

Composite Ballast Boards



Lightweight

1 CCS ballast board: 12.5kg v 1 concrete ballast board: 60kg
Lighter boards ensure easier handling, reducing on-site injuries as well as installation times

Eco-friendly

Number of boards supplied in an 18-tonnes delivery:
CCS ballast boards: 1440 v concrete ballast boards: 300
(almost 5x more fuel used to deliver concrete)

Amount of carbon dioxide emissions released into the atmosphere to produce 1 ballast board:
CCS ballast board: 3.9kg CO₂ v concrete ballast board: 19kg CO₂

Structurally sound

- CCS ballast boards are manufactured with an interlocking tongue & groove design
- The boards enjoy composite action, meaning stacked boards act as a single wall, not individual sections of a wall
- CCS boards are produced by pultrusion from specially selected unsaturated polyester resins, reinforced with dedicated glass-fibre reinforcement packs. The polyesters are UV inhibited to protect from sunlight, and have inherent water and corrosion resistance, proven over decades of use in marine and corrosive environments. The glass-fibre reinforcement provides the structural strength of the profiles, which is pre-determined by the geometry of the reinforcement pack used within the profiles during manufacture



- Composite ballast boards from CCS have a minimum **life expectancy of 50 years**
- On the outer surface, the glass-fibre reinforcement pack is protected by a polyester veil for UV protection. CCS boards are particularly suited to a temperature range of -40°C to +80°C, and in fact gain strength the colder they become
- Composites are inherently robust and excellent at resisting impact
- CCS boards can easily be cut to length on-site, while reducing the length of concrete boards exposes metal reinforcement that will rust, and ultimately result in failure
- Design data is available to confirm performance



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