# EVALAST BACKGROUND COURSING UNITS

Technical Datasheet

V3 12-24





### PRODUCT APPLICATIONS

(Numbers in the table relate to the notes below)

BLOCK WIDTH / COMPRESSIVE STRENGTH	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
100mm / 22.5N	1, 2, 3	4	<b>√</b> 1, 2	✓	1, 2, 3	4	<b>√</b> 5	✓	×	<b>✓</b>
140mm / 22.5N	<b>1</b> , 2, 3	4	<b>√</b> 1, 2	✓	1, 2, 3	<b>√</b> 4	<b>√</b> 5	✓	×	✓

#### Notes

- Products suitability in this application is subject to the block achieving the site's soil / groundwater DS classification requirements.
- Blocks must have either a minimum compressive strength of 7.3N/mm² 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.
- 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.
- 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.
- For beam and block infill applications, aggregate blocks must have a minimum compressive strength of 7.3 N/mm².
- 7. 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.

8. Calculated values Rw(db). On-site testing values may be lower.

Products should be designed and constructed in accordance with all relevant Legislation, Building Regulations, European & British Standards, Acts, Codes of Practice and manufacturers recommendations.

Specifications should ensure that the product meets all technical properties suitable for the required application.

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, restraint, wall height and length.

Block weights based on gross density plus 10% @ 5% (Evalast products) or 15% (Fenlite products) moisture content (typical received), moisture equilibrium approximately 3% (protected) and 5% (exposed).

NPD No performance declaration - please contact Forterra for further information.



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# **PRODUCT TECHNICAL PROPERTIES**

Blocks are manufactured to BS EN 771-3.

Thickness (mm):	100	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, Gross Density + 10% @ 5% Moisture (kg):	3.2	4.5		
Configuration:	Group 1 (Solid)			
Category:	II			
Mean Compressive Strength (N/mm²):	22.5			
Gross Dry Density (Kg/m³):	1990			
Thermal Conductivity - λ10, dry unit, S1 (W/m.K):	0.99			
Design Thermal Conductivity - Protected (3%) (W/m.K):	1.12			
Design Thermal Conductivity - Exposed (5%) (W/m.K):	1.21			
Design Thermal Conductivity - Below Dpc Level (W/m.K):	NPD			
Thermal Resistance - Protected (3%) (m <sup>2</sup> .K/W):	0.089	0.125		
Thermal Resistance - Exposed (5%) (m².K/W):	0.083	0.116		
Sound Reduction - Un-finished (RW dB):	47.4 <sup>8</sup>	50.5 <sup>8</sup>		
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) ≤ 1.0:	NPD			
Load Bearing Single Leaf walls (Criteria REI) ≤ 0.6:	NPD			
Reaction to Fire (BS EN 13501):	A1			
Durability Against Freeze / Thaw:	Not to be left exposed			
Water Vapor Permeability:	5/15			
Dimensional Stability - Moisture Movement (mm/m):	< 0.55 mm/m			
Vapour Resistivity (MN.s/g.m):	75			
Soil or Groundwater DS Classification:	DS1			
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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