



SIRIM QAS International Sdn. Bhd.

(Formerly known as SIRIM QAS Sdn. Bhd.)

No. 1, Persiaran Dato' Menteri, P.O.Box 7035, Seksyen 2, 40911 Shah Alam, Selangor Darul Ehsan.

MALAYSIA

Tel: 03-5544 6465

Fax: 03-5544 6454

http://www.sirim.my

(Company No: 410334 - X)

TEST REPORT

REPORT NO.: 2011FE0173

PAGE: 1 OF 26

This Test Report refers only to samples submitted by the applicant to SIRIM QAS International Sdn. Bhd. and tested by SIRIM QAS International Sdn. Bhd. This test report shall not be reproduced, except in full and shall not be used for advertising purposes by any means or forms without written approval from Managing Director, SIRIM QAS International Sdn. Bhd. Please refer overleaf for Conditions Relating to The Use of Test Report.

Manufacturer/
Applicant : **FlexDuR Technology Sdn. Bhd.**
Lot 178, Jalan Industri 3/6,
Rawang Integrated Industrial Park,
48000 Rawang,
Selangor Darul Ehsan.
(Attn.: Mr. Ng Fui Leong)

Product : **Fire Damper**

Reference Standard/
Method of Test : Fire resistance test utilising the test methodology given in
BS 476:Part 20:1987
Fire tests on building materials and structures
Part 20. Methods for determination of the fire resistance of elements of
construction (general principles)

Description of sample : The specimen comprised of a fire damper with overall dimension of 1094 mm (w)
× 1094 mm (h) × 246 mm (d) and opening dimension of 970 mm (w) × 970 mm
(h) × 146 mm (d) mounted in a brickwall construction.

The fire damper was verified by the Fire Protection Section's Testing Executives
on their dimensions and designs.

Full description of the test construction of the fire dampers is detailed in Page 2
and 3 of this report.

Brand: **FlexDur** Model: **FDMB-S-150**

Date of test : **23rd May 2011**

Date received : **13th April 2011**

Job No./ Ref No. : **J20111280101 / SQAS/FPS/15/1-3**

Test Result : **Integrity: 250 minutes**

Issued date : **07 JUL 2011**

.....
KAMARULZAMAN MAT ZIN
Testing Executive



.....
ZAINI AHMAD
Group Leader
Fire Protection Section
Testing Services Department
SIRIM QAS International Sdn.Bhd.

TEST REPORT

REPORT NO.: 2011FE0173

PAGE: 21 OF 26

This report refers only to samples submitted by the client to SIRIM QAS International Sdn. Bhd. and tested by SIRIM QAS International Sdn. Bhd. This test report shall not be reproduced, except in full and shall not be used for advertising purposes by any means or forms without written approval from Managing Director, SIRIM QAS International Sdn. Bhd.



Photo 1: The exposed face of the test specimens before the test



Photo 2: The unexposed face of the test specimens before the test

07 JUL 2011

TEST REPORT

REPORT NO.: 2011FE0173

PAGE: 22 OF 26

This report refers only to samples submitted by the client to SIRIM QAS International Sdn. Bhd. and tested by SIRIM QAS International Sdn. Bhd. This test report shall not be reproduced, except in full and shall not be used for advertising purposes by any means or forms without written approval from Managing Director, SIRIM QAS International Sdn. Bhd.



Photo 3: At about 30 minutes of test



Photo 4: At about 60 minutes of test

[Handwritten signature]

07 JUL 2011

TEST REPORT

REPORT NO.: 2011FE0173

PAGE: 23 OF 26

This report refers only to samples submitted by the client to SIRIM QAS International Sdn. Bhd. and tested by SIRIM QAS International Sdn. Bhd. This test report shall not be reproduced, except in full and shall not be used for advertising purposes by any means or forms without written approval from Managing Director, SIRIM QAS International Sdn. Bhd.



Photo 5: At about 90 minutes of test



Photo 6: At about 120 minutes of test

[Handwritten signature]

07 JUL 2011

TEST REPORT

REPORT NO.: 2011FE0173

PAGE: 24 OF 26

This report refers only to samples submitted by the client to SIRIM QAS International Sdn. Bhd. and tested by SIRIM QAS International Sdn. Bhd. This test report shall not be reproduced, except in full and shall not be used for advertising purposes by any means or forms without written approval from Managing Director, SIRIM QAS International Sdn. Bhd.

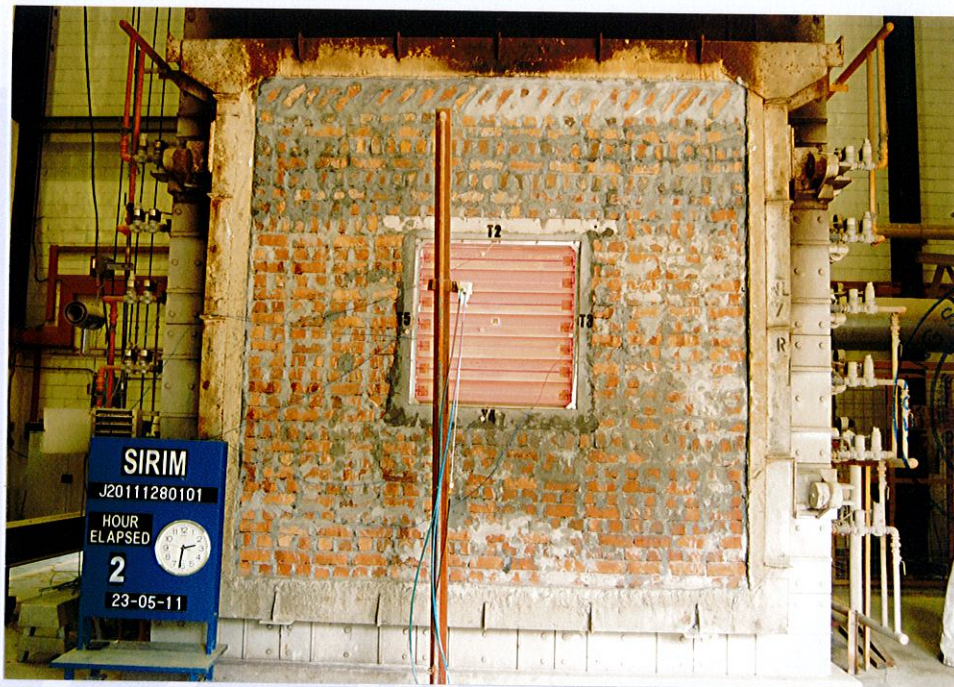


Photo 7: At about 150 minutes of test



Photo 8: At about 180 minutes of test

[Handwritten signature]

07 JUL 2011

TEST REPORT

REPORT NO.: 2011FE0173

PAGE: 25 OF 26

This report refers only to samples submitted by the client to SIRIM QAS International Sdn. Bhd. and tested by SIRIM QAS International Sdn. Bhd. This test report shall not be reproduced, except in full and shall not be used for advertising purposes by any means or forms without written approval from Managing Director, SIRIM QAS International Sdn. Bhd.



Photo 9: At about 210 minutes of test



Photo 10: At about 240 minutes of test

[Handwritten signature]

07 JUL 2011

TEST REPORT

REPORT NO.: 2011FE0173

PAGE: 26 OF 26

This report refers only to samples submitted by the client to SIRIM QAS International Sdn. Bhd. and tested by SIRIM QAS International Sdn. Bhd. This test report shall not be reproduced, except in full and shall not be used for advertising purposes by any means or forms without written approval from Managing Director, SIRIM QAS International Sdn. Bhd.

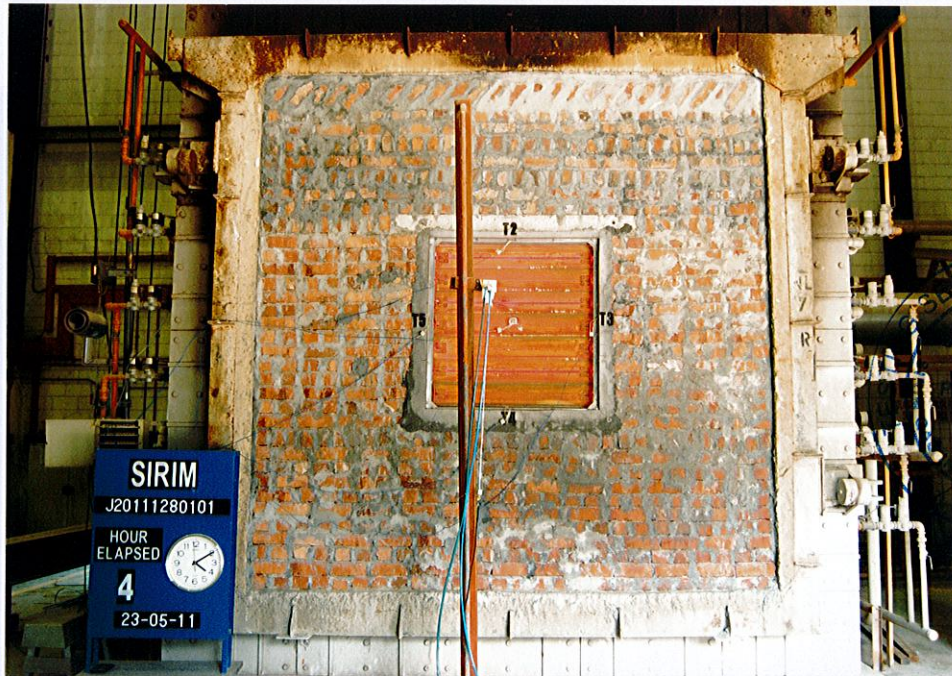


Photo 11: At about 250 minutes of test



Photo 12: The exposed face of the test specimen after the test

[Handwritten signature]

07 JUL 2011