EVALAST BACKGROUND COURSING BLOCK

Technical Datasheet

PRODUCT APPLICATIONS

CAVITY WALLS EXTERNAL LEAF BELOW DPC	CAVITY WALLS EXTERNAL LEAF ABOVE DPC	CAVITY WALLS INNER LEAF BELOW DPC	CAVITY WALLS INNER LEAF ABOVE DPC	SOLID EXTERNAL WALLS BELOW DPC	SOLID EXTERNAL WALLS ABOVE DPC	SEPARATING WALLS	INTERNAL PARTITIONS	BEAM & BLOCK FLOORS	SUITABLE FOR RENDERING
✓ 1, 2, 3	✓ 4	✓ 1, 2	✓	✓ 1, 2, 3, 5	✓ 4, 5	✓ 6	✓	✗	✓

Notes:

1. Products suitability in this application is subject to the block achieving the sites soil / groundwater DS classification requirements.
2. Blocks must have either a minimum compressive strength of 7.3N or a minimum density of 1500 kg/m³ when used below dpc level.
3. Blocks in the external leaf from dpc level to 150mm below ground level must not be left exposed, suitable products such as clay bricks of Class B Engineering properties or "F2" durability in accordance with BS EN 771-1 should be specified in this zone, alternatively blocks may be covered with a suitable protective finish.
4. For all external leaf applications, the block requires a suitable impervious coating or finish applied, blocks must not be left exposed when used on the external leaf.
5. Please refer to Building Regulations, Approved Document A and the Project Structural Engineer for minimum wall thickness, block compressive strength and characteristic strength requirements, specification varies subject to numerous factors which include loading, block orientation, wall height and length.
6. Product suitability in this application is subject to the block achieving the walls specification requirements for sound reduction or those specification criteria set in the Robust Detail selected.
7. For beam and block infill applications, aggregate blocks must have a minimum compressive strength of 7.3 N/mm².
8. The Paint Grade block is a premium product which is manufactured to produce a close face texture and technically can be used in this situation. Commercially, suitable background blocks may be a more suitable specification in this siutation.
9. Estimated figure only, tested values are generally 1 - 3 dB lower.

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PRODUCT TECHNICAL PROPERTIES

Blocks are manufactured to BS EN 771-3.

Material Properties	
Thickness (mm):	140
Face Sizes – L x H (mm):	215 x 65
Dimension Tolerance Classification:	D1
Dimension Tolerance – Length:	(+3mm -5mm)
Dimension Tolerance – Height:	(+3mm -5mm)
Dimension Tolerance – Width:	(+3mm -5mm)
Unit Weight @ 3% Moisture (Kg):	4
Configuration:	Group 1 (Solid)
Category:	II
Mean Compressive Strength (N/mm²):	22.5
Gross Dry Density (Kg/m³):	1990
Design Thermal Conductivity - Protected (3%) (W/m.K):	1.32
Design Thermal Conductivity - Exposed (5%) (W/m.K):	1.42
Design Thermal Conductivity - Below Dpc Level (W/m.K):	NPD
Thermal Resistance - Protected (3%) (m².K/W):	0.106
Thermal Resistance - Exposed (5%) (m².K/W):	0.099
Sound Reduction – Un-finished (RW dB):	50.6^{9}
Fire Resistance (Hours) (NA to BS EN 1996-1-2) – Non-load Bearing Single Leaf walls (Criteria EI):	NPD
Fire Resistance (Hours) (NA to BS EN 1996-1-2) – Load Bearing Single Leaf walls (Criteria REI) α≤ 1.0:	NPD
Load Bearing Single Leaf walls (Criteria REI) α≤ 0.6:	NPD
Reaction to Fire (BS EN 13501):	A1
Water Vapor Permeability:	5/15
Dimensional Stability - Moisture Movement (mm/m):	< 0.55 mm/m
Vapour Resistivity (MN.s/g.m):	100
Soil or Groundwater DS Classification:	DS1, DS2 & DS3
Shear Bond Strength (N/mm²):	0.15
Movement Joint Detail	Vertical movement joints at 9m centres and not more than half that spacing from a corner

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