

## Declaration of Performance

### UKCA - HGP140 - 01

1. Product Type **Super Strength Grade Celcon Plus Blocks**
2. Product identification **HGP140**
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	630
	height, mm	215
	width, mm	140
Dimensional Tolerances		TLMA
Compressive Strength unit category		I
Mean compressive strength, N/mm <sup>2</sup>		8.7
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

Document Version : - 01: First issue

 0836	
<b>H+H UK Ltd, Celcon House, Ightham, Sevenoaks, Kent, TN15 9HZ</b>  21  UKCA - HGP140 - 01	
BS EN 771-4:2011 + A1:2015  <b>Super Strength Grade Celcon Plus 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)	630mm x 215mm x 140mm
<b>Dimensional tolerances:</b>	Category: TLMA
<b>Configuration:</b>	Solid (Group 1 unit to EN1996-1-1)
<b>Compressive strength:</b>	Mean 8.7 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