# Lignacite ECO Medium Dense - Technical Data Comparison Table

Lignacite ECO Medium Dense concrete blocks are manufactured using responsibly sourced aggregates, delivering significantly lower embodied carbon ($CO_2e$) than standard Lignacite blocks, without compromising on technical performance. All Lignacite blocks are manufactured in accordance with EN 771-3:2011+A1:2015. Our Environmental Product Declarations (EPDs) are independently verified and prepared in accordance with EN 15804+A2, ISO 14025 and ISO 21930, providing transparent and reliable environmental information. All our EPDs are freely available from the Lignacite website or EPD Hub.

| |  Lignacite ECO Medium Dense 7.3N 100mm |  Lignacite ECO Medium Dense 7.3N 140mm |  Lignacite Standard Medium Dense 7.3N 100mm |  Lignacite Standard Medium Dense 7.3N 140mm |
|---|---|---|---|---|
| Block Type | **Medium Dense PG** | **Medium Dense PG** | **Medium Dense PG & FF** | **Medium Dense PG & FF** |
| Thickness | **100mm** | **140mm** | **100mm** | **140mm** |
| Form | **Solid** | **Solid** | **Solid** | **Solid** |
| Dry Density (kg/m³) | **1570** | **1450** | **1570** | **1450** |
| Approx Weight (kg) | **14.9** | **19.2** | **14.9** | **19.2** |
| Compressive Strength (N/mm²) | **7.3** | **7.3** | **7.3** | **7.3** |
| Thermal Conductivity λ (W/mK)* | **0.88** | **0.88** | **0.90** | **0.79** |
| Reaction to Fire | **Class A1** | **Class A1** | **Class A1** | **Class A1** |
| Moisture Movement (mm/m) | **‹0.7** | **‹0.9** | **‹0.7** | **‹0.7** |
| Water Absorption (g/m².s) | **‹11.0** | **‹11.0** | **‹11.0** | **‹11.0** |
| Weighted Sound Insulation Rw, (dB) | | | | |
| Bare Block | **44** | **52** | **44** | **47** |
| Painted Block | **45** | **53** | **45** | **48** |
| Air Tightness (m³/hr/m²) | | | | |
| Bare Block | **4.90** | **3.30** | **5.50** | **5.50** |
| Painted Block | **‹0.10** | **‹0.10** | **0.60** | **0.56** |
| % of Recycled Content** | **92%** | **92%** | **50%** | **50%** |
| GWP-total ($kgCO_2e/m^2$) | A1-A3 **5.6** | A1-A3 **5.2** | A1-A3 **6.5** | A1-A3 **17.3** |
| GWP-fossil ($kgCO_2e/m^2$) | A1-A3 **16.4** | A1-A3 **20.4** | A1-A3 **17.3** | A1-A3 **33.5** |
| % Reduction in GWP-total vs. Lignacite Standard Block | **-14%** | **-70%** | **n/a** | **n/a** |

Data accurate as of November 2026

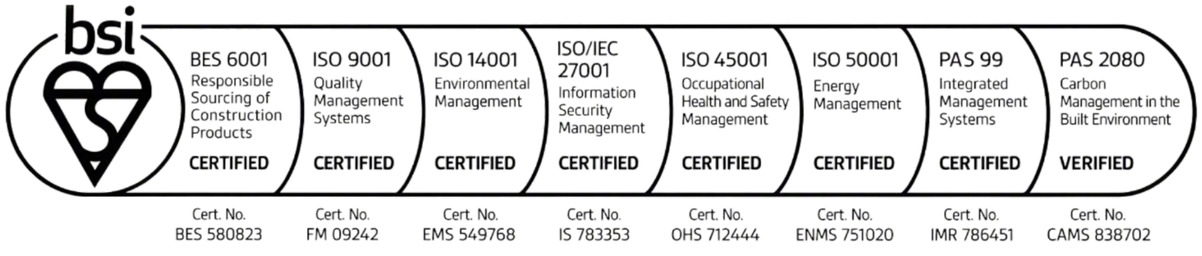
*The declared thermal conductivity relates to the dry-state condition. Where thermal performance is assessed at other moisture conditions, an appropriate moisture conversion should be applied in accordance with the relevant design standard.

**Recycled content based on EPD-published weight per m².

**Sustainable Block Deliveries**

Lignacite ECO Medium Dense blocks are delivered using HVO-fuelled transport vehicles, reducing carbon emissions under A4 by at least 90%.




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LIGNACITE ECO RANGE

FORS FLEET OPERATOR RECOGNITION SCHEME GOLD ID:000997