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)*	**0.90**	**0.79**	**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	**43**	**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**

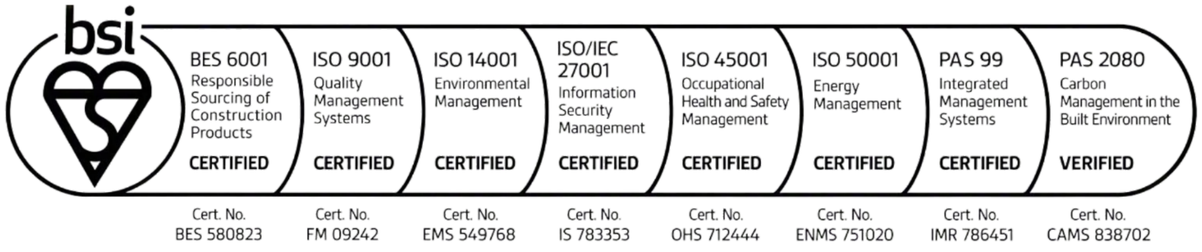
Data accurate as of November 2026

*Based on 3% moisture content.
**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