

# Warrington

# FIRE

# research

CONSULTANCY • TESTING

## Sponsor

Pyropanel Developments Pty Ltd.  
Melba Industrial Park  
122-124 Beresford Road  
Lilydale  
VIC 3140

## Issue Date

17/12/02

Medium Air Leakage Test in accordance with AS 1530.7:1998 and ISO CD 5925-1:1994 on a Pyropanel Pandor -/60/30 38mm thick doorset with a Raven RP76si seal (installed within frame rebate) and a Raven RP10si (installed on jambs) to the head and jambs and a Raven RP8si (fully morticed) threshold seal, opening towards the heated enclosure and positive pressure

## Objective

This test report confirms that the construction described below has been tested by Warrington Fire Research (Aust) Pty Ltd and achieved the stated performance when subjected to the nominated test.

## Product / Specimen

**Wall construction:** Boral Timber stud / plasterboard wall construction.

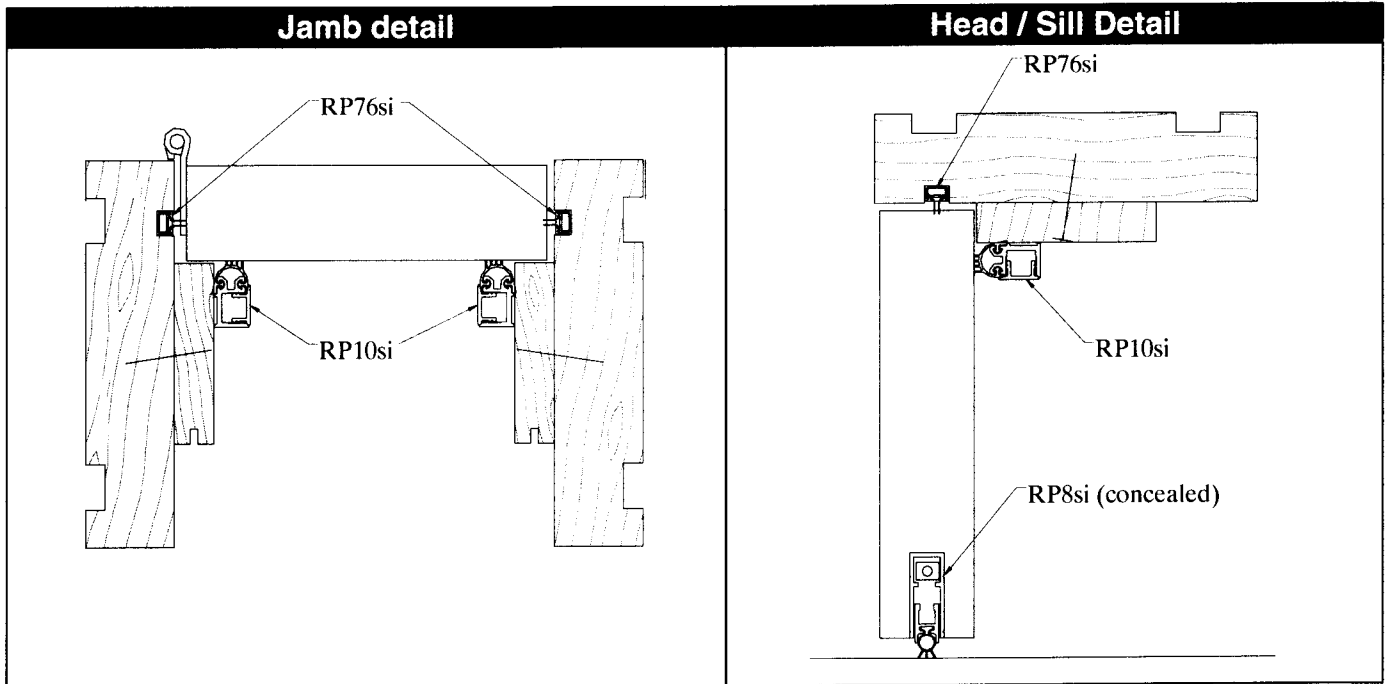
**Door frame:** Timber (MDF) door frame (made of 2 sections) of overall depth of 154mm with a 41mm x 20mm door seat rebate was built into the partition. The perimeter of the door frame was sealed with a 2-3mm bead of Pyropanel Multiflex acrylic sealant.

**Door leaf:** 2040mm high x 820mm wide x 38mm thick Pandor -/60/30 fire door manufactured by Pyropanel Developments. The door leaf and partition were painted with an acrylic paint.

| Position   | Seals                                       | Mean Clearance mm |               |
|--|---|-------------------|---------------|
|  |   | Edge / frame      | Face / rebate |
| Head/ Jamb   | Raven RP76si (rebate)<br>Raven RP10 (jambs) | 3.1               | 1.4           |
| Sill   | Raven RP8si (fully-morticed)                | 8.1               | 8.6           |
| <b>Door Closer:</b> Lockwood Arrow 724<br><b>Latchset:</b> EFCO 5300<br><b>Hinges:</b> Nova 100x75mm |   |                   |               |

| Test / Report Reference | Test Methods                           | Variations From Test Criteria | Supplementary Standards | Date of Test |
|-------------------------|--|-------------------------------|-------------------------|--------------|
| WFRA No. 40961          | AS1530.7-1998<br>ISO CD<br>5925-1:1994 | As described in<br>FSE004     | FSE004                  | 9/10/2002    |

| TESTING AUTHORITY | Warrington Fire Research (Aust) Pty Ltd   |  |
|-------------------|---|--|
| Address           | PO Box 4282 DANDENONG SOUTH VIC 3164<br>Unit 2, 409-411 Hammond Road DANDENONG VIC 3175 |  |
| Phone / Fax       | 61 (0)3 9767 1066 / 61 (0)3 9767 1001   |  |
| ABN               | 81 050 241 524  |  |
| Email / Home Page | testing@wfra.com.au / www.wfra.com.au   |  |
| Authorisation     | Prepared By: <i>A.F. Rayner</i><br>A.F. Rayner  | Reviewed By: <i>J.P. England</i><br>J.P. England |



**Test Results**

| Door Configuration / Pressure                 | Exposure  | Leakage rate correction | Leakage Rate Q(m <sup>3</sup> /h) @ a pressure differential of |      |      |      |
|---|---|-------------------------|--|------|------|------|
|   |   |                         | 5Pa  | 10Pa | 25Pa | 50Pa |
| Opening Towards Positive Pressure (fire side) | Medium (200°C)                                  | STP                     | < 2  | < 2  | < 2  | < 2  |
|   |   | 200°C                   | < 2  | < 2  | < 2  | < 2  |
| Opening Towards Positive Pressure (fire side) | BCA Spec. C3.4<br>Medium (200°C)<br>>30 minutes | STP                     | < 2  | < 2  | 2    | 3    |
|   |   | 200°C                   | < 2  | < 2  | 4    | 6    |

Notes: The medium test with exposure times greater than 30 minutes is consistent with the BCA requirements of specification C3.4 which requires doorsets to be resistant to smoke at 200°C for 30 minutes.

**Conditions/Validity**

- This test report is based on the results of the test, as referenced above, performed by Warrington Fire Research (Aust) Pty Ltd. Further information is provided in the full test report.
- This test report does not provide an endorsement by Warrington Fire Research (Aust) Pty Ltd of the performance of the actual products supplied.
- The conclusions in this test report relate to the configurations as detailed in the full test report, and should not be applied to any other configuration
- The results of these tests may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of fire hazard under all fire conditions.

|                          |  |
|--------------------------|--|
| <b>TESTING AUTHORITY</b> | Warrington Fire Research (Aust) Pty Ltd  |
| <b>Address</b>           | PO Box 4282 DANDENONG SOUTH VIC 3164<br>Unit 2, 409-411 Hammond Road DANDENONG VIC 3175      |
| <b>Phone / Fax</b>       | 61 (0)3 9767 1066 / 61 (0)3 9767 1001  |
| <b>ABN</b>               | 81 050 241 524   |
| <b>Email / Home Page</b> | testing@wfra.com.au / www.wfra.com.au  |
| <b>Authorisation</b>     | Prepared By: <i>A.F. Rayner</i> Reviewed By: <i>J.P. England</i><br>A.F. Rayner J.P. England |