

Product specification

Compressive Strength

Manufactured and tested in accordance with BS 6457 Part 1 and 2: 1981, the compressive strength of the Campden and Gloucester Stone range is $> 10.0\text{N/mm}^2$.

Density

Campden and Gloucester Stone Walling ranges have a mean density of 2050Kg/m^3 and of 206Kg/m^3 faced work at 3% moisture content.

Drying Shrinkage

Test results give a figure of $< 0.06\%$.

Thermal Conductivity

The thermal conductivity (k value) of Campden and Gloucester Stone Walling in accordance with the C.I.B.S. Guide A3 'Thermal Properties of Building Structures' is 1.32W/mk exposed and 1.20W/mk protected. The thermal resistance (R value) in accordance with the above guide should be taken as $0.8\text{m}^2\text{ K/W}$.

Water Absorption

Tests performed in accordance with BS 6073: Part 3: 1989 (Draft Proposed) gave a mean of 9.6% absorption by weight after 24 hours.

Sound Reduction

Based on Mass Law Curve, Campden and Gloucester Stone Walling give a decibel reduction of approximately 44dB.

Fire Resistance

Class 1 aggregates as defined in BS 5628:Part 3:1985 are used in the manufacture of these products and are thus deemed to provide the same notional periods of fire resistance as other concrete wallings.

Efflorescence

Efflorescence usually occurs if finished work is soaked during construction due to inadequate protection. Walling blocks should be protected on site prior to building by stacking them on prepared hard level ground in rows to allow ventilation, and covering them with waterproof sheeting. Good design detailing must also be implemented, such as the use of coping on walls and the proper installation of cavity trays.

Mortars

B.R.E. Digest 160 recommends mortar mixes of 1:2:9 (cement:lime:sand) for normal construction unlikely to be exposed to severe conditions and 1:1:6 (cement:lime:sand) for severe exposure or during winter building.

Movement Joints

Consideration must be given to the inclusion of movement joints. These should be installed wherever there are changes in height, wall thickness and at no greater than 6 metre centres of continuous walling. Bed reinforcement should also be included above and below openings, extending at least 600mm either side of an opening.

Sample Panels

Sample panels should be built before construction starts to establish mortar colour, jointing type and standard of workmanship required. Panels should remain until completion as a point of reference.



Campden Split, Cotswold



Other sizes and colours available to order, subject to quantity