



MARINE SYSTEMS

RAC and RAC^{PLUS} RAPID ACCESS SYSTEMS

THE LIGHTEST PANELISED STRUCTURAL FIRE PROTECTION SYSTEMS IN THE WORLD

Ideal for structural fire protection of vehicle decks, engine rooms, hangars, storage rooms, duty free shop areas and any other "A" class space

- ▶ Efficient Area Coverage: panel system with 2400 mm x 1200 mm panels
- ▶ Lightweight: 5.2 kg/m²
- ▶ Rapid Access: panels can be removed in 5 minutes
- ▶ Fast Installation: 1.5 hr/m²
- ▶ Washable, non-absorbent facing: clean white finish
- ▶ Low Maintenance Costs: allows for non-destructive access to services
- ▶ Robust and Versatile: strong and impact resistant system
- ▶ Corrosion Resistant: 316 grade stainless steel and non-metallic composite panel
- ▶ Retrofit: upgrade older insulation systems
- ▶ IMO compliant: MED, USCG, Transport Canada approvals
- ▶ Worldwide supply: Australian made, delivered, installed and serviced worldwide



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NEW PRODUCT

- ▶ **A-60**
- ▶ **Hard surface**
- ▶ **Non-intumescent**
- ▶ **Hydrophobic**
- ▶ **Reversible**
Panels can be double sided*

RAC^{PLUS}

RAPID ACCESS COMPOSITE^{PLUS}

The System: RAC^{PLUS} is an A-60 Class Fire Division for installation in decks and bulkheads. Unlike conventional insulation, RAC^{PLUS} is a panelised system that provides exceptional aesthetic appeal while maintaining protection of the vessel's structural integrity in the unlikely event of a fire.

Main advantages of the system:

- **Lightweight:** the installed system weighs 5.2kg per m² which represents up to 70% weight reduction when compared with conventional metal clad fire protection. As a result, the owner/operator will benefit from improved fuel economy, reduced CO₂ emissions and extra payload equating to significant operating cost savings and improved earning capacity;
- **Rapid Access:** the system allows for rapid access to the vessel's services and structure, which are inaccessible when covered by conventional fire protection;
- **Area coverage:** standard panel size is 2400 x 1200mm providing efficient area coverage;
- **Faster installation:** the system's grid support structure decreases the initial installation time compared with labour intensive pinning methods and the system is typically installed at a rate of 1.5 man-hours per m²;
- **Lower maintenance costs:** ease of handling and removal/replacement of panels considerably reduces maintenance costs over the life of the vessel. Removal of panels in service is a simple process and can be achieved in less than 5 minutes;
- **Robust:** The RAC^{PLUS} system consists of embossed white fully composite panels and 316 stainless steel supporting structure. The panels have a hydrophobic non-intumescent insulation core, and hard surface layers resistant to handling marks and indentations, faced with a washable white veneer, making this our most durable panel yet.
- **Versatile:** the support structure can be installed with reduced interference to other trades. Fast and final close up of panels later in the vessel build program offers significant advantages to the shipbuilder;
- **Resistance to corrosion:** panel is fully composite, non-metallic and non-corrosive. The support structure and cover strips are manufactured from marine grade stainless steel;
- **Panel surface finish:** fully washable non-water-absorbent facing in white achieving a premium appearance of the fire protected areas;
- **Certification:** the RAC^{PLUS} system meets IMO regulations and has MED, Transport Canada and USCG approvals as A-60 Class Fire Division;

*Optional extra.



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RAC System

RAPID ACCESS COMPOSITE

The System: RAC is a 60 minute fire resisting division for installation in deckhead and bulkhead. Unlike conventional insulation, RAC is a panel mounted system that provides aesthetic appeal on completion while maintaining protection of the vessel's structural integrity in the event of a fire.

Main advantages of the system:

- **Lightweight:** the installed system weighs less than 5.2 kg per m² which represents up to 70% weight reduction when compared with other heavy conventional metal clad insulation. As a result, the owner/operator will benefit from improved fuel economy, reduced CO₂ emissions and extra payload equating to significant savings and improved earning capacity;
- **Rapid Access:** the system allows rapid access to the vessel's services and structure, which are generally covered by conventional insulation;
- **Area coverage:** the standard panel size is 2400 x 1200mm providing efficient area coverage;
- **Faster installation:** the system's grid support structure decreases the initial installation time compared with labour intensive pinning methods and the system is typically installed at a rate of 1.5 man-hours per m²;
- **Lower maintenance costs:** ease of handling and removal/replacement of panels considerably reduces maintenance costs over the life of the vessel. Removal of panels in service is a simple process and can be achieved in less than 5 minutes;
- **Resilient:** the panels have excellent rebound characteristics providing light to medium impact resistance;
- **Versatile:** the support structure can be installed with reduced interference to other trades. Fast and final close up of panels later in the vessel build program deliver particular advantages to the builder;
- **Resistance to corrosion:** the supporting structure and cover strips are manufactured from marine grade stainless steel with exposed panel surfaces being non-metallic and not subject to corrosion;
- **Panel surface finish:** fully washable white non-water-absorbent facing gives a premium appearance to the fire protected areas;
- **Certification:** the RAC system meets IMO regulations and has MED and USCG approvals as a 60 minute fire resisting division for high speed craft.



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WORLD LEADER IN SUPPLY AND INSTALLATION OF LIGHTWEIGHT MARINE FIRE DIVISIONS

- ▶ Structural fire protection (SFP) of vehicle decks, engine rooms, hangars, storage rooms, duty-free shop areas and any other "A" class space;
- ▶ A-60 fire rating (**RAC^{PLUS}**) and 60 minute fire resisting division for high speed vessels (**RAC**);
- ▶ Panelised system with 2400mm x 1200mm panels;
- ▶ Installed weight of **5.2 kg/m²**;
- ▶ Corrosive resistant;
- ▶ Average installation time of 1.5 man hours per m²;
- ▶ Panel replacement can be achieved in less than 5 minutes;
- ▶ White, non-absorbent, washable facing.

CBG Systems (CBG) was established in 1978 as a provider of a broad range of insulation systems. Today CBG is recognised as the leading provider of lightweight passive (or structural) fire protection systems (SFP) and contractor for the installation of insulation systems for marine and industrial environments.

CBG operates an ISO 9001:2015 Quality Management System and has extensive experience manufacturing and installing SFP systems to IMO regulations in commercial and navy vessels operating worldwide.

Through continual product research, our company has developed SFP systems of panelised configuration that have reduced the installed weight by up to 70% when compared to conventional metal clad systems. Products are developed and manufactured in CBG's well-equipped 2000 m² facility located in Hobart, Australia.



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