



MARINE SYSTEMS

## RAPID ACCESS COMPOSITE (RAC)

### THE LIGHTEST AND MOST TECHNOLOGICALLY ADVANCED STRUCTURAL FIRE PROTECTION IN THE WORLD

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

- ▶ 60 minute fire resisting division for high speed vessels
- ▶ Panel system with nominal maximum dimensions per panel of 2400 x 1200mm
- ▶ Fully non corrosive panels
- ▶ Average installation time of 1.5 man hours per m<sup>2</sup>
- ▶ Installed panel weight of approximately 5.2kg per m<sup>2</sup>
- ▶ Ideal for structural fire protection of vehicle decks, engine rooms, hangars, storage rooms, free shop areas and any other "A" class space of a high speed craft
- ▶ Panel replacement can be achieved in less than 5 minutes
- ▶ Fully washable non water absorbent facing.



**CBG**Systems





- ▶ **Lightweight:** the installed panel weighs less than 5.2kg per m<sup>2</sup> 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 CO<sup>2</sup> 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 is typically installed at a rate of 1.5 hours per m<sup>2</sup>
- ▶ **Robust:** the panels have excellent rebound characteristics providing light to medium impact resistance
- ▶ **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
- ▶ **Versatile:** the support structure can be installed with reduce 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 support 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:** in white achieving a premium appearance of the fire protected areas
- ▶ **Certification:** the **RAC** system meets IMO, MED and USCG approvals as a 60 minute fire resisting division for high speed craft.

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

CBG Systems operates an ISO 9001:2015 Quality Management System and has extensive experience installing IMO approved SFP systems 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 3000 square metre facility located in Hobart, Australia.



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