

	IBC WALL		DOORS		WINDOWS, SIDELITES & TRANSOMS			
Type of Assembly	Required Wall Assembly	Minimum Fire Door & Fire Shutter Assembly Rating (hours)	Recommended Product for Door Vision Panel Frame Type	Fire-Rated Glazing Marking for Door Vision Panel <sup>c,e</sup>	Recommended Product for Sidelight / Transom Panels		Fire-Rated Glazing Marking for Sidelight / Transom Panel	
	Rating (hours)				Fire Protection Frame Type	Fire Resistance Frame Type	Fire Protection	Fire Resistance
Fire walls and fire barriers having a required fire-resistance rating greater than 1 hour	4	3	See note b	D-H-W-240	Not Permitted	4 Hours (240 min)	Not Permitted	W-240
	3	3ª	See note b	D-H-W-180	Not Permitted	CONTRAFLAM 180	Not Permitted	W-180
	2	1½	KERALITE Filmed or Laminated 90 KERALITE Ultra 90 VDS HM 90 Doors	≤100 sq. in. = D-H-90	Not Permitted	VDS 180  CONTRFLAM 120  CONTRAFLAM STRUCTURE 120	Not Permitted	W-120
			CONTRAFLAM 90 VDS 90 Doors VDS LITE 90 Doors	Maximum size tested >100 sq. in. = D-H-W-90		VDS 120 VDS 120 CW		
	1 ½	1 ½	KERALITE Filmed or Laminated 90 KERALITE Ultra 90 VDS HM 90 Doors	≤100 sq. in. = D-H-90	Not Permitted	CONTRFLAM 90	Not Permitted	W-90
			CONTRAFLAM 90  VDS 90 DOORS  VDS LITE 90 DOORS	Maximum size tested >100 sq. in. = D-H-W-90		VDS 120 VDS 120 CW		
Enclosures for shafts, interior exit stairways and interior exit ramps	2	1 ½	KERALITE Filmed or Laminated 90 KERALITE Ultra 90 VDS HM 90 Doors	≤100 sq. in. = D-H-90	Not Permitted	CONTRFLAM 120 CONTRAFLAM STRUCTURE 120	Not Permitted	W-120
			CONTRAFLAM 90 VDS 90 Doors VDS LITE 90 Doors	Maximum size tested >100 sq. in. c = D-H- T-W-90		VDS 120 VDS 120 CW		
Horizontal exits in fire walls <sup>d</sup>	4	3	See note b	≤100 sq. in. = D-H-180 >100 sq. in. = D-H-W-240 ≤100 sq. in. = D-H-180	Not Permitted	4 Hours (240 min) 3 Hours	Not Permitted Not	W-240
	3	3ª	See note b  KERALITE Filmed or	>100 sq. in. = D-H-180 >100 sq. in. = D-H-W-180	Not Permitted	(180 min)	Permitted	W-180
Fire barriers having a required fire-resistance rating of 1 hour: Enclosures for shafts, exit access stairways, exit access ramps, interior exit stairways and interior exit passageway walls	1	1	Laminated 60 KERALITE Ultra 60 VDS HM 60 Doors	≤100 sq. in. = D-H-60	Not Permitted	CONTRFLAM 60 CONTRAFLAM STRUCTURE 60	Not Permitted	W-60
			VDS 60 Doors VDS LITE 60 Doors	Maximum size tested >100 sq. in.c = D-H- T-W-60		VDS 60 VDS 60 CW		
Other fire barriers	1	3/4	KERALITE Filmed or Laminated 45 CONTRAFLAM 45 PYROSWISS 45 VDS HM 45 Doors	Maximum size tested D-H-45	KERALITE Filmed or Laminated 45 CONTRAFLAM 45 PYROSWISS 45	N/A	D-H-OH-45	N/A
Fire partitions: corridor walls			VDS LITE 45 Doors		VDS HM 45 / VDS LITE 45 KERALITE Filmed or			
	1	1/ <sub>3</sub> b	KERALITE Filmed or Laminated 20 PYROSWISS 20	Maximum size tested D-20	Laminated 45 PYROSWISS 45 CONTRAFLAM 45	N/A	D-H-OH-45 (see note b)	N/A
			VDS HM 20 Doors VDS LITE 20 Doors KERALITE Filmed or		VDS HM 45 / VDS LITE 45			
	0.5	1/ <sub>3</sub> b	Laminated 20 PYROSWISS 20		KERALITE Filmed or Laminated 20	N/A	D-H-OH-20	N/A
			VDS HM 20 Doors VDS LITE 20 Doors KERALITE Filmed or		VDS HM 20 / VDS LITE 20 KERALITE Filmed or			
Other fire partitions	1	3/4	Laminated 45 CONTRAFLAM 45 PYROSWISS 45 VDS HM 45 Doors	Maximum size tested D-H-45	Laminated 45 PYROSWISS 45 CONTRAFLAM 45  VDS HM 45 / VDS LITE 45	N/A	D-H-OH-45	N/A
	0.5	1//3	VDS LITE 45 Doors  KERALITE Filmed or Laminated 20 PYROSWISS 20  VDS HM 20 Doors	Maximum size tested D-H-20	KERALITE Filmed or Laminated 20 VDS HM 20 / VDS LITE 20	N/A	D-H-OH-20	N/A
Exterior walls	3	1 ½	VDS LITE 20 Doors  KERALITE Filmed or Laminated 90	≤100 sq. in. = D-H-90  Maximum size tested >100 sq. in. <sup>b</sup> = D-H-W-90	Not Permitted	CONTRAFLAM	Not Permitted	W-180
			KERALITE Ultra 90 VDS HM 90 Doors VDS LITE 90 Doors			180		
			CONTRAFLAM 90 VDS 90 Doors VDS LITE 90 Doors			VDS 180		
	2	1 ½	KERALITE Filmed or Laminated 90 KERALITE Ultra 90 VDS HM 90 Doors VDS LITE 90 Doors	Maximum size tested D-H-90	CONTRAFLAM 90	CONTRAFLAM 120	D-H-OH-90	W-120
			CONTRAFLAM 90 VDS 90 Doors VDS LITE 90 Doors	Maximum size tested D-H-W-90	VDS 120 CW	VDS 120 CW		
	1	3/4	KERALITE Filmed or Laminated 45 CONTRAFLAM 45 PYROSWISS 45 VDS HM 45 Doors	Maximum size tested D-H-45	KERALITE Filmed or Laminated 45 CONTRAFLAM 45 PYROSWISS 45 VDS HM 45 / VDS LITE 45	N/A	D-H-45	N/A
Smoke barriers	1	1/3	VDS LITE 45 Doors  PYROSWISS 20  VDS HM 20 Doors	Maximum size tested D-20	KERALITE Filmed or Laminated 45 PYROSWISS 45 CONTRAFLAM 45	N/A	D-H-OH-45	N/A
The table above references the IE For SI: 1 square inch = 645.2 mm.	BC 2018 Table 71	6.1 for Opening Fi	VDS LITE 20 Doors	ngs and Markings and indicates v	VDS HM 45 / VDS LITE 45 where Vetrotech products are th	e best solution for yo	ur fire-rated project	t <b>.</b>

For SI: 1 square inch = 645.2 mm.

a. Two doors, each with a fire protection rating of 1½ hours, installed on opposite sides of the same opening in a fire wall, shall be deemed equivalent in fire protection rating to one 3-hour fire door.

**b.** Fire-resistance-rated glazing tested to ASTM E119 in accordance with Section 716.1.2.3 shall be permitted, in the maximum size tested.

**c.** Under the column heading "Fire-rated glazing marking door vision panel," W refers to the fire-resistance rating of the glazing, not the frame.

**d.** See Section 716.2.5.1.2.1.

e. See Section 716.1.2.2.1 and Table 716.1(1) for additional permitted markings.