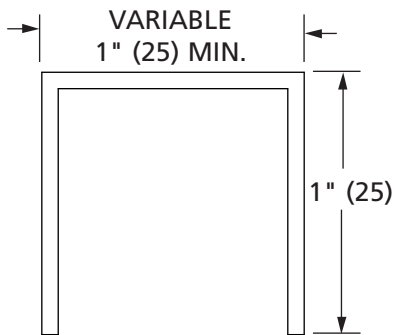
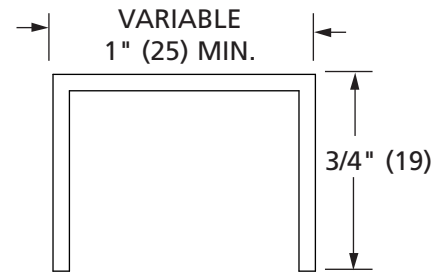
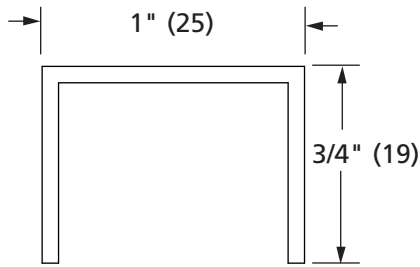
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Fire Door, Transom/Sidelight, and Window Frame Stops LABEL DOORS AND FRAMES

April 1, 2002

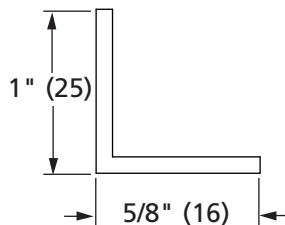


16 GA. (1.5) MIN.
R.K., OR S.S.



NOTE: SCREW SPACING: #8 OVAL HEAD SHEET METAL SCREWS 2" (51) FROM EACH
END AND 6" (152) ON CENTER MAX.

14 GA. (1.9) MIN.
R.K., OR S.S.

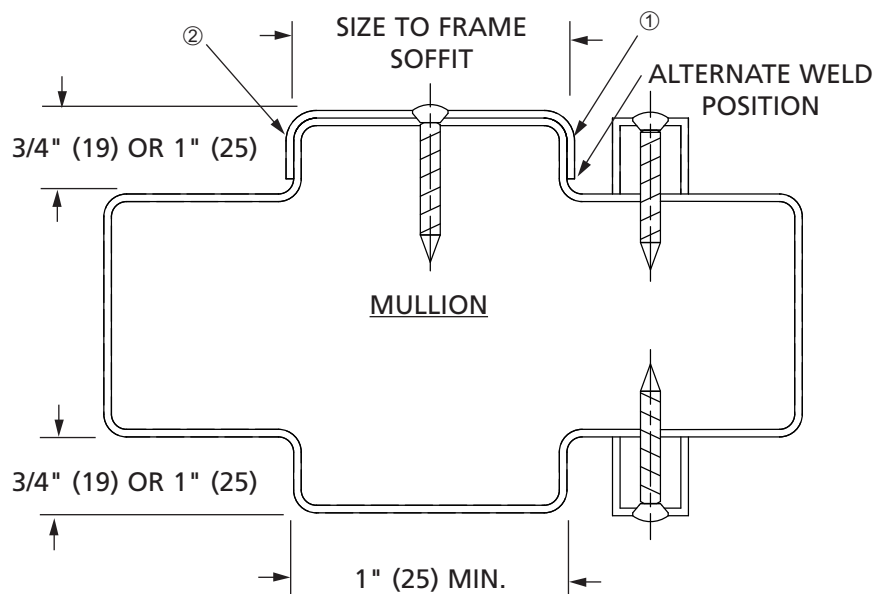
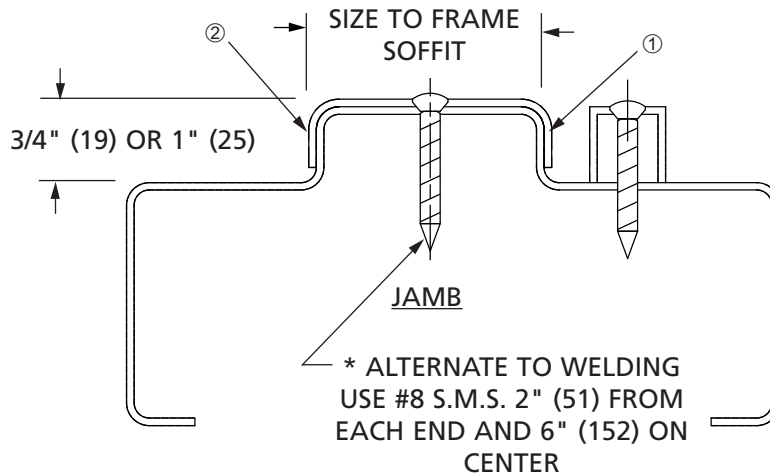


MINIMUM #8 MACHINE OR SELF
DRILLING SCREW.

LABEL DOORS AND FRAMES

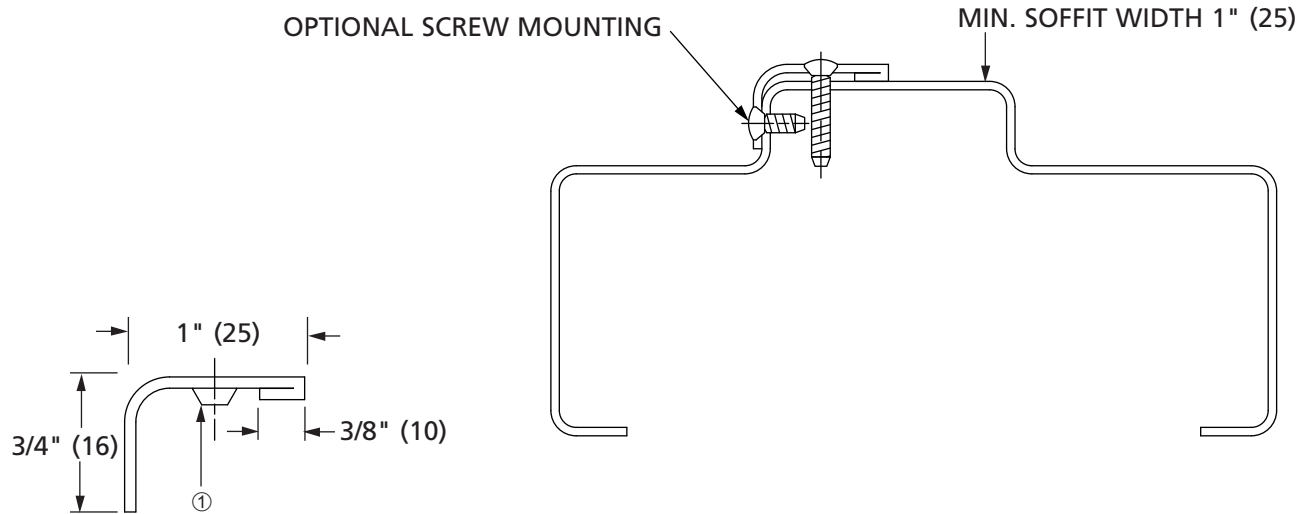
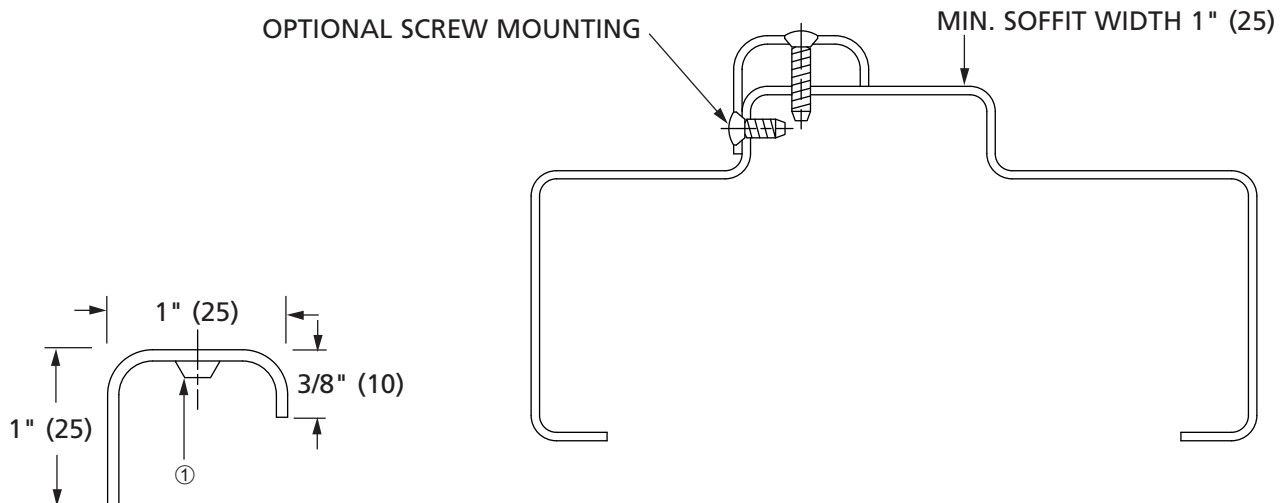
April 1, 2002

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GENERAL NOTES:

- ① WELDS 2" (51) FROM ENDS AND 12" (305) ON CENTERS
- ② 16 GA. (1.5) STEEL STOP EXTENSION

**STOP HEIGHT EXTENDER 5/8" (16) TO 3/4" (19)
MAT'L 16 GA. (1.5) STEEL****STOP HEIGHT EXTENDER 5/8" (16) TO 3/4" (19)****GENERAL NOTES:**

- ① OPTIONAL PUNCH AND COUNTERSINK FOR #8 OVAL HEAD S.M.S. 2" (51) FROM EACH END AND 6" (152) ON CENTER MAX.
- 2) MAY BE USED ON JAMB OR MULLION FRAME MEMBERS.
- 3) MATERIAL 16 GA. (1.5) STEEL AVAILABLE IN 60" (1524) LENGTHS MAX.

LABEL DOORS AND FRAMES

September, 2003

ASSA ABLOY, the global leader
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For use with CURRIES' Vision Light Frames

GLASS TYPE, BRAND OR DESCRIPTION	RATING	MAX EXPOSED AREA SQ. IN. (See Note 7)	MAX WIDTH INCHES (See Note 7)	MAX HEIGHT INCHES (See Note 7)	GLASS THICKNESS INCHES	MIN. STOP HEIGHT INCHES	MIN. POCKET WIDTH INCHES
Listed Wire Glass	20 min w/o hose	2294	35-13/16	83-5/8	1/4	5/8	3/8
Listed Wire Glass	20 and 45 minute	1296	54	54	1/4	5/8	3/8
Listed Wire Glass	90 minute	100 per leaf	12	33	1/4	5/8	3/8
Central/Asahi or Pilkington Wire glass with Pemko FG3000	20 and 45 minute	2856	34	84	1/4	5/8	7/16
Central/Asahi or Pilkington Wire glass with Pemko FG3000	90 minute	552 per lite 2204 per leaf	12	46	1/4	5/8	7/16
Fireglas 20 ⁸ (Technical Glass)	20 min w/o hose	3024	36	89	See Note 1	5/8	See Note 1
Firelite, Firelite Plus, Firelite NT, or Firelite IGU ⁸ (Technical Glass)	20 min w/o hose	3204	36	89	See Note 2	5/8	See Note 2
Firelite, Firelite Plus, Firelite NT, or Firelite IGU ⁸ (Technical Glass)	20 and 45 minute	3204	36	89	See Note 2	5/8	See Note 2
Firelite, Firelite Plus, Firelite NT, or Firelite IGU ⁸ (Technical Glass)	60 minute (See Note 6)	3204	36	89	See Note 2	5/8	See Note 2
Firelite, Firelite Plus, Firelite NT, or Firelite IGU ⁸ (Technical Glass)	90 minute (See Note 6)	1296 per leaf	36	54	See Note 2	5/8	See Note 2
Pyrostop ⁸ See Note 5	60 minutes	1080	36	36	1-1/16	5/8	1-3/16
Pyrostop ⁸ See Note 5	90 minutes	1080	36	36	1-9/16	5/8	1-11/16
Superlite 1-20 ⁸ (O'Keeffe's)	20 min w/o hose	2678 per leaf	34	77-7/8	See Note 3	5/8	See Note 3
Superlite 2-20 ⁸ (O'Keeffe's)	20 minute	2792 per leaf	35-15/16	77-11/16	11/16	1-1/8	1-3/8
Superlite 2- 45 ⁸ (O'Keeffe's)	45 minute	2880 per leaf	33-1/4	86-5/8	1-1/8	1-1/4	1-5/8
Pyro-Edge 20 ⁸ (Interedge Technologies)	20 min w/o hose	3698 per leaf	40-3/4	90-3/4	1/4	5/8	3/8

Note 1 Fireglas is available in 1/4", 3/8", 1/2", and 3/4" thickness. Pocket width is 1/8" greater than glass thickness

Note 2 Firelite and Firelite NT are 3/16" thick, 3/8" minimum pocket width;

Firelite Plus is 5/16" thick 1/2" minimum pocket width;

Firelite IGU is 1" thick, 1-1/8" minimum pocket width.

Note 3 Superlite 1 is available in 1/4", 3/8" and 1/2" in thickness. Pocket width is 1/4" greater than glass thickness

Note 4 All glass areas are per vision light, unless otherwise indicated. Multiple vision lights are allowed.

Note 5 Pyrostop may be used on CURRIES doors with 250 or 450 degree temperature rise ratings.

Note 6 Code requirements may limit use in 60 minute or greater durations. Use is subject to the approval of Authority Having Jurisdiction.

Note 7 Warnock Hersey limitations may be less than published dimensions.

Neutral Pressure Door Glazing Chart

LABEL DOORS AND FRAMES

September, 2003

For use with CURRIES Vision Light Frames

GLASS TYPE, BRAND OR DESCRIPTION	RATING	MAX EXPOSED AREA SQ. IN.	MAX WIDTH INCHES	MAX HEIGHT INCHES	GLASS THICKNESS INCHES	MIN. STOP HEIGHT INCHES	MIN. POCKET WIDTH INCHES
Inferno Lite FRP 100 (Globe Amerada) ²	45 minute	1296	42	42	13/16	1	1-1/8
Inferno Lite FRP 200 (Globe Amerada) ²	45 minute	100	10	33	1	1	1-1/4
Inferno Lite FRP 300 (Globe Amerada) ²	90 minute	100	10	33	1	1	1-1/4
Inferno Lite FRP 200 (Globe Amerada) ²	90 minute	100	10	33	13/16	1	1-1/4
Omnilite (Sierracin/Trans Tech) ²	20 min w/o hose	500	36	36	13/16	5/8	15/16
Omnilite (Sierracin/Trans Tech) ²	20 min w/o hose	576	36	36	53/64	5/8	15/16
GuardVue 20W (Viracon) ²	20 min w/o hose	500	36	36	13/16	5/8	15/16
GuardVue 20W (Viracon) ²	20 min w/o hose	576	36	36	13/16	11/16	15/16

Note 1 All glass areas are per vision light, unless otherwise indicated. Multiple vision lights are allowed.

² UL Listing Only

LABEL DOORS AND FRAMES

September, 2003

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**For use with CURRIES Fire Rated Window Frames and
Transom Side Light Frames**

GLASS TYPE, BRAND OR DESCRIPTION	RATING	MAX EXPOSED AREA SQ. IN.	MAX VISIBLE WIDTH INCHES	MAX VISIBLE HEIGHT INCHES	GLASS THICKNESS INCHES	MIN. STOP HEIGHT INCHES	MIN. POCKET WIDTH INCHES
Listed Wire Glass	20 min w/o hose	5268	109-3/4	109-3/4	1/4	5/8	3/8
Listed Wire Glass	20 and 45 minute	1296	54	54	1/4	5/8	3/8
Central/Asahi or Pilkington Wire glass with Pemko FG3000	20 and 45 minute	4704	106	106	1/4	5/8	7/16
Fireglas 20 ³ (Technical Glass)	20 min w/o hose	6936	106-1/2	106-1/2	See Note 1	5/8	See Note 1
Firelite, Firelite Plus, Firelite NT, or Firelite IGU ³ (Technical Glass)	20 min w/o hose	3325	95	95	See Note 2	5/8	See Note 2
Firelite, Firelite Plus, Firelite NT, or Firelite IGU ³ (Technical Glass)	20 and 45 minute	3325	95	95	See Note 2	5/8	See Note 2
Firelite, Firelite Plus, Firelite NT, or Firelite IGU ³ (Technical Glass)	60 Minute	2721	77	77	See Note 2	5/8	See Note 2
Firelite, Firelite Plus, Firelite NT, or Firelite IGU (Technical Glass) ³	90 Minute	2627	46-1/2	56-1/2	See Note 2	5/8	See Note 2
Pyro-Edge 20 ³ (Interedge Technologies)	20 min w/o hose	3698	40-3/4	90-3/4	1/4	5/8	3/8
Pyrostop ³	60 minutes	5605	95	95	1-1/16	5/8	1-3/16
Pyrostop ³	90 minutes	3724	89-3/4	89-3/4	1-9/13	5/8	1-11/16

Note 1 Fireglas is available in 1/4", 3/8", 1/2", and 3/4" thickness. Pocket width is 1/8" greater than glass thickness

Note 2 Firelite and Firelite NT are 3/16" thick, 3/8" minimum pocket width;

Firelite Plus is 5/16" thick 1/2" minimum pocket width;

Firelite IGU is 1" thick, 1-1/8" minimum pocket width.

³ UL Listing Only

For Use with CURRIES Vision Light Frames

GLASS TYPE, BRAND OR DESCRIPTION	RATING	MAX EXPOSED AREA SQ. IN. (See Note 6)	MAX WIDTH INCHES (See Note 6)	MAX HEIGHT INCHES (See Note 6)	GLASS THICKNESS INCHES	MIN. STOP HEIGHT INCHES	MIN. POCKET WIDTH INCHES
Listed Wire Glass	20 min w/o hose	2294	35-13/16	83-5/8	1/4	5/8	3/8
Listed Wire Glass	20 and 45 minute	1296	54	54	1/4	5/8	3/8
Listed Wire Glass	90 minute	100 per leaf	12	33	1/4	5/8	3/8
Central/Asahi or Pilkington Wire glass with Pemko FG3000	20 and 45 minute	2856	34	84	1/4	5/8	7/16
Central/Asahi or Pilkington Wire glass with Pemko FG3000	90 minute	552 per lite 2204 per leaf	12	46	1/4	5/8	7/16
Fireglas 20 ⁷ (Technical Glass)	20 min w/o hose	3024	36	89	See Note 1	5/8	See Note 1
Firelite, Firelite Plus, Firelite NT, or Firelite IGU ⁷ (Technical Glass)	20 min w/o hose	3204	36	89	See Note 2	5/8	See Note 2
Firelite, Firelite Plus, Firelite NT, or Firelite IGU ⁷ (Technical Glass)	20 and 45 minute	3204	36	89	See Note 2	5/8	See Note 2
Firelite, Firelite Plus, Firelite NT, or Firelite IGU ⁷ (Technical Glass)	60 Minute (See Note 5)	3204	36	89	See Note 2	5/8	See Note 2
Firelite, Firelite Plus, Firelite NT, or Firelite IGU ⁷ (Technical Glass)	90 Minute (See Note 5)	1296 per leaf	36	54	See Note 2	5/8	See Note 2
Firelite, Firelite Plus, Firelite NT, or Firelite IGU ⁷ (Technical Glass)	180 Minute (See Note 5)	100 per leaf	33	33	See Note 2	5/8	See Note 2
Pyrostop ⁷ See Note 3	60 minutes (See Note 5)	1080	36	36	1-1/16	5/8	1-3/16
Pyrostop ⁷ See Note 3	90 minutes (See Note 5)	1080	36	36	1-9/16	5/8	1-11/16
UL Panel 1/2"	90 minutes	1296 per panel 2592 per leaf	36	36	1/2" panel	3/4	1/2

Note 1 Fireglas is available in 1/4", 3/8", 1/2", and 3/4" thickness. Pocket width is 1/8" greater than glass thickness

Note 2 Firelite and Firelite NT are 3/16" thick, 3/8" minimum pocket width;

Firelite Plus is 5/16" thick 1/2" minimum pocket width;

Firelite IGU is 1" thick, 1-1/8" minimum pocket width.

Note 3 Pyrostop may be used on CURRIES doors with 250 or 450 degree temperature rise ratings.

Note 4 All glass areas are per vision light, unless otherwise indicated. Multiple vision lights are allowed.

Note 5 Code requirements may limit use in 60 minute or greater durations. Use is subject to the approval of Authority Having Jurisdiction.

Note 6 Warnock Hersey limitations may be less than published dimensions.

Note 7 UL Listing Only.

September, 2003

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For use with CURRIES' Fire Rated Window Frames and Transom Side Light Frames

GLASS TYPE, BRAND OR DESCRIPTION	RATING	MAX EXPOSED AREA SQ. IN.	MAX VISIBLE WIDTH INCHES	MAX VISIBLE HEIGHT INCHES	GLASS THICKNESS INCHES	MIN. STOP HEIGHT INCHES	MIN. POCKET WIDTH INCHES
Listed Wire Glass	20 min w/o hose	5268	109-3/4	109-3/4	1/4	5/8	3/8
Listed Wire Glass	20 and 45 minute	1296	54	54	1/4	5/8	3/8
Central/Asahi or Pilkington Wire glass with Pemko FG3000	20 and 45 minute	4704	106	106	1/4	5/8	7/16
Fireglas 20 (Technical Glass)	20 min w/o hose	6936	106-1/2	106-1/2	See Note 1	5/8	See Note 1
Firelite, Firelite Plus, Firelite NT, or Firelite IGU ⁴ (Technical Glass)	20 min w/o hose	3325	95	95	See Note 2	5/8	See Note 2
Firelite, Firelite Plus, Firelite NT, or Firelite IGU ⁴ (Technical Glass)	20 and 45 minute	3325	95	95	See Note 2	5/8	See Note 2
Firelite, Firelite Plus, Firelite NT, or Firelite IGU ⁴ (Technical Glass)	60 Minute	2721	77	77	See Note 2	5/8	See Note 2
Firelite, Firelite Plus, Firelite NT, or Firelite IGU (Technical Glass) ⁴	90 Minute	2627	46-1/2	56-1/2	See Note 2	5/8	See Note 2
Pyrostop ⁴	60 minutes	5605	95	95	1-1/16	5/8	1-3/16
Pyrostop ⁴	90 minutes	3724	89-3/4	89-3/4	1-9/16	5/8	1-11/16
Pyro-Edge 20 ⁴ (Interedge Technologies)	20 min w/o hose	3698	40-3/4	90-3/4	1/4	5/8	3/8
Superlite 1-20 ⁴ (O'Keeffe's)	20 min w/o hose	3695	42-3/4	92-3/4	See Note 3	5/8	See Note 3
Superlite 2- 45 ⁴ (O'Keeffe's)	20 and 45 minute	4600	48	102	1-1/4	2	1-5/8
Superlite 2-45 ⁴ (O'Keeffe's)	20 and 45 minute	4546	48-5/8	93-1/2	1-1/4	1-1/4	1-5/8
Pyro-Edge 20 ⁴ (Interedge Technologies)	20 min w/o hose	3698	40-3/4	90-3/4	1/4	5/8	3/8

Note 1 Fireglas is available in 1/4", 3/8", 1/2", and 3/4" thickness. Pocket width is 1/8" greater than glass thickness

Note 2 Firelite and Firelite NT are 3/16" thick, 3/8" minimum pocket width;

Firelite Plus is 5/16" thick 1/2" minimum pocket width;

Firelite IGU is 1" thick, 1-1/8" minimum pocket width.

Note 3 Superlite 1 is available in 1/4", 3/8" and 1/2" in thickness. Pocket width is 1/4" greater than glass thickness.

For use with CURRIES' Fire Rated Window Frames and Transom Side Light Frames

GLASS TYPE, BRAND OR DESCRIPTION	RATING	MAX EXPOSED AREA SQ. IN.	MAX VISIBLE WIDTH INCHES	MAX VISIBLE HEIGHT INCHES	GLASS THICKNESS INCHES	MIN. STOP HEIGHT INCHES	MIN. POCKET WIDTH INCHES
Inferno Lite FRP 100 See Note 1 (Globe Amerada) ²	20 and 45 minute	1296	36	42	13/16	3/4	1-1/8
Omnilite See Note 1 (Sierracin/Trans Tech) ²	20 min w/o hose	360	36	36	13/16	5/8	15/16
Omnilite See Note 1 (Sierracin/Trans Tech) ²	20 min w/o hose	600	40	40	13/16	11/16	15/16
Omnilite See Note 1 (Sierracin/Trans Tech) ²	20 min w/o hose	360	36	36	53/64	5/8	15/16
GuardVue 20W See Note 1 (Viracon) ²	20 min w/o hose	360	36	36	13/16	5/8	15/16
GuardVue 20W See Note 1 (Viracon) ²	20 min w/o hose	600	40	40	13/16	11/16	15/16
GuardVue 20W See Note 1 (Viracon) ²	20 min w/o hose	880	40	40	13/16	3/4	15/16

Note 1 Only one light per frame is allowed. The size of the light must be within the limits listed in the table.

² UL Listing Only

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CURRIES Wind Resistant Product

LABEL DOORS AND FRAMES

July, 2005

 CURRIES®

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in door opening solutions

Introduction

CURRIES wind resistant products that have been successfully tested to several test methods.

These methods include:

- 1) High velocity hurricane zone (HVHZ) Test Protocols
 - TAS-201 – Cyclic Wind Pressure Loading and Impact Test Procedure
 - TAS-202 - Criteria for Testing Impact and Non-Impact Resistant Building Envelope Components Using Uniform Static Air Pressure.
 - TAS-203 – Criteria for Testing Product Subject to Cyclic Wind Pressure Loading
- 2) ASTM E330 – Test Method E330 Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.
- 3) ASTM E1886 – Test Method 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 - Test method E1996 performance of exterior windows, curtains walls, doors and storm shutters impacted by wind borne debris in hurricanes.

Dade County Approved Products

Products that have been successfully tested to the TAS Protocols may be designated with an eight-digit acceptance number. The number can be found later in this section. A Dade County label must be affixed to the door and frame of Dade County Approved product, if required by the local jurisdiction. The Design Pressure represents the pressure used as the basis for testing the assemblies to the TAS protocols.

Florida Building Code Requirements

The Florida Building Code specifies that products must be tested to either the State of Florida TAS or ASTM test methods. Products installed in the Dade or Broward Counties, (also designated as the High Velocity Hurricane Zone (HVHZ) must be successfully tested to the TAS test protocols. The Florida Building Code also provides several methods for acceptance of products:

- 1) Certification testing to the ASTM or TAS test methods.
- 2) Third party certification - (UL, Warnock Hersey)
- 3) Dade County Product Approval
- 4) Engineering Evaluation

Order Requirements

Basic order requirements for each approved assembly are provided on the following pages. Further design information is available in individual CURRIES drawings. Drawings are entered in the drawing database under "Wind" in the product field.

General Order requirements include:

- 1) Product must be configured as defined on the attached pages to satisfy Dade County & FBC requirements, and to be certified to the test methods listed in the table on the next page.
- 2) Single doors cannot be used as the active leaf of a pair, but the active leaf of a pair can be used as a single door.
- 3) Units smaller than the size tested may be used.
- 4) All fire resistance requirements must be met to apply a fire label.
- 5) Only the Anemostat FPL 2 louver may be used for louvered doors.
- 6) Glazed Doors - Specific products must be used in glazed doors. See individual assemblies for products, requirements, and limitations.
 - a) 1/4" thick Dade County clear polycarbonate installed with closed cell foam tape on both sides of the polycarbonate sheet. The polycarbonate tested was Hyzod brand by DSM Engineering Plastics Corporation. Type 1 vision light kits are used for the 1/4" polycarbonate.
 - b) Nebula Glass Glasslam Plus 2 Laminated glass assembly installed with Dow Corning 995 structural silicone per the manufacturer's instructions. Closed cell foam tap is used on both sides of the glass assembly. A Type 2 vision light kit with 5/8" pocket is required.
- 7) Product certified by a Dade County NOA must have a Dade County Florida acceptance label.
- 8) The customer specified pressure cannot be greater than the Design Pressure or for assemblies required to meet ASTM E1886. Impact speed is 50 feet per second.
- 9) For assemblies required to meet ASTM E330 only, the customer-supplied pressure cannot be greater than the Design Pressure.
- 10) Standard Weight or heavy weight 4-1/2" x 4-1/2" or 5" x 4-1/2" steel butt hinges and continuous hinges may be used where indicated.
- 11) Z astragals may not be used on any assemblies.
- 12) Transom panels must be 1-3/4" thick 707 or 747 panels.
- 13) Transom lights must be Glasslam Plus2 laminated glass assembly with closed cell foam tape. Pocket width is 5/8". Must use 5/8" glass stop with UL screw spacing.
- 14) Anchors - Anchors are CURRIES locations unless otherwise specified.
- 15) Minimum Jamb Depth is 5-3/4" - Maximum jamb depth is 12" unless indicated otherwise. Frame must be fully supported by the wall.

LABEL DOORS AND FRAMES

August, 2005

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Design Pressure	Type of Opening	Size of Opening	Hardware	Door	Glazing/ Face Type	Dade County Acceptance Number	Florida Bldg. Commission Approval No.	Construction Requirements
+/-100	Door and Frame	3'0" x 7'0"	Sargent 8200 with deadbolt function	707	Flush	02-0222.07	FL2198	D1, F2
+/-85	Door and Frame	4'0" x 7'0"	Sargent 8200 with surface bolts	747	Flush	02-0814.05	FL2198	
+/-85	Door and Frame	3'0" x 7'0"	Sargent 6500	707	Flush	01-1102.02	FL2198	D1
+/-80	Door and Frame	3'0" x 7'0"	Sargent 8900	707	Flush	02-0222.07	FL2198	D1, F2
+/-75	Door and Frame	8'0" x 8'0"	Sargent HC8700 Sargent 8200 with surface bolts on both leafs	747	Flush	02-0924.04	FL2198	F1
+/-72	Door and Frame	3'0" x 7'0"	Sargent 8200/ Sargent 10 line	707	Up to HG (24 x 32)	03-0626.01	FL2198	D1, D5
+/-70	Door and Frame	8'0" x 8'0"	Sargent HC8800 or Sargent MD8600 or Yale 7150	707 or 747	Up to HG (32 x 42)	03-0812.07	FL2493	D1, D3, D4 D6, D8, F3
+/-62	Door and Frame	8'0" x 8'0"	Sargent HC8700	747	Flush	02-0924.04	FL2198	F1
+/-60	Store Front	Frame: 10'0" height	N/A	N/A	Glasslam Laminated Glass 707 or 747 panels	04-0622.05	FL3704	F4, F5
+/-60	Door and Frame w/wo transom	Door: 6'0" x 8'0" Frame: 6'0" x 10'0"	Sargent HC8800 or Sargent MD8600 or Corbin Ruswin ML2000 with deadbolt function	707 or 747	Up to FG (24 x 66) Transom Glass 707 or 747 Panels	04-0622.06	FL3192	D1, D2, D3 D4, D6, F3 F4, F5, F6
+/-60	Door and Frame	6'0" x 7'0"	Sargent 8200 with deadbolt function	707	F	02-0222.06	FL2198	D1, D2, D7, F1
+/-60	Door and Frame w/wo transom w/wo sidelite	3'0" x 7'0" 3'0" x 10'2" 4'0" x 7'0"	Cylindrical Mortise Rim Exit Mortise Exit (contact Factory)	607 707 727 747	Up to FG (24 x 66)	N/A	FL4385	D5, F6 F5 F5, F6
+/-57.2	Door and Frame	4'0" x 7'0"	Sargent HC8800	747	F	02-0814.05	FL2198	
+/-50	Door and Frame	8'0" x 8'0"	Sargent 10 line or 6500 Series with 480 deadbolt	707	FGL	03-0319.04	FL2198	D1, D5, F1

* Visit www.curries.com/windstorm.html for details.

D1 - Weld lock and hinge channels to top and bottom channels

D2 - Non-Standard 12 gauge strike reinforcement for the inactive leaf of pairs of doors with a mortise lock

D3 - Requires 12 gauge lock channel

D4 - Requires 12 gauge top and bottom channel

D5 - Requires 20 gauge channel surround

D6 - Requires 14 gauge channel surround for glazed doors

D7 - Requires 12 gauge top cap on inactive leaf

D8 - Requires 14 gauge full hat section horizontal stiffener

F1 - Requires 12 gauge full sleeve centered in the head of the frame.

(Head and reinforcement must be prepared for hardware used)

F2 - Requires 7 gauge plate reinforcement at the strike

F3 - Requires 12 gauge half sleeve centered in the head of the frame in addition to the required hardware prep

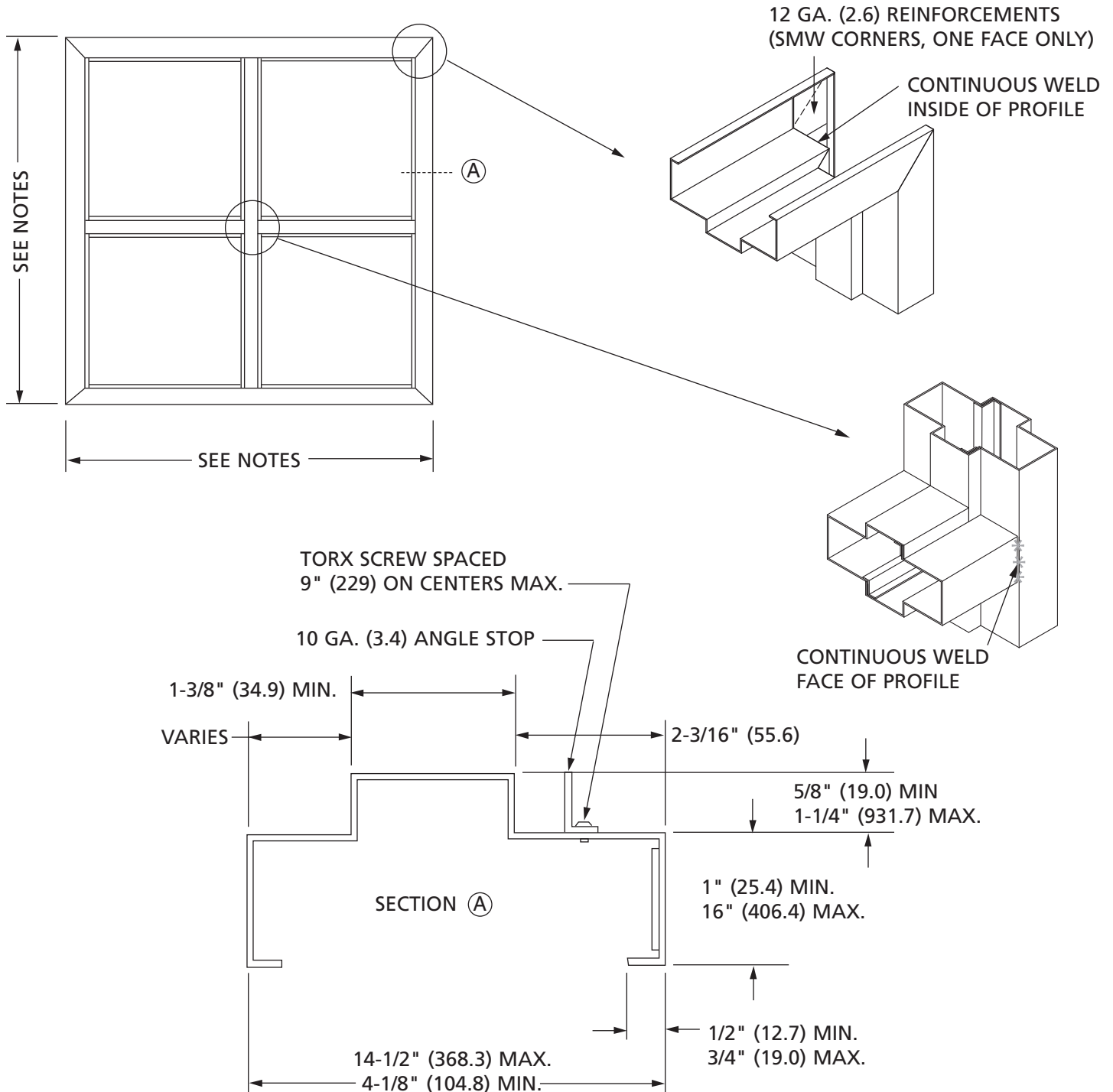
F4 - Requires 10 gauge formed I-beam in mullions 3' long or greater

F5 - Frames with glass or fixed panels require anchors in the head and/or sill.

F6 - Frames require 12 gauge full sleeve at strike for single doors with Sargent rim exits.

NOTES:

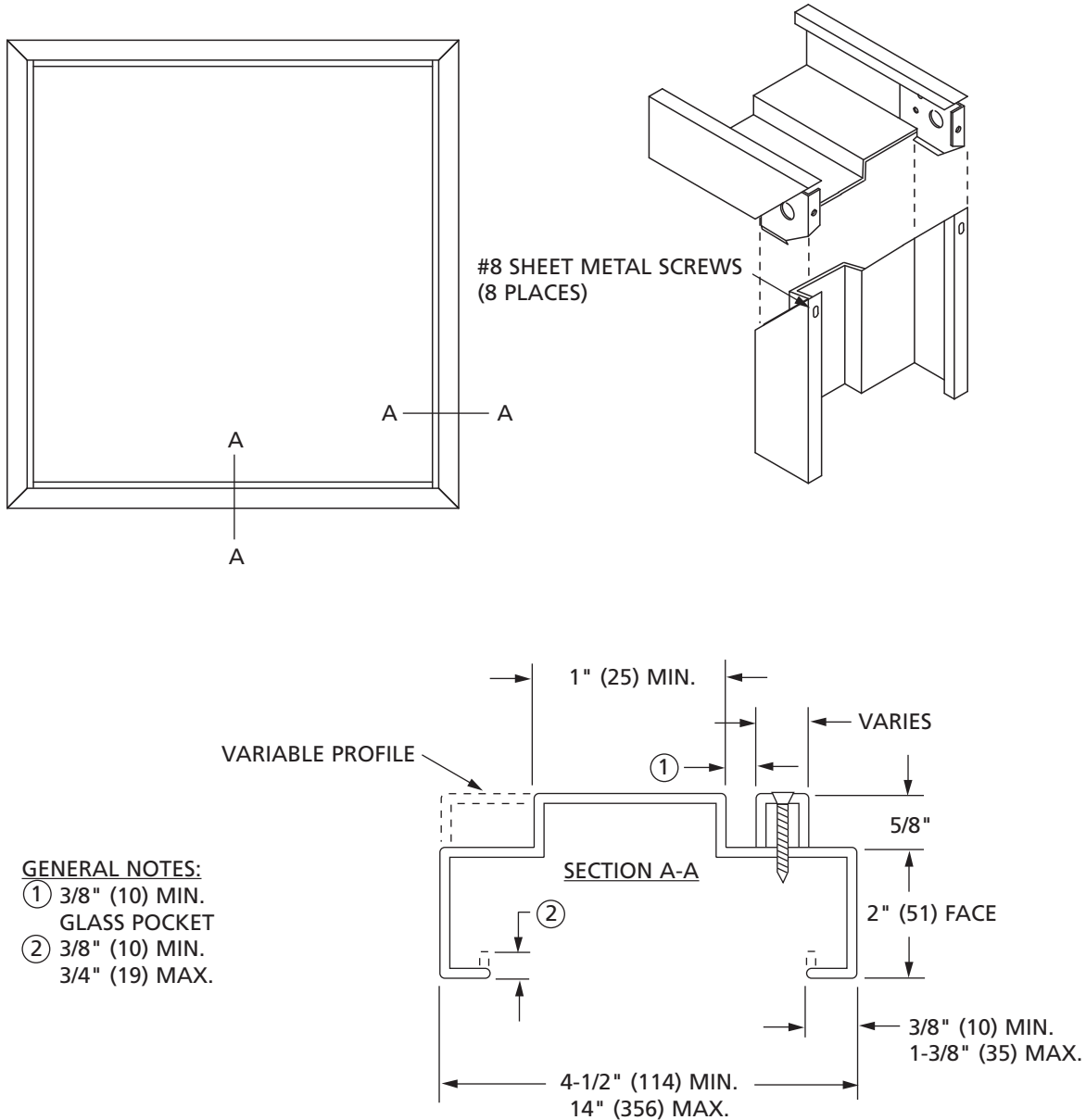
1. MAX. WINDOW OPENINGS: PER GLASS MANUFACTURER'S LIMITS.
2. GAUGE: 12 (2.6) GA. ONLY.
3. WALL CONSTRUCTION: MASONRY ONLY.
4. FRAME CONSTRUCTION: SAW BUTT WELD (SBW) OR SAW MITER WELD (SMW) ONLY.
5. MASONRY ANCHORS ONLY.



LABEL DOORS AND FRAMES

September 1, 2004

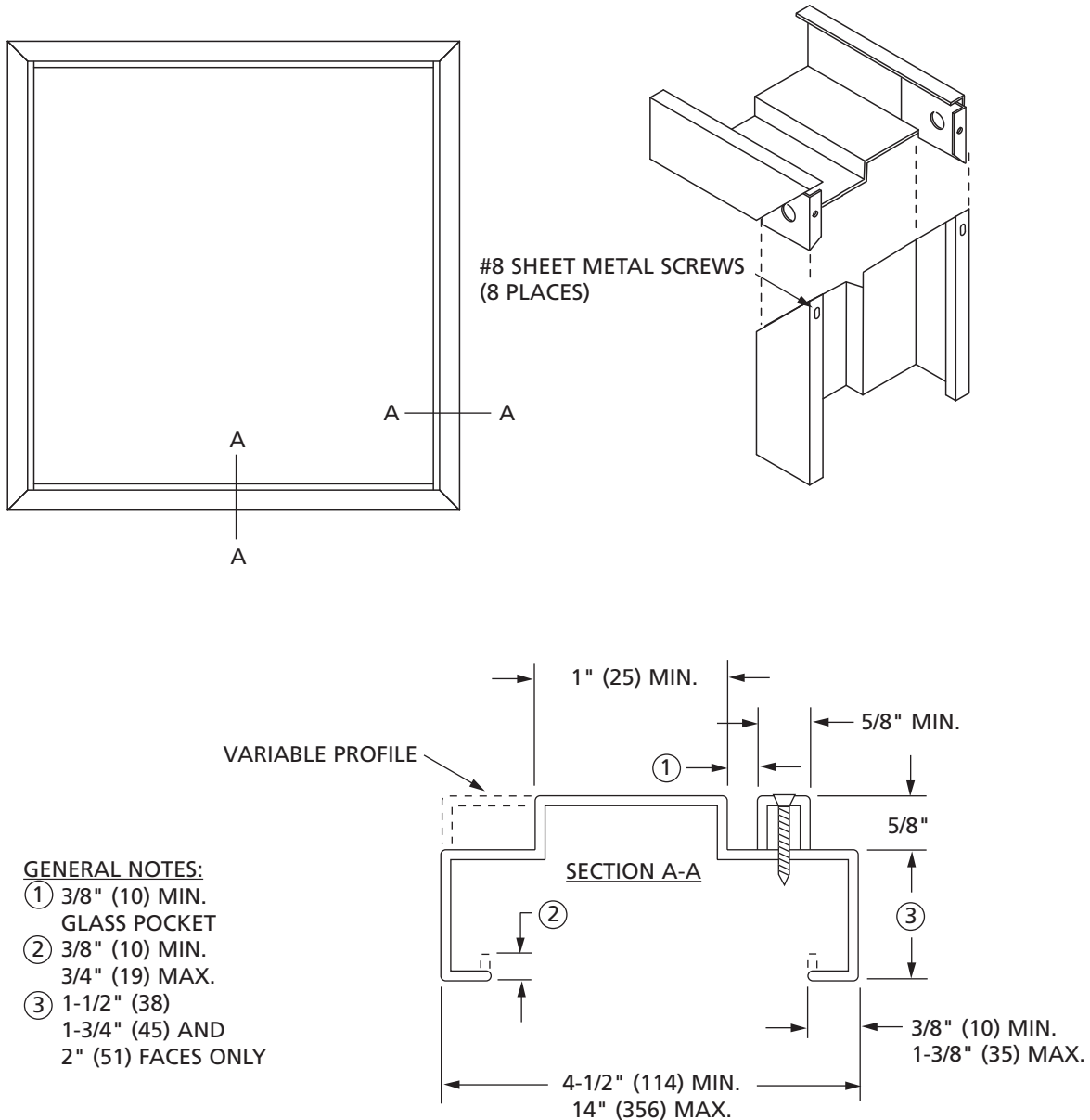
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**GENERAL NOTES:**

- ① 3/8" (10) MIN.
GLASS POCKET
- ② 3/8" (10) MIN.
3/4" (19) MAX.

SPECIFICATIONS:

- A) SIZE: MAX. INDIVIDUAL VISIBLE GLASS SIZE IS 109-3/4" (2788) WIDE AND 109-3/4" (2788) HIGH, NOT TO EXCEED 5268 SQ. INCHES.
- B) POCKET DEPTH: 5/8" (16) MIN.
- C) WALL CONSTRUCTION: DRYWALL
- D) FRAME CONSTRUCTION: KD
- E) ANCHORS: FIRE WINDOW FRAME SHALL BE PROVIDED WITH LABEL APPROVED DRYWALL ANCHORS. IF COMPRESSION TYPE ANCHORS ARE USED THEY SHALL BE INSTALLED IN THE SILL AND HEAD MEMBERS.
- F) MATERIAL: COLD ROLLED OR GALVANIZED STEEL
- G) GAUGE: 16 GA. (1.5) MIN., 14 GA. (1.8) MAX.
- H) GLASS STOP SCREWS: NO. 8 SHEET METAL SCREWS SPACED 2" (51) FROM EACH END AND 12" (305) ON CENTER.



GENERAL NOTES:

- ① 3/8" (10) MIN.
GLASS POCKET
- ② 3/8" (10) MIN.
3/4" (19) MAX.
- ③ 1-1/2" (38)
1-3/4" (45) AND
2" (51) FACES ONLY

SPECIFICATIONS:

- A) WALL CONSTRUCTION: DRYWALL
- B) FRAME CONSTRUCTION: KD
- C) ANCHORS: FIRE WINDOW FRAME SHALL BE PROVIDED WITH LABEL APPROVED DRYWALL ANCHORS. IF COMPRESSION TYPE ANCHORS ARE USED THEY SHALL BE INSTALLED IN THE SILL AND HEAD MEMBERS.
- D) MATERIAL: COLD ROLLED OR GALVANIZED STEEL
- E) GAUGE: 16 GAUGE (1.5) MIN., 14 GA. (1.9) MAX.
- F) GLASS STOP SCREWS: NO. 8 SHEET METAL SCREWS SPACED 2" (51) FROM EACH END AND 6" (152) ON CENTER.
- G) MUST USE NORTON NORSEAL TAPE V980 OR 100% SILICON.

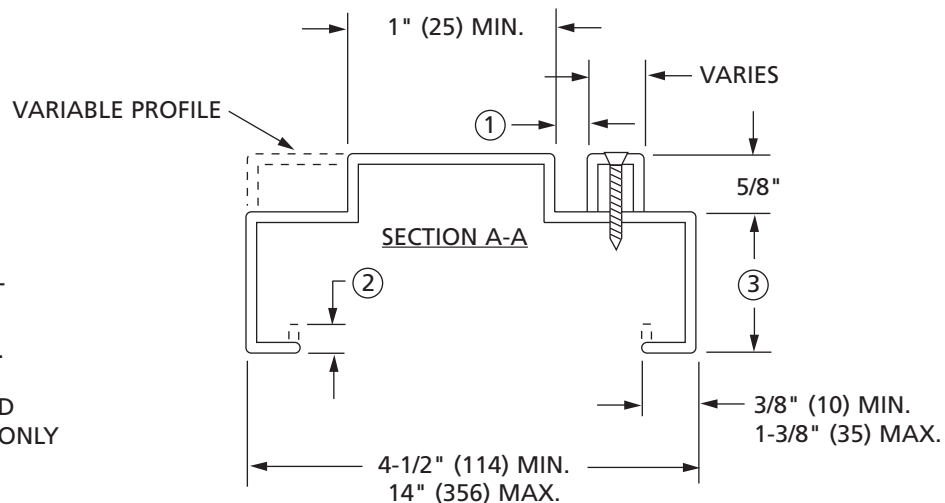
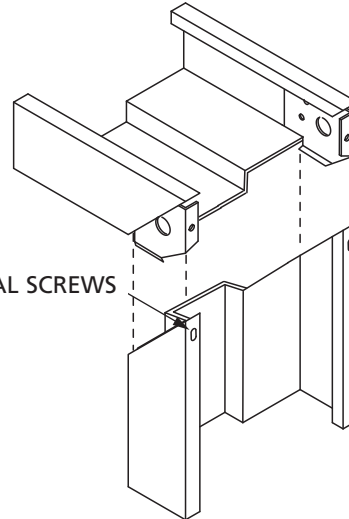
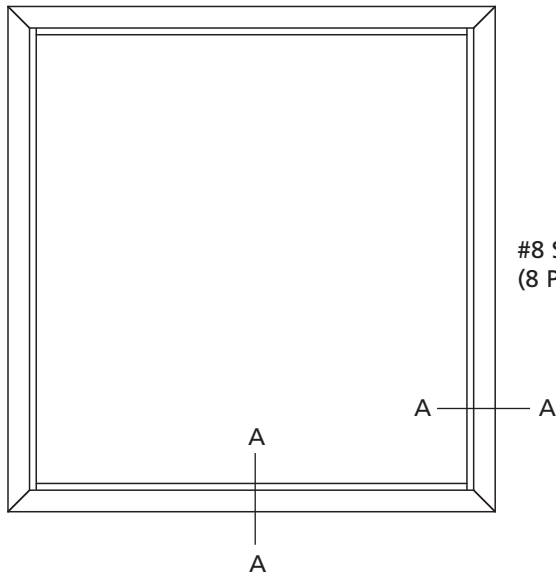
MAX. AREA EXPOSED GLASS SQ. IN.	MAX. WIDTH IN.	MAX. HEIGHT IN.	MIN. DEPTH OF POCKET IN.
1296 (836,127)	54 (1372)	54 (1372)	5/8 (16)

LABEL DOORS AND FRAMES

September 1, 2004

ASSA ABLOY, the global leader
in door opening solutions

NEUTRAL PRESSURE ONLY (UL 10B)



GENERAL NOTES:

- ① 3/8" (10) MIN.
GLASS POCKET
- ② 3/8" (10) MIN.
3/4" (19) MAX.
- ③ 1-1/2" (38)
1-3/4" (45) AND
2" (51) FACES ONLY

SPECIFICATIONS:

- A) SIZE: MAX. INDIVIDUAL VISIBLE GLASS SIZE IS 54" (1372) WIDE AND 77-3/4" (1975) HIGH, NOT TO EXCEED 2721 SQ. INCHES.
- B) POCKET DEPTH: 5/8" (16) MIN.
- C) WALL CONSTRUCTION: DRYWALL
- D) FRAME CONSTRUCTION: KD
- E) ANCHORS: FIRE WINDOW FRAME SHALL BE PROVIDED WITH LABEL APPROVED DRYWALL ANCHORS. IF COMPRESSION TYPE ANCHORS ARE USED THEY SHALL BE INSTALLED IN THE SILL AND HEAD MEMBERS.
- F) MATERIAL: COLD ROLLED OR GALVANIZED STEEL
- G) GAUGE: 16 GA. (1.5) MIN., 14 GA. (1.9) MAX.
- H) GLASS STOP SCREWS: NO. 8 SHEET METAL SCREWS SPACED 2" (51) FROM EACH END AND 6" (305) ON CENTER.
- I) GLAZING MATERIAL: "FIRELITE" OR "FIRELITE PLUS" GLASS INSTALLED WITH EITHER 100% SILICON, DAP 33, OR METACAUKE 990 GLAZING COMPOUND.
- J) MAY NOT BE USED FOR POSITIVE PRESSURE APPLICATIONS.

GLASS TYPE, BRAND OR DESCRIPTION	RATING	MAX EXPOSED AREA SQ. IN.	MAX VISIBLE WIDTH INCHES	MAX VISIBLE HEIGHT INCHES	MIN. STOP HEIGHT INCHES	MATERIAL THICKNESS INCHES	MIN. POCKET WIDTH INCHES
Omnilite (Sierracin/Trans Tech) See Note 1	20 min. w/o hose	360	36	36	5/8	53/64	15/16
GuardVue 10W (Viracon) See Note 1	20 min. w/o hose	360	36	36	5/8	13/16	15/16
GuardVue 10W (Viracon) See Note 1	20 min. w/o hose	600	40	40	11/16	13/16	15/16
GuardVue 10W (Viracon) See Note 1	20 min. w/o hose	880	40	40	3/4	13/16	15/16
GuardVue 10W (Viracon) See Note 1	20 min. w/o hose	880	40	40	3/4	13/16	15/16
SIDE PANELS							
CURRIES Polysyrene Core	180 Minutes	4608	48	96	5/8"	1-3/4"	1-7/8"
CURRIES Temperature Rise Core	180 Minutes	4608	48	96	5/8"	1-3/4"	1-7/8"
CURRIES Steel Stiffened Core	180 Minutes	4608	48	96	5/8"	1-3/4"	1-7/8"
CURRIES 1/2" Composite Core	180 Minutes	4608	48	96	5/8"	1/2"	5/8"
Wood Panels	90 Minutes	See Note 2					
TRANSOM PANELS							
CURRIES Polystyrene Core	180 Minutes	4608	96	48	5/8"	1-3/4"	1-7/8"
CURRIES Temperature Rise Core	180 Minutes	4608	96	48	5/8"	1-3/4"	1-7/8"
CURRIES Steel Stiffened Core	180 Minutes	4608	96	48	5/8"	1-3/4"	1-7/8"
CURRIES 1/2" Composite Core	180 Minutes	4608	96	48	5/8"	1/2"	5/8"
Wood Panels	90 Minutes	See Note 2					
<p>Note 1: Only one light per frame is allowed. The size of the light must be within the limits listed in the table.</p> <p>Note 2: Listed wood panels may be used in CURRIES frames as allowed by the wood panel manufacturer's listings.</p> <p>Note 3: Use spring bolt spacing from wood panel manufacturer.</p>							

LABEL DOORS AND FRAMES



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