Declaration of Performance

UKCA - BRC100 - 01

1. Product Type — **High Solar Grade Celcon Blocks**

2. Product identification — **BRC100**

3. Intended use — Load bearing and non-load bearing applications in all forms of walling including single leaf, cavity, partitions, retaining and basements

4. Manufacturer — **H+H UK Ltd, Celcon House, Ightham, Sevenoaks, Kent, TN15 9HZ**
Tel: +44 1732 880333 Email: info@hhcelcon.co.uk

5. System AVCP — 2+

6. UK Designated Standard — BS EN 771-4:2011 + A1:2015

7. UK Approved Body — British Board of Agrément, PO Box 195, Bucknalls Lane, Garston, Watford, Herts WD25 7NG (Approved Body reference N° 0836)

8. Declared Performance

Essential characteristics		**Performance**
Dimensions	length, mm	440
	height, mm	215
	width, mm	100
Dimensional Tolerances		GPLM
Compressive Strength unit category		I
Mean compressive strength, N/mm^2		3.2
Dimensional stability (shrinkage), mm/m		0.4
Shear bond strength, N/mm^2		0.15 with GPLM 0.30 with TLM (Tabulated value according to EN 998-2)
Reaction to fire		Euroclass A1
Water absorption, g/m^{2}s^{0,5}		NPD
Water vapour diffusion coefficient μ		5/10 (Tabulated value according to EN1745)
Durability (freeze-thaw resistance)		For use above and below ground level
Gross dry bulk density, mean, kg/m^3		460
Form and shape		Solid Group 1
Thermal conductivity, $\lambda_{10,dry}$ (P=50%), W/mK		0.10

9. The performance of the product identified above is in conformity with the declared performance.

This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, as it has effect in the United Kingdom under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of H+H UK Limited

Calum J Forsyth

Calum Forsyth (Managing Director)
Borough Green, Kent
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0836

H+H UK Ltd, Celcon House, Ightham, Sevenoaks, Kent, TN15 9HZ

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BS EN 771-4:2011 + A1:2015

High Solar Grade Celcon Blocks

Load bearing and non-load bearing applications in all forms of walling including single leaf, cavity, partitions, retaining and basements

Category I, autoclaved aerated concrete masonry unit

Dimensions:	(Length x Height x Width)	440mm x 215mm x 100mm
Dimensional tolerances:		Category: GPLM
Configuration:		Solid (Group 1 unit to EN1996-1-1)
Compressive strength:		Mean 3.2 N/mm² (⊥ bedface, whole unit) (Cat I)
Dimension stability:		Moisture movement: 0.4 mm/m
Bond strength (initial shear):		Fixed Value 0.15 N/mm² with GPLM 0.30 N/mm² with TLM
Flexural Bond strength:		NPD
Reaction to fire:		Euroclass A1
Water absorption:		NPD
Water vapour diffusion coefficient:		Fixed Value 5/10
Gross density:		460 kg/m³
Thermal conductivity:		0.10 W/mK ($\lambda_{10,dry}$)
Durability:		For use above and below ground level