

STRANLITE SYNERG·ECO

Combines recycling, strength and sustainability

EPD
 (A1 - A3) (A1 - C4)
 RATING OF RATING OF
 5.9kgCO₂e 10.5kgCO₂e
FOR 100MM BLOCKS

Stranlite® Synerg.Eco is a general purpose building block with applications in house building and commercial construction.

Manufactured from **100% recycled or reclaimed aggregates**, Stranlite® Synerg.Eco satisfies sustainability and environmental credentials where specified, whilst complying with thermal and acoustic Building Regulations.

Stranlite® Synerg.Eco is available in 100mm and 140mm solid blocks in standard or paintgrade finish. They are plain ended, grey in colour and are robust and durable and provide excellent fixability.



Applications

- External walls - outer & inner leaf
- Internal loadbearing walls
- Internal partition walls
- Party/flanking walls
- Walls below DPC
- Semi-exposed walls
- Suspended floors - beam & block



Key benefits

-  Lightweight low density
-  Fire resistant
-  Load Bearing
-  Authority
-  Accepts plaster
-  High thermal efficiency
-  Low shrinkage
-  Excellent fixability
-  Easily cut and chased
-  Good sound insulation

Properties & Performance

Mean Compressive Strength

7.3 N/mm²

Thermal Value (at 3% moisture)

$k = 0.41W/m^2K$ for 7.3N/mm²

Stranlite® Synerg.Eco blocks are Part L compliant*.

Sound Insulation

Stranlite® Synerg.Eco blocks comply with Part E and Robust Details for floors and walls*.

Shear Bond Strength

0.15 N/mm²

Dry Density

1400 Kg/m³

Moisture Movement

Not greater than 0.6 mm/m*.

Fire Resistance

Stranlite® Synerg.Eco is A1 Non-combustible classification as defined in BS EN 13501-1

Fixability

Stranlite® Synerg.Eco blocks accept direct nailing and are easy and speedy to drill and plug.

Mortar Designations

Cement : Lime : Sand 1 : 1 : 6
 Cement : Sand 1 : 5 to 6

Class (ii) for walls below dpc by volume

Cement : Lime : Sand 1 : 1/2 : 6
 Cement : Sand 1 : 3 to 4

Rendering

Builders considering the use of proprietary single coat render systems must exercise caution to accurately adhere to the render manufacturers' design and specification guides. Furthermore, during application, strictly adhere to the specific and expansive application instructions, paying particular attention to prevailing weather conditions applied thereto. Please note that traditional rendering applications are not so seasonally and conditionally demanding.

* Please consult our Technical Department for further information.

Technical Specification

Work Size 440mm x 100mm x 215mm

440mm x 140mm x 215mm

Type	100mm
Stranlite® Synerg.Eco Block	
Strengths available	7.3N/mm ²
Pack sizes	9.6m ²

Type	140mm
Stranlite® Synerg.Eco Block	
Strengths available	7.3N/mm ²
Pack sizes	6.4m ²

Environmental Performance Declaration (EPD)

In accordance with EN 15804+A2 & ISO 14025/ ISO 21930. Published EPD can be found online at www.epdhub.com

100mm thickness blocks - rating per 1m² of product

A1 - A3 Cradle to Gate rating of 5.9kgCO₂e

A1 - C4 Product to End of Life stage rating of 10.5 kgCO₂e

Attributes of EPD

- Transport to site within 25km of Plasmor Bow (E3 2TB)
- Installation includes walling with 7% generic mortar
- 80% of blocks are recycled at End of Life stage within a 25km radius of the project.

Authority

Stranlite® Synerg.Eco blocks are manufactured to comply with BS EN 771-3. Production facilities accredited (under BSI) as follows:-



FM 10847 EMS 536819 BES 585086
 'Very Good' achieved