

BLOCKS

TECHNICAL SPECIFICATION

Dimension and Maximum Tolerances	Length \pm 3 mm Width \pm 3 mm Height \pm 3 mm	BS EN 772: Part 16
Compressive strength	The average compressive strength based on gross area of thermal insulated blocks and that of an individual specimen shall not be less than the values given below: Average - 7.5 MPa; Individual - 6.0 Mpa	BS EN 772: Part 1
Drying shrinkage	The average drying shrinkage shall not exceed 0.05 %.	BS EN 772: Part 14 ASTM C426
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 0.06 % and 0.4 % by mass of concrete respectively.	BS 1881: Part 124: 2015
Thermal Transmittance		ASTM C515 BS EN ISO 6946:2017
Fire Resistance	Fire resistance rating period of 2 hours to 4 hours	BS 476-20:1987 BS 476-22:1987

Barjeel, Ras Al Khaimah Green Building Regulations:

The average U-Value of the external walls (that are exposed to ambient conditions) must not exceed the following thresholds:

Average external wall U-Value 0.48 W/m²K

Individual Private Villas are exempt from the above specified external wall U-Value if 200 mm thermal blocks with U-Value of maximum 0.5 W/m²K are used.