

Declaration of Performance

UKCA - HRC140 - 01

1. Product Type **Super Strength Grade Celcon Blocks**
2. Product identification **HRC140**
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	140
Dimensional Tolerances		GPLM
Compressive Strength unit category		I
Mean compressive strength, N/mm ²		8.7
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		730
Form and shape		Solid Group 1
Thermal conductivity, $\lambda_{10, dry}$ (P=50%), W/mK		0.16

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 Forsyth (Managing Director)

Borough Green, Kent

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BS EN 771-4:2011 + A1:2015

Super Strength 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 140mm
Dimensional tolerances:	Category: GPLM
Configuration:	Solid (Group 1 unit to EN1996-1-1)
Compressive strength:	Mean 8.7 N/mm ² (⊥ bedface, whole unit) (Cat I)
Dimension stability:	Moisture movement: 0.4 mm/m
Bond strength (initial shear):	Fixed Value 0.15 N/mm ² with GPLM 0.30 N/mm ² with TLM
Flexural Bond strength:	NPD
Reaction to fire:	Euroclass A1
Water absorption:	NPD
Water vapour diffusion coefficient:	Fixed Value 5/10
Gross density:	730 kg/m ³
Thermal conductivity:	0.16 W/mK ($\lambda_{10, dry}$)
Durability:	For use above and below ground level