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Report Number FAR 2034

22 October 2002

Exfoliators PFP Pty Ltd.
 Factory : 3/9 Pottery Road,
 Somerville
 Victoria 3912
 AUSTRALIA

Attention: Mr P Watson

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Dear Sir

Fire Resistance of Cafco Silverflame Fire Batt and Thermolag 270 Penetration Seal.

Cafco Silverflame Fire Batt is a pre-coated Cafco mineral fibre board which has been tested as a penetration seal in accordance with the heating conditions of BS 476:Part 20, and has been assessed as providing at least 240 minutes Integrity and 60 minutes Insulation in accordance with the criteria specified in that Standard.

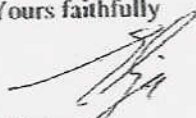
The coating used on both faces of Silverflame Fire Batt is Thermolag 270 ablative coating which has FM (Factory Mutual) approval as a flame retardant cable coating.

It is proposed that the ablative coating be applied on-site using quality control systems which will ensure that it complies with the Cafco specification Data Sheet C/FS/P-1.

We have reviewed the documents supplied by Exfoliators PFP Pty on Silverflame Fire Batts and conclude that site applied ablative coating would not be detrimental to the proposed site applied system giving at least 240 minutes Integrity and 60 minutes Insulation in accordance with AS 1530.4 and AS 4072.1.

For FM approval the penetration sealant system would need to comply with the requirements of Chapter 9 of the Factory Mutual Research Approval Guide which includes testing in accordance with ASTM E 814. ASTM E 814 subjects a penetration seal to similar heating conditions to BS 476:Part 20 and AS 1530.4 and includes a hose stream test at a maximum period of 60 minutes. It is considered that the fire test is sufficiently similar to BS 476:Part 20 and AS 1530.4 for the penetration seal to achieve at least 240 minutes without fire propagation to or flaming on the unexposed side, and 60 minutes without the temperature rise on the unexposed face 25.4 mm from or in the field of the penetration exceeding 180°C (325°F) above its initial temperature. As the penetration seal is capable of achieving 240 minutes without fire propagation to or flaming on the unexposed side, it is considered that it can be used where the hose stream test is required.

Yours faithfully



E Soja
 Senior Fire Engineer
 Author



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