

# KC/Deck

Recycled plastic decking solutions



Recycled plastic products.

[kaceyplastics.co.uk](http://kaceyplastics.co.uk)



Where public access to wildlife and rural areas is a requirement Kacey recycled plastic is the ultimate solution. Wooden boardwalks and dipping platforms will become slippery when wet and will start to rot just a few years after installation. Using KC-Deck and substructure ensures that your project will require no attention for many years - probably 40 or more! You will not need chicken wire or special inserts to make it low-slip, just install it and forget!

It should be noted that not all recycled plastics are alike. All KC/Deck products are made from either Hanit® or Hanit Ultra® material, which are specially blended recycled plastic produced to the very highest standard in Germany and the UK. The material has a grained finish and is naturally low-slip.

Using KC-Deck for your boardwalk or decking project has many benefits including:

- Durable
- Maintenance free
- Will not leach harmful chemicals
- Will not splinter
- Impervious to water
- Resistant to algae

Guidance on the design and installation is part of our service and we will be happy to work with you to help you get the right substructure and surface for your particular requirements.

Kacey have over a decade experience in the supply of recycled plastic material for the construction of boardwalks, jetties, fishing platforms and many other applications for decking. We have worked with numerous leading specification consultants and contractors to ensure that the end customer gets a product that meets and exceeds their requirements and expectations.

Very few projects have exactly the same set of requirements and we can work with you to ensure that the correct profiles, spans and materials are specified. Call us on the number below and we will be happy to discuss your needs.



Exhibition Park - Newcastle City Council



Malham Tarn - National Trust



Sandscale Haws - National Trust

KC/Deck is manufactured from 100% recycled plastic and is the environmental and sustainable choice for boardwalks, jetties, pontoons and other decked areas. Available with a host of other matching profiles for framework and substructures, KC/Deck is aesthetically pleasing, durable and maintenance free.

Size (mm)	Colours available
27 x 150 x 3600	Black, brown
28 x 195 x 1000	Black, brown
28 x 195 x 1500	Black, brown
28 x 195 x 2000	Black, brown
28 x 195 x 2500	Black, brown
28 x 195 x 3000	Black, brown
38 x 150 x 3600	Black, brown
40 x 197 x 1000	Grey, brown
40 x 197 x 1500	Grey, brown
40 x 197 x 2000	Grey, brown
40 x 197 x 2500	Grey, brown
40 x 197 x 3000	Grey, brown
48 x 165 x 1000	Grey, brown
48 x 165 x 1500	Grey, brown
48 x 165 x 2000	Grey, brown
48 x 165 x 2500	Grey, brown
48 x 165 x 3000	Grey, brown
60 x 197 x 1000	Grey, brown
60 x 197 x 1500	Grey, brown
60 x 197 x 2000	Grey, brown
60 x 197 x 2500	Grey, brown
60 x 197 x 3000	Grey, brown



Flanders Moss - Scottish Natural Heritage



Broadwood Loch - North Lanarkshire Council



Cragside House - National Trust

Many organisations throughout the UK have benefited from using Kacey recycled plastic materials in their boardwalk and decking projects including the National Trust, RSPB, Scottish Natural Heritage, Lake District National Park Authority, numerous wildlife trusts, local authorities and private landowners.

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## Technical Specification

- Description:** KC-Deck is made up of 100% high quality recycled plastic residue from post industrial and commercial usages and where necessary selected process additives.
- Composition:** KC-Deck is 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 different polymers are ground, mixed and fused under high temperatures and pressures and pressed into moulds.
- Finish:** The surface is knot free, evenly coloured and shows a textured

Name	Size (mm)	Maximum centre to centre distance (mm)	Maximum free span length (mm)	Maximum overhang (mm)
KC-Deck 60	197 x 60	950	900	240
KC-Deck 48	165 x 48	850	800	225
KC-Deck 40	197 x 40	750	700	215
KC-Deck 38	150 x 38	750	700	215
KC-Deck 28	195 x 28	600	550	150
KC-Deck 27	150 x 27	600	550	150

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

1. A distributed load of 2.5kN/m<sup>2</sup>
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, KC-Deck can calculate the maximum permissible free span from first principles.

Kacey can also supply fencing, outside furniture, planters, general recycled plastic profiles, ground reinforcement products and much more, all in recycled plastic.

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