

Fire Rated Assemblies

FLOOR-CEILING



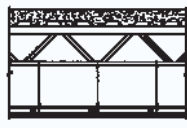

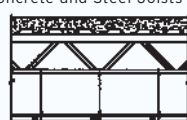
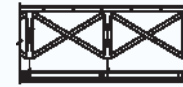
Underwriters Laboratories	Hourly Rating	Design Number	Grid Systems	Panel Type	
Concrete and Cellular Steel Floor Units 	1, 1 1/2, 2 R, UR & UBR	A202	250, 260, 1250, 1260, 1830	Mineral Fiber	
	1 R, UR & UBR		4050		
	2 R, 1 1/2 UR & UBR	A210	250, 260, 1250, 1260, 1830		
	3 R, 2 UR & UBR	A211	250, 1250		
	3 R, UR & UBR	A212	250, 1250		
	Concrete and Steel Floor Units 	1 & 2 R, UR & UBR	D203, D205	250, 260, 1250, 1260, 1830	Mineral Fiber
		2 R, 1 1/2 UR, 1 1/2 UBR	D209	250, 260, 1250, 1260, 1830	
		1 1/2, 2 R, 1 1/2 & 2 UR, 1 1/2, 2 & 4 UBR	D215	250, 1250	Mineral Fiber
		1 1/2, 2 R, 1 1/2 & 2 UR, 1 1/2 & 2 UBR		260, 1260, 1830	
		1, 1 1/2, 2, 3 R, UR & UBR	D216	250, 1250	Mineral Fiber
		2 R, UR & UBR		260, 1260, 1830	
		1 R, UR, UBR		4050	Taped Gypsum
		2, 3 R, UR & UBR	D218	250, 1250	
		2 R, 1 1/2 UR, 2 UBR	D501	650	Taped Gypsum
		1 1/2 & 2 R, UR & UBR	D502	650	
	Concrete and Steel Joists 	1 1/2, 2 R & UR	G007	250, 1250 concealed	Mineral Fiber
		2 R, UR & UBR	G008, G022	250, 1250 concealed	
		2, 3 R & UR, 3 UBR	G036	250, 1250 concealed	Mineral Fiber
		1 R & UR	G201	250, 260, 1250, 1260, 1830	
		2 R & UR	G202	250, 1250	Mineral Fiber
2 R & UR		G209, G210, G216, G242, G248, G258	250, 260, 1250, 1260, 1830		
1 1/2, 2 R, UR & UBR		G204	250, 1250	Mineral Fiber	
1, 1 1/2, 2 R, UR & UBR		G208	250, 260, 1250, 1260, 1830		
1 1/2, 2 R, UR & UBR		G228,	250, 260, 1250, 1260, 1830	Mineral Fiber	
1 1/2, 2 R, UR & UBR		G243	250, 1250		
1 1/2, 2, 3 R, UR & UBR		G211, G213	250, 1250	Mineral Fiber	
2 R & UR			260, 1260, 1830		
2 R, 1 1/2 UR, 2 UBR		G214	250, 260, 1250, 1260, 1830	Mineral Fiber	
2 R, UR & UBR		G215, G250	250, 260, 1250, 1260, 1830		
1 1/2, 2 R & UR		G217, G234, G241	250, 260, 1250, 1260, 1830	Mineral Fiber	
1 1/2, 2 R & UR		G217, G236	250, 1250, 4050		
1, 2 R & UR		G218	250, 260, 1250, 1260, 1830	Lay-in Gypsum	
2 R, UR & UBR		G222	250, 260, 1250, 1260, 1830		
2 R, 2 UR, 2 & 3 UBR		G227	250, 1250	Mineral Fiber	
1 1/2, 2, 3 R, UR & UBR		G229	250, 1250		
1 1/2, 2 R, UR & 1 1/2 & 3 UBR		G231	250, 1250	Mineral Fiber	
1 1/2 R, UR & UBR		G229	4050		
1 1/2, 2 R & UR, 2 UBR		G244	250, 260, 1250, 1260, 1830	Mineral Fiber	
1, 2 R, UR & UBR		G255	250, 260, 1250, 1260, 1830		
1, 2, 3 R, UR & UBR		G256	250, 1250	Mineral Fiber	
2 R, UR & UBR			260, 1260, 1830		
1 R, UR & UBR			4050	Lay-in Gypsum	
1 1/2, R, UR & UBR		G259	250, 260, 1250, 1260, 1830		
1, 1 1/2 R & UR	G262	4050	Mineral Fiber		
2 R, UR & UBR	G265	4050			
1, 1 1/2 R & UR	G264	3550	Taped Gypsum		
2, 3 R, UR & UBR	G523, G525, G529	650			
1, 1 1/2, 2 R, 1, 1 1/2, 2 & 3 UR & UBR	G524	650	Taped Gypsum		
2 R, 1 1/2 & 2 UR, 2 UBR	G526	650			
2 R & UR, 2 & 3 UBR	G527	650	Taped Gypsum		
1 1/2 R & UR	G528	650			
Concrete 	1 1/2, 2 R & UR	J201	250, 260, 1250, 1260, 1830	Mineral Fiber	
	2, 3 R & UR	J502	650	Taped Gypsum	
Intertek Testing Services 	1 HR	CMC/FCA 60-05, 07, 08, 09, 10, 11	250, 1250	EuroStone™	
	1 1/2 HR	CMC/FCA 90-01, 02	250, 1250	Mineral Fiber	
	2 HR	CMC/FCA 120-01, 02, 03, 04, 05	250, 1250	Lay-in Gypsum	
	2 HR	CMC/FCA 120-06	250, 1250		

Chart continues on facing page.
R = Restrained Assembly Rating / UR = Unrestrained Assembly Rating / UBR = Unrestrained Beam Rating / FR = Finish Rating

floor-ceiling fire rated assemblies (continued)

Underwriters Laboratories

Wood Joists

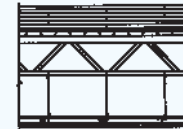


Hourly Rating	Design Number	Grid Systems	Panel Type
1 UR, 12 min FR	L005, L006	250, 1250	Mineral Fiber
1 UR, 18 min FR	L201	250, 260, 1250, 1260, 1830, 4050	
1 UR, 15 min FR	L202	250, 260, 1250, 1260, 1830	
1 UR, 17 min FR	L206, L212	250, 260, 1250, 1260, 1830	
1 1/2 UR, 13 min FR	L208	250, 260, 1250, 1260, 1830	
1 UR, 14 min FR	L209	250, 260, 1250, 1260, 1830	
1 UR & UBR, 18 min FR	L210	250, 260, 1250, 1260, 1830	
2 UR, 75 min FR	L211	250, 260, 1250, 1260, 1830	
2 UR, 75 min FR		650	
1 UR, 22 min FR	L502, L526, L529	650	
1 UR, 29 min FR	L508	650	Taped Gypsum
1 UR, 28 min FR	L513	650	
1 UR, 21 min FR	L515, L525	650	

ROOF-CEILING

Underwriters Laboratories

Insulation, Steel Deck and Steel Joists



Hourly Rating	Design Number	Grid Systems	Panel Type
1 R, UR & UBR	P201, P214, P235, P238, P244, P246, P255	250, 260, 1250, 1260, 1830	Mineral Fiber
1 R, 3/4 UR, 1 UBR	P202	250, 260, 1250, 1260, 1830	
3/4 R, UR & UBR	P203	250, 260, 1250, 1260, 1830	Mineral Fiber
1 R, 3/4 UR, 1 UBR	P204	250, 260, 1250, 1260, 1830, 4050	
1 R, 3/4 UR, 1 UBR	P206	250, 260, 1250, 1260, 1830	Mineral Fiber
1, 1 1/2 R, UR & UBR	P207, P230, P231, P253	250, 260, 1250, 1260, 1830	
1 R, UR & UBR	P253	4050	Mineral Fiber
1 R, 3/4 & 1 UR, 1 UBR	P210	250, 260, 1250, 1260, 1830	
1 R, 1/2 UR	P211	250, 260, 1250, 1260, 1830	Mineral Fiber
1, 1 1/2 R & UR	P213	250, 1250	
2 R & UR	P215, P219	250, 260, 1250, 1260, 1830	Mineral Fiber
1 R, 3/4 UR	P216	250, 260, 1250, 1260, 1830	
1 1/2 R & UR	P217	250, 260, 1250, 1260, 1830	Mineral Fiber
1, 1 1/2 R, UR & UBR	P225	250, 1250	
1 R, UR & UBR		260, 1260, 1830, 4050	
1, 1 1/2 R & UR	P227, P228	250, 260, 1250, 1260, 1830	Mineral Fiber
1 R & UR	P227	4050	
1 & 1 1/2 R, 1 UR	P229	250, 260, 1250, 1260, 1830	Taped Gypsum
2 R, UR & UBR	P237	250, 260, 1250, 1260, 1830	
2 R, UR & UBR		650	
1 1/2 R, UR & UBR	P239	250, 260, 1250, 1260, 1830	Mineral Fiber
1 1/2 R, UR & UBR		650	Taped Gypsum
2 R & UR	P241	250, 260, 1250, 1260, 1830	Mineral Fiber
2 R & UR		650	Taped Gypsum
1 1/2 R & UR	P242	250, 1250	Mineral Fiber
1 R & UR	P245, P264	250, 260, 1250, 1260, 1830	
1, 1 1/2 R, UR & UBR	P250	250, 1250	Mineral Fiber
1, 1 1/2 R, UR & UBR	P251	250, 1250	
1 R, UR & UBR		260, 1260, 1830	
1 R, UR & UBR		4050	Taped Gypsum
1 R, 3/4 UR & UBR	P254	3550	
1 UR	P257	250, 260, 1250, 1260, 1830	Taped Gypsum
1, R & UR	P259	250, 260, 1250, 1260, 1830, 4050	
1 R & UR	P260	250, 260, 1250, 1260, 1830, 4050	Taped Gypsum
1 R, UR & UBR	P261, P262	250, 260, 1250, 1260, 1830, 4050	
1, 2 R & UR	P501	650	Taped Gypsum
1 1/2 R & UR	P506	650	
1 1/2 R, 1 UR	P507	650	Taped Gypsum
1 R & UR	P508	650	
1 R, UR & UBR	P509	650	Taped Gypsum
1, 1 1/2 R & UR	P510	650	
1 1/2 R, UR & UBR	P513	650	Taped Gypsum
2 R & UR	P514	650	
1 HR	CMC/FCA 60-03, 04, 06	250, 1250	EuroStone™
1 HR	CMC/FCA 60-01, 02	250, 1250	Mineral Fiber
1 1/2 HR	CMC/FCA 90-03	250, 1250	Mineral Fiber

Intertek Testing Services

Insulation, Steel Deck and Steel Joists



UL fire resistance ratings are based upon the test method and acceptance criteria in the ANSI/UL263 (ASTM E 119) Standard for Fire Tests of Building Construction Materials. Underwriters Laboratories and their Fire Resistance directory should be consulted for complete up-to-date details when specifying a design. I.T.S. fire resistant assembly designs are listed in accordance with CAN/ULC-S101, Standard Methods of Fire Endurance Tests of Building Construction and Materials, and ASTM E 119, Fire Tests of Building Construction and Materials. Consult Intertek Testing Services Directory of Listed Building Products for details on appropriate material and installation requirements.