

HELPFUL HINT

The outer shell thickness of Forticrete trough lintels and can be allowed for when determining fire resistance. Therefore the fire ratings can be assumed as the overall thickness of the lintel/bond-beam including concrete infill.

INTRODUCTION

The fire resistance of the building fabric is in some ways the most important of all the performance properties in blockwork design, as it can affect more than just mere comfort. Provision has to be made not only for the stability of the structure but also for the safety of the occupants.

TABLE 24 FIRE RESISTANCE FOR SPECIFICATION MASONRY, POLISHED AND STANDARD MASONRY (WITH CLASS 1 AGGREGATES AS BS 5628 PART 3)

*Product code	Load-bearing cavity wall	Load-bearing single leaf wall	Non load-bearing cavity wall	Non load-bearing single leaf wall
K1	1 hr	1 hr	6 hrs	2 hrs
P1	6 hrs	2 hrs	6 hrs	4 hrs
R1	6 hrs	4 hrs	6 hrs	6 hrs
P2	4 hrs	2 hrs	6 hrs	3 hrs
K3	4 hrs	0.5 hrs	4 hrs	1 hr
P3	4 hrs	2 hrs	6 hrs	3 hrs
R3	4 hrs	2 hrs	6 hrs	4 hrs
G1	1 hr	1 hr	6 hrs	2 hrs
D1	6 hrs	2 hrs	6 hrs	2 hrs
H1	6 hrs	3 hrs	6 hrs	4 hrs
A1	6 hrs	4 hrs	6 hrs	6 hrs
F1	6 hrs	6 hrs	6 hrs	6 hrs
D2	4 hrs	2 hrs	6 hrs	2 hrs
H2	4 hrs	2 hrs	6 hrs	3 hrs
D3	4 hrs	2 hrs	6 hrs	2 hrs
H3	4 hrs	2 hrs	6 hrs	3 hrs
A3	6 hrs	3 hrs	6 hrs	4 hrs
F3	4 hrs	2 hrs	6 hrs	4 hrs

* The product codes above have been taken from the Specification Masonry range. However, the fire ratings above can be taken as consistent for all Forticrete products with the same thickness as the code description, providing the product in question utilises a Class 1 Aggregate (Limestone). For further information on products utilising a Class 2 aggregate (Granite etc) please contact the Forticrete Technical Department.

TABLE 25 FIRE RESISTANCE FOR SPLITFACE MASONRY (WITH CLASS 1 AGGREGATE AS BS 5628 PART 3)

Product code	Load-bearing cavity wall	Load-bearing single leaf wall	Non load-bearing cavity wall	Non load-bearing single leaf wall
S30	1 hr	1 hr	6 hrs	2 hrs
S4	1 hr	1 hr	6 hrs	2 hrs
E54	1 hr	1 hr	6 hrs	2 hrs

TABLE 26 FIRE RESISTANCE FOR ANSTONE & SHEARSTONE WALLING STONE (WITH CLASS 1 AGGREGATE AS BS 5628 PART 3)

Product thickness	Load-bearing cavity wall	Load-bearing single leaf wall	Non load-bearing cavity wall	Non load-bearing single leaf wall
100	6 hrs	2 hrs	6 hrs	2 hrs
140	6 hrs	3 hrs	6 hrs	4 hrs
215	6 hrs	6 hrs	6 hrs	6 hrs

TABLE 27 FIRE RESISTANCE TABLE FOR REGENCY ASHLAR CAST STONE (WITH CLASS 1 AGGREGATE AS BS 5628 PART 3)

Product code	Load-bearing cavity wall	Load-bearing single leaf wall	Non load-bearing cavity wall	Non load-bearing single leaf wall
A1	6 hrs	2 hrs	6 hrs	2 hrs
A3	6 hrs	4 hrs	6 hrs	6 hrs
A90	6 hrs	2 hrs	6 hrs	2 hrs
A4	6 hrs	4 hrs	6 hrs	6 hrs
A70	6 hrs	2 hrs	6 hrs	2 hrs
A60	6 hrs	2 hrs	6 hrs	2 hrs
A80	6 hrs	2 hrs	6 hrs	2 hrs