

CONCRETE MASONRY BLOCKS

TECHNICAL SPECIFICATION

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Dimension and Maximum Tolerances	Length ± 3 mm Width ± 3 mm Height ± 3 mm	BS EN 772: Part 16
Net density of blocks	The net density of each type and configuration of the masonry blocks shall not deviate by more than ± 10 % from the declared value. Normal weight concrete: Concrete having an oven dry density greater than 2000 kg/m^3 but not exceeding 2600 kg/m^3 . Light weight concrete: Concrete having an oven dry net density not more than 2000 kg/m^3 .	BS EN 772: Part 13
Compressive strength	The average compressive strength based on gross area of masonry blocks and that of an individual specimen shall not be less than the values given below: Non-Load Bearing Blocks Average - 7.5 MPa; Individual - 6.0 MPa Load-Bearing Blocks Average - 12.5 MPa; Individual - 10.0 MPa	BS EN 772: Part 1
Drying shrinkage	The average drying shrinkage shall not exceed 0.06 %.	BS EN 772: Part 14 ASTM C426
Water absorption	Table 2, ASTM C90	ASTM C140
Chloride and sulphate content	When a sample of one block is tested in accordance with BS 1881: Part 124 the acid soluble chloride content (Cl) and the soluble sulphate content (SO_3) shall not exceed 0.05 % and 0.5 % by mass of concrete respectively.	BS 1881: Part 124: 2015 BS EN 1744 - 1
Fire Resistance	Fire resistance rating period of 2 hours to 4 hours	BS 476-20:1987 BS 476-22:1987
Sound Transmission Class	Sound Reduction R_w , dB 55 to 65	ASTM E90 ASTM E413