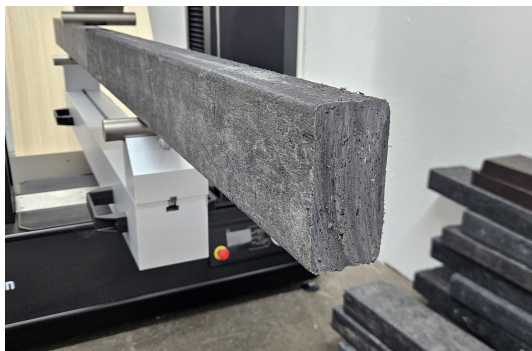


## Recycled Plastic Decking Subframe - Technical Data Sheet



<b>Product</b>	Recycled Plastic Decking Subframe
<b>Colour</b>	Black
<b>Dimensions</b>	47 x 97 x 3100 mm
<b>Material</b>	100% Recycled Mixed Thermoplastics
<b>Manufacturer</b>	LL Plastic Ltd

### Product Description

LL Plastic recycled plastic decking subframes are manufactured from high-quality mixed recycled thermoplastics, providing a durable, moisture-resistant, and long-lasting alternative to traditional timber substructures. Designed for low maintenance and long service life, they are suitable for residential, commercial, agricultural, and landscaping applications.

### Composition

Contains recycled thermoplastics including Polyethylene (PE), Polypropylene (PP), PET, HDPE, and HIPS. UV stabiliser included. No colouring agents added. Mixing ratios are controlled to ensure consistent quality.

### Intended Use

Decking substructures and joists, landscaping frameworks, walkways, and outdoor structures.

Note: Not intended for use as a primary structural beam unless specifically engineered and approved.

### Key Benefits

Does not absorb moisture • Will not rot, rust, or crack • Resistant to insects and fungi • No chemical leaching into soil or groundwater • Long lifespan with minimal maintenance • 100% recyclable

Property	Value	Test Standard
Density (average)	0.987 ± 0.010 g/cm <sup>3</sup>	MSZ EN ISO 1183-1:2019
Moisture absorption	< 0.2 wt%	ISO 175
Melting temperature	≈ 230 °C	Internal reference

## Thermal Expansion

Length at 20 °C: 3100 mm

Length at -1 °C: 3095 mm

Coefficient of linear expansion: ≈ 0.08 mm per metre per °C ( $7.9 \times 10^{-5}$  / °C). Allow adequate expansion gaps during installation.

## Mechanical Performance - Flexural Test (500 mm span)

Parameter	Result
Break force	17,316.3 N
Displacement at break	9.31 mm
Young's modulus	1,496.1 N/mm <sup>2</sup>

## Screw Pull-Out Resistance

Screw size: 4 x 50 mm • Test speed: 10 mm/min • Pre-drilling: No • Average pull-out force: 2595 N ± 6%

## Fire Performance

Fire performance testing available on request. Classification to EN 13501-1 may vary depending on installation.

## Disclaimer

The information provided is for guidance only and does not constitute a guarantee of performance. LL Plastic Ltd reserves the right to amend specifications without prior notice.