



# CharCoat FP (4 Hour Fire Rated Panel)

## PRODUCT DESCRIPTION

CharCoat FP Panel is designed to prevent the spread of fire and smoke through openings in fire rated walls and floors where openings are formed to allow the installation of multiple building services. CharCoat FP will also maintain the acoustic design performance in fire rated walls and floors.

CharCoat FP consists of a high density stone wool core, over-coated with CharCoat CC Cable Coating. The top coating provides additional protection by significantly reducing the permeability of the stone wool core and prevents the passage of hot gases, thus reducing the temperature rise on the unexposed side and reducing heat conduction through the building services.

CharCoat FP is available with top coating on one or two sides, selected on the basis of installation considerations and fire resistance. On site, CharCoat FP must be used together with CharCoat IS for sealing around building services and the surrounding construction.

## PROPERTIES

- Up to 4 hours Fire Rating
- Classified for all types of constructions with or without building service penetrations
- Simple and very quick to install
- Easy to retrofit additional building services after installation
- Permanently flexible - will accommodate movements during fire and smaller movements in the construction it has been fitted within
- Suitable for most surfaces, including concrete, bricks, masonry, steel, wood, gypsum, glass, plastic and most non-porous surfaces
- May be used in unlimited lengths in walls with heights up to 1200mm and in floors with widths up to 120 mm
- May be installed in gypsum walls with or without framing around the opening
- Halogen free with added fungicides
- Once fully cured, the board resists UV, humidity and frost
- CharCoat FP can be supplied with a smooth surface
- Precautions are required to be taken to prevent a person stepping onto a blank horizontal penetration seal
- Nearly unlimited storage time



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VERSION	4.0
PURPOSE/CHANGES	DESIGN
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## RESISTANCE TO FIRE

Construction	Description	Classification
Flexible walls comprise gypsum, masonry, aerated concrete or concrete	Unlimited width by 1200mm high blank seal with double 50mm CharCoat FP Panel	EI 120 (E 120)
Rigid walls comprise masonry, aerated concrete or concrete, within walls or between the head of walls and the soffit of floor slabs	Unlimited width by 1200mm high blank seal with single 60mm CharCoat FP Panel	EI 90 (E 240)
	Unlimited width by 1200mm high blank seal with double 60mm CharCoat FP Panel	EI 240 (E 240)
	Up to 1200 mm by 1200 mm blank seal with double 60mm CharCoat FP Panel	EI 240 (E 240)
Rigid floors comprise aerated concrete or concrete within floors or between floors and walls	Up to 1200 mm by 600 mm blank seal with single 60mm CharCoat FP Panel	EI 120 (E 240)
	Up to 1200 mm by 600 mm blank seal with double 60mm CharCoat FP Panel	EI 180 (E 240)
	Up to 2400 mm by 1200 mm blank seal with single 60mm CharCoat FP Panel	EI 90 (E 120)
	Unlimited length by 120mm wide linear seal with single 60mm CharCoat FP Panel	EI 120 (E 240)

Please review the installation instructions before application.

## SOUND INSULATION

Description	Sound Reduction
Single 50mm CharCoat FP Panel	55 dB
All other configurations	> 55 dB

CharCoat FP has been tested at BM Trada (UKAS accredited); according to EN ISO 10140-2:2010.

## EMISSION DATA (INDOOR AIR QUALITY)

Compound	Emmissions rate after 4 weeks
TVOC	0.20 mg/m <sup>3</sup> h
Formaldehyde	n.d.
Ammonia	n.d.
Carcinogenic	n.d.
n.d. or < means not detected	

CharCoat FP complies with the requirements of BREEAM according to the M1 Protocol for Chemical and Sensory Testing of Building Materials as published by RTS version 15.12.2004 which is the best possible environmental and indoor hygiene health protection mark for coatings.

No liability can be accepted for the information provided in this document although it is published in good faith and believed to be correct. CharCoat Passive Fire Protection reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.

## TECHNICAL DATA

Condition	Ready for use, pre-coated boards
Density	Board: 160 kg/m <sup>3</sup> (150 – 170 kg/m <sup>3</sup> ) Coating: 1.3 – 1.4 kg/ltr
Durability	Y <sub>1</sub> - Intended for use at temperatures below 0°C with exposure to UV and humidity but no exposure to rain. Includes lower classes Y <sub>2</sub> , Z <sub>1</sub> and Z <sub>2</sub> . Up to 30 days
Flash point	None
Non-sticky	Max. 75 minutes (sealant)
Film forming	Max. 25 minutes (sealant)
Totally hardened	3 to 5 days depending on thickness and temperature
Flexibility	
Thermal conduct.	0.038 W/mK
Storage	18 months years in dry places with storage temperatures between 5°C and 35°C
Compatibility	Suitable for use with most materials, but should not be used In direct contact with bituminous materials
Limitations	If the panels are to be used in permanently humid areas CharCoat CC should be applied over the sealant
Temperature range	-30°C to + 80°C (when hardened)
Installation temp.	+5°C to + 50°C
Colour	White surface (coating), green core (panel)
Packaging	CharCoat FP Panel 50x600x1200 mm: 64 pcs per pallet
Warranty	25 Years / Product only. Please refer to our full Terms and Conditions of sale.



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