2012 IBC 716 TABLES

716.3 Marking Fire Rated Glazing Assemblies

716.5 Opening Fire Protection Assemblies, Ratings and Markings (previously 715.4)

716.6 Fire Window Assembly Fire Protection Ratings (previously 715.5)

These tables represent the code changes approved by ICC at the 2012 IBC code hearings. The final published version of 2012 IBC is now available.

The SAFTI FIRST recommended product found in these tables are not part of the 2012 IBC, but provided by SAFTI FIRST as guide for choosing and specifying the correct code approved product. If you have any questions regarding these tables, contact SAFTI FIRST at 888.653.3333 or send an email to info@safti.com.

2012 IBC Table 716.3 (New)

Marking Fire-Rated Glazing Assemblies

Fire Test Standard	Marking	Definition of Marking	Recommended SAFTI FIRST Product (not in IBC – added for easy reference)
ASTM E119 or UL 263	W	Meets wall assembly criteria.	SuperLite II-XL 60-120
NFPA 257 or UL 9	OH	Meets fire window assembly criteria including the hose stream test.	SuperLite II-XL 45 SuperLite I-W PYRAN Platinum by SAFTI FIRST PYRAN Platinum F by SAFTI FIRST PYRAN Platinum L by SAFTI FIRST
NFPA 252 or UL 10B or UL 10C	D	Meets fire door assembly criteria.	SuperLite I & I-XL SuperLite II-XL 45-120 SuperLite I-W SuperLite X-90 PYRAN Platinum F by SAFTI FIRST PYRAN Platinum L by SAFTI FIRST
	H	Meets fire door assembly "Hose Stream" test.	SuperLite II-XL 45-120 SuperLite I-W SuperLite X-90 PYRAN Platinum F by SAFTI FIRST PYRAN Platinum L by SAFTI FIRST
	T	Meets 450º F temperature rise criteria for 30 minutes	SuperLite II-XL 45-120
	XXX	The time in minutes of the fire resistance or fire protection rating of the glazing assembly	

For SI: °C = [(°F) – 32]/1.8.

2012 IBC Table 716.5 (previously 715.4)

Opening Fire Protection Assemblies, Ratings and Markings

TYPE OF ASSEMBLY	REQUIRED WALL ASSEMBLY RATING (HRS.)	MINIMUM FIRE DOOR AND FIRE SHUTTER ASSEMBLY RATING (HRS.)	DOOR VISION PANEL SIZE	FIRE RATED GLAZING MARKING DOOR VISION PANEL[e]	Recommended SAFTI FIRST Product for Door Vision Panel (not in IBC – added for easy reference)	MINIMUM SIDELITE/TRANSOM ASSEMBLY RATING (HRS.)		FIRE RATED GLAZING MARKING SIDELITE/TRANSOM PANEL		Recommended SAFTI FIRST Product for Sidelite/Transom (not in IBC – added for easy reference)
						Fire Protection	Fire Resistance	Fire Protection	Fire Resistance	
Fire walls and fire barriers having a required fire resistance rating greater than 1 hour	4	3	Not Permitted	Not Permitted		Not Permitted	4	Not Permitted	W-240	
	3	3[a]	Not Permitted	Not Permitted		Not Permitted	3	Not Permitted	W-180	
	2	1-1/2	100 sq. in [c]	≤100 sq. in. = D-H-90 >100 sq. in. =D-H-W-90	SuperLite X-90 SuperLite I-W PYRAN Platinum F and L by SAFTI FIRST SuperLite II-XL 90	Not Permitted	2	Not Permitted	W-120	SuperLite II-XL 120
	1-1/2	1-1/2	100 sq. in [c]	≤100 sq. in. = D-H-90 >100 sq. in. =D-H-W-90	SuperLite X-90 SuperLite I-W PYRAN Platinum F and L by SAFTI FIRST SuperLite II-XL 90	Not Permitted	1-1/2	Not Permitted	W-90	SuperLite II-XL 90
Shaft, exit enclosures and exit passageway walls	2	1-1/2	100 sq. in [c,d]	≤100 sq. in. = D-H-90 >100 sq. in. = D-H-T-90 or D-H-T-W-90	SuperLite X-90 SuperLite I-W PYRAN Platinum F and L by SAFTI FIRST SuperLite II-XL 90	Not Permitted	2	Not Permitted	W-120	SuperLite II-XL 120

TYPE OF ASSEMBLY	REQUIRED WALL ASSEMBLY RATING (HRS.)	MINIMUM FIRE DOOR AND FIRE SHUTTER ASSEMBLY RATING (HRS.)	DOOR VISION PANEL SIZE	FIRE RATED GLAZING MARKING DOOR VISION PANEL [e]	Recommended SAFTI FIRST Product for Door Vision Panel (not in IBC – added for easy reference)	MINIMUM SIDELITE/TRANSOM ASSEMBLY RATING (HRS.)		FIRE RATED GLAZING MARKING SIDELITE/TRANSOM PANEL		Recommended SAFTI FIRST Product for Sidelite/Transom (not in IBC – added for easy reference)
						Fire Protection	Fire Resistance	Fire Protection	Fire Resistance	
Fire barriers having a required fire-resistance rating of 1 hour: Enclosures for shafts, exit access stairways, exit access ramp, interior exit stairways, interior exit ramps and exit passageway walls.	1	1	100 sq. in [c, d]	≤100 sq. in. = D-H-60	SuperLite I-W SuperLite X-90 PYRAN Platinum F and L by SAFTI FIRST	Not Permitted	1	Not Permitted	W-60	SuperLite II-XL 60
				>100 sq. in. = D-H-T-60 or D-H-T-W-60	SuperLite II-XL 60					
					Fire Protection					
Other Fire Barriers	1	3/4	Maximum Size Tested	D-H-NT-45	SuperLite II-XL 45 SuperLite I-W PYRAN Platinum F and L by SAFTI FIRST	3/4		D-H-NT-45		SuperLite II-XL 45 SuperLite I-W PYRAN Platinum F and L by SAFTI FIRST
Fire Partitions / Corridor Walls	1	1/3 [b]	Maximum Size Tested	D-20	SuperLite I & I-XL SuperLite I-W PYRAN Platinum F and L by SAFTI FIRST	3/4[b]		D-H-OH-45		SuperLite II-XL 45 SuperLite I-W PYRAN Platinum F and L by SAFTI FIRST
	0.5	1/3 [b]	Maximum Size Tested	D-20	SuperLite I & I-XL SuperLite I-W PYRAN Platinum F and L by SAFTI FIRST	1/3		D-H-OH-20		SuperLite II-XL 45 SuperLite I-W PYRAN Platinum F and L by SAFTI FIRST
Other Fire Partitions	1	3/4	Maximum Size Tested	D-H-45	SuperLite II-XL 45 SuperLite I-W PYRAN Platinum F and L by SAFTI FIRST	3/4		D-H-45		SuperLite II-XL 45 SuperLite I-W PYRAN Platinum F and L by SAFTI FIRST
	0.5	1/3	Maximum Size Tested	D-H-20	SuperLite II-XL 45 SuperLite I-W PYRAN Platinum F and L by SAFTI FIRST	1/3		D-H-20		SuperLite II-XL 45 SuperLite I-W PYRAN Platinum F and L by SAFTI FIRST

TYPE OF ASSEMBLY	REQUIRED WALL ASSEMBLY RATING (HRS.)	MINIMUM FIRE DOOR AND FIRE SHUTTER ASSEMBLY RATING (HRS.)	DOOR VISION PANEL SIZE	FIRE RATED GLAZING MARKING DOOR VISION PANEL [e]	Recommended SAFTI FIRST Product for Door Vision Panel (not in IBC – added for easy reference)	MINIMUM SIDELITE/TRANSOM ASSEMBLY RATING (HRS.) Fire Protection	Fire Resistance	FIRE RATED GLAZING MARKING SIDELITE/TRANSOM PANEL Fire Protection	Fire Resistance	Recommended SAFTI FIRST Product for Sidelite/Transom (not in IBC – added for easy reference)
Exterior Walls	3	1-1/2	100 sq. in. [c]	≤100 sq. in. = D-H-90 >100 sq. in. =D-H-W-90	SuperLite X-90 SuperLite I-W PYRAN Platinum F and L by SAFTI FIRST SuperLite II-XL 90	Not Permitted	3	Not Permitted	W-180	
	2	1-1/2	100 sq. in. [c]	≤100 sq. in. = D-H-90 >100 sq. in. =D-H-W-90	SuperLite X-90 SuperLite I-W PYRAN Platinum F and L by SAFTI FIRST SuperLite II-XL 90	Not Permitted	2	Not Permitted	W-120	SuperLite II-XL 120
					Fire Protection					
	1	3/4	Maximum Size Tested	D-H-45	SuperLite II-XL 45 SuperLite I-W PYRAN Platinum F and L by SAFTI FIRST	3/4		D-H-45		SuperLite II-XL 45 SuperLite I-W PYRAN Platinum F and L by SAFTI FIRST
Smoke Barriers					**Fire Protection**					
	1	1/3 [b]	Maximum Size Tested	D-20	SuperLite I & I-XL SuperLite I-W PYRAN Platinum F and L by SAFTI FIRST	3/4		D-H-OH-45		SuperLite II-XL 45 SuperLite I-W PYRAN Platinum F and L by SAFTI FIRST

For SI: 1 square inch – 645.2 mm

a. Two doors, each with a fire protection rating of 1-1/2 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. For testing requirements, see Section 716.6.3

c. Fire resistance rated glazing tested to ASTM E119 in accordance with Section 716.2 shall be permitted, in the maximum size tested.

d. Except where the building is equipped throughout with an automatic sprinkler and the fire-rated glazing meets the criteria established in Section 716.5.5.

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

2012 IBC Table 716.6 (previously 715.5)

Fire Window Assembly Fire Protection Ratings

TYPE OF WALL ASSEMBLY	REQUIRED WALL ASSEMBLY RATING (hours)	MINIMUM FIRE WINDOW ASSEMBLY RATING (hours)	FIRE RATED GLAZING MARKING	Recommended SAFTI FIRST Product (not in IBC – added for easy reference)
Interior walls				
Fire walls	All	NP[a]	W-xxx[b]	SuperLite II-XL 60-120
Fire barriers	>1	NP[a]	W-xxx[b]	
	1	NP[a]	W-xxx[b]	
Incidental use areas (707.3.6), Mixed occupancy separations(707.3.8)	1	¾	OH-45 or W-60	SuperLite II-XL 60 If less than 25% of the wall area: SuperLite II-XL 45, SuperLite I-W, PYRAN Platinum, PYRAN Platinum F or L by SAFTI FIRST
Fire Partitions	1	¾	OH-45 or W-60	SuperLite II-XL 60 If less than 25% of the wall area: SuperLite II-XL 45, SuperLite I-W, PYRAN Platinum, PYRAN Platinum F or L by SAFTI FIRST
	0.5	1/3	OH-20 or W-30	
Smoke Barrier	1	¾	OH-45 or W-60	
Exterior walls	>1	1-1/2	OH-90 or W-XXX [b]	SuperLite II-XL 90-120
	1	¾	OH-45 or W-60	SuperLite II-XL 60 If less than 25% of the wall area: SuperLite II-XL 45, SuperLite I-W, PYRAN Platinum, PYRAN Platinum F or L by SAFTI FIRST
	0.5	1/3	OH-20 or W-30	
Party wall	All	NP	Not Applicable	

NP – Not Permitted

a. Not permitted except fire resistance rated glazing assemblies tested to ASTM E119 or UL 263, as specified in Section 716.2.
b. xxx = The fire rating duration period in minutes, which shall be equal to the fire resistance rating required for the wall assembly.