

## Declaration of Performance

### UKCA - NCP100 - 01

1. Product Type	<b>High Strength Grade Coursing Units</b>
2. Product identification	<b>NCP100</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> Tel: +44 1732 880333 Email: info@hhcelcon.co.uk
5. System AVCP	4
6. UK Designated Standard	BS EN 771-4:2011 + A1:2015

#### 7. Declared Performance

Essential characteristics		Performance
Dimensions	length, mm	215
	height, mm	65
	width, mm	100
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

8. 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

UK CA																																									
H+H UK Ltd, Celcon House, Ightham, Sevenoaks, Kent, TN15 9HZ																																									
21																																									
UKCA - NCP100 - 01																																									
BS EN 771-4:2011 + A1:2015																																									
High Strength Grade Coursing Units																																									
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 border="0" style="width: 100%;"> <tr> <td style="width: 30%;"><b>Dimensions:</b></td> <td>(Length x Height x Width)</td> <td>215mm x 65mm x 100mm</td> </tr> <tr> <td><b>Dimensional tolerances:</b></td> <td>Category:</td> <td>GPLM</td> </tr> <tr> <td><b>Configuration:</b></td> <td></td> <td>Solid (Group 1 unit to EN1996-1-1)</td> </tr> <tr> <td><b>Compressive strength:</b></td> <td>Mean</td> <td>7.3 N/mm<sup>2</sup> (⊥ bedface, whole unit) (Cat I)</td> </tr> <tr> <td><b>Dimension stability:</b></td> <td>Moisture movement:</td> <td>0.4 mm/m</td> </tr> <tr> <td rowspan="2"><b>Bond strength (initial shear):</b></td> <td>Fixed Value</td> <td>0.15 N/mm<sup>2</sup> with GPLM</td> </tr> <tr> <td></td> <td>0.30 N/mm<sup>2</sup> with TLM</td> </tr> <tr> <td><b>Flexural Bond strength:</b></td> <td></td> <td>NPD</td> </tr> <tr> <td><b>Reaction to fire:</b></td> <td></td> <td>Euroclass A1</td> </tr> <tr> <td><b>Water absorption:</b></td> <td></td> <td>NPD</td> </tr> <tr> <td><b>Water vapour diffusion coefficient:</b></td> <td>Fixed Value</td> <td>5/10</td> </tr> <tr> <td><b>Gross density:</b></td> <td></td> <td>730 kg/m<sup>3</sup></td> </tr> <tr> <td><b>Thermal conductivity:</b></td> <td></td> <td>0.16 W/mK (λ<sub>10,dry</sub>)</td> </tr> <tr> <td><b>Durability:</b></td> <td></td> <td>For use above and below ground level</td> </tr> </table>	<b>Dimensions:</b>	(Length x Height x Width)	215mm x 65mm x 100mm	<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
<b>Dimensions:</b>	(Length x Height x Width)	215mm x 65mm x 100mm																																							
<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																																							