

Declaration of Performance

UKCA - HRC100 - 01

1. Product Type **Super Strength Grade Celcon Blocks**
2. Product identification **HRC100**
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	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, λ _{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

12 May 2021

Document Version : - 01: First issue

 0836																																									
H+H UK Ltd, Celcon House, Ightham, Sevenoaks, Kent, TN15 9HZ 21 UKCA - HRC100 - 01																																									
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																																									
<table> <tbody> <tr> <td>Dimensions:</td> <td>(Length x Height x Width)</td> <td>440mm x 215mm x 100mm</td> </tr> <tr> <td>Dimensional tolerances:</td> <td></td> <td>Category: GPLM</td> </tr> <tr> <td>Configuration:</td> <td></td> <td>Solid (Group 1 unit to EN1996-1-1)</td> </tr> <tr> <td>Compressive strength:</td> <td></td> <td>Mean 8.7 N/mm² (⊥ bedface, whole unit) (Cat I)</td> </tr> <tr> <td>Dimension stability:</td> <td></td> <td>Moisture movement: 0.4 mm/m</td> </tr> <tr> <td rowspan="2">Bond strength (initial shear):</td> <td>Fixed Value</td> <td>0.15 N/mm² with GPLM</td> </tr> <tr> <td></td> <td>0.30 N/mm² with TLM</td> </tr> <tr> <td>Flexural Bond strength:</td> <td></td> <td>NPD</td> </tr> <tr> <td>Reaction to fire:</td> <td></td> <td>Euroclass A1</td> </tr> <tr> <td>Water absorption:</td> <td></td> <td>NPD</td> </tr> <tr> <td>Water vapour diffusion coefficient:</td> <td></td> <td>Fixed Value 5/10</td> </tr> <tr> <td>Gross density:</td> <td></td> <td>730 kg/m³</td> </tr> <tr> <td>Thermal conductivity:</td> <td></td> <td>0.16 W/mK (λ_{10,dry})</td> </tr> <tr> <td>Durability:</td> <td></td> <td>For use above and below ground level</td> </tr> </tbody> </table>	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 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 (λ _{10,dry})	Durability:		For use above and below ground level
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 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 (λ _{10,dry})																																							
Durability:		For use above and below ground level																																							