

m/s BELTEX AUSTRALIA  
7/2 Focal St, Coolumb Beach Q/Land 4573  
Attn Mr Paul Sommerville

TEST REPORT No. 137583

LABORATORY REF: P137583

CUSTOMER REFERENCE

## ROYAL TWIST

Sample description as provided by customer  
Mass/unit area **70.6 oz/yd<sup>2</sup> 2000 g/m<sup>2</sup>**  
Construction Details **Tufted** Secondary Backing **Synthetic**  
Style **Cut Pile**

Order No. **PS**  
Pile Fibre Content **100% SOLUTION DYED NYLON**  
Colour **Fawn**  
Pile Height **16 mm**

**TEST METHOD ISO 9239-1(2010 06-15) Determination of the Burning Behaviour using a radiant heat source As required by the New Zealand Building Code Clause C3.4 (b) (April 2012)**

The test values relate to the behaviour of the test specimens of a product under the particular conditions of the test, they are not intended to be the sole criterion for assessing the potential fire hazard of the product. Clause 10 (o) of ISO 9239-1:2010.

Conditioning as specified in BS EN 13238.2001

Sample submitted Date **Aug 2013**

Test Date **21 Aug 2013**

### ASSEMBLY SYSTEM: OVER UNDERLAY 7 mm High Density Foam

The UNDERLAY used was **7 mm High Density Foam**.

Substrate: **Non-Combustible**

Substrate - **6mm Fibre Reinforced Cement Board to simulate a Non-Combustible Flooring.**

The Holding Torque on Specimen Frame was **2Nm**.

Initial Test Specimen 1 Length Direction Critical Radiant Flux **3.6 kW/m<sup>2</sup>**  
Specimen 1 Width Direction Critical Radiant Flux **3.6 kW/m<sup>2</sup>**  
Full tests carried out in the **Length Direction**

| SPECIMEN                                   | Length #1  | Length #2  | Length #3  | Mean       |
|--|------------|------------|------------|------------|
| Critical Radiant Flux (kW/m <sup>2</sup> ) | <b>3.6</b> | <b>3.2</b> | <b>3.0</b> | <b>3.3</b> |

The value quoted below is as required by the New Zealand Building Code Clause C3.4 (b) (April 2012) "Minimum critical radiant flux when tested to ISO 9239-1:2010". Hence the Radiant Flux quoted is the value at Flame-Out/Extinguishment Not after a 30 minute burn as used in Europe.

### MEAN CRITICAL RADIANT FLUX **3.3 kW/m<sup>2</sup>**

OBSERVATIONS: The samples shrunk away from the heat source, ignited and burnt a relatively short distance



M. B. Webb  
Technical Manager

DATE: 21 Aug 2013

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COMPETENCE

Measurement Science &  
Technology No. 15393  
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This Page (1) has been designed to show the value required under Clause C3.4 (b) (April 2012) of the New Zealand Building Code.

The values on Page 2 have no relevance to the Code.

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**TIME FOR EACH SPECIMEN TO REACH EACH MARKER IN SECONDS**

| Specimen | 50  | 60  | 110 | 160 | 210 | 260 | 310 | 360 | 410 | 460 | 510  | 560 | 610 | 660 | 710 | 760 | 810 | 860 |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|
| 1        | 290 | 293 | 373 | 432 | 498 | 525 | 567 | 636 | 717 | 897 | /    |     |     |     |     |     |     |     |
| 2        | 219 | 221 | 324 | 407 | 458 | 501 | 533 | 612 | 666 | 788 | 1433 | /   |     |     |     |     |     |     |
| 3        | 262 | 265 | 351 | 414 | 464 | 514 | 571 | 589 | 696 | 769 | 1126 | /   |     |     |     |     |     |     |


**TESTS**

**BURNING CHARACTERISTICS**

| Specimen                      | Burn Length (mm) at Flame Out/ Extinguishment | Time To Burn Out (s) |
|-------------------------------|---|----------------------|
| Initial Test: <b>Width</b>    | 478   | 1,407                |
| Specimen Tests: <b>Length</b> |   |                      |
| 1                             | 480   | 1,294                |
| 2                             | 510   | 1,751                |
| 3                             | 530   | 1,627                |
| Mean                          | 507   | 1,557                |



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The laboratory does not allow the use of this page of the report without the use of page 1.  
 This page alone has no validity under Clause C3.4 (b) (April 2012) of the New Zealand Building Code.

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