# Declaration of Performance

## UKCA - UGP150 - 01

1. Product Type **Solar Grade Celcon Plus Blocks**

2. Product identification **UGP150**

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 | 150 |
| Dimensional Tolerances | | TLMA |
| Compressive Strength unit category | | II |
| Mean compressive strength, N/mm$^2$ | | 2.9 |
| Dimensional stability (shrinkage), mm/m | | 0.4 |
| Shear bond strength, N/mm$^2$ | | 0.15 with GPLM<br>0.30 with TLM<br>(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<br>(Tabulated value according to EN1745) |
| Durability (freeze-thaw resistance) | | For use above and below ground level |
| Gross dry bulk density, mean, kg/m$^3$ | | 460 |
| Form and shape | | Solid Group 1 |
| Thermal conductivity, $\lambda_{10,dry}$ (P=50%), W/mK | | 0.10 |

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 J Forsyth

**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 - UGP150 - 01

BS EN 771-4:2011 + A1:2015

## Solar Grade Celcon Plus Blocks

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) | 630mm x 215mm x 150mm |
| **Dimensional tolerances:** | | Category: TLMA |
| **Configuration:** | | Solid (Group 1 unit to EN1996-1-1) |
| **Compressive strength:** | | Mean 2.9 N/mm² (⊥ bedface, whole unit) (Cat II) |
| **Dimension stability:** | | Moisture movement: 0.4 mm/m |
| **Bond strength (initial shear):** | | Fixed Value 0.15 N/mm² with GPLM<br>0.30 N/mm² with TLM |
| **Flexural Bond strength:** | | NPD |
| **Reaction to fire:** | | Euroclass A1 |
| **Water absorption:** | | NPD |
| **Water vapour diffusion coefficient:** | | Fixed Value 5/10 |
| **Gross density:** | | 460 kg/m³ |
| **Thermal conductivity:** | | 0.10 W/mK ($\lambda_{10,dry}$) |
| **Durability:** | | For use above and below ground level |