

# Product Performance Testing Methodology

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## Fire resistance of elements of construction

### Description:

The behaviour of a specimen of an element of building construction when subjected to defined heating and pressure conditions is determined in accordance with BS 476-20:1987. The method provides a means of quantifying the ability of an element to withstand exposure to high temperatures, by setting criteria by which the loadbearing capacity, the fire containment (integrity) and the thermal transmittance (insulation) functions can be adjudged.

## Fire resistance of non-loadbearing elements of construction

### Description:

The fire resistance of non-loadbearing elements of building construction when subjected to the heating and pressure conditions specified in BS 476-20 is determined in accordance with BS 476-22:1987.

### Performance Requirements:

Fire resistance rating period of 2 hours to 4 hours

Fire Resistance of Hollow Concrete Masonry Blocks			
Product Dimension (mm) (Length x Width x Height)	Unit Weight (kg)	Gross Dry Density (kg/m <sup>3</sup> ) BS EN 772-13	Fire Rating Period (Minutes) BS 476-20 and BS 476-22
400 x 100 x 200	14	1750 - 1800	125
400 x 150 x 200	18	1500 - 1600	240
400 x 200 x 200	23	1450 - 1480	240

Fire Resistance of Solid Concrete Masonry Blocks			
Product Dimension (mm) (Length x Width x Height)	Unit Weight (kg)	Net Dry Density (kg/m <sup>3</sup> ) BS EN 772-13	Fire Rating Period (Minutes) BS 476-20 and BS 476-22
400 x 100 x 200	17	2090 to 2100	240
400 x 150 x 200	26	2090 to 2100	240
400 x 200 x 200	34	2090 to 2100	240