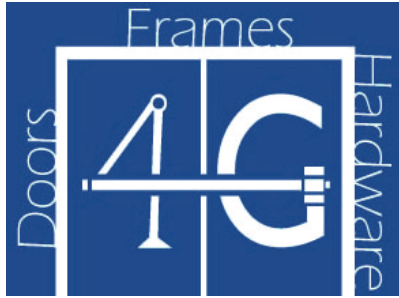


# 4G DOORS FRAMES HARDWARE



## 4G Doors

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www.4gdoors.com






Introduction	1
Nomenclature	2
Commercial Door Constuction - 1200, 1800 and 2000 Series	3
1700/32-1700 Series 6-Panel Door / 1900 Series 2-Panel Door	4
1800 Series Hurricane-Tested Florida Approved FL-13624	5
MD1400 Series Maximum Duty Doors and Frames	6
Door Specifications	7
Welded or Knock Down Steel Frames	8
Expandable Masonry and Drywall Frames	9
Door & Frame Accessories	10
7500 Series Architectual Stick Components Sidelite, Transom, and Window Frames	11
Door and Frame Handling Chart	12
Lites / Klts	13
Glass	14
Louvers	15
Louvers	16
U.S. Green Building Council Leed Rating Statement	17
4G Doors Frames and Hardware Credit Application	
Terms and Conditions	



4G Doors Frames and Hardware constantly strives to meet the demands of the steel door and frame industry by providing premium products to the customer.

Superior quality, a strong service commitment, and value are our watch words. Standard features built into each door and frame reflect constant attention to detail and performance. 4G Doors doors standard features include:


- 16, 18, 20 Gauge flush 6 panel, 2 panel and single panel doors
- Seamless door edge
- Reversible
- 3 hour WHI fire, Positive Pressure, and  Smoke lable
- Cold rolled or A40 galvanized steel
- Prime painted with baked on two stage epoxy resin
- 7 gauge universal hinge reinforcements
- 12 gauge closer reinforcement
- 16 gauge flush sealed top channel / inverted bottom channel
- Closed hinge cavity
- High density full body polystyrene or honeycomb core
- Blank edge door includes rim exit device reinforcement
- Individual protective packaging

Our commitment is to provide superior quality and service, at competitive pricing to our customers.

The 4GDoors vision of premium features and value to the customer is here.

### ***Hollow Metal Doors***

Precision seamless construction is exclusive to 4G Doors, producing doors that meet or exceed all industry standards. Our line of doors features cold-rolled steel, primed for interior applications and galvanized A40 steel with insulating cores for exterior applications.

All standard doors bear the WHI 3 hour listing mark, including Positive Pressure and  Smoke lables, combined.

Decorator doors are available in six-panel, two panel and single panel, with insulating polystyrene cores.

### ***Welded or Knock Down Steel Frames***

4G Doors manufactures steel frames in standard sizes. These frames have the toughest tolerances in the industry. 4G Doors steel frames are available in 16 and 18 gauge for 1 3/4" doors. All standard frames are manufactured from cold-rolled or galvanized A40 steel.

4G Doors fire labeles steel frames carry the 3 hour Warnock Hersey label for masonry and 90 minutes for drywall frames.

Expandable Width Masonry and Drywall Frames for odd-fit wall widths and retrofit situations. Applicable to walls with width 4 5 8" to 7 3 4".

**Door Series**

1000	= 18 Ga. Polystyrene
1100	= 18 Ga. Honeycomb
1112	= 18 Ga. 1 3/8" Honeycomb Rolled Seam
1113	= 18 Ga. 1 3/8" Honeycomb Seamless
1200	= 20 Ga. Polystyrene
1300	= 18 Ga. Steel Stiffened
1400	= 16 Ga. Steel Stiffened
MD1400	= Max-Duty Doors & Frames
1500	= Polystyrene replacement
1600	= 16 Ga. Polystyrene
1700	= 18 Ga. & 20 Ga. Polystyrene 6 Panel
32-1700	= 18 Ga. Polystyrene 6 Panel
1800	= 18 Ga. Polystyrene
1900	= 18 Ga. Polystyrene 2 Panel
2000	= 18 Ga. Honeycomb / pair active / inactive
6000	= 18 Ga. Double Egress
9000	= 18 Ga. 250° Temperature rise

*\*Polyurethane core available upon request. Consult factory.*

**Steel**

20	= Cold Rolled
20G	= A40 Galvanized
18	= Cold Rolled
18G	= A40 Galvanized
16	= Cold Rolled
16G	= A40 Galvanized

**Door Style**

F	= Flush 1 Panel
F2P	= Flush 2 Panel
F6P	= Flush 6 Panel

**Prep**

C	= Fed.161 Cylindrical
MB	= Fed.86 Mortise Edge (Blank panel both sides)
T	= Security lever
B	= Blank edge no reinforcement
BR	= Blank edge with reinforcement

**Hinge Preparation**

4½" x 4½"

**Strike Preparation**

MS	= 4⅞" Universal
CS	= 2¾" Cylindrical
B	= Blank
BR	= Blank with rim exit device reinforcement

**Closer Reinforcement**

CRS	= Closer reinforcement standard
-----	---------------------------------

**Frame Series**

3000	=16 Ga. Double Egress
4000	=16 Ga. Masonry Frames
EXP4000	=16 Ga. Expandable Masonry Frames
4500	=16 Ga. Pair Frame
4100	=14 Ga. Masonry Frames
5000	=16 Ga. Drywall Frames
EXP5000	=16 Ga. Expandable Drywall Frames
7000	=16 Ga. Blank Masonry Sticks
7500	=16 Ga. Fabrication Components
7800	=16 Ga. Fabrication Components
8000	=16 Ga. Blank Drywall Sticks

**Steel**

18	= Cold Rolled
18G	= A40 Galvanized
16	= Cold Rolled
16G	= A40 Galvanized

**Components**

H	= Head
HJ	= Hinge Jamb
SJ	= Strike Jamb
BJ	= Blank Jamb
BSJ	= Blank Strike Jamb
BHJ	= Blank Hinge Jamb

**Strike**

4.875	= ASA (Universal)
-------	-------------------

**Closer**

CR	= Standard Arm
PR	= Parallel Arm

**Handing**

RH	= Right Hand
LH	= Left Hand

**Anchors**

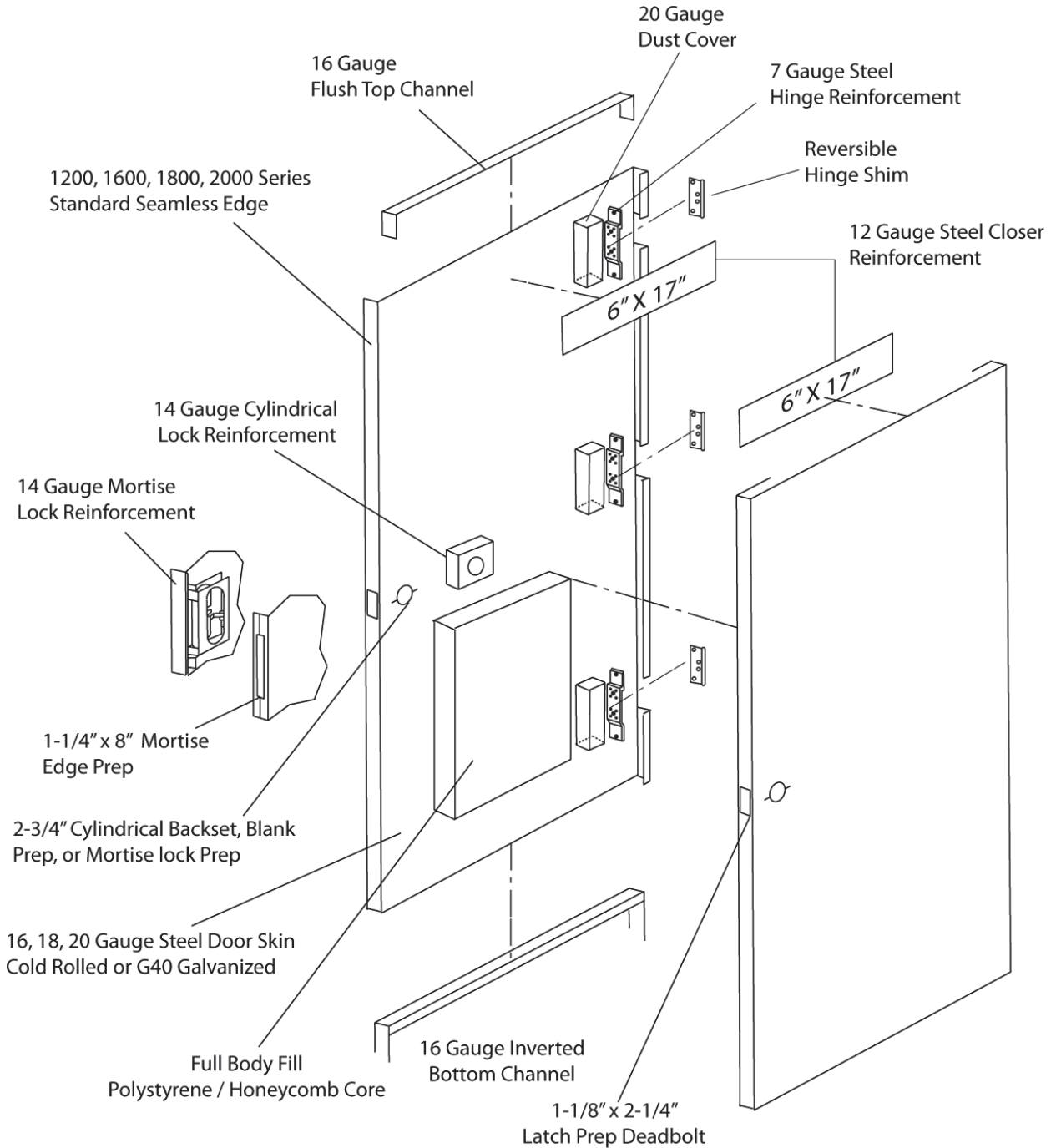
WS	= Wood Stud
SS	= Steel Stud
MA	= Masonry Wire

***\* Special Note:***

***All measurements are in feet and inches***



# 4G Commercial Door Construction 1200, 1800 and 2000 Series





# 4G 1700/32-1700 Series 6-Panel Door / 1900 Series 2-Panel Door

## 1700 Series 6-Panel Door

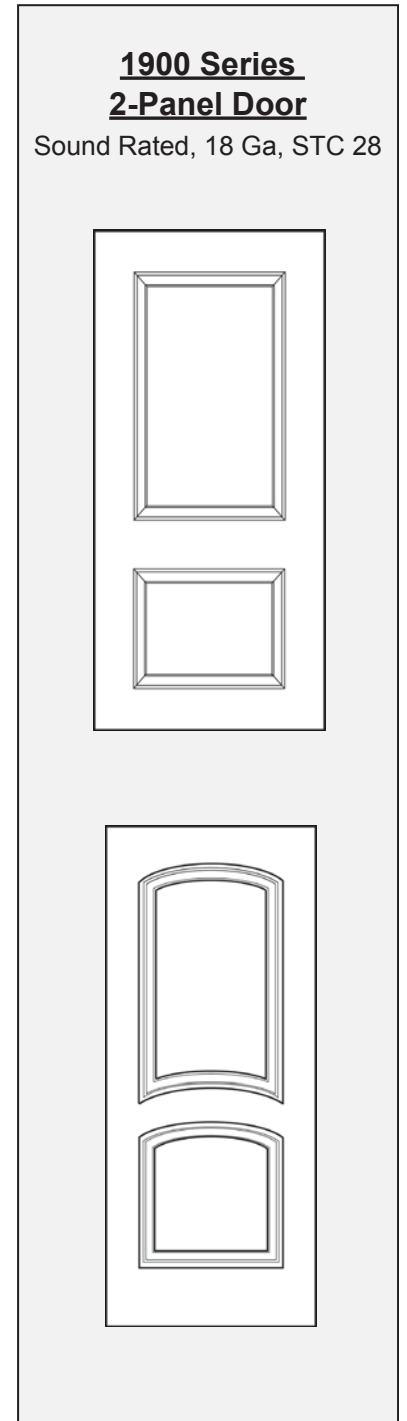
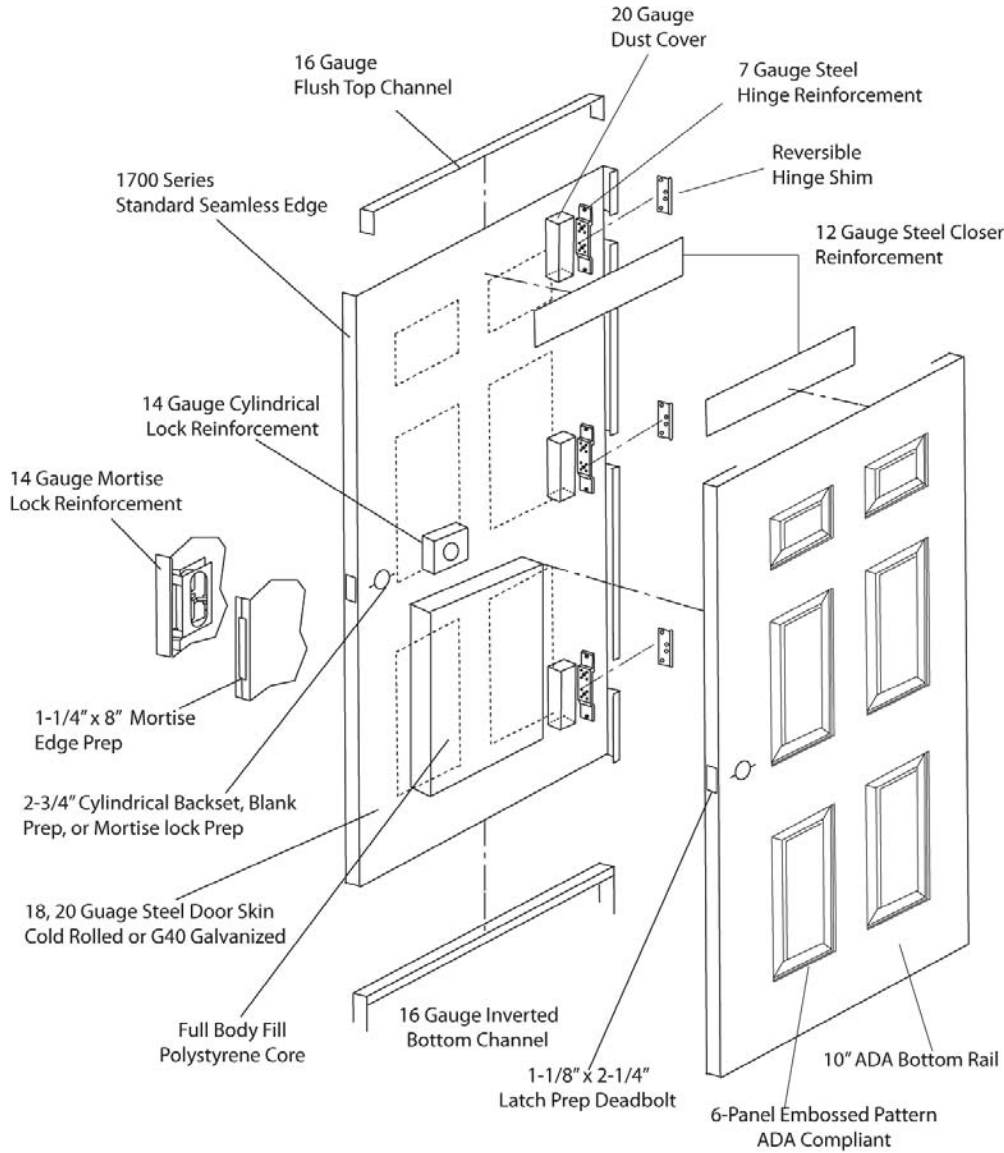
Sound Rated  
18 Ga, STC 28  
20 Ga, STC 27

## 32-1700 Series 6-Panel Door

Sound Rated  
18 Ga, STC 32

## 1900 Series 2-Panel Door

Sound Rated, 18 Ga, STC 28

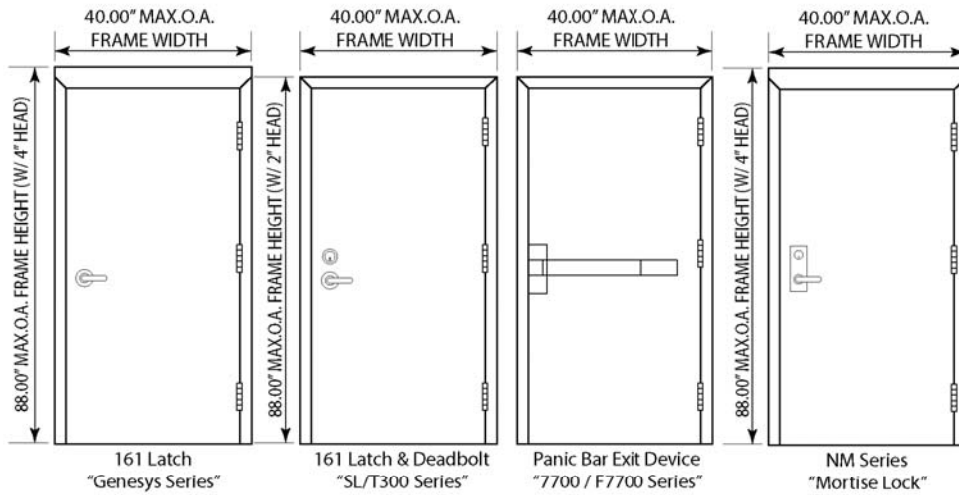




## 4G 1800 Series Hurricane-Tested Florida Approved FL-13624

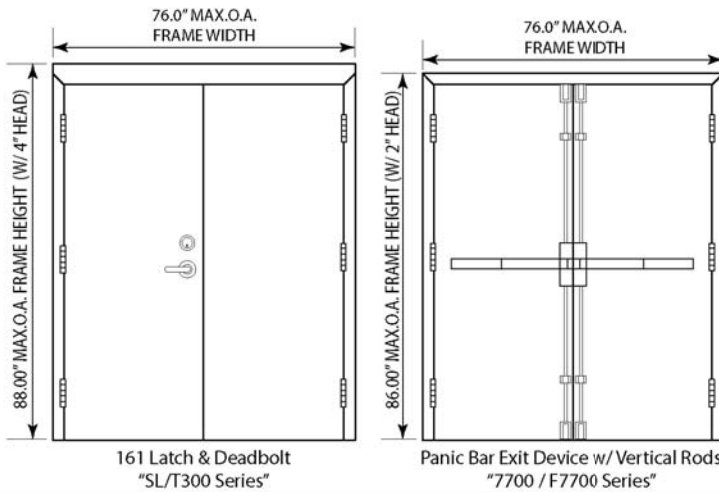


### COMMERCIAL STEEL SINGLE DOOR INSWING / OUTSWING "IMPACT" (COMPONENT TESTED)



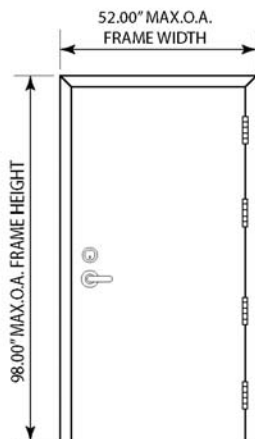
MAX FRAME DIMENSIONS	LOCK TYPE	DESIGN PRESSURE (PSF)			
		INSWING		OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
40.00" x 88.00"	161 LATCH & DEADBLOT "SL/T300 Series"	+55.0	-55.0	+55.0	-55.0
40.00" x 88.00"	161 LATCH "Genesys Series"	+70.0	-70.0	+70.0	-70.0
40.00" x 88.00"	PANIC BAR EXIT DEVICE "7700 / F7700 Series"	N/A	N/A	+70.0	-70.0
40.00" x 88.00"	NM Series "Mortise Lock"	+80.0	-80.0	+80.0	-80.0

### COMMERCIAL STEEL DOUBLE DOOR INSWING / OUTSWING "IMPACT"



MAX FRAME DIMENSIONS	LOCK TYPE	DESIGN PRESSURE (PSF)			
		INSWING		OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
76.00" x 88.00"	161 LATCH & DEADBLOT "SL/T300 Series"	+55.0	-55.0	+55.0	-55.0
76.00" x 88.00"	PANIC BAR EXIT DEVICE w/ VERTICAL RODS "7700 / F7700 Series"	N/A	N/A	+70.0	-70.0

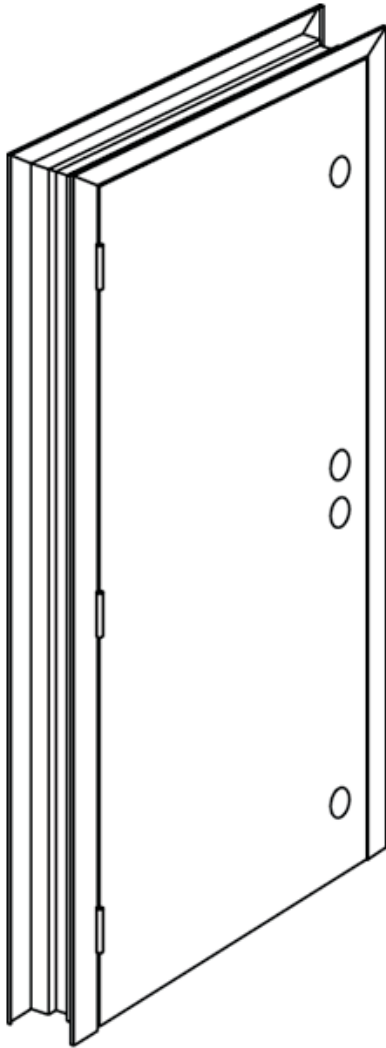
### COMMERCIAL STEEL DOOR OUTSWING "IMPACT"



OVERALL FRAME DIMENSIONS	LOCK TYPE	DESIGN PRESSURE (OUTSWING ONLY)	
		POSITIVE	NEGATIVE
52.00" x 98.00"	161 LATCH (CAL-ROYAL)	+80.0	-80.0



## 4G MD1400 SERIES MAXIMUM DUTY DOORS & FRAMES



### MAX-DUTY DOORS & FRAMES

- 14 Gauge Door
- 12 Gauge Frame
- 161 Prep and 3 Deadbolt Preps
- Polystyrene Core
- 2 3/4" Backset
- 3/8" Undercut
- 4 1/2" x 4 1/2" Heavy Duty Hinge Prep
- DKS Steel Door & Frame Locations

#### MAX DUTY DOORS

PART NUMBER	SIZE	PREP
MD2868	2866	C
MD3068	3068	C

#### MAX DUTY FRAMES

HAND	PART NUMBER	SIZE	DESCRIPTION
RH	MD4086	2868	5 3/4" 12 Gauge Frame with 3DL & ASA
LH	MD4087	2868	5 3/4" 12 Gauge Frame with 3DL & ASA
RH	MD4011	2868	8 3/4" 12 Gauge Frame with 3DL & ASA
LH	MD4012	2868	8 3/4" 12 Gauge Frame with 3DL & ASA
RH	MD4100	3068	5 3/4" 12 Gauge Frame with 3DL & ASA
LH	MD4101	3068	5 3/4" 12 Gauge Frame with 3DL & ASA
RH	MD4800	3068	8 3/4" 12 Gauge Frame with 3DL & ASA
LH	MD4801	3068	8 3/4" 12 Gauge Frame with 3DL & ASA



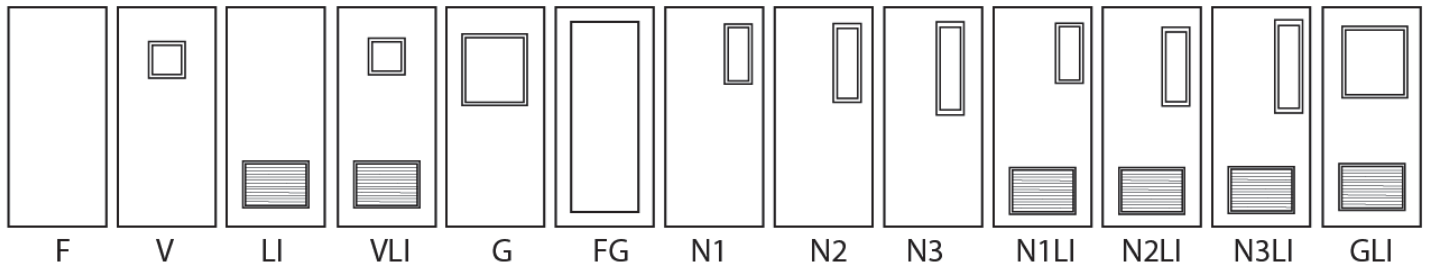


# 4G Door Specifications

Series	Type	Gauge	Core	CR/GALV	Edge	Handing	Thickness	Label	Max Size
1000	Flush	16, 18, 20	Polystyrene	CR/GALV	Corner Seam	Reversible	1 3/4"	3hr/PP/S	8'0 x 8'0
1100	Flush	16, 18, 20	Polystyrene or Honeycomb	CR/GALV	Lock Seam	Reversible or Handed	1 3/4"	3hr/PP/S	8'0 x 8'0
1200	Flush	20	Polystyrene	CR/GALV	Seamless	Reversible	1 3/4"	3hr/PP/S	8'0 x 8'0
1300	Stiffened	18	Mineral Wool Fill	GALV	Seamless	Handed	1 3/4"	3hr/PP/S	8'0 x 8'0
1400	Stiffened	16	Mineral Wool Fill	GALV	Seamless	Handed	1 3/4"	3hr/PP/S	8'0 x 8'0
MD1400	Max Duty	14	Polystyrene	GALV	Seamless	Reversible	1 3/4"	90 mins	4'0 x 8'0
WS1400	Wind Storm	14	SS	GALV	Seamless	Reversible	1 3/4"	90 mins	6'0 x 8'0
1500	Retrofit Replacement	18	Polystyrene	CR	Corner Seam	Reversible	1 3/4"	N/A	
1600	Flush	16	Polystyrene	GALV	Seamless	Reversible	1 3/4"	3hr/PP/S	8'0 x 8'0
1700	6-Panel	18, 20	Polystyrene	CR/GALV	Seamless	Reversible	1 3/4"	3hr/PP/S	8'0 x 8'0
1800	Flush	18	Polystyrene	CR/GALV	Seamless	Reversible	1 3/4"	3hr/PP/S	8'0 x 8'0
1900	2-Panel	18	Polystyrene	CR/GALV	Seamless	Reversible	1 3/4"	3hr/PP/S	6'0 x 7'0
2000	Flush	18	Honeycomb	CR/GALV	Seamless	Reversible	1 3/4"	3hr/PP/S	8'0 x 8'0
6000	Flush	18	Double Egress Honeycomb	CR/GALV	Seamless	Reversible	1 3/4"	3hr/PP/S	8'0 x 8'0
9000	Temp. Rise 250 Degrees	18	Mineral core	CR/GALV	Seamless	Reversible	1 3/4"	90 mins	8'0 x 8'0

CR: Cold Rolled, PP: Positive Pressure, GALV: Galvanized, S: Smoke

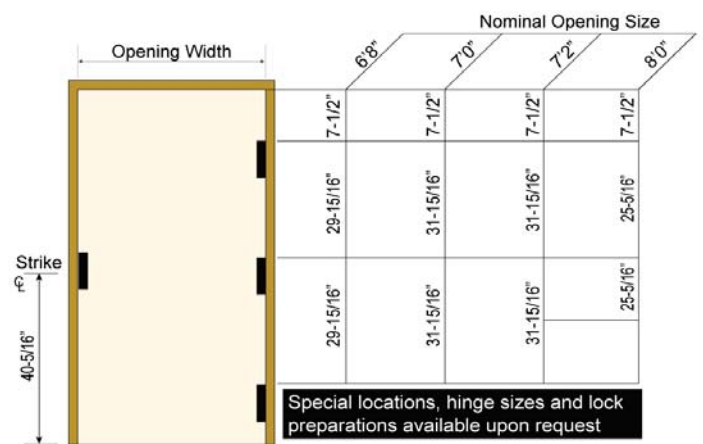
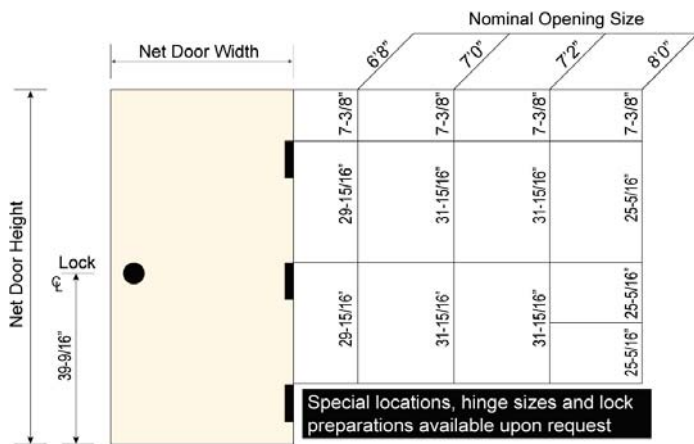
## Standard Door Types



### DOORS

### FRAMES

Standard Hardware Locations 4-1/2" Hinge



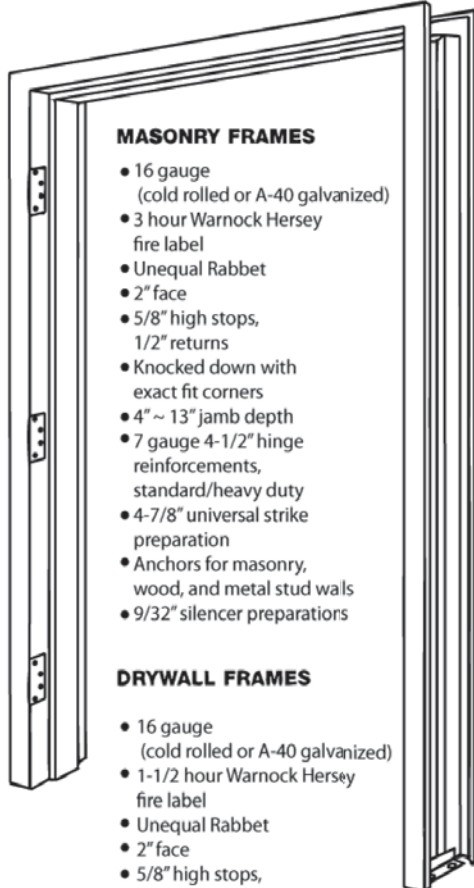


## Welded or Knock Down Steel Frames

4G manufactures steel frames in standard sizes. These frames have the tightest tolerances in the industry. 4G steel frames are available in 16 gauge for 1-3/4" doors.

All standard frames are manufactured from cold rolled or galvanized A-40 steel.

4G fire labeled steel frames carry up to 3-hour Intertek Mark.



**KNOCK DOWN CORNER**  
Exact fit corners provide for quick, easy, and accurate assembly.

**HINGE REINFORCEMENT**  
7 gauge standard/heavy duty hinge reinforcement.

**WOOD STUD ANCHOR**

**STEEL STUD ANCHOR**

**WIRE MASONRY**

**MASONRY FRAMES**

- 16 gauge (cold rolled or A-40 galvanized)
- 3 hour Warnock Hersey fire label
- Unequal Rabbet
- 2" face
- 5/8" high stops, 1/2" returns
- Knocked down with exact fit corners
- 4" ~ 13" jamb depth
- 7 gauge 4-1/2" hinge reinforcements, standard/heavy duty
- 4-7/8" universal strike preparation
- Anchors for masonry, wood, and metal stud walls
- 9/32" silencer preparations

**DRYWALL FRAMES**

- 16 gauge (cold rolled or A-40 galvanized)
- 1-1/2 hour Warnock Hersey fire label
- Unequal Rabbet
- 2" face
- 5/8" high stops, 1/2" double returns
- Knocked down with exact fit corners
- 5-7/8", 6-1/4", 6-3/4", 7-1/4", 7-3/4", 8-1/4", 8-3/4" jamb depth
- Screw adjusting compressor anchors
- 7 gauge 4-1/2" hinge reinforcements, standard/heavy duty
- 4-7/8" universal strike preparation
- 9/32" silencer preparations

Also available in 18 gauge (Cold rolled and A-40 galvanized)

**WELDED CORNER**  
Welded corners are tight fitting to provide a smooth seamless appearance.

**STRIKE REINFORCEMENT**  
14 gauge strike reinforcements and mortar boxes are designed for accurate and universal function.

**FLOOR ANCHOR**  
18 gauge floor anchors standard in all masonry frames.





## EXPANDABLE MASONRY AND DRYWALL FRAMES

The 4G EXP™ adjustable frame is a three piece system designed to adjust to multiple depth wall conditions. Slide rails placed inside the frame throat allow the frame to accommodate all jamb from 5 5/8" to 8 3/4" using a single frame.

The frame material used in manufacturing is A-40 galvanized 16 gauge. Prime painted with two part epoxy baked on at the factory.

Three 7 gauge 4.5 x 4.5 hinge reinforcements for 6'8" and 7'0" heights. Four 7 gauge hinge reinforcements for 8'0" height frames. All locations are 4G standard. All hinge reinforcements are prepared to accept standard weight or heavy weight template hinges. The ASA strike reinforcement is 12 gauge material drilled and tapped to accept 12-24 screws.

The frame is prepared for silencer application.

The frame carries the 90 minute WHI mark as standard.

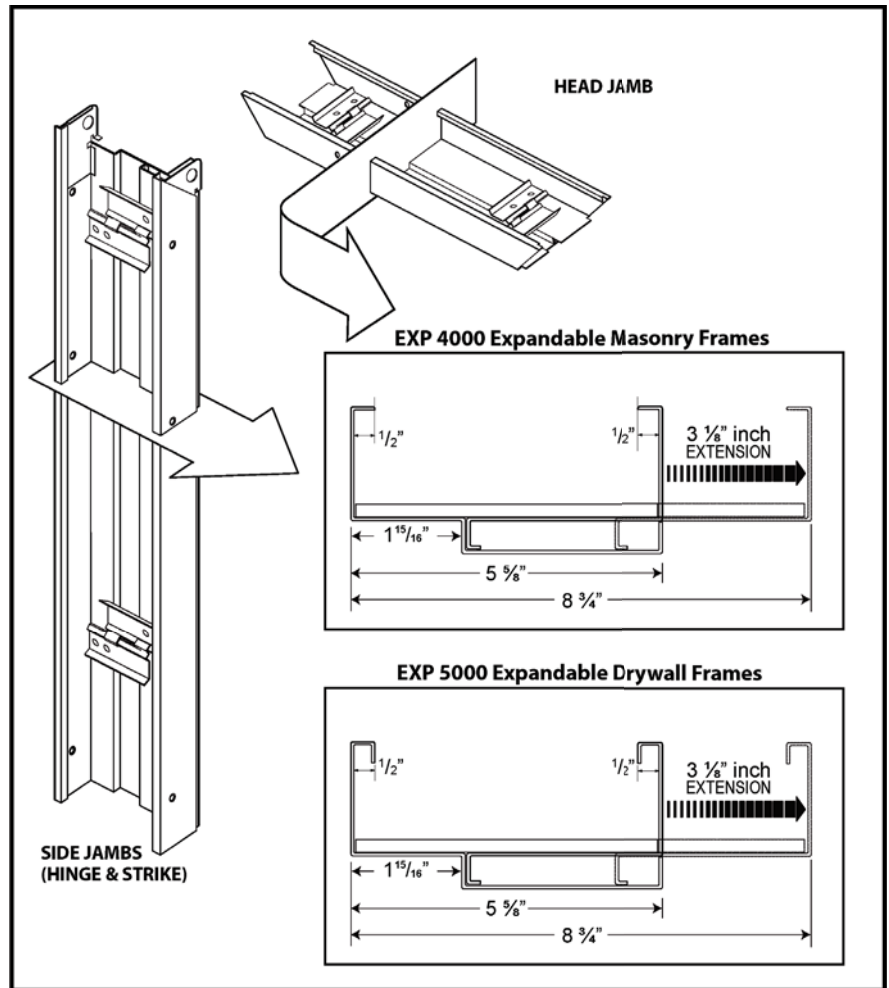
The EXP Frame is available in both 4G 4000 Series Masonry and 5000 Series Drywall configurations.



SLIDE RAILS



HINGE REINFORCEMENTS





## DOOR & FRAME ACCESSORIES

<b>MULTI-PURPOSE ADJUSTABLE DOOR ANCHOR</b>	<b>HEAVY DUTY ADJUSTABLE DRYWALL ANCHOR (HDADWA)</b>
	
<b>DOOR SILENCER (DSM21)</b>	<b>REVERSIBLE FLUSH BOLT STRIKE W/ BACKING PLATE (FLUSHSTRK-2)</b>
	
<b>DEAD LOCK REINFORCEMENT PLATE (DBCONV-2)</b>	<b>CLOSER REINFORCEMENT (CR01)</b>
	
<b>DOOR FRAME DRIP CAP (CR44640)</b>	
	

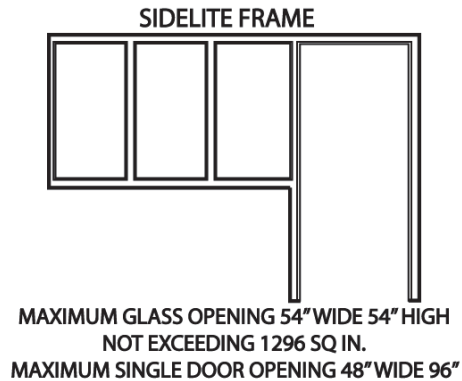
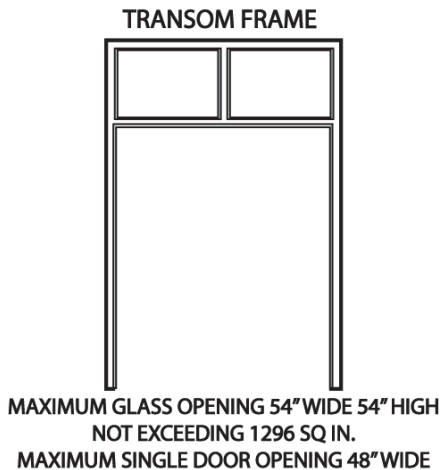
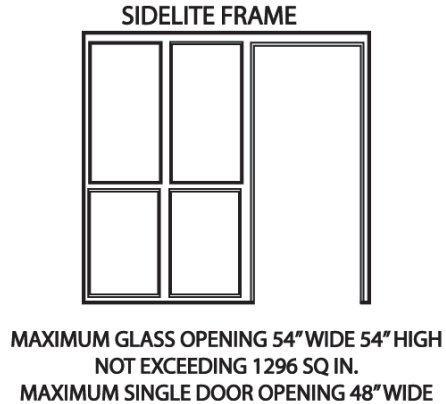
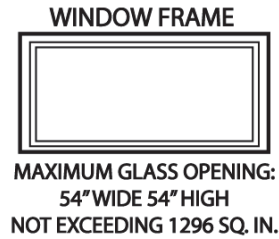
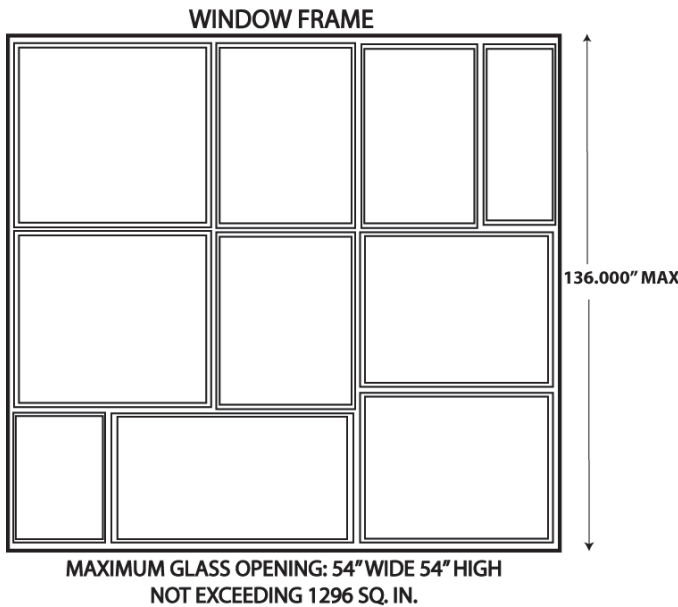
**CHECK OUR NEW CATALOGUE FOR A COMPLETE LISTING OF DOOR AND FRAME ACCESSORY ITEMS**



# 7500 Series Architectural Stick Components Sidelite, Transom, and Window Frames

## Fabrication Components

TYPE
Hinge Jamb 10'0", 6'8", & 7'0" locations
Strike Jamb 10'0", 6'8", & 7'0" locations
Hinge Mullion 10'0", 6'8", & 7'0" locations
Strike Mullion 10'0", 6'8", & 7'0" locations
Blank Mullion 10'0"
Blank Stick Material 10'0"



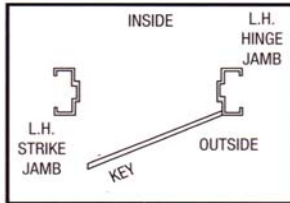


# Door and Frame Handing Chart

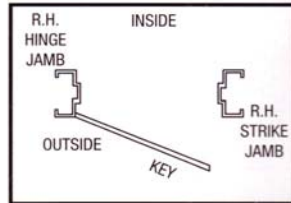
## SINGLE SWING DOORS

When door swings towards you and hinges are on right side of the door – **Door is R.H.R. / Frame is L.H.**

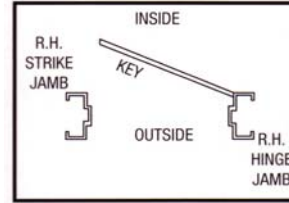
When door swings inside and hinges are on right side of the door – **Door is R.H. / Frame is R.H.**



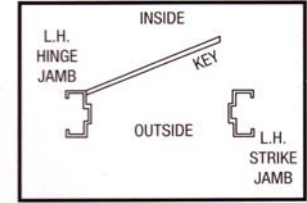
Right Hand Reverse Door  
(Swing Out) Left Hand Frame



Left Hand Reverse Door  
(Swing Out) Right Hand Frame



Right Hand Door (Swing In)  
Right Hand Frame



Left Hand Door (Swing In)  
Left Hand Frame

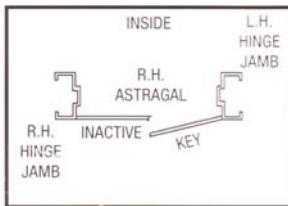
## DOUBLE DOORS

When door leaf swing towards you and hinges are on the right side of active leaf –

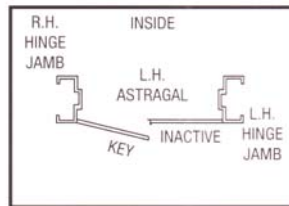
**Door is R.H.R Active / Frame is L.H. Active**

When door leaf swing inside and hinges are on the right side of active leaf –

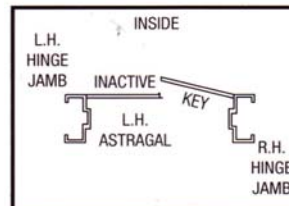
**Door is R.H. Active / Frames is R.H. Active**



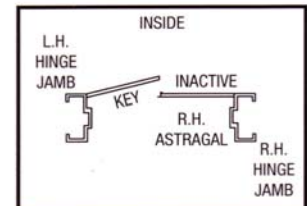
**OUTSIDE**  
Pair of Doors – R.H.R. Active  
(Swing Out)  
Double Door Frame L.H. Active



**OUTSIDE**  
Pair of Doors – L.H.R. Active  
(Swing Out)  
Double Door Frame R.H. Active



**OUTSIDE**  
Pair of Doors – R.H. Active  
(Swing In)  
Double Door Frame R.H. Active

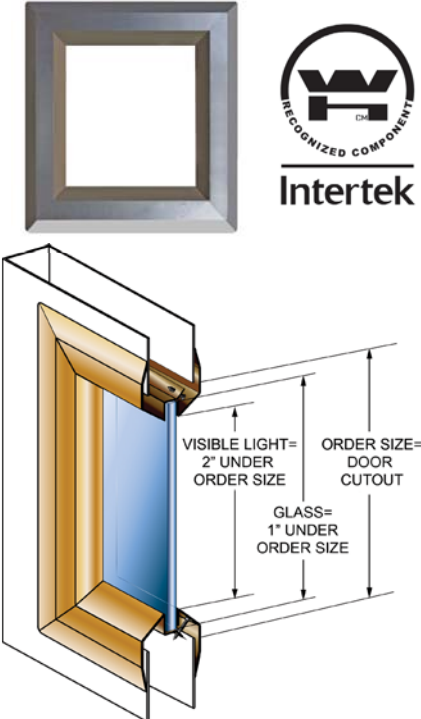


**OUTSIDE**  
Pair of Doors – L.H. Active  
(Swing In)  
Double Door Frame L.H. Active



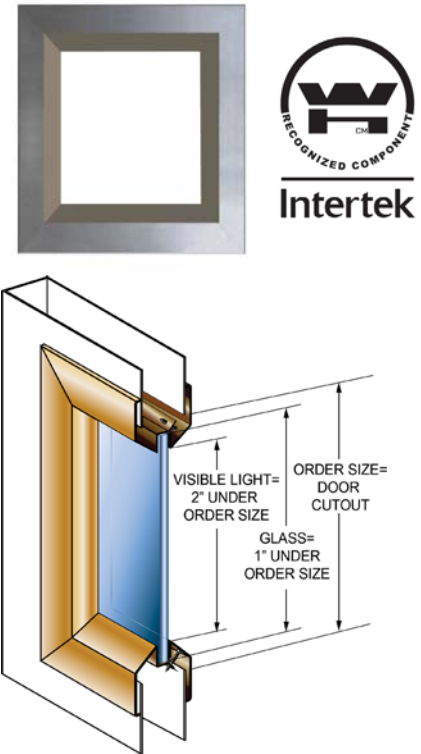
**45-180 Minute Fire-Rated Steel Vision Kits\***

**SVL , Vision Lite Low Profile**

ILLUSTRATION	SPECIFICATIONS
 <p>The illustration shows a top-down view of the SVL frame and a cross-sectional view. The cross-section labels indicate: VISIBLE LIGHT = 2" UNDER ORDER SIZE, ORDER SIZE = DOOR CUTOUT, and GLASS = 1" UNDER ORDER SIZE. The Intertek logo is also present.</p>	<p>For use in fire rated door applications under positive and neutral pressure. Intertek testing certification in compliance to NFPA 252 (2000), UL 10C (2009), CAN / ULS104 (2010), NFPA (201) and CSI CODE 0870 00.</p> <p><b>Specifications:</b></p> <ul style="list-style-type: none"> <li>- Low Profile Beveled Vision Lite</li> <li>- 20 Gauge Cold Rolled Steel</li> <li>- Mitered welded corners with counter sunk mounting holes</li> <li>- Single side attaching with matching mounting screws included</li> <li>- For use with 3/16" to 1/4" glass thickness</li> <li>- Designed for use with 1 3/4" doors only</li> <li>- Baked on powder coat finish</li> <li>- Color: Standard Bronze</li> <li>- Fastener: # 8 x 7/8" flathead phillips head SMS</li> </ul> <p><b>Kit Options:</b></p> <ul style="list-style-type: none"> <li>- Also available as a KIT or bundle which comes with the Frame, Glass and Glazing Tape.</li> <li>- Available glass types are Non-Fire Rated Tempered (1/4"), Fire Rated PROTECT3™ Wired Safety (1/4") and Pyran® Platinum F Glass (3/16")</li> </ul> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>- Order size is equal to opening size</li> <li>- Visible vision opening is 2" under order size</li> <li>- Glass size dimension is 1" under complete order size</li> <li>- Follow all door manufacturer's instructions for use and installation of all products</li> </ul> <p>* Refer to price list for list of fire rated sizes * <b>Custom sizes are available. See price list.</b></p>

**VL , Vision Lite Standard Profile for 3/16" to 1/4" Thick Glass Frames**

**10VL , Vision Lite Standard Profile for 1" Thick Glass Frames**

ILLUSTRATION	SPECIFICATIONS
 <p>The illustration shows a top-down view of the VL/10VL frame and a cross-sectional view. The cross-section labels indicate: VISIBLE LIGHT = 2" UNDER ORDER SIZE, ORDER SIZE = DOOR CUTOUT, and GLASS = 1" UNDER ORDER SIZE. The Intertek logo is also present.</p>	<p>For use in fire rated door applications under positive and neutral pressure. Intertek testing certification in compliance to NFPA 252 (2000), UL 10C (2009), CAN/ULS104 (2010), NFPA (201) and CSI CODE 0870 00.</p> <p><b>Specifications:</b></p> <ul style="list-style-type: none"> <li>- Standard Profile Beveled Vision Lite</li> <li>- 20 Gauge Cold Rolled Steel</li> <li>- Mitered welded corners with counter sunk mounting holes</li> <li>- Single side attaching with matching mounting screws included</li> <li>- For use with 3/16" to 1/4" glass thickness</li> <li>- Also available for 1" glass thickness (10VL Series)</li> <li>- Designed for use with 1 3/4" doors only</li> <li>- Baked on powder coat finish</li> <li>- Color: Standard Bronze</li> <li>- Fastener: # 8 x 7/8" flathead phillips head SMS</li> </ul> <p><b>Kit Options:</b></p> <ul style="list-style-type: none"> <li>- Also available as a KIT or bundle which comes with the Frame, Glass and Glazing Tape.</li> <li>- Available glass types are Non-Fire Rated Tempered (1/4"), Fire Rated PROTECT3™ Wired Safety (1/4") and Pyran® Platinum F Glass (3/16")</li> </ul> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>- Order size is equal to opening size</li> <li>- Visible vision opening is 2" under order size</li> <li>- Glass size dimension is 1" under complete order size</li> <li>- Follow all door manufacturer's instructions for use and installation of all products</li> </ul> <p>* Refer to price list for list of fire rated sizes * <b>Custom sizes are available. See price list.</b></p>



**Tempered, Pyran and Wire Shield**

**Glass for Low & Standard Profile Lite Kits**

**Tempered Glass (TEMP)**

- Clear wire free glass recommended for non-fire rated applications
- Heat treated clear safety glass that breaks into small particles. Glass cannot be cut after manufacturing.
- Thickness: 1/4" (6mm)
- Light transmission: 86% approx
- Minimum size: 2" x 2"
- Maximum sheet size: 88" x 118"
- Fire Rating: Non-Fire Rated

**WireShield (WS)**

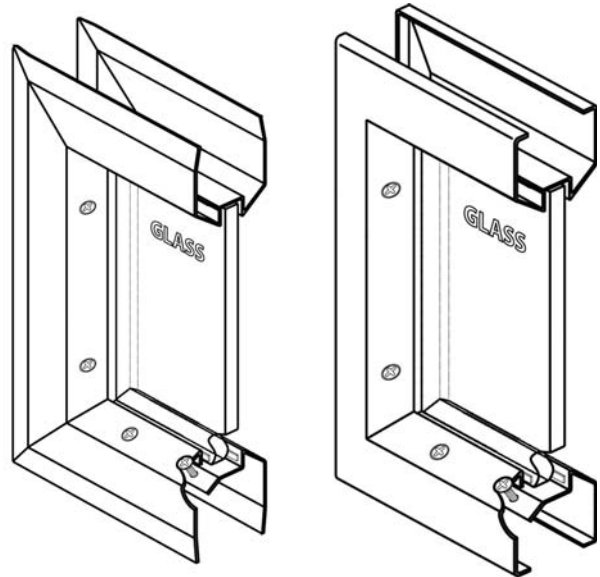
( PROTECT3™ Wired Safety Glass, Fire-Rated )

- Fire-Rated up to 90 minutes with hose stream
- UL classified and UL labeled
- Impact-Safety rated to ANSI Z97.1 and CPSC 16CFR1201 CAT I and II
- Passes 400 ft-lb impact tests
- Annealed single glazing with safety film applied to one side
- Passes air blast testing - minimum Level 3 @ 4.0PSI
- Embedded 3/4" x 3/4" wire mesh
- Light Transmission: 86% approx
- Thickness: 1/4" (6 mm)
- Minimum size: 4" x 4"
- Maximum sheet size: 36" x 84"

**Pyran (PPF)**

( PYRAN® PLATINUM F, Fire & Safety Rated )

- Fire-Rated up to 90 minutes (180 minutes in doors) with required hose stream test
- Fire and Safety-Rated Glass Impact / Safety Rated to ANSI Z97.1 and CPSC 16CFR1201 CAT II
- Thickness: 3/16" (5mm). Weight: 2.5 lbs / ft<sup>2</sup>
- UL labeled standard, 3/16" thick glass ceramic.
- Surface applied heavy duty safety film. Install in fire listed and labeled vision lite frames.
- Light transmission: 80% approx.
- Minimum size: 4" x 6"
- Maximum sheet size: 43" x 77"



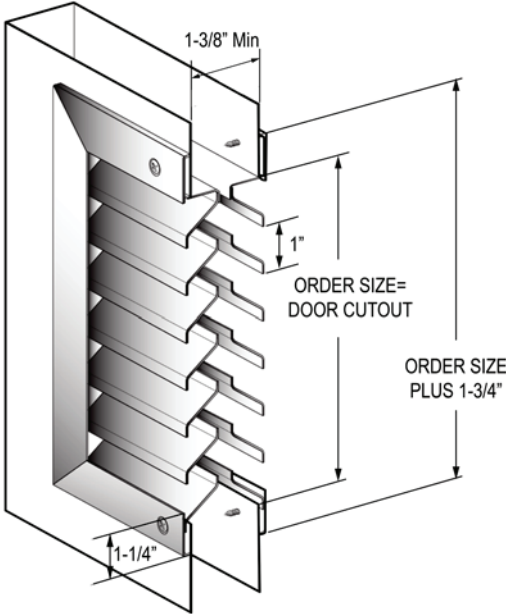


LISTINGS	Product	Rating	Application	Max Sq In (in <sup>2</sup> )	Max Width (in)	Max Height (in)	Stop Height (in)
WS	PROTECT3™ SAFETY WIRED GLASS (WireShield)	Up to 45 min	Doors, Metal	2856	34	84	5/8
		Up to 90 min	Doors, Metal	552	12	46	5/8
		Up to 60 min	Doors, Wood	960	12	80	5/8
		Up to 45 min	Window and Sidelites	4608	48	96	5/8
		Up to 45 min	Transom Lites	3456	96	36	5/8
PPF	Platinum F	Up to 90 min	Other than doors	3422	76	76	5/8
		Up to 90 min	Doors (Non-Temp Rise)	2736	36	76	5/8
		180 min	Doors	100	12	33	1/2



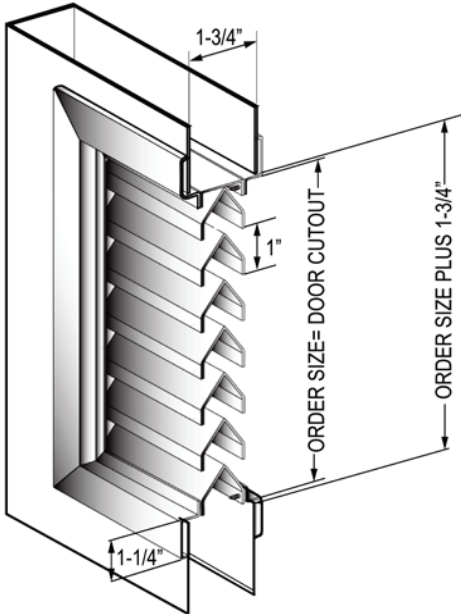


## 90 Minute Fire-Rated Steel Louvers\*

### YLV, Divided Reverse "Y" Blade, Inverted Louvers

ILLUSTRATION	SPECIFICATIONS	DIMENSIONS
 	<p>For use in fire-rated door applications under positive and neutral pressure Intertek testing certification in compliance to NFPA 252 (2000), UL 10C (2009), NFPA 252 (2012), CSI CODE 08 90 00 Louvers and Vents</p> <p><b>Specifications:</b></p> <ul style="list-style-type: none"> <li>- 18 Gauge cold rolled steel frame and blades</li> <li>- Mitered welded corner frame construction</li> <li>- Divided row "Y" blades spaced at 1" increments with blocked vision design</li> <li>- Counter sunk mounting holes with screws for each side of doors</li> <li>- Minimum door size thickness 1 3/8"</li> <li>- Baked on powder coat finish</li> <li>- Color: Standard Bronze</li> <li>- Fasteners: Phillips pan head screw # 8 x 3/4"</li> </ul> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>- Order size equal to opening size</li> <li>- Follow all door manufacturer's instructions for use and installation of all louver products</li> <li>- Optional Insect screen, see price list</li> <li>* Refer to pricelist for list of fire rated sizes</li> </ul>	

### VLV, Inverted Y-Blade Louvers

ILLUSTRATION	SPECIFICATIONS	DIMENSIONS
 	<p>For use in fire rated door applications under positive and neutral pressure Intertek testing certification in compliance to NFPA 252 (2000), UL 10C (2009), NFPA 252 (2012), CSI CODE 08 90 00 Louvers and Vents</p> <p><b>Specifications:</b></p> <ul style="list-style-type: none"> <li>- 18 Gauge cold rolled steel frame and blades</li> <li>- Mitered welded corner frame construction</li> <li>- Reverse "Y" blades are frame supported at 1" increments, with blocked vision design</li> <li>- Single side mounting for non-corridor exposure with fastening screws included</li> <li>- Designed for use on 1 3/4" doors only</li> <li>- Baked on powder coat finish</li> <li>- Color: Standard Bronze</li> <li>- Fasteners: Phillips pan head screw # 8 x 3/4"</li> </ul> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>- Order size equal to opening size</li> <li>- Follow all door manufacturer's instructions for use and installation of all louver products</li> <li>- Optional Insect screen, see price list</li> <li>* Refer to pricelist for list of fire rated sizes</li> </ul>	

**60-90 Minute Fire-Rated Fusible Link Louvers**

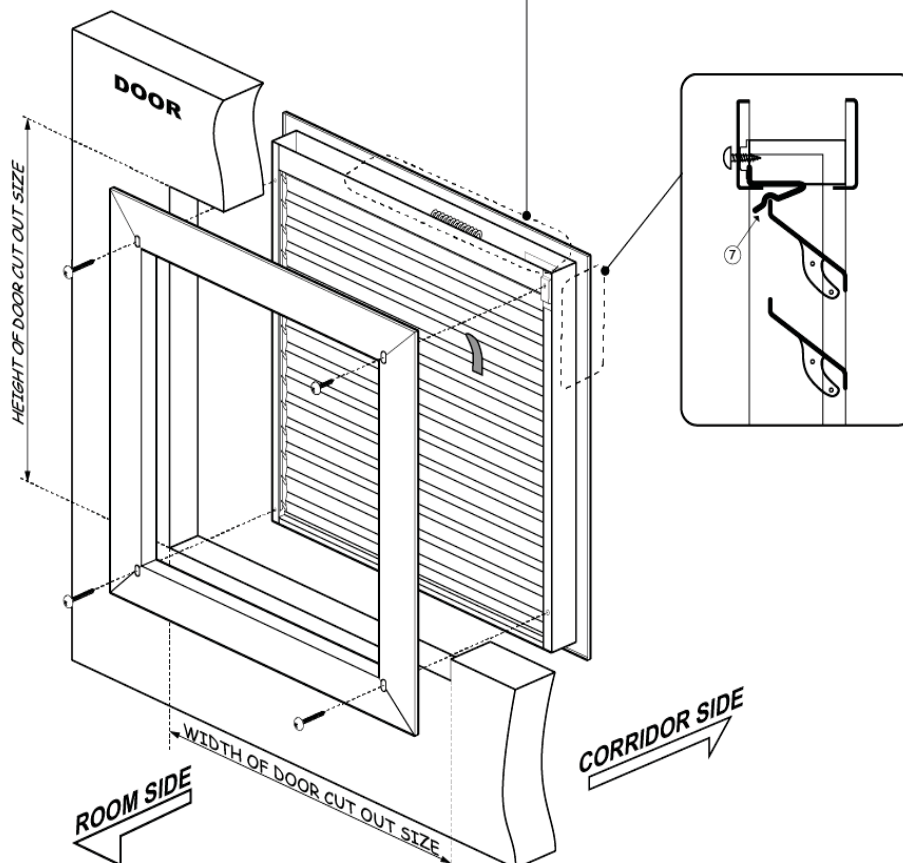
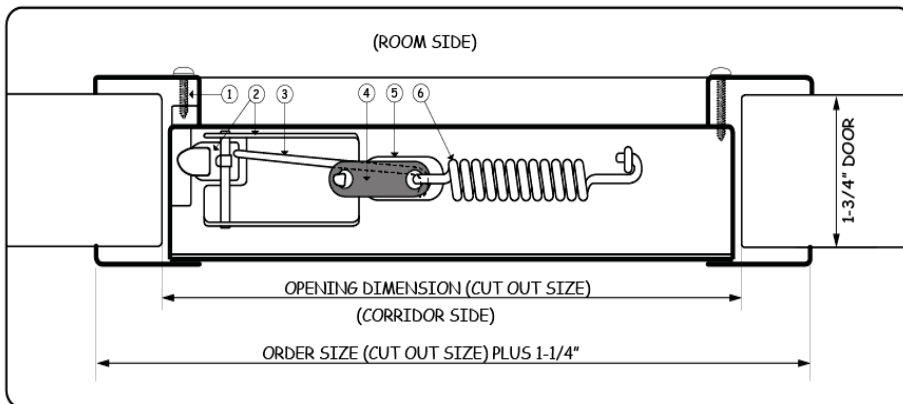
**FLLV, Adjustable Fusible Link Louvers**

Adjustable Fusible Link Louvers are recommended for use in rooms where ventilation is needed and at the same time isolating the room whenever fire is present. When louver is exposed to heat at 165°F, the fusible link trips and the spring loaded louver blades shut to form an air tight fire and smoke seal.

WHI Listing Mark with a 60-90 Minutes Fire Rating is stamped on the frame of the louvers.

Installation is easy. No need to drill holes for fasteners. All screws are mounted on the room side leaving the corridor side free of fasteners for security purposes.

Fuses are replaceable.



- 1 Mounting Screws - # 8 phillips head (3 x 3/4" LG & 1 x 1/2" LG)
- 2 Rocker Arm, Closing Bar and housing
- 3 "S" Hook - .080" Cadmium plated steel
- 4 Fusible link - Design temperature 165° F max
- 5 Heat opening - 1/2" x 1"
- 6 Tension spring - 3" LG x 1/2" dia x .063" thick Cadmium plated steel.
- 7 Flat Spring Clip

**Standard Features:**

- Material: 16 Gauge CRS Frame & Louver Blades
- Door: for 1 3/4" Doors only
- Fasteners: 3 x 3/4" LG & 1 x 1/2" LG
- Finish: Standard Bronze
- Free Flow Area: 45% free
- Construction:
  - Welded & mitered corners
  - Adjustable blades of 16-gauge CRS
  - Cadmium plated steel rivets
  - Cadmium plated steel tension spring
  - 1 9/16" deep louver assembly
  - Optional Insect screens, see price list



## U.S. GREEN BUILDING COUNCIL LEED RATING STATEMENT

In accordance with our current records of LEED rating systems for applicability to architectural hollow metal doors and frames, we hereby certify the following:

### Applicable LEED Programs and Credits:

- Recycled Content (Cold Rolled Steel)

<b>DKS DOOR SYSTEMS Cold Rolled Steel Product Lines</b>	<b>Post-Consumer Recycled Content</b>	<b>Post-Consumer Recycled Content</b>	<b>Total LEED Recycled Content Percentage</b>
1000/1100/1200/1300/1400/1500/ 1600/1700/1800/1900/2000/6000/ 9000 <b>DOOR SERIES</b>	36.8%	6.6%	40.1%
3000/4000/4500/5000/7000/ 75000-78000 <b>FRAME SERIES</b>	36.8%	6.6%	40.1%

- Recycled Content (Galvanized Steel)

<b>DKS DOOR SYSTEMS Galvanized Product Lines</b>	<b>Post-Consumer Recycled Content</b>	<b>Post-Consumer Recycled Content</b>	<b>Total LEED Recycled Content Percentage</b>
1000/1100/1200/1300/1400/1500/ 1600/1700/1800/1900/2000/6000/ 9000 <b>DOOR SERIES</b>	22.7%	2.4%	23.9%
3000/4000/4500/5000/7000/ 75000-78000 <b>FRAME SERIES</b>	22.7%	2.4%	23.9%

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# 4G Doors

31147 Plymouth Rd. Livonia, MI 48150 734-883-7468

sales@4gdoors.com www.4gdoors.com

## CREDIT APPLICATION

DATE: \_\_\_\_\_

### Company Name

BILLING ADDRESS: \_\_\_\_\_  
CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

### Shipping Address

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_  
PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_

Type of Business: \_\_\_\_\_ Years at present location: \_\_\_\_\_

### Type of Organization

- Private Corporation
- Partnership
- Public corporation
- Individual
- Other \_\_\_\_\_

### Principals

Email address \_\_\_\_\_

NAME	POSITION	HOME ADDRESS	PHONE#

### Bank Reference

Bank: \_\_\_\_\_ Account # \_\_\_\_\_  
Address: \_\_\_\_\_ Phone # \_\_\_\_\_

### Trade References

( Minimum of 3 With fax # )

NAME	ADDRESS	PHONE#	FAX#

### Credit Limit Requested

\_\_\_\_\_

NEED MONTHLY STATEMENT:  YES  NO

In making this application for credit, the customer agrees to pay all invoices within 30 days from date of invoice and to pay a service charge of 1.5% per month, which is an annual percentage rate of 18% on all overdue balances. In the event a suit is necessary to collect any amount, the customer agrees to pay the seller's reasonable attorney fees and costs including attorneys fees for appeal.

### Signature

\_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

### Office use only

Credit limit \$	_____	Account #	_____
Date approved:	_____	CR#	_____
Signature:	_____	Discount:	_____
Reps Signature	_____	Date	_____