

Declaration of Performance

UKCA - STC100 - 01

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|---------------------------|---|
| 1. Product Type | Standard Grade Aircrete |
| 2. Product identification | STC100 |
| 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	540
	height, mm	440
	width, mm	100
Dimensional Tolerances		GPLM
Compressive Strength unit category		II
Mean compressive strength, N/mm ²		3.6
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		600
Form and shape		Solid Group 1
Thermal conductivity, $\lambda_{10, dry}$ (P=50%), W/mK		0.13

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	
H+H UK Ltd, Celcon House, Ightham, Sevenoaks, Kent, TN15 9HZ 21 UKCA - STC100 - 01	
BS EN 771-4:2011 + A1:2015 Standard Grade Aircrete Load bearing and non-load bearing applications in all forms of walling including single leaf, cavity, partitions, retaining and basements Category II, autoclaved aerated concrete masonry unit	
Dimensions: (Length x Height x Width) 540mm x 440mm x 100mm Dimensional tolerances: Category: GPLM Configuration: Solid (Group 1 unit to EN1996-1-1) Compressive strength: Mean 3.6 N/mm ² (L bedface, whole unit) (Cat II) 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: 600 kg/m ³ Thermal conductivity: 0.13 W/mK ($\lambda_{10, dry}$) Durability: For use above and below ground level	