

# Declaration of Performance

## UKCA - NRC140 - 01

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|---------------------------|---|
| 1. Product Type           | <b>High Strength Grade Celcon Blocks</b>  |
| 2. Product identification | <b>NRC140</b>   |
| 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           | <b>H+H UK Ltd, Celcon House, Ightham, Sevenoaks, Kent, TN15 9HZ</b><br>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<br>(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 <sup>2</sup>		7.3
Dimensional stability (shrinkage), mm/m		0.4
Shear bond strength, N/mm <sup>2</sup>		0.15 with GPLM 0.30 with TLM (Tabulated value according to EN 998-2)
Reaction to fire		Euroclass A1
Water absorption, g/m <sup>2</sup> s <sup>0.5</sup>		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 <sup>3</sup>		730
Form and shape		Solid Group 1
Thermal conductivity, λ <sub>10,dry</sub> (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

12 May 2021

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 0836	
<b>H+H UK Ltd, Celcon House, Ightham, Sevenoaks, Kent, TN15 9HZ</b>  21  UKCA - NRC140 - 01	
BS EN 771-4:2011 + A1:2015  <b>High Strength Grade Celcon Blocks</b>  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	
<b>Dimensions:</b> (Length x Height x Width) 440mm x 215mm x 140mm <b>Dimensional tolerances:</b> Category: GPLM <b>Configuration:</b> Solid (Group 1 unit to EN1996-1-1) <b>Compressive strength:</b> Mean 7.3 N/mm <sup>2</sup> (⊥ bedface, whole unit) (Cat I) <b>Dimension stability:</b> Moisture movement: 0.4 mm/m <b>Bond strength (initial shear):</b> Fixed Value 0.15 N/mm <sup>2</sup> with GPLM 0.30 N/mm <sup>2</sup> with TLM  <b>Flexural Bond strength:</b> NPD <b>Reaction to fire:</b> Euroclass A1 <b>Water absorption:</b> NPD <b>Water vapour diffusion coefficient:</b> Fixed Value 5/10 <b>Gross density:</b> 730 kg/m <sup>3</sup> <b>Thermal conductivity:</b> 0.16 W/mK (λ <sub>10,dry</sub> ) <b>Durability:</b> For use above and below ground level	