

FOUNDATION BLOCKS

LIGHTWEIGHT AGGREGATE SOLID AND CELLULAR FOUNDATION BLOCKS



APPLICATIONS
BELOW DPC



STELLAR
17%
SAVING
IN EMBODIED CO2
OVER A SOLID FOUNDATION

STRANLITE FOUNDATION BLOCKS

are load-bearing blocks manufactured from high quality approved lightweight aggregates.

Stranlite Foundation Blocks provide an efficient, simple and cost effective method of foundation construction below dpc where faster building rates can be achieved with reduced labour and mortar costs compared with traditional foundation construction.

Stranlite Foundation Blocks have a single unit weight of well below 20kg and comply with The Construction (Design & Management) Regulations for single unit repetitive lifting.

STELLAR FOUNDATION 350 BLOCKS

have been specifically designed to reduce weight and still achieve the technical requirements of a 350mm load-bearing masonry wall construction.

Stellar Foundation 350 blocks are also manufactured using high quality approved lightweight aggregates.

Their unique design has a cellular element at its core that only runs through 90% of the length of the block, this means there is a hole on only one end of the block. Along the adjacent edges, the block the design includes finger grips for ease of handling.



Lightweight



Fire Resistant



Loadbearing



Authority



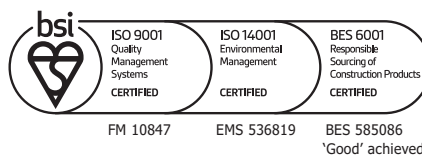
Sulphate Resistant



Low Shrinkage

AUTHORITY

Stranlite Foundation and Stella Foundation 350 blocks are manufactured in production facilities to BS EN 771-3, with third party accreditation under BSI as follows:-



STELLAR FOUNDATION 350



ACCEPTS
REVIEWED
SYSTEM

STRANLITE FOUNDATION BLOCK PACK SIZES

300mm x 275mm x 140mm
72 blocks

350mm x 250mm x 140mm
48 blocks

STELLAR FOUNDATION 350 BLOCK PACK SIZES

350mm x 250mm x 140mm
48 blocks

(Pack size may vary between divisions)

technical helpline: 01977 673221



FOUNDATION BLOCKS

LIGHTWEIGHT AGGREGATE SOLID AND CELLULAR FOUNDATION BLOCKS

SOLID

STRANLITE FOUNDATION BLOCKS

300mm x 275mm x 140mm


Number of blocks per m²

300mm	350mm wide	300mm wide	275mm wide	250mm wide
	-	23.4	21.5	-

SOLID

350mm x 250mm x 140mm

Number of blocks per m²


350mm	350mm wide	300mm wide	275mm wide	250mm wide
	25.6	-	-	21.5

CELLULAR

STELLAR FOUNDATION 350

350mm x 250mm x 140mm

Number of blocks per m²

350mm	350mm wide	300mm wide	275mm wide	250mm wide
	25.6	-	-	21.5

WEIGHT 16KG @ 3% Moisture Content



PROPERTIES & PERFORMANCE

MEAN COMPRESSIVE STRENGTH

STRANLITE FOUNDATION BLOCKS

7.3 N/mm² & 10.4 N/mm².

STELLAR FOUNDATION 350

10.4 N/mm².

DRY DENSITY

1400 Kg/m³.

MOISTURE MOVEMENT

Not greater than 0.6 mm/m.

Consult our technical department for further information.

SULPHATE SOILS

Suitable for DS-1, DS-2 and DS-3 as per BRE Special Digest.

Stellar Foundation 350 also PD 6697 Table 15.

FIRE RESISTANCE

Stranlite Foundation and Stellar Foundation 350 blocks are manufactured from Class 1 Fire Resistant Aggregate as defined in BS 5628 Part 3 and complies with BS EN 1996-1-2005.

SHEER BOND STRENGTH

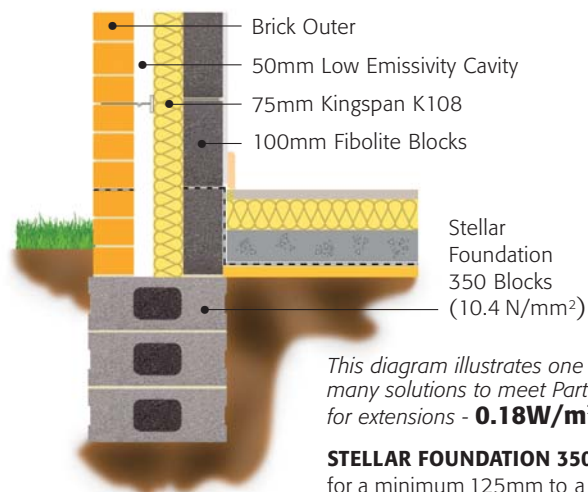
0.15 N/mm².

MORTAR DESIGNATIONS

Class (ii) for walls BELOW DPC by volume

Cement : Lime : Sand 1 : 1/2 : 4

Cement : Sand 1 : 3 to 4



This diagram illustrates one of Plasmor's many solutions to meet Part L 2021 for extensions - **0.18W/m²K**

STELLAR FOUNDATION 350 blocks are suitable for a minimum 125mm to a maximum 150mm wide cavity construction. When undertaking a cavity construction between 125mm & 140mm, the inner and outer leaf are to be equally brought in from the outer edges.

Separate laying guide for Stellar Foundation 350 available.