



www.cmit.csiro.au

GEC:gec

Saint-Gobain Glassblocks
Siemensstraße 1
D-56422
WIRGES GERMANY

Attention: Mr Peter Leitzbach,

SOLARIS GLASSTEIN 198 BRICK WALL
Opinion Number FCO-2115
Your letter of 18 April

INTRODUCTION

We have examined the information referenced by you on the likely performance of your glass brick wall system if it was tested in accordance with AS 1530.4-1997. The information included

- Amtliche Materialprüfanstalt Für Das Bauwesen beim Institut Für Baustoffe, Massivbau und Brandschutz (IBMB) test certificate number 3982/6800 -Mp-, dated 8 November 2000.

We have retained this document.

ANALYSIS

On 23 October 2000 IBMB conducted a full-scale fire-resistance test on a glass brick wall incorporating 190-mm x 190-mm x 80-mm deep glass bricks with 8-mm wall thicknesses. The bricks were designated as Solaris Glasstein 198 bricks and were laid up in type LM 21 mortar using steel reinforcing bars.

The wall maintained integrity for 64 minutes while the wall was being subjected to the test conditions of DIN 4102 Part 13 which has the same time-temperature and pressure exposure conditions to that of AS 1530.4. Additionally the observations indicate that the integrity determination for this test was equivalent to that of AS 1530.4.

OPINION/CONCLUSION

Based on the test data detailed above it is the opinion of the Division that your 190-mm x 190-mm x 80-mm (Solaris Glasstein 198) glass bricks wall constructed as specified in IBMB test certificate numbered 3982/6800 -Mp- but excluding the variations listed in section 6, "Annotations" would be capable of achieving fire-resistance levels (FRL) of -/60/- if tested in accordance with AS 1530.4-1997.

CSIRO MANUFACTURING & INFRASTRUCTURE TECHNOLOGY

14 Julius Avenue, Riverside Corporate Park
North Ryde, NSW 2113, Australia

Postal Address:

PO Box 310, North Ryde, NSW 1670, Australia

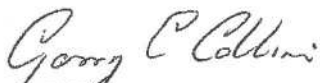
Telephone 61 2 9490 5444

Facsimile 61 2 9490 5555

TERM OF VALIDITY

This opinion will lapse on 31 May 2009. Should you wish us to re-examine this opinion 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 opinion in the light of new knowledge.

Yours faithfully,



Garry E Collins
Manager, Fire Testing and Assessments.

26 May 2004

SAMPLE ONLY