

Fibre Reinforced Plastic (FRP)

Fibre Reinforced Plastic (FRP) provides a virtually maintenance free alternative to traditional timber and/or steel construction.

With its exceptional durability, low maintenance costs, high strength-to-weight ratio, and cost effective installation requirements, composite products are an ideal replacement for traditional materials such as stainless steel and aluminium in corrosive environments. Fibre composites have also shown to be an ideal timber replacement material.

BENEFITS OF FRP:

- ✓ Impervious to decay and atmospheric corrosion – it will not rust
- ✓ Provide long-term resistance to harsh chemical and environmental conditions
- ✓ Maintains structural integrity with minimal maintenance
- ✓ Stronger, more durable than timber – and splinter free
- ✓ Does not sustain combustion, will self-extinguish when flame is removed
- ✓ Impervious to insect attack – will not rot
- ✓ Minimum design life of 25 years
- ✓ Stronger than steel and aluminium of equivalent weight and shape

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Definitive decking for access structures - particularly beach side

Fibre Reinforced Plastic (FRP) open grid decking is the definitive surface for pedestrian access structures.

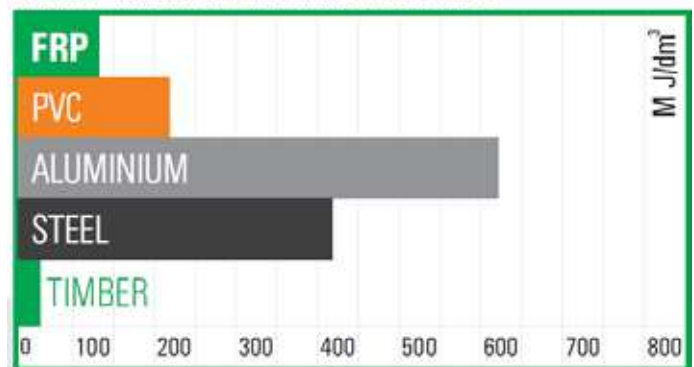
Landmark's standard FRP offering is a 19mm square open aperture, allowing self-cleaning with water, sand and other debris passing through.



FRP is also slip-resistant, anti-corrosive, and almost indestructible. A closed grid decking option is also available.



Made of extremely durable resin and glass fibres.

ENERGY CONSUMED IN MANUFACTURING



	FRP	STEEL
		
	VS.	
PROPERTY	Pultruded FRP	Carbon Steel
CORROSION RESISTANCE	Superior resistance to a range of chemicals. Unaffected by moisture or immersion in water.	Subject to oxidation and corrosion. Requires painting or galvanizing for many applications.
IMPACT RESISTANCE	Glass fibres evenly distribute impact to prevent surface damage. Will not permanently deform under impact.	Can permanently deform under impact.
STRENGTH	For the same weight of material, FRP is stronger than steel.	As strong as FRP.
STIFFNESS	1/10 the stiffness of steel	10 times stiffer in flexure than FRP
WEIGHT	FRP is 1/4 the weight of steel	4 times heavier than FRP
FINISHING AND COLOUR	Pigments added to the resin to provide colour. No painting required.	Must be painted for colour. To maintain colour and corrosion resistance, repainting will be required.
COST	Lower maintenance, longer product life equals lower life cycle costs.	Higher long term maintenance cost. High maintenance.

