



Making Light Work of Fire

'FR10 – The world's only
fireproof carbon fibre composite'



Highly automated, fast, lean footprinted technology. Globally granted patents for process and products.

28,000sq ft manufacturing facility in Dudley (central UK) with capacity of 150,000 m2 p.a.

Currently 55 live customer programs spanning multiple global industries, across section, see below few examples:

- **Shipping, Marine and Naval** - Lightweight fire doors, Cladding, Bulkhead, Engine rooms, Decks, Dampers.
- **Oil & Gas** - Fire barrier, Cladding, Fire doors.

[VIEW PRODUCT VIDEO HERE](#)
"Seeing is beleiving"





The IMO test was performed at Rise in Sweden, see below results:

IMO FTP Code Part 10	Requirements	FR10 Performance
Heat release rate (HRR)	Below 100KW	51-58 kW
Maximum HRR	Below 500 kW	176 KW
Smoke production rate	Below 1.4 m2/s	0.3m2/s
Maximum smoke production	Below 8.3 m2/s	0,8 m2/s
Flame spread	Pass	Pass
Flaming drops or debris	Pass	Pass

FR10 was also assessed for smoke and toxicity at BRE Global, UK. FR10 is suitable for deck and bulkhead applications and emits limited amounts of smoke and toxic fumes, complying with the stringiest of standards.

See test on link below

<https://youtu.be/lzXBuviXeOc>



Protection against 1500°C for 7 hours+.

Weighs just 2.55kg per m² (2mm thick).

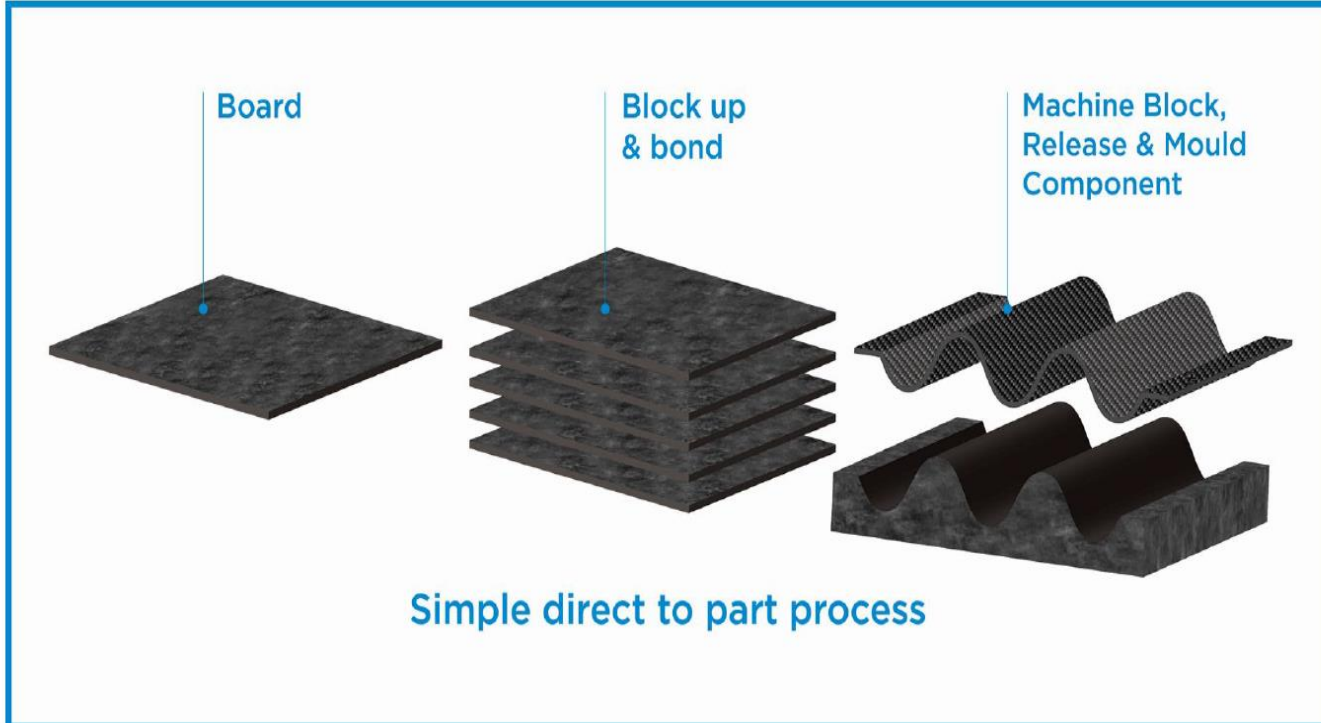
Products capabilities:

- A to B surface fire/heat – insulation or containment, or, 360° peripheral heat with no delamination
- Virtually zero smoke/toxicity
- Available in m² flat sheet or net shape component formats with conventional metallic tooling
- Thicknesses from 1.5mm to 20mm depending upon temperature and structural requirements, or integrated into sandwich structures
- Supplied in either standard industrial or high quality class A/B surface finishes which are weather/chemical/corrosion proof
- Can be easily joined, bonded, mechanically fastened into existing structures or to create larger surface areas
- Cost effective vs. high grade metals, PEEK, ceramics
- 7 day lead times

Tooling product.



Fast Cost-Effective Carbon Fibre Tooling Solution



Direct-to-part, tooling and jig materials with a CTE of just 5.4. Cost effective compared with conventional material.

Benefits over Carbon Epoxy Tooling Prepreg:

- Direct to part moulding
- No Master Model Required
- No autoclave cure or post cure required
- Greatly reduced overall process time
- Frozen storage of product NOT required



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