

RPC specification

James Tobias **RPC** (Recycled Plastic Composite) is made entirely from recycled waste plastic including cosmetic bottles, yoghurt pots, straws, children's toys, single use plastic cups and bottle tops.

Why RPC?

It is estimated that each year up to 420,000 tonnes of waste wood is produced by households and deposited at civic amenity sites in the UK. Packaging pallets and crates produce 670,000 tonnes and construction and demolition a further 750,000 tonnes.*

RPC is a sustainable, alternative to wood: a hugely adaptable material that can be applied to James Tobias manufacturing systems and products.

RPC manufacture

The waste plastic does not need to be sorted prior to going into the manufacturing process, which is both labour and time saving. The waste is cleaned before being ground and once granulated, the waste is ready to be used. The granular plastic is placed in moulds and heated (no resins, formaldehyde or other gluing agents are added).

The heated moulds are then sealed, 'cooking' the waste plastic under extreme pressure, creating flat, rigid sheets that can be cut to size. A harder, durable outer 'skin' (made from higher grade powdered waste plastic) is moulded first and before it cools, a granulate core is added to improve strength and integrity.

RPC good to know

- All waste plastic is UK sourced
- RPC radically reduces the amount of harmful, low grade waste plastic going to landfill
- No additional chemicals are used in the manufacturing process
- Any swarf waste from the moulding stage is collected and reintroduced into the manufacturing process
- The waste plastic is only heated once during the manufacturing process
- Any RPC wastage from James Tobias production line are recycled to make more RPC

A video showing the front end of the recycling process can be watched **HERE**.

*UK Overseas Trade Statistics and UK Timber Statistics 2006