

## Concrete Blocks Datasheet - Standard Blocks

| Product Name             | Shape                                                                               |
|--------------------------|-------------------------------------------------------------------------------------|
| HCB 6" LWS - 6 MPa       |    |
| HCB 7" LWS - 7 MPa       |    |
| HCB 8" LWS - 7 MPa       |    |
| HCB 9" Single LWS - 6MPa |    |
| HCB 4" LW                |    |
| HCB 6" LW                |    |
| HCB 7" LW                |    |
| HCB 8" LW                |    |
| HCB 9" Single LW         |    |
| HCB 9" SD                |    |
| HCB 9" SD -7Mpa          |    |
| HCB 9" DD                |    |
| HCB 7"                   |    |
| HCB 6"                   |    |
| SCB 2.5"                 |    |
| HCB 4"                   |   |
| SCB 4"                   |  |
| SCB 6"                   |  |
| SCB 7"                   |  |
| SCB 9"                   |  |
| Singe Core 9"            |  |
| Double Core 12"          |  |

|               | Product Code  | Group Category | Dimensions                 | Tolerance Category | Typical Gross Dry Density | Typical Net Dry Density | Normalised Compressive Strength | Shear Bond Strength | Mean Compressive Strength | Resistance to Concentrated Load | Infill volume  | Frog Size              | % of Frogs | Gross Area | Net Area | Typical Water absorption by Capillarity | Water Vapour Permeability | Typical Thermal Conductivity | Typical Thermal Resistance | Reaction to Fire |
|---------------|---------------|----------------|----------------------------|--------------------|---------------------------|-------------------------|---------------------------------|---------------------|---------------------------|---------------------------------|----------------|------------------------|------------|------------|----------|-----------------------------------------|---------------------------|------------------------------|----------------------------|------------------|
| Ref. Norm UoM |               | EN 1996 - 1    | EN 772 - 16 W x L x H [mm] | EN 771 - 3 Table 1 | EN 772 - 13 kg/m³         | EN 772 - 13 kg/m³       | EN 772 - 1 N/mm²                | EN 998 - 2 [N/mm²]  | EN 772 - 1 N/mm²          | EN 15037 - 2 [kN]               | EN ISO 12572 / |                        |            |            |          |                                         |                           |                              |                            |                  |
|               |               |                |                            |                    |                           |                         |                                 |                     |                           |                                 | mm³            | EN 772 - 16 L x T [mm] | [%]        | [mm²]      | [mm²]    | EN 772 - 11 [g/(m².s)]                  | EN 1745                   | EN 1745 [W/mK]               | [m² .K/W]                  | EN 13501 - 1     |
| EN 773 - 1    | ABG310606LW56 | Hollow - Grp 2 | 145 x 450 x 255            | D1                 | 950-1050                  | 1400-1500               | 8.2                             | 0.15                | 6.0                       | n/a                             | 5338           | 69 x 155               | 32.1       | 65134      | 44199    | 2                                       | 5/15µ                     | 0.425-0.452                  | 0.321-0.341                | Euro Class A1    |
| EN 773 - 1    | ABG310707LW57 | Hollow - Grp 2 | 173 x 450 x 255            | D1                 | 1050-1150                 | 1400-1500               | 9.1                             | 0.15                | 7.0                       | n/a                             | 5279           | 71 x 149               | 26.6       | 77713      | 57013    | 2.5                                     | 5/15µ                     | 0.436-0.466                  | 0.371-0.397                | Euro Class A1    |
| EN 773 - 1    | ABG310808LW57 | Hollow - Grp 2 | 200 x 450 x 255            | D1                 | 1000-1100                 | 1300-1400               | 8.6                             | 0.15                | 7.0                       | n/a                             | 5158           | 66 x 155               | 22.5       | 90000      | 69771    | 3.5                                     | 5/15µ                     | 0.408-0.442                  | 0.452-0.490                | Euro Class A1    |
| EN 773 - 1    | ABG310909LW56 | Hollow - Grp 2 | 220 x 450 x 255            | D1                 | 850-950                   | 1350-1450               | 7.1                             | 0.15                | 6.0                       | n/a                             | 10377          | 130 x 158              | 41.2       | 98863      | 58170    | 2.9                                     | 5/15µ                     | 0.504-0.539                  | 0.408-0.437                | Euro Class A1    |
| EN 773 - 1    | ABG310504LW   | Hollow - Grp 2 | 100 x 450 x 255            | D1                 | 500-600                   | 800-900                 | 2.9                             | 0.15                | 2.0                       | n/a                             | 3370           | 40 x 169               | 29.4       | 44884      | 31670    | 18                                      | 5/15µ                     | 0.224-0.252                  | 0.400-0.447                | Euro Class A1    |
| EN 773 - 1    | ABG310606LW   | Hollow - Grp 2 | 145 x 450 x 255            | D1                 | 500-600                   | 700-800                 | 2.7                             | 0.15                | 2.0                       | n/a                             | 5338           | 69 x 155               | 32.1       | 65134      | 44199    | 2                                       | 5/15µ                     | 0.222-0.248                  | 0.585-0.653                | Euro Class A1    |
| EN 773 - 1    | ABG310707LW   | Hollow - Grp 2 | 173 x 450 x 255            | D1                 | 550-650                   | 800-900                 | 2.6                             | 0.15                | 2.0                       | n/a                             | 5279           | 71 x 149               | 26.6       | 77713      | 57013    | 2.4                                     | 5/15µ                     | 0.244-0.278                  | 0.622-0.70                 | Euro Class A1    |
| EN 773 - 1    | ABG310808LW   | Hollow - Grp 2 | 200 x 450 x 255            | D1                 | 550-650                   | 750-850                 | 2.5                             | 0.15                | 2.0                       | n/a                             | 5158           | 66 x 155               | 22.5       | 90000      | 69771    | 2.7                                     | 5/15µ                     | 0.226-0.258                  | 0.775-0.885                | Euro Class A1    |
| EN 773 - 1    | ABG310909LW   | Hollow - Grp 2 | 220 x 450 x 255            | D1                 | 500-600                   | 800-900                 | 2.4                             | 0.15                | 2.0                       | n/a                             | 10377          | 130 x 158              | 41.2       | 98863      | 58170    | 2.5                                     | 5/15µ                     | 0.31-0.348                   | 0.632-0.70                 | Euro Class A1    |
| EN 773 - 1    | ABG310909     | Hollow - Grp 2 | 220 x 450 x 255            | D1                 | 1100-1200                 | 1750-1850               | 7.2                             | 0.15                | 6.0                       | n/a                             | 10377          | 130 x 158              | 41.2       | 98863      | 58170    | 3.7                                     | 5/15µ                     | 0.68-0.72                    | 0.31-0.33                  | Euro Class A1    |
| EN 773 - 1    | ABG310907     | Hollow - Grp 2 | 220 x 450 x 255            | D1                 | 1017-1243                 | 1665-2035               | 8.4                             | 0.15                | 7.0                       | n/a                             | 10377          | 130 x 158              | 41.2       | 98863      | 58170    |                                         | 5/15µ                     | 0.68-0.83                    | 0.27-0.32                  | Euro Class A1    |
| EN 773 - 1    | ABG310809     | Hollow - Grp 2 | 220 x 450 x 255            | D1                 | 1300-1400                 | 1750-1850               | 8.4                             | 0.15                | 7.0                       | n/a                             | 7041           | 100 x 140              | 27.9       | 98863      | 71250    | 3.7                                     | 5/15µ                     | 0.71-0.75                    | 0.29-0.31                  | Euro Class A1    |
| EN 773 - 1    | ABG310707     | Hollow - Grp 2 | 173 x 450 x 255            | D1                 | 1300-1400                 | 1750-1850               | 7.8                             | 0.15                | 6.0                       | n/a                             | 5279           | 71 x 149               | 26.6       | 77713      | 57013    | 3.9                                     | 5/15µ                     | 0.61-0.65                    | 0.27-0.28                  | Euro Class A1    |
| EN 773 - 1    | ABG310606     | Hollow - Grp 2 | 145 x 450 x 255            | D1                 | 1200-1300                 | 1650-1750               | 6.8                             | 0.15                | 5.0                       | n/a                             | 5338           | 69 x 155               | 32.1       | 65134      | 44199    | 3                                       | 5/15µ                     | 0.55-0.58                    | 0.25-0.27                  | Euro Class A1    |
| EN 773 - 1    | ABG3104025    | Solid - Grp 1  | 60 x 450 x 255             | D1                 | 1650-1750                 | 1650-1750               | 4.6                             | 0.15                | 3.0                       | n/a                             | n/a            | n/a                    | n/a        | 26884      | n/a      | 4.7                                     | 5/15µ                     | 0.74                         | 0.086                      | Euro Class A1    |
| EN 773 - 1    | ABG310504     | Hollow - Grp 2 | 100 x 450 x 255            | D1                 | 1150-1250                 | 1700-1800               | 3.6                             | 0.15                | 2.5                       | n/a                             | 3370           | 40 x 169               | 29.4       | 44884      | 31670    | 3.8                                     | 5/15µ                     | 0.51                         | 0.2                        | Euro Class A1    |
| EN 773 - 1    | ABG310504S    | Solid - Grp 1  | 100 x 450 x 255            | D1                 | 1700-1800                 | 1700-1800               | 4.4                             | 0.15                | 3.0                       | n/a                             | n/a            | n/a                    | n/a        | 44884      | n/a      | 4.1                                     | 5/15µ                     | 0.79                         | 0.13                       | Euro Class A1    |
| EN 773 - 1    | ABG310606S    | Solid - Grp 1  | 145 x 450 x 255            | D1                 | 1800-1900                 | 1800-1900               | 8.2                             | 0.15                | 6.0                       | n/a                             | n/a            | n/a                    | n/a        | 65134      | n/a      | 4.1                                     | 5/15µ                     | 0.85                         | 0.17                       | Euro Class A1    |
| EN 773 - 1    | ABG310707S    | Solid - Grp 1  | 173 x 450 x 255            | D1                 | 1750-1850                 | 1750-1850               | 7.8                             | 0.15                | 6.0                       | n/a                             | n/a            | n/a                    | n/a        | 77713      | n/a      | 4.8                                     | 5/15µ                     | 0.8                          | 0.22                       | Euro Class A1    |
| EN 773 - 1    | ABG310909S    | Solid - Grp 1  | 220 x 450 x 255            | D1                 | 1800-1900                 | 1800-1900               | 8.1                             | 0.15                | 7.0                       | n/a                             | n/a            | n/a                    | n/a        | 98863      | n/a      | 3.6                                     | 5/15µ                     | 0.85                         | 0.26                       | Euro Class A1    |
| EN 773 - 1    | ABG311311S    | Hollow - Grp 2 | 220 x 450 x 255            | D1                 |                           |                         | 2.3                             | 0.15                | 2.0                       | n/a                             | 10947          | 125 x 345              | 43.4       | 98863      | 55932    |                                         | 5/15µ                     | 0.952 <sup>C,D</sup>         | 0.2312 <sup>C,D</sup>      | Euro Class A1    |
| EN 773 - 1    | ABG311312S    | Hollow - Grp 2 | 300 x 450 x 255            | D1                 | 650-750                   | 1600-1700               | 2.3                             | 0.15                | 2.0                       | n/a                             | 19455          | 172.5 x 226.5          | 56.7       | 134666     | 58371    | NDP                                     | 5/15µ                     | 1.033 <sup>C</sup>           | 0.2905 <sup>C</sup>        | Euro Class A1    |

## CONCRETE BLOCKS

With two lines of production, the plant produces an average of 25,000 bricks per day and boasts offering the widest variety of concrete blocks in Malta. These include, load bearing and non-load bearing hollow concrete masonry blocks, blocks for wall partitions, structural lightweight blocks, insulated blocks, coping stones, roofing blocks, kerb stones and interlocking concrete paving blocks.

Thanks to our large facility and strong production regime, we maintain a level of stock ensuring our product is available any time you need it. We also ensure fast loading time and delivery anywhere in Malta —

Notes:

- The thermal performance is based of a T-beam/roofing block system topped with 50mm concrete having a density of 2200kg/m<sup>3</sup>
- The thermal conductivity/resistance value excludes the internal/external surface resistance.
- The thermal conductivity/resistance is calculated based on the condition that the frogs are infilled with concrete having a density of 2200kg/m<sup>3</sup>
- A net dry density of 1800kg/m<sup>3</sup> was used for the respective masonry block.
- The thermal characteristic has been computed as part of a system consisting of a 9° curved block and an orthogonally adjoining half 9° double block.

All dimensional tolerances according to CAT. D1 (EN 771-3)

All the blocks except for the lightweight and structural lightweight blocks are also available with 100% recycled aggregates.



| Product Name      | Shape                                                                             |
|-------------------|-----------------------------------------------------------------------------------|
| Roofing Block 6"  |  |
| Roofing Block 8"  |                                                                                   |
| Roofing Block 10" |                                                                                   |
| Curved Wall 9"    |  |
| Round Wall 9"     |                                                                                   |

Concrete Blocks Datasheet - Roof and Special Blocks

|                | Product Code | Group Category | Dimensions               | Tolerance Category | Typical Gross Dry Density | Typical Net Dry Density | Normalised Compressive Strength | Shear Bond Strength  | Mean Compressive Strength | Resistance to Concentrated Load | Infill volume | Frog Size            | % of Frogs | Gross Area | Net Area | Typical Water absorption by Capillarity | Water Vapour Permeability | Typical Thermal Conductivity | Typical Thermal Resistance | Reaction to Fire |
|----------------|--------------|----------------|--------------------------|--------------------|---------------------------|-------------------------|---------------------------------|----------------------|---------------------------|---------------------------------|---------------|----------------------|------------|------------|----------|-----------------------------------------|---------------------------|------------------------------|----------------------------|------------------|
| Ref. Norm UoM  |              | EN1996-1       | EN 772-16 W x L x H [mm] | EN771-3 Table 1    | EN 772-13 kg/m³           | EN 772-13 kg/m³         | EN 772-1 N/mm²                  | EN998-2 [N/mm²]      | EN 772-1 N/mm²            | EN 15037-2 [kN]                 | mm³           | EN 772-16 L x T [mm] | [%]        | [mm²]      | [mm²]    | EN 772-11 [g/(m².s)]                    | EN 1745                   | EN 1745 [W/mK]               | [m².K/W]                   | EN 13501-1       |
| EN ISO 12572 / |              |                |                          |                    |                           |                         |                                 |                      |                           |                                 |               |                      |            |            |          |                                         |                           |                              |                            |                  |
| EN 15037-2     | ABG311006    | Class R1-SR    | 467 x 255 x 152          | T1                 | 1110                      | 1820                    | 3.0                             | 0.812 <sup>A,B</sup> | 0.2487 <sup>A,B</sup>     | 39                              | REI30         |                      |            |            |          | Euro Class A1                           | XC2                       | 2.0                          | 64804                      | 39598            |
| EN 15037-2     | ABG311008    | Class R1-SR    | 469 x 255 x 200          | T1                 | 1000                      | 1860                    | 3.0                             | 0.935 <sup>A,B</sup> | 0.2674 <sup>A,B</sup>     | 46                              | REI30         |                      |            |            |          | Euro Class A1                           | XC2                       | 2.0                          | 85636                      | 46088            |
| EN 15037-2     | ABG311010    | Class R1-SR    | 450 x 255 x 250          | T1                 | 900                       | 1870                    | 3.0                             | 1.034 <sup>A,B</sup> | 0.2901 <sup>A,B</sup>     | 51                              | REI30         |                      |            |            |          | Euro Class A1                           | XC2                       | 2.0                          | 94800                      | 46092            |
|                |              |                |                          |                    |                           |                         |                                 |                      |                           |                                 |               |                      |            |            |          |                                         |                           |                              |                            |                  |
| EN 773-1       | ABG34170303  | Hollow - Grp 2 | 220 x 439 x 255          | D1                 | 1100-1200                 | 1700-1800               | 4.8                             | 0.15                 | 4.0                       | n/a                             | 7261          | IrregularShape       | 33.1       | 86046      | 57571    | NDP                                     | 5/15µ                     | 0.846 <sup>D,F</sup>         | 0.26 <sup>D,F</sup>        | Euro Class A1    |
| EN 773-1       | ABG311409R   | Hollow - Grp 2 | 220 x 300 x 255          | D1                 | 1100-1200                 | 1750-1850               | 7.2                             | 0.15                 | 6.0                       | n/a                             | 6159          | IrregularShape       | 36.4       | 66298      | 42144    | NDP                                     | 5/15µ                     | 0.67 <sup>D</sup>            | 0.3283 <sup>D</sup>        | Euro Class A1    |

The information contained in this document is subject to change with or without notice. Please contact our sales department for updates.

Notes:

- A. The thermal performance is based of a T-beam/roofing block system topped with 50mm concrete having a density of 2200kg/m³
- B. The thermal conductivity/resistance value excludes the internal/external surface resistance.
- C. The thermal conductivity/resistance is calculated based on the condition that the frogs are infilled with concrete having a density of 2200kg/m³
- D. A net dry density of 1800kg/m³ was used for the respective masonry block.
- E. Thermal characteristic has been computed as part of a system consisting of a 9" curved block and an orthogonally adjoined half 9" double density block.

All dimensional tolerances according to CAT. D1 (EN 771-3)

All the blocks except for the lightweight and structural lightweight blocks are also available with 100% recycled aggregates.



Find more information on:

