



Recycled products range

Decking Boards



Can be used in various applications including play areas, walkways, boardwalks, garden decking and access ramps

Product Benefits

These decking boards can be cut, screwed, nailed and bolted just like timber but have the following benefits over timber:

Stronger and more durable

Maintenance free

Uniform dimensions

Consistent quality - no knots, splits or shakes

Less flammable

UV and insect resistant

Impervious to water

Resistant to algae

Will not crack, chip, split or break

Innovative recycling technology

The TDP Recycled Products Range is produced entirely from mixed waste plastics that would have been destined for landfill

100% recycled

100% recyclable

Each tonne used saves 1.66 tonnes of CO₂



Specification

Description	Made using 100% high quality recycled mixed waste plastic from post industrial and consumer use and where necessary selected process additives.	
Composition	Decking boards are composed of a proportion of LDPE (Low Density Polyethylene), HDPE (High Density Polyethylene), PP (Polypropylene), ABS (Acrylonitrile Butadiene Styrene Co-polymer), HIPS (High Impact Polystyrene) and other thermoplastic materials.	
Production process	The polymers are ground, mixed and fused under high temperatures and pressures into pressed moulds.	
Finish	The surface is knot free, evenly coloured and shows a textured structure.	
Properties	<ul style="list-style-type: none"> Maintenance free Durable Can be worked as wood Splinter free Frost proof Insensitive to fungi and insects Does not leach toxic substances 	<ul style="list-style-type: none"> Wear resistant Non-rotting Environmentally friendly 100% recycled and recyclable Insulating Acoustic sound proofing Shock proof and flexible

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Span length

Code	Size (mm)	Max. Centre to Centre (mm)	Max. free span length (mm)	Max. overhang (mm)
ZM003	150 x 27	600	550	125
ZM004	150 x 38	600	550	125

These free spans of lengths of support have been calculated according to the following load conditions:

1. A distributed load of 2.5kN/m²
2. A point load of 1000N applied to the middle of the profile
3. A long term load applied by the mass of the decking profile

The maximum required deflection is determined at 1/250 of the free span length for calculating the maximum centre to centre distance and for the maximum free span length and at 1/600 for the maximum overhang length. We always consider and take into account a dynamic safety factor of 2.5 for permissible stresses in short term conditions. For longer term loading we must take into consideration creep of the material. For different loading conditions, we can calculate the maximum permissible free span from first principles.

Construction

Decking can be constructed using countersunk chipboard screws with a 6mm diameter (80mm length). All holes will need to be pre-drilled. We recommend the use of an oversized hole to allow for movement associated with the thermal coefficient of expansion properties of the material.

Limitations

The recycled material is less rigid (modulus of elasticity) and greater thermal elongation than timber therefore this should be taken into consideration within the design stage of the project.



Available in Mid-brown



4765



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