

Fire resistance certification (WHI)

Putting emphasis on its customers' satisfaction, Métalec is continually developing new fire rated products to meet the constant growing demand of the market.

Among its vast range of products, Métalec manufactures fire rated steel doors and frames according to your needs.

- Métalec are approved by the Warnock Hersey (ITS) laboratory highly recognized in the industry;
- The steel doors and frames have been verified, inspected and approved in conformance with:
 - CAN/ULC-S104-M80
 - UBC7-2(1994)
 - UL10(b)
 - NFPA252
 - NFPA80
 - ASTM E152 (Standard methods of fire tests of door assemblies)

A regular verification is made at the factory by a WHI laboratory inspector during the manufacturing.

Métalec has a full range of fire listed products with Warnock Hersey and are available with the following fire ratings:

20 min. (D)

45 min. (C)

90 min. (B)

180 min. (A)

See the Fire Labelling Guide tables at the end of this brochure.

Fire labelling guide

Fire rated DOORS

Maximum rating (hours)	Door types			Maximum door size	Steel thickness (gauge)	Door core	Glazed openings (maximum surface)
	Single	Double					
		Regular	Double egress				
3	X	-	-	1067 mm x 2286 mm (42" x 90")	20-18-16	Honeycomb	n/a
3	X	-	-	1067 mm x 2388 mm (42" x 94")	20-18-16	Honeycomb	n/a
3	X	-	-	1067 mm x 2134 mm (42" x 84" (120") avec imposte)	20-18-16	Honeycomb	n/a
3	-	X	-	2134 mm x 2286 mm (84" x 90")	20-18-16	Honeycomb	n/a
3	X	-	-	1220 mm x 2134 mm (48" x 84")	16	Vertical stiffeners (wool)	n/a
3	-	X	-	2440 mm x 2134 mm (96" x 84")	16	Vertical stiffeners (wool)	n/a
3	X	-	-	1220 mm x 2134 mm (48" x 84")	18-16-14	STC-36 to STC-44	n/a
3	-	X	-	2440 mm x 2134 mm (96" x 84")	18-16-14	STC-36 to STC-44	n/a
3**	X	-	-	1220 mm x 2440 mm (48" x 96")	20-18-16	Temperature rise	n/a
3**	-	X	-	2440 mm x 2440 mm (96" x 96")	20-18-16	Temperature rise	n/a
1 1/2	X	-	-	1220 mm x 2440 mm (48" x 96")	16	Vertical stiffeners (Temperature rise or fiberglass)	0.065 m ² (100 po ²)
1 1/2	-	X	-	2440 mm x 2440 mm (96" x 96")	16	Vertical stiffeners (Temperature rise or fiberglass)	0.065 m ² (100 po ²)
1 1/2	X	-	-	1220 mm x 2440 mm (48" x 96")	20-18-16	Honeycomb or temperature rise	0.065 m ² (100 po ²)
1 1/2	-	X	X	2440 mm x 2440 mm (96" x 96")	20-18-16	Honeycomb or temperature rise	0.065 m ² (100 po ²)
1 1/2	X	-	-	915 mm x 2134 mm (36" x 84")	14	Honeycomb	0.065 m ² (100 po ²)
1 1/2	-	X	-	2134 mm x 2134 mm (84" x 84")	14	Honeycomb	0.065 m ² (100 po ²)
1 1/2**	X	-	-	915 mm x 2134 mm (36" x 84")	20-18-16	Polystyrene or polyisocyanurate	0.065 m ² (100 po ²)
3/4	X	-	-	1220 mm x 2440 mm (48" x 96")	20-18-16	Honeycomb	0.84 m ² (1296 po ²)
3/4	-	X	X	2440 mm x 2440 mm (96" x 96")	20-18-16	Honeycomb	0.84 m ² (1296 po ²)
3/4	X	-	-	915 mm x 2134 mm (36" x 84")	14	Honeycomb	0.84 m ² (1296 po ²)
3/4	-	X	-	2134 mm x 2134 mm (84" x 84")	14	Honeycomb	0.84 m ² (1296 po ²)

* Stainless steel ** Positive pressure

Fire rated FRAMES

Maximum rating (hours)	Frame types	Maximum frame size	Steel thickness (gauge)	Minimum wall thickness	Transom
3*	Single frame with transom	1220 mm x 3048 mm (48" x 120")	16*	90 mm (3 1/2")	Panel
3*	Double frame with transom	2440 mm x 3048 mm (96" x 120")	16*	90 mm (3 1/2")	Panel
3*	Single frame	1220 mm x 2440 mm (48" x 96")	16*	90 mm (3 1/2")	n/a
3*	Double frame	2440 mm x 2440 mm (96" x 96")	16*	90 mm (3 1/2")	n/a
1 1/2	Double egress frame	2440 mm x 2440 mm (96" x 96")	16	90 mm (3 1/2")	n/a
1 1/2	Bay-side frame	3048 mm x 2185 mm (120" x 86")	18	114 mm (4 1/2")	Panel
1 1/2	Single frame	1067 mm x 2134 mm (42" x 84")	18	114 mm (4 1/2")	n/a
1 1/2	Double frame	2134 mm x 2134 mm (84" x 84")	18	114 mm (4 1/2")	n/a
3/4*	Single frame with transom	1220 mm x 3048 mm (48" x 120")	16*	90 mm (3 1/2")	Panel or wired glass
3/4*	Double frame with transom	2440 mm x 3048 mm (96" x 120")	16*	90 mm (3 1/2")	Panel or wired glass
3/4*	Side lite frame (or window)	3048 mm x 2185 mm (120" x 86")	18	114 mm (4 1/2")	Panel or wired glass

* Steel or stainless steel

NOTE: The maximum area of exposed glass is 0.84 m² (1,296 in²) (example: 915 mm x 915 mm (36" x 36")) and must not exceed either 1.372 m (54") in height or 1.372 m (54") in width.