



# Fire Resistivity of Aggregate Blocks

February 2024

Concrete is proven to have a high degree of fire resistance and, in the majority of applications, can be described as virtually fireproof. This excellent performance is due in the main to concrete's constituent materials (cement and aggregates) which, when chemically combined within concrete, form a material that is essentially inert and, importantly for fire safety design, has relatively poor thermal conductivity which enables concrete to act as an effective fire shield not only between adjacent spaces, but also to protect itself from fire damage. All of the concrete blocks in our range are non-combustible with zero spread of flame and are classed as category A1 in accordance with BS EN 13501-1.

The following tables (a – d) show the nominal fire resistance periods for our various block types. These figures have been assembled in accordance with BS 5628-3 and BS EN 1996-1-2.

Block mm	Load-bearing wall		Non load-bearing wall		Cavity wall	
	No Finish	VG plaster	No Finish	VG plaster	No Finish	VG plaster
100	2 hours	4 hours	2 hours	4 hours	2 hours	4 hours
140	3 hours	4 hours	4 hours	4 hours	3 hours	4 hours

**Table A**  
Lay-Lite  
& Modulite

Block mm	Load-bearing wall		Non load-bearing wall		Cavity wall	
	No Finish	VG plaster	No Finish	VG plaster	No Finish	VG plaster
75	1 hour	1 hour	1 hour	1 hour	1 hour	1 hour
100	2 hours	4 hours	2 hours	4 hours	2 hours	4 hours
140	3 hours	4 hours	4 hours	4 hours	3 hours	4 hours

**Table B**  
Solid Dense  
including  
Easy Lay

Block mm	Load-bearing wall		Non load-bearing wall		Cavity wall	
	No Finish	VG plaster	No Finish	VG plaster	No Finish	VG plaster
100	1 hour	2 hours	2 hours	3 hours	1 hour	2 hours
140	3 hours	3 hours	4 hours	4 hours	3 hours	3 hours

**Table C**  
Cellular Dense

Block mm	Load-bearing wall		Non load-bearing wall		Cavity wall	
	No Finish	VG plaster	No Finish	VG plaster	No Finish	VG plaster
215	4 hours	4 hours	4 hours	4 hours	-	-

**Table D**  
Hollow Dense

**A non load-bearing wall** is a wall that does not support any gravity loads from the building, hence doesn't bear any weight besides its own. **A load-bearing wall** is a wall that bears some of the building's weight in addition to its own weight. **Gypsum Plaster** allows for a coat of 13mm coat of Gypsum Plaster applied to BOTH faces of erected block.

Contact us on 01978 799070 or [ccp@ccp.ltd](mailto:ccp@ccp.ltd)

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