



Our ref: FCO-0779/3932

Mr Lorenzo Fazzini  
L & A Fazzini Manufacturing Pty Ltd  
23-25 Wentworth Street  
GREENACRE NSW 2190

Dear Mr Fazzini,

STICKABILITY OF VERMITEX "AF" TO CONCRETE SOFFITS

Opinion No FCO-0779

Your e-mail of 11 November 2010

INTRODUCTION

We have examined the information referenced by you on the likely performance of your Vermitex "AF" sprayed insulation when applied to the underside of a reinforced concrete slab. The information included:

- our test report numbered FSH 0236 on air-handling ducts tested on 18 December 1992.

We have retained this document.

You have proposed the use of your Vermitex "AF" sprayed material to provide additional insulation to the reinforcement or prestressing tendons by applying the material to the underside of the concrete slab.

ANALYSIS

***CSIRO Sponsored Investigation Report FSH 0236***

On 18 December this Division conducted a full-scale fire-resistance test on ductwork protected by Vermitex "AF" sprayed insulation. In order to save constructional costs associated with the testing, the concrete slab, which formed the top of the furnace chamber and provide the penetrated element for the vertical duct systems, was one which had previously been subjected to a standard fire.

A nominal thickness of 25 mm Vermitex "AF" was sprayed on the underside of the slab to provide additional insulation to the reinforcement steel and protect the heat affected concrete. The slab exhibited only marginal deflection during the test under which conditions the applied Vermitex "AF" remained attached to the slab for the duration of the test (188 minutes). The applied spray material did exhibit acceptable stickability around the duct sections which were the subject of significant expansions and buckling.

OPINION/CONCLUSION

It is the opinion of this Division, as the result of the observed performance in a standard fire-resistance test your Vermitex "AF" sprayed insulation would represent an acceptable material, as specified in Section 5.8.1.2 of AS 3600-2009, for application to the underside of concrete slabs.

TERM OF VALIDITY

This assessment report will lapse on 31 January 2016. Should you wish us to re-examine this assessment with a view to the possible extension of its term of validity, would you please apply to us three to four months before the date of expiry. This Division reserves the right at any time to amend or withdraw this report in the light of new knowledge.

Yours faithfully



Russell Collins  
For Manager, Fire Testing and Assessment

7 January 2011