

# Recycled Plastic Bike Paths

## 5 reasons why you should choose British Recycled Plastic

**Extremely durable, strong and vandal proof, eliminating maintenance for lower whole life costs**

**Ultra low carbon footprint as made from recycled and recyclable waste**

**No need for paint or other harmful preservatives**

**Does not splinter, rot, crack or fade and is totally impervious to water, algae and insects**

**Can be worked just like wood**

## Recycled Plastic Bike Path

Boardwalks, bridges and bike trails made from recycled plastic lumber are the perfect maintenance-free solution to damaged and boggy pathways used by cyclists.

## The Materials

**Recycled Plastic Lumber** (or **Plastic Wood Composite** as it also known) is the basic building block from which much of the **British Recycled Plastic** range of environmentally friendly maintenance free furniture and sustainable construction products are made.

The British Recycled Plastic range of recycled plastic lumber is rot proof, impact resistant, and algae and moss resistant. As the profiles have a skin that paint cannot penetrate, graffiti can simply be wiped clean.



Construction using recycled plastic is a simple affair as it can be cut, bolted, drilled and screwed by semi-skilled workers in much the same way as timber, although we are always available for technical support should it prove useful.

[www.britishrecycledplastic.co.uk](http://www.britishrecycledplastic.co.uk)

Registered office: Unit 8C, Topland Country Business Park, Cragg Road, Mytholmroyd, HX7 5RW

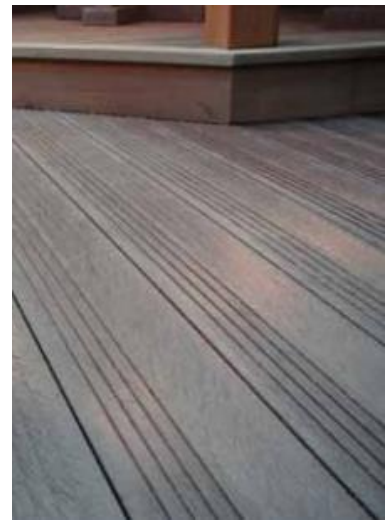
British Recycled Plastic is a trading name of Low Carbon Products Ltd  
Company number 6903105 VAT 976 4519 73

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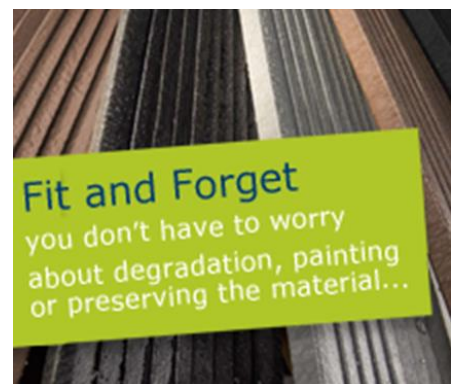
Our Recycled Plastic Decking is a **tough, durable, maintenance free alternative to timber**, offering a life span many times that of wood without the need for treatment. This means whole life costs are significantly reduced as maintenance and replacement costs are removed. Therefore as well as being environmentally friendly (made from 100% recycled post-industrial plastic, diverted from landfill) recycled plastic lumber offers significant commercial and technical benefits over traditional solutions.



As our plastics last for many decades, compared to 5-10 years for treated softwoods, the whole life costs are considerably more economic than the alternatives.

Designed to replace traditional construction materials, recycled plastic profiles are impervious to water and allow for the easy and quick construction boardwalks, steps and pontoons, to name but a few applications, and is the ideal material for areas subject to flooding or standing water.

Coupled with the major positive environmental benefits, recycled plastic lumber can be used for any application traditionally solved using timber, concrete or metals, providing an economical and environmentally sustainable alternative to these materials, lowering the carbon footprint of construction projects compared to traditional solutions.



**Fit and Forget**  
you don't have to worry  
about degradation, painting  
or preserving the material...

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## Key points to note about Recycled Plastic Decking

- Reduction of energy consumption by 66%
- Production of only a third of the sulphur dioxide
- Production of only half of the nitrous oxide
- Reduction of water usage by nearly 90%
- Reduction of carbon dioxide generation by two-and-a-half times
- 1.8 tonnes of oil are saved for every tonne of recycled polythene produced
- Lasts 5 times longer than timber
- Rot and algae proof
- Crack, chip and splinter proof
- Insect and animal resistant
- Labour saving – minimal maintenance
- Non slip
- UV resistant
- Vandal Resistant
- Less Flammable than timber
- Easy to clean
- Can be worked like timber
- Holds screws and fittings well
- Reduced Whole Life Costs
- Diverting Material from Landfill
- Reduces the carbon footprint of any project



## Features and Benefits

- **Non rotting** - Does not rot or degrade with age or require any painting or chemical treatment prior to use.
- **Tough, durable and strong** - Will not crack or dry out and is resistant to attack by insects.
- **Shaped** - Can be formed into many shapes and machined using standard tools.
- **Vandal-resistant** - Is more resistant to graffiti due to its surface.
- **Versatile** - Can easily be designed for use in conjunction with other materials.
- **Eco-friendly** - Is produced using 100% recycled polythene diverting valuable waste from landfill.
- **Good alternative** - Is as realistic alternative to hardwood.
- **Long lasting** - Has a life span at least four times timber alternatives.
- **Fully recyclable** - Can be fully recycled at the end of its use.
- **Completely Inert** - Will not leach any chemicals



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## Expansion Intervals – Important for Installation

The lower the temperature during installation, the greater the boards may expand. The decking boards have a maximum linear expansion of 0.109mm per m per °c.

It is vital to calculate the maximum expansion of the boards in order to calculate the correct distance between boards/wall/borders.

### For Example

- Installation of 3.6m board at a temperature of 15°C.
- Max. temperature expected 40°C
- Temperature at installation 15°C
- Temperature difference 25°C
- Interval = 0.109mm per m per 10°C  
= 0.109mm x 3.6 x 25  
= 9.81mm



### Working with Recycled Plastic Decking

Our Recycled Plastic Decking can, in principle, be worked in the same manner as wood with the same woodworking tools. For sawing and drilling we recommend working the recycled plastic steadily and slowly. The general rule is to choose a cutting speed which prevents the material melting on the surface of the tool. At low temperatures, the recycled plastic will be slightly stiffer. However, due to the combination of materials used in the construction, the recycled plastic exhibits good physical properties to at least 20 degrees below zero. In warm weather conditions the material tends to become slightly tougher and more flexible.

- **Drilling** Use metal or wood bits (HSS or HM type). Spiral or speed bits are both acceptable – do not use a high drilling speed. See table below.
- **Sawing** RPLs can be sawn with a handsaw, circular saw or a chop saw. See table below.
- **Rolling, Milling and Planing** All of these techniques can be used with our profiles. Care is required and experimentation on scrap material is advised.

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