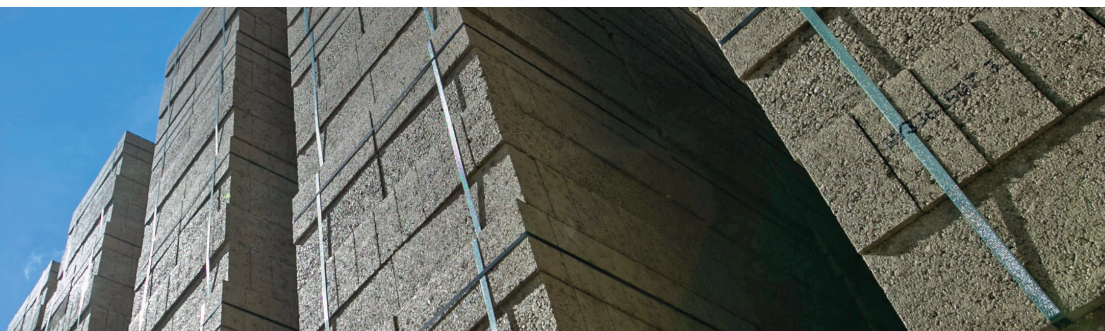
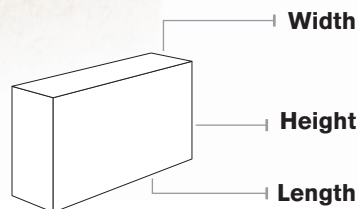


EVALAST BLOCK 1990

CONBLOC

a Forterra brand



PROVEN STRENGTH FOR DEMANDING BUILDING SOLUTIONS

Evalast Block 1990 forms part of **Conbloc**'s highest compressive strength range, suitable for multi-storey buildings and structures as well as general purpose construction. Available in strength options up to 30 N/mm², the block has a density of 1,990kg/m³.

Conbloc aggregate concrete blocks provide compressive strength combined with acoustic performance across a range of construction projects. Suitable for load-bearing applications, the range has an A1 reaction to fire classification and high thermal mass.

Manufactured to BS EN 771-3, compliant with Masonry Wall Robust Details, and supporting Approved Documents Part A, B, E and L, **Conbloc** keeps programmes on track with straightforward builds and smooth inspections.

KEY FACTS

(based on 440x215x100mm block)

Compressive Strength:	7.3/10.4/17.5/22.5/30 N/mm ²
Weight:	21.8kg/block
Design Thermal Conductivity: Protected (3%)	1.12 W/m.K
Sound Reduction: Un-finished (RW dB)	47.6 On-site testing values may be lower
Reaction to fire: BS EN 13501	A1

**UK
CA**

EVALAST BLOCK 1990

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PRODUCT APPLICATION

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 FLOORING INFILL
 100mm / 7.3N	✓ Φ π ϑ	✓ Σ	✓ Φ π	✓	✓ Φ π ϑ	✓ Σ	✓ Ж	✓	✓ Нб
 100mm / 10.4N	✓ Φ π ϑ	✓ Σ	✓ Φ π	✓	✓ Φ π ϑ	✓ Σ	✓ Ж	✓	✓ Нб
 100mm / 17.5N	✓ Φ π ϑ	✓ Σ	✓ Φ π	✓	✓ Φ π ϑ	✓ Σ	✓ Ж	✓	✓ Нб
 100mm / 22.5N	✓ Φ π ϑ	✓ Σ	✓ Φ π	✓	✓ Φ π ϑ	✓ Σ	✓ Ж	✓	✓ Нб
 100mm / 30N	✓ Φ π ϑ	✓ Σ	✓ Φ π	✓	✓ Φ π ϑ	✓ Σ	✓ Ж	✓	✓ Нб
 140mm / 7.3N	✓ Φ π ϑ	✓ Σ	✓ Φ π	✓	✓ Φ π ϑ	✓ Σ	✓ Ж	✓	✗
 140mm / 10.4N	✓ Φ π ϑ	✓ Σ	✓ Φ π	✓	✓ Φ π ϑ	✓ Σ	✓ Ж	✓	✗
 140mm / 22.5N	✓ Φ π ϑ	✓ Σ	✓ Φ π	✓	✓ Φ π ϑ	✓ Σ	✓ Ж	✓	✗
 140mm / 30N	✓ Φ π ϑ	✓ Σ	✓ Φ π	✓	✓ Φ π ϑ	✓ Σ	✓ Ж	✓	✗



SPECIAL ORDER

Lead times may be extended and subject to minimum order quantity



CAUTION! Heavy item >20kg

NOTES:

Φ Product suitability in this application is subject to the block achieving the sites soil / groundwater DS classification requirements.

π 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.

ϑ 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

Σ 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.

Ж 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.

Нб For beam and block infill applications, aggregate blocks must have a minimum compressive strength of 7.3N/mm².

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 Projects 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 @ 5% (Evalast products) moisture content (typical received), moisture equilibrium approximately 3% (protected) and 5% (exposed).



EVALAST BLOCK 1990

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PRODUCT TECHNICAL DATA

 **SPECIAL ORDER**

Lead times may be extended and subject to minimum order quantity

Width (mm):	100 	100 	100 	100 	100 	140 	140 	140 	140 
Face Sizes – L x H (mm):	440 x 215	440 x 215	440 x 215	440 x 215	440 x 215	440 x 215	440 x 215	440 x 215	440 x 215
Dimensional Tolerance Classification:	D1	D1	D1	D1	D1	D1	D1	D1	D1
Dimensional Tolerance – Length:	(+3mm -5mm)	(+3mm -5mm)	(+3mm -5mm)	(+3mm -5mm)	(+3mm -5mm)	(+3mm -5mm)	(+3mm -5mm)	(+3mm -5mm)	(+3mm -5mm)
Dimensional Tolerance – Height:	(+3mm -5mm)	(+3mm -5mm)	(+3mm -5mm)	(+3mm -5mm)	(+3mm -5mm)	(+3mm -5mm)	(+3mm -5mm)	(+3mm -5mm)	(+3mm -5mm)
Dimensional Tolerance – Width:	(+3mm -5mm)	(+3mm -5mm)	(+3mm -5mm)	(+3mm -5mm)	(+3mm -5mm)	(+3mm -5mm)	(+3mm -5mm)	(+3mm -5mm)	(+3mm -5mm)
Block Weight, (3% moisture):	19.4	19.4	19.4	19.4	19.4	27.2	27.2	27.2	27.2
Block Weight, (15% moisture):	19.8	19.8	19.8	19.8	19.8	27.7	27.7	27.7	27.7
Configuration:	Group 1 (Solid)	Group 1 (Solid)	Group 1 (Solid)	Group 1 (Solid)	Group 1 (Solid)	Group 1 (Solid)	Group 1 (Solid)	Group 1 (Solid)	Group 1 (Solid)
Category:	II	II	II	II	II	II	II	II	II
Mean Compressive Strength (N/mm ²): The declared properties are based on the block being laid in their intended orientation i.e. face size (L x H) and width stated on this technical data sheet. Please contact Forterra for further information before using the block in a different orientation.	7.3	10.4	17.5	22.5	30	7.3	10.4	22.5	30
Gross Dry Density (Kg/m ³):	1990	1990	1990	1990	1990	1990	1990	1990	1990
Thermal Conductivity - λ10, dry unit, S1 (W/m.K)	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Design Thermal Conductivity - Protected (3%) (W/m.K):	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12
Design Thermal Conductivity - Exposed (5%) (W/m.K):	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
Design Thermal Conductivity - (15%) (W/m.K):	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81
Thermal Resistance - Protected (3%) (m ² .K/W):	0.08	0.08	0.08	0.08	0.08	0.12	0.12	0.12	0.12
Thermal Resistance - Exposed (5%) (m ² .K/W):	0.08	0.08	0.08	0.08	0.08	0.11	0.11	0.11	0.11
Sound Reduction – Un-finished (RW dB): Sound Reduction - Calculated based on unfinished. On-site testing values may be lower.	47.6	47.6	47.6	47.6	47.6	50.8	50.8	50.8	50.8
Fire Resistance (Hours) (NA to BS EN 1996-1-2) – Non-load Bearing Single Leaf walls (Criteria EI):	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Fire Resistance (Hours) (NA to BS EN 1996-1-2) – Load Bearing Single Leaf walls (Criteria REI) ≤ 0.7:	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Load Bearing Single Leaf walls (Criteria REI) ≤ 0.42:	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Reaction to Fire (BS EN 13501):	A1	A1	A1	A1	A1	A1	A1	A1	A1
Durability Against Freeze / Thaw:	Not to be left exposed	Not to be left exposed	Not to be left exposed	Not to be left exposed	Not to be left exposed	Not to be left exposed	Not to be left exposed	Not to be left exposed	Not to be left exposed
Water Vapor Permeability:	5/15	5/15	5/15	5/15	5/15	5/15	5/15	5/15	5/15
Dimensional Stability - Moisture Movement (mm/m):	< 0.55 mm/m	< 0.55 mm/m	< 0.55 mm/m	< 0.55 mm/m	< 0.55 mm/m	< 0.55 mm/m	< 0.55 mm/m	< 0.55 mm/m	< 0.55 mm/m
Vapour Resistivity (MN.s/g.m):	25/75	25/75	25/75	25/75	25/75	25/75	25/75	25/75	25/75
Soil or Groundwater DS Classification:	DS1	DS1	DS1	DS1	DS1	DS1	DS1	DS1	DS1
Shear Bond Strength (N/mm ²):	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Movement Joint Detail	Vertical movement joints at 9m centres and not more than half that spacing from a corner								

Blocks are manufactured to BS EN 771-3. NPD denotes 'No Performance Declaration'; please contact Forterra for further information.  **CAUTION!** Heavy item >20kg

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Valid at the time of publication. Please check our website (www.forterra.co.uk) for the latest product information and documentation. For previous versions please contact us.

