

GENFRAME™ SERIES

Tough to the core™

GenFrame™ DW/MA-12

GenFrame™ DW/MA-14

GenFrame™ DW/MA-16

GenFrame™ DW/MA-18

GenFrame™ DW/MA-22



Gensteel offers a full range of steel frames in standard or custom sizes and profiles. Steel frames are available for dry wall or masonry applications in 12, 14, 16, and 18 gauge for 1¾ in. (45 mm) doors and in 22 gauge for 1¾ in. (35 mm) doors. All standard frames are manufactured from galvanized steel and are reinforced to receive specified architectural hardware in accordance to ANSI A115 standards. Frames are also available in stainless steel, lead-lined (x-ray) and G90 galvanized steel.

Gensteel also offers a full line of frames with thermal break for cold climate exterior applications.

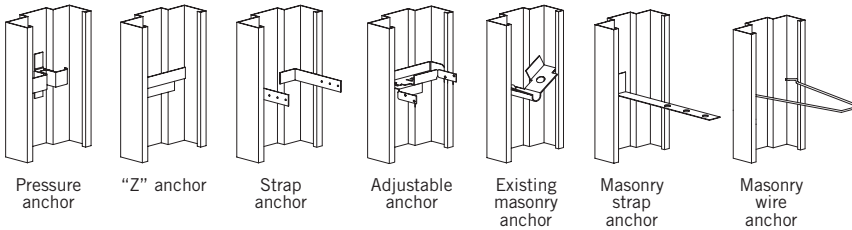
General Specifications

- Standard frames are available as welded-up or knock down (KD).
- Hinge jambs are prepared and reinforced to receive 3 standard weight 4½" x 4½" (114 mm x 114 mm) butt hinges. Hinge reinforcements can easily be converted to accommodate heavy weight hinges.
- Strike jambs are prepared and reinforced to receive one standard 4⅞" (124 mm) strike in accordance to ANSI A115.1.
- Hinge and strike jambs are supplied with appropriate wall anchors.
- On welded-up frames, all welded joints are ground smooth and touched-up with primer paint to provide a seamless look.

Frame Construction

- A 12, 14, 16, 18 or 22 gauge galvanized steel.
- B Knock down or welded-up corners.
- C 10 gauge high frequency dual purpose hinge reinforcement with return bend for added strength. Can easily be converted to accommodate heavy weight hinges.
- D 18 gauge ASA strike reinforcement with closed back.
- E 18 gauge floor anchor.
- High precision **QUICKFIT™** certified assembly.

Available Wall Anchors



Recommended Uses	Light Duty	Standard Duty	Medium Duty	Heavy Duty	Extra Heavy Duty
GenFrame™ DW/MA-12					X
GenFrame™ DW/MA-14				X	X
GenFrame™ DW/MA-16			X	X	
GenFrame™ DW/MA-18		X	X		
GenFrame™ DW/MA-22	X				

Fire Labels



Gensteel fire labeled steel frames are approved by both Intertek Testing Services (ITS Warnock Hersey) and Underwriters Laboratories (UL) Fire Labeling Programs*. Fire labeled steel frames must be installed with an equivalent fire labeled door with approved fire listed hardware. For fire labeling restrictions and limitations refer to the Fire Labeling Guide for Steel Frames.

* 22 gauge frames cannot be fire rated

Fire Labeling Guide for Steel Frames

Type	Min. Gauge	Min. Throat Opening	Max Frame Rebate Sizes		Available Rating	Notes
			Single	Double		
Basic frames	16	3½" double rabbet 2½" single rabbet	4'0" x 10'0"	8'0" x 10'0"	3 h 1½ h 45 min	For drywall or masonry openings. Available knock down or welded-up
	18	4½"	3'0" x 7'0"	6'0" x 7'0"		
Frames with center mullion	16	3½" double rabbet 2½" single rabbet	—	4'0" x 8'0"	3 h 1½ h 45 min	For drywall or masonry openings. Center mullion may be fixed or removable.
Double egress frames	16	3½"	—	8'0" x 8'0"	3 h, 1½ h, 45 min	For drywall or masonry openings.
Multi-opening frames	16	2½"	—	12'0" x 8'0" with no individual opening to exceed 8'0" x 8'0"	1½ h 45 min	For masonry openings. Mullions may be fixed or removable.
Transom frames with or without transom bar	16	3"	4'0" x 11'2" transom panel height ≤ 4'2", door opening height ≤ 9'0"	8'0" x 11'0" transom panel height ≤ 4'0", door opening height ≤ 9'0"	1½ h 45 min	For drywall or masonry openings
Glazed or paneled screens	16	3"	13'6" x 12'0" overall for masonry opening 11'4" x 10'0" overall for drywall opening maximum door opening size 8'0" x 8'0"		45 min	Glazed opening area ≤ 1296 in. ² per glazed opening. Glazing width & height ≤ 4'6".
	16	4½"	10'2" x 10'1" overall for drywall or masonry openings maximum door opening size 8'0" x 8'0"		1½ h 45 min	Transom panel size ≤ 3'5" x 2'2". Side panel area ≤ 1296 in. ² per side panel with width ≤ 2'6" & height ≤ 4'6".
Window frames	16	3"	13'6" x 12'0" overall for masonry opening 11'4" x 10'0" overall for drywall opening		45 min	Glazed opening area ≤ 1296 in. ² per glazed opening. Glazing width & height ≤ 4'6".

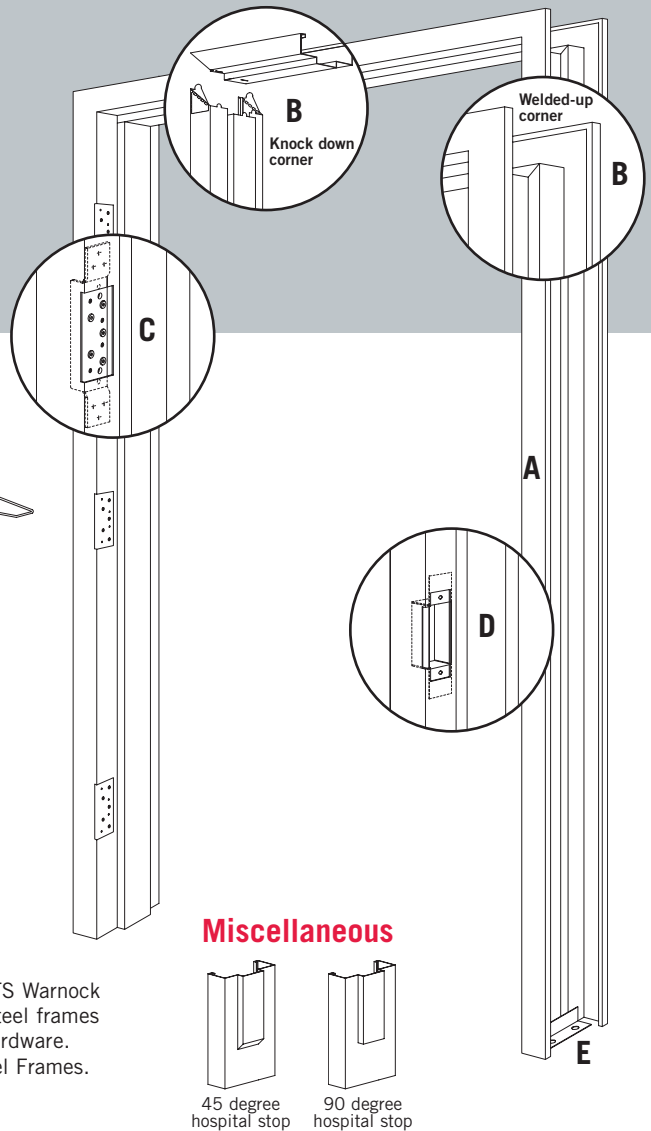
As a result of Gensteel's ongoing quest for improvement, technical specifications are subject to change without notice.



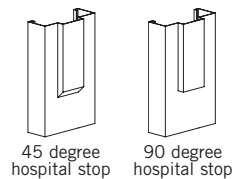
Head Office & Manufacturing Plant
 4950 Hickmore, St. Laurent, Quebec, Canada H4T 1K6
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 Manufacturing Plant: Cornwall, Ontario
 U.S. Manufacturing Plant: Plattsburgh, NY

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Miscellaneous



GENSHIELD™ SERIES

Tough to the core™

GenShield™ 16

GenShield™ 18

GenShield™ 20



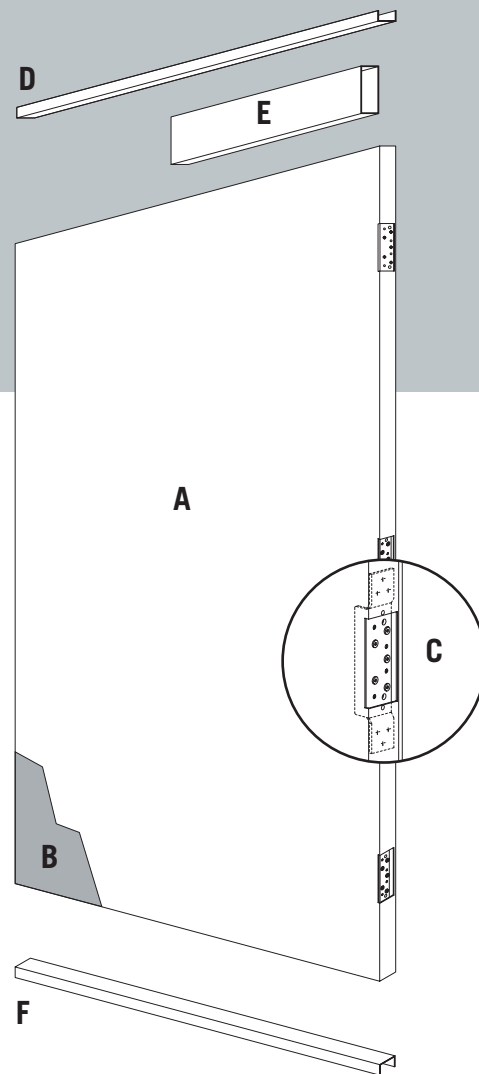
The **GenShield Series** is a temperature rise door designed to impede and limit heat transmission generated from a fire. The core's excellent heat retardant characteristic protects the unexposed area thus allowing ample time for safe evacuation. In accordance to temperature rise standards, the unexposed door surface will reach a maximum of 250°F during the first 30 minutes of a fire and 450°F after 60 minutes. Standard doors are 1¾ in. (45 mm) thick and are available in 16, 18, and 20 gauge galvanized steel.

General Specifications

- Door faces are flush and free of any joints, welds or seams.
- Longitudinal door edges are interlocked with mechanical seam and reinforced with epoxy adhesive (seamless edge optional).
- Door edges are beveled 1/8" (3 mm) in 2" (50 mm).
- Door hinge reinforcements are prepared for standard weight 4½" x 4½" (114 mm x 114 mm) hinges which can easily be converted to accommodate heavy weight hinges.

Door Construction

- A** Door face sheet, galvanized steel.
- B** Core (composite board).
- C** 10 gauge high frequency dual purpose hinge reinforcement with return bend for added strength. Can easily be converted to accommodate heavy weight hinges.
- D** 18 gauge inverted top channel projection welded to door skins and tack welded at each corner for extra rigidity.
- E** 18 gauge door closer reinforcement box.
- F** 18 gauge inverted bottom channel projection welded to door skins and tack welded at each corner for extra rigidity.

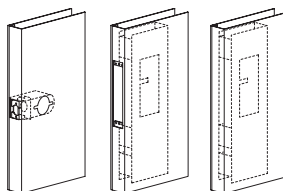


Standard Lock Preparations

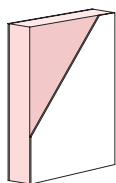
161 cylindrical lock assembly reinforcement with added barrel support projection welded to door edge, in accordance with ANSI A115.2 requirements.

86 edge mortise lock preparation reinforcement box with integrated lock support, in accordance with ANSI A115.1 requirements.

Rim panic reinforcement box for surface mounted exit device application.



Available Core



Composite board

Fire Labels

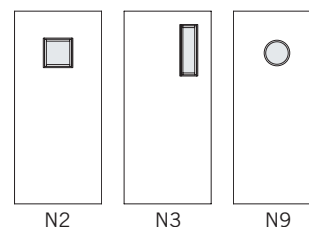
GenShield Series fire labeled doors are approved by both Intertek Testing Services (ITS Warnock Hersey) and Underwriters Laboratories (UL) Fire Labeling Programs. Doors can be fire labeled for up to 3 hours and must be installed in an equivalent fire labeled frame with approved fire listed hardware. For fire labeling restrictions and limitations refer to Gensteel's Fire Labeling Guide for Hollow Metal Doors.



Fire Labeling Guide for Hollow Metal Doors		
Maximum Door Opening Size:		
Single Opening 4'0" x 8'0"		Double Door Opening 8'0" x 8'0"
Minimum Gauge	Rating	Allowable Glass Area
20	3 h	Nil
20	1½ h	100 in. ²

Recommended Uses	Standard Duty	Medium Duty	Heavy Duty
GenShield™ 16			X
GenShield™ 18		X	X
GenShield™ 20	X	X	

Lites



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G-10 WARRANTY

Gensteel doors come with an unrivalled 10-year warranty against delamination.



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GENBUILT™ SERIES

Tough to the core™

GenBuilt™ Plus 14

GenBuilt™ 16

GenBuilt™ 18

GenBuilt™ 20



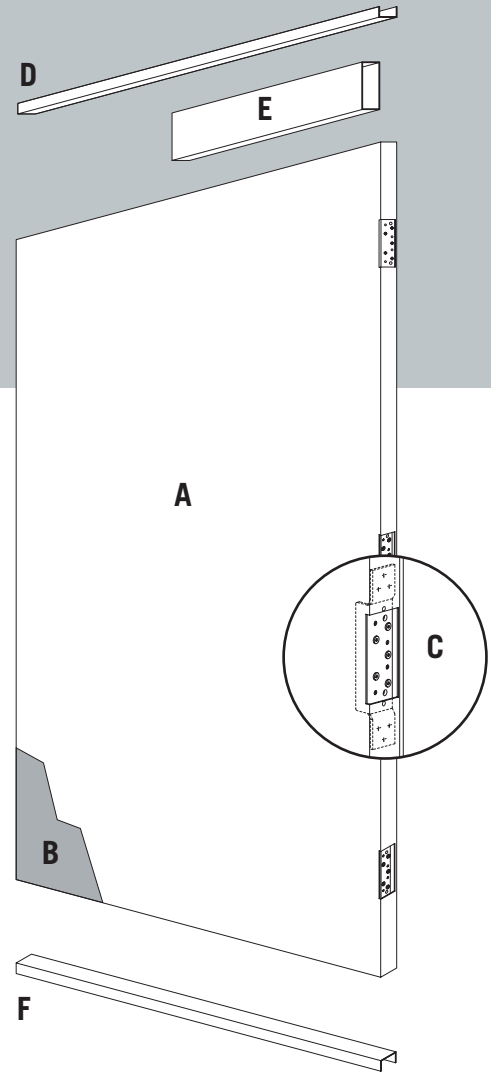
The **GenBuilt Series** is available in numerous configurations. We offer standard, ready to ship products as well as engineered products for custom applications. Standard doors are 1¾ in. (45 mm) thick and are available in 14, 16, 18, and 20 gauge galvanized steel. The GenBuilt Series is also available in stainless steel and G90 galvanized steel.

General Specifications

- Door faces are flush and free of any joints, welds or seams.
- Longitudinal door edges are interlocked with mechanical seam and reinforced with epoxy adhesive (seamless edge optional).
- Door edges are beveled 1/8" (3 mm) in 2" (50 mm).
- Door hinge reinforcements are prepared for standard weight 4½" x 4½" (114 mm x 114 mm) hinges which can easily be converted to accommodate heavy weight hinges.

Door Construction

- A** Door face sheet (galvannealed, stainless steel, G90 galvanized steel).
- B** Core (honeycomb, polystyrene, polyurethane).
- C** 10 gauge high frequency dual purpose hinge reinforcement with return bend for added strength. Can easily be converted to accommodate heavy weight hinges.
- D** 18 gauge inverted top channel projection welded to door skins and tack welded at each corner for extra rigidity.
- E** 18 gauge door closer reinforcement box.
- F** 18 gauge inverted bottom channel projection welded to door skins and tack welded at each corner for extra rigidity.

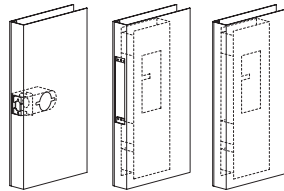


Standard Lock Preparations

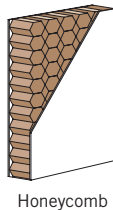
161 cylindrical lock assembly reinforcement with added barrel support projection welded to door edge, in accordance with ANSI A115.2 requirements.

86 edge mortise lock preparation reinforcement box with integrated lock support, in accordance with ANSI A115.1 requirements.

Rim panic reinforcement box for surface mounted exit device application.



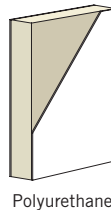
Available Cores



Honeycomb



Polystyrene



Polyurethane

Fire Labels

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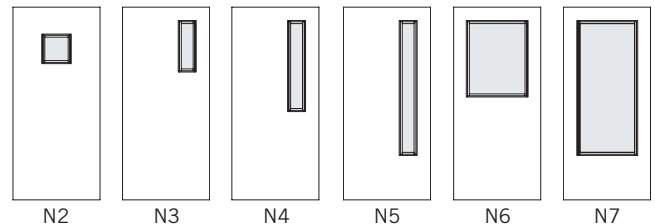


Fire Labeling Guide for Hollow Metal Doors		
Maximum Door Opening Size:		
Single Opening 4'0" x 8'0"		Double Door Opening 8'0" x 8'0"
Minimum Gauge	Rating	Allowable Glass Area
20	3 h	Nil
20	1½ h	100 in. ²
20	45 min	1296 in. ²

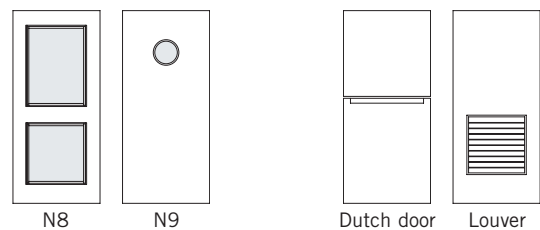
Recommended Uses	Standard Duty	Medium Duty	Heavy Duty	Extra Heavy Duty
GenBuilt™ Plus 14				X
GenBuilt™ 16			X	
GenBuilt™ 18		X	X	
GenBuilt™ 20	X	X		

Lead-lined (x-ray) doors are also available for specialized applications

Lites



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