

# STRANLITE SYNERG·ECO



Combines recycling, strength and sustainability

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



## EPD

(A1 - A3) (A1 - C4)  
RATING OF RATING OF  
5.9kgCO<sub>2</sub>e 10.5kgCO<sub>2</sub>e

FOR 100MM BLOCKS

## 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/mm<sup>2</sup>

### Thermal Conductivity (at 3% moisture)

k = 0.41W/m.K for 7.3N/mm<sup>2</sup>

**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/mm<sup>2</sup>

### Dry Density

1400 Kg/m<sup>3</sup>

### 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.

## Technical Specification

Work Size 440mm x 100mm x 215mm

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

440mm x 140mm x 215mm

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

## Environmental Performance Declaration (EPD)

In accordance with EN 15804+A2 & ISO 14025/ ISO 21930. Published EPD can be found online at [www.epdhub.com](http://www.epdhub.com)

100mm thickness blocks - rating per 1m<sup>2</sup> of product

A1 - A3 Cradle to Gate rating of 5.9kgCO<sub>2</sub>e

A1 - C4 Product to End of Life stage rating of 10.5 kgCO<sub>2</sub>e

## 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:-

