

Bruhn Limestone

Fire Resistance Ratings



TABLE 20.10

FIRE RESISTANCE RATINGS DEEMED TO APPLY TO CERTAIN STRUCTURAL MEMBERS

Col 1.	Col 2.	Col 3.	Col 4.	Col 5.	Col 6.	Col 7.	Col 8.
Structural Member	Construction of Member	Thickness of principal material (mm)				Annexure Reference note number	
		1 hr	1.5 hr	2 hr	3 hr	4hr	
	Concrete;						
	• Un-reinforced	-	-	-	177	200	-
	• No lines, plastered 19mm tick on both sides	-	-	-	150	-	6
	• Reinforced	Refer to sub-regulation (1) of regulation 20.10					
	• Pre-stressed	Refer to sub-regulation (2) of regulation 20.10					
Non-load bearing walls whether internal or external (except common & party walls)	Hollow blocks of concrete with;						
	• Category A aggregate	60	83	96	119	142	7.8
	• Category B aggregate	71	93	102	134	157	7.8
	• Category C aggregate	82	101	121	149	172	7.8
	Terracotta;						
	• Plastered with 19mm thick 1 side	180	-	-	-	-	6.9
	• Plastered with 19mm thick both sides	100	150	-	-	-	6.9
	• Mount Gambier Stone Masonry	50	100	110	135	150	-
Steel columns including fabricated columns	Columns incorporated in or in contact on one or more sides with solid masonry or concrete walls not less than 100mm thick with fire protection of;						
	• Solid clay bricks, with –						
	- Column spaces filled	50	50	50	50	63	11.12
	- Column spaces not filled	50	50	50	-	-	11
	• Gypsum blocks laid in gypsum sand mortar, with –						
	- Column spaces filled	-	-	50	63	88	11.12
	- Column spaces not filled	-	-	50	-	-	11
	• Hollow terracotta blocks plastered with 13mm thick,						
	- Column spaces filled	-	-	50	63	88	9.11
	- Column spaces not filled	-	-	50	-	-	9.11
	• Structural concrete cast in-situ around mesh or binding and non-load-bearing	25	32	38	51	63	11.12 13

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