



TABLE: GENERAL REQUIREMENTS AND LIMITATIONS FOR FIRE-RATED METAL SWING DOORS AND FRAMES
Source: Underwriters' Laboratories Building Materials List, January 1970, and NFPA Standard #80, 1970

RATING	Location of Use	D O O R S						F R A M E S									
		Maximum Size		Astragal	Maximum Glass Size		Materials			Maximum Size Wall Opening			Maximum Glass Size				
		Single	Pair		Area (sq. in.)	Dimension (in.)	Transom	Side Panels	Side Lights	Area (sq. ft.)	Width (ft.)	Height (ft.)	Area (sq. in.)	Transom		Sidelights	
				W, in.										H, in.	W, in.	H, in.	
3 HOURS (Class A)	Openings in fire walls or division walls between buildings or sections of buildings	4' x 10'	8' x 10'	Required	No glass permitted	Solid 3-hour panel (if permitted by local authorities)	Not permitted	single - 40 pair - 60	single - 4 pair - 8	11	No glass permitted						
4' x 10'	8' x 8'																
4' x 8'	8' x 7'2"																
1 1/2 HOURS (Class B)	Openings in enclosures of vertical shafts such as for stairs, elevators or mechanical equipment	4' x 10'	8' x 10'	Required unless otherwise labeled	100 per door	12" for near-square center light; 10" w., 33" h. for vertical light	Solid 1 1/2-hour panels	Not permitted	with transom only: single - 40 pair - 80	12	12	No glass permitted					
3/4 HOUR (Class C)	Openings in corridors or room partitions				1296 per light	54	1/4" wire glass or 3/4-hour panel	3/4-hour				1/4" wire glass	1296	48	30	30	54
1 1/4 HOURS (Class D)	Exterior wall openings subject to severe fire exposure				No glass permitted	Solid 1 1/2-hour panels	Not permitted	with transom & sidelights: 120									
3/4 HOUR (Class E)	Exterior wall openings subject to moderate fire exposure				720 per light	54	1/4" wire glass or 3/4-hour panel	3/4-hour				1/4" wire glass	1295	48	30	30	54