

# Road Widening

**Sundolitt expanded polystyrene blocks provide an ideal and cost-effective basis for road widening projects**



Sundolitt EPS blocks impose much lower load pressures on the subsoil and any underlying services, than traditional embankments, yet have exceptional strength and load-bearing capacity.

EPS blocks weigh around 1% of the weight of traditional fill materials

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## **Advantages of using Sundolitt EPS blocks:**

- Reduced pressures on subsoil
- EPS blocks weigh around 1% of the weight of traditional fill materials
- Robust, yet lightweight and easy-to-position without heavy lifting equipment
- Economical & practical alternative to piled construction
- Established long-term strength and performance
- High load-bearing capacity
- EPS blocks do not require to be compacted and do not lose any volume to compaction (as some other lightweight fill materials do)
- Easy-to-cut on site, no special equipment required
- No protective clothing or masks required
- Rot-proof and extremely durable in wet conditions
- Do not absorb or retain water
- Environmentally friendly - CFC & HCFC free
- Do not support fungal, bacteriological or animal growth
- Non-toxic and inert
- Very cost-effective

[Literature Download : Sundolitt EPS Construction Products](#)

[NPRA Report - Long Term Performance and Durability of EPS as a Lightweight Fill](#)

[Block Installation Guide](#)

Available in a wide variety of block sizes, densities and design loads.

[Specification Sheet](#)

# Sundolitt EPS Blocks - Specification Sheet

Sundolitt blocks for embankment building, landscaping and void-fill

## Technical & Dimensions

| Density*<br>kg / m <sup>3</sup> | Compressive<br>Stress* at 1%<br>Deformation<br>kPa | Design Load*<br>kg / m <sup>2</sup> | Block<br>Dimensions*<br>Length x Width<br>x Depth<br>mm | Block Volume*<br>m <sup>3</sup> | Block Weight*<br>kgs |
|---------------------------------|--|-------------------------------------|---|---------------------------------|----------------------|
| <b>15.0</b>                     | 20   | 7,000                               | 2400 x 1200 x<br>1000                                   | 2.880                           | 43.20                |
| <b>20.0</b>                     | 40   | 10,000                              | 2400 x 1200 x<br>1000                                   | 2.880                           | 57.60                |
| <b>25.0</b>                     | 70   | 15,000                              | 2400 x 1200 x<br>1000                                   | 2.880                           | 72.00                |
| <b>30.0</b>                     | 90   | 20,000                              | 2400 x 1200 x<br>1000                                   | 2.880                           | 86.40                |

\*all values are nominal

- All structural blocks are manufactured in compliance with BSEN 14933 (which came into effect on 1st January 2009)
- An EPS product manufactured in compliance with BSEN 14933, if subjected to a permanent compressive stress of 30% of its nominal Design Load, should deform by 2% or less after 50 years
- Euroclass type f supplied as standard - Euroclass type e self-extinguishing available to order
- Untrimmed blocks 2457 x 1225 x 1030mm (3.10m<sup>3</sup>) available
- Other block dimensions and densities available on request