CBGSystems



RAC Plus[™]

CBG Systems' next generation Lightweight SFP System

CBG Systems has developed its next generation lightweight panelised structural fire protection system. The system extends the philosophy behind CBG's Rapid Access[™] SFP range systems. Rapid Access Composite PLUS (RAC PLUS[™]) is an inorganic, non-intumescent and fully non-combustible panelised structural fire protection system with a focus on safety. The system has been extensively tested against the requirements of the IMO and the FTP code.

Rigorous environmental testing has been conducted on the system to verify its performance in an operational environment. RAC PLUS[™] has shown successful performance against dart impact, boil testing, high humidity and temperature exposure, fog room exposure, environmental chamber testing, salt solution exposure, outdoor weather exposure, dry oven exposure up to 50°C, wet heat exposure up to 80°C, salt spray chamber exposure and UV exposure. The systems performance, in particular when benchmarked against other structural fire protection systems on the market, is evidence of its unique and highly effective physical properties.

The RAC PLUS[™] panel is one of the lightest fire protection panels on the market, weighing 4.9 kg/m² +/- 10% allowing vessel to have increased fuel efficiency, speed and payload. Furthermore, the system does not require wrap factors to follow the contours of beam structures.

Although developed with a priority on safety and efficiency, RAC PLUS[™] also delivers on its lightweight design and pleasing aesthetic. RAC PLUS[™] panels are reversible which allows panels to be flipped by ship operators to delay replacing or re-facing compromised panel facing. The non-metallic nature of the panel provides clear benefits in terms of weight, while the semi rigid face minimizes damage to the system during vessel operation. The panels are finished with CBG Systems' typical imprint and a white finish, this reduces lighting requirements and greatly improves the look and feel of spaces installed with RAC PLUS[™]. RAC PLUS[™] provides a global solution to SFP including engine rooms, mission bays and vehicle decks.

Please refer below to review the RAC PLUS[™] technical data:

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	Rapid Access Composite™	Rapid Access Stainless™	RAC PLUS ™	RAC PLU
Installed Weight	6.0 kg/m ²	10.8 kg/m ²	6.0 kg/m ²	5.9 kg/m
Appearance	Soft white washable finish	Stainless finish	Hard White washable finish, double sided	Hard Alu double si
Fire rating	60 minute Fire resisting division	A60	A60	A60
Manufacturing site	Partially made in Australia, the USA and Spain	Fully made in Australia	Fully made in Australia	Fully mad
In service maintenance	Non-destructive	Non-destructive	Non-destructive	Non-dest
Lifespan	Facing may deteriorate	Insulation may deteriorate	Can be double sided to increase service life of facing.	Can be do service li
Resistance to corrosion	Aluminium Honeycomb panel	316 Stainless steel panel	Panel is metal free	Panel is r
Test Data	FTP Code Part 3 Fire Tested	FTP Code Part 3 Fire Tested	FTP Code Part 3 Fire Tested	FTP Code
	FTP Code Part 10 Fire Tested		CSIRO Boil Test	CSIRO Bo
			CSIRO Fog Room exposure	CSIRO Fo
			CSIRO High Temperature/Humidity	CSIRO Hi
			CSIRO Environmental Chamber	CSIRO Er
			CSIRO Salt Solution Immersion	CSIRO Sa
			CSIRO Outdoor Weather exposure	CSIRO Ou
			CSIRO Salt Spray Chamber	CSIRO Sa
			CSIRO UV-exposure test	CSIRO UV
Air gap	Deck: 300 mm	Deck: 300 mm	Deck: 300 mm	Deck: 30
	Bulkhead: 150 mm	Bulkhead: 150 mm	Bulkhead: 150 mm	Bulkhead
System thickness additional to airgap	16.5 mm panel (38 mm maximum system thickness)	70 mm maximum system thickness	20 mm panel (38 mm maximum system thickness)	20 mm pa system th
Grid Size	2400 mm x 1200 mm	1200 mm x 900 mm	2400 mm x 1200 mm (VD)	2400 mm
			1200 mm x 1200 mm (ER)	1200 mm
Certification	MED B+D (DNV GL) and USCG	MED B+D (DNV GL) and USCG	MED B+D (DNV GL) and USCG	MED B+D

LUS ™ -Aluminium

′m²

luminium washable finish, sided

nade in Australia

estructive

double sided to increase life of facing.

s metal free

de Part 3 Fire Tested

Boil Test

Fog Room exposure

High Temperature/Humidity

Environmental Chamber

Salt Solution Immersion

Outdoor Weather exposure

Salt Spray Chamber

UV-exposure test

800 mm

ad: 150 mm

panel (38 mm maximum thickness)

nm x 1200 mm (VD)

nm x 1200 mm (ER)

+D (DNV GL) and USCG



