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# Transformations with Recycled Plastic



## **Recycled Plastic Fencing:**

The long-life maintenance free fencing

- Durable & vandal proof
- No maintenance
- Attractive & versatile appearance
- Easy installation
- High performance recycled plastic

## Recycled Plastic: Transforming waste into high performance products

Each year the UK generates over 80 million tonnes of waste from households, commerce and industry. Kedel Ltd. use this traditionally difficult to process post industrial and post consumer waste from a diverse range of organisations in the public and private sectors, and blend these waste polymers into a new recycled plastic material using its unique plastic processing technology.

Each recycled plastic blend is cleverly engineered and has passed stringent

testing both in-house and with independent third parties, to ensure the highest levels of consistency and reliability. Kedel's recycled plastic therefore offers significant performance advantages over traditional materials such as wood, steel, concrete and other plastic materials currently in the market.



**100%  
Recycled &  
100%  
Recyclable**

Products made from recycled plastic are valued not only because of their environmental credentials but also for their superior quality and performance.

## Recycled Plastic Fencing: Transforming Communities

Kedel's recycled plastic fencing is aesthetically appealing and maintenance free. The material does not need treating or painting. It is solid, strong, impact and chemical resistant, which makes it virtually vandal proof.

Kedel fencing makes architecturally pleasing boundaries with the add-on benefits of long life and no painting or staining. It's becoming an increasingly favoured option to transform local communities with organisations such as local authorities and housing associations.



Before installation of recycled plastic fencing and after.



## Social Enterprise – Transforming Lives

Recycled plastic fencing plays a part in a number of social enterprises across the UK, helping people transform their lives.

Kedel's recycled plastic fencing projects provide a great opportunity for people such as the young from disadvantaged neighbourhoods, and the long term unemployed to gain skills, experience and confidence they need to get their lives back on track. In addition, the projects often bring to the local communities a sense of pride and closeness, that comes with the improved appearance of the neighbourhoods, and from people getting to know each other better whilst working on the projects. This helps to solve problems such as vandalism and anti-social behaviour.

Time and time again, recycled plastic fencing brings positive changes to local communities and individuals.



## Comparison of Fencing Types

The unique blend of Kedel's recycled plastic offers a perfect balance of properties for fencing applications, transforming the compromised performance of some common fencing materials to a long-life, worry free solution.

### Kedel recycled plastic fencing benefits over wood:

- ✓ Longer life - lasting up to 50 years
- ✓ No surface treatment or staining required
- ✓ Vandal proof - graffiti easily cleaned off
- ✓ Chip, crack and splinter proof
- ✓ Water and frost proof, mould resistant
- ✓ Reduced whole life costs

Fencing material	Kedel recycled mixed plastic	Wood - oak	Wood - pine
Lifetime - years	30-50	5-15	
Flexural Strength MPa*	30	30	18
Material density g/cm <sup>3</sup>	0.94	0.64	0.37
Recycled material	Yes	No	No
Regular painting/staining/treatment	No	Yes	Yes
Cleaning	Can be easily cleaned. Water and chemical resistant.	Absorbs chemicals & moisture	
End of life recyclability	Recyclable	Rot/ Landfill	
Colours	Brown, Black	Various (Stains colours)	

### Kedel's recycled plastic fencing benefits over other plastic materials

This recycled plastic is a mixed polymer composite, combining the stiffness of polystyrene with the impact resistance of polyethylene. Put together with the fact that it is 100% recycled and 100% recyclable this makes it the perfect fencing material for social housing projects.

- ✓ Solid dense material
- ✓ Strong & Stiff
- ✓ Weather Resistant
- ✓ High impact resistance, can't be kicked through
- ✓ Non toxic, chemical resistant
- ✓ Maintains the appearance of treated timber

Fencing material	Kedel's recycled mixed plastic	Polyethylene	Wood Plastic Composite (WPC)	PVC/ Vinyl
Lifetime - years	30-50	30-50	10-25	30
Form	Solid	Solid/Hollow	Solid/Hollow	Hollow/Foamed
Flexural Strength MPa*	30	10	34	39
Workable like wood	Yes	Yes	Some forms	No. Preformed
Impact resistance	Good	Good	Tends to be brittle	Hollow section makes it weak.
Toxicity	No	No	No	Yes
Cleaning	Good	Good	Depends on matrix. 3% absorption	Limited resistance

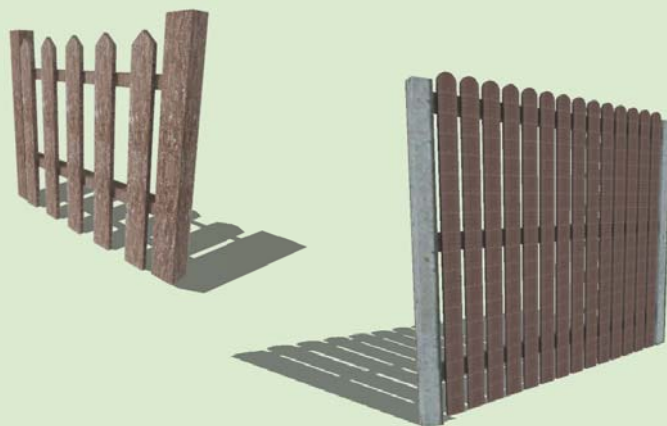
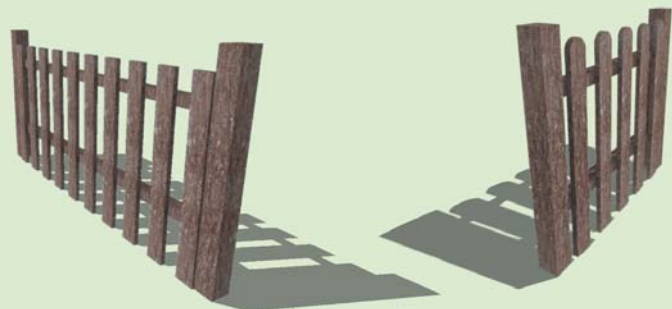
\*MPa (or Megapascal) is the unit of flexural strength, which is the maximum stress sustained during a bending test.



## Mixed Plastic Fencing Components

### Palisade Fencing Pales

Size (mm)	Colour		Pale Top Style		
	Black	Brown	Square	Round	Pointed
75 x 25 x 900	•	•	•		
75 x 25 x 1000	•	•	•		
75 x 25 x 1200	•	•	•	•	
75 x 25 x 1800	•	•	•	•	
75 x 25 x 2700	•	•	•	•	
100 x 25 x 900	•	•	•	•	•
100 x 25 x 1000	•	•	•	•	•
100 x 25 x 1200	•	•	•	•	•
100 x 25 x 1800	•	•	•	•	•
100 x 25 x 3000	•	•	•	•	•
150 x 25 x 3000	•	•	•	•	•



### Palisade Fencing Rails

Size (mm)	Colour	
	Black	Brown
100 x 35 x 3000	•	•
100 x 35 x 3600	•	•
100 x 50 x 3000	•	•
75 x 50 x 2500	•	•

### Post & Rail Fencing

Size (mm)	Brown	Black
100 x 100 x 1800 Posts		•
100 x 35 x 3000	•	•
100 x 35 x 3600	•	•
100 x 50 x 3000	•	•



### Knee Rail Fencing

Size (mm)	Black	Brown
V Notch Posts		
140 x 100 x 1500	•	•
Square Section Rail		
100 x 100 x 3000	•	•



### Bollard Post & Rail

Size (mm)	Black
150 x 1500 cut with 2 holes	•



# Transformations with

# Kedel's Recycled plastic

## Recycled Plastic Fencing: Transforming Long Term Performance

As a high performance, cost effective and environmentally friendly solution to most fencing requirements, Recycled plastic has completely transformed the notion of fencing and is fast becoming the fencing material of choice in both domestic and commercial sectors.

- **Durable & vandal proof**

Kedel's recycled mixed plastic is a unique blend of recycled plastic that is formulated for strength, durability and stability. This fencing can typically last up to 50 years. And because the material is inert, it's resistant to chemicals such as cleaning products, oils and greases. Graffiti can be easily cleaned off.



- **No maintenance**

Kedel's recycled mixed plastic fencing does not absorb water and is weather and micro-organism resistant. It does not require painting, staining or regular treating.



- **Attractive & versatile appearance**

Kedel's recycled mixed plastic fencing comes in Brown and Black, with a natural and smooth finish. It is available in a number of widths, thicknesses and pale top styles. It offers excellent flexibility in the design of architecturally pleasing boundaries.



- **Easy installation**

Installation is fast and easy. The plastic sections can be cut to length, screwed and bolted together on site.



- **Reduced whole life costs**

Kedel's recycled mixed plastic fencing is long-life and maintenance free, which makes it a very cost effective fencing solution for both domestic and commercial applications.

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



