

m/s EC. GROUP  
4-9 Delaine Ave Edwardstown S A 5069  
Attn: Mr Ken Grace

TEST REPORT No. 171847

LABORATORY REF: P171847

CUSTOMER REFERENCE  
**GREAT SANDY**

Sample description as provided by customer  
Pile weight mass/unit area **34 oz/yd<sup>2</sup>**  
Construction Details **Tufted** Secondary Backing **Synthetic**  
Style **Multi Level Loop**

Order No. **KG**  
Pile Fibre Content **100% WOOL**  
Colour **Beige Shades**  
Pile Height mm

**TEST METHOD AS/ISO 9239.1 2003 Reaction To Fire Tests For Floorings Part 1 Determination of the Burning Behaviour Using a Radiant Heat Source. As required by specification C1.10 of the Building Code of Australia.**

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 9 of AS/ISO 9239 Part 1.

Conditioning as specified in BS EN 13238.2001

Sample submitted Date **Jan 2017**

Test Date **22 Jan 2017**

## ASSEMBLY SYSTEM: OVER UNDERLAY AIRSTEP STEPEZY.

The UNDERLAY used was **AIRSTEP STEPEZY**.

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 **3.8 kW/m<sup>2</sup>**  
Specimen 1 Width Direction Critical Radiant Flux **3.5 kW/m<sup>2</sup>**  
Full tests carried out in the **Width** Direction



| SPECIMEN                                   | Width #1   | Width #2   | Width #3   | Mean       |
|--|------------|------------|------------|------------|
| Critical Radiant Flux (kW/m <sup>2</sup> ) | <b>3.5</b> | <b>3.7</b> | <b>3.7</b> | <b>3.6</b> |
| Smoke Development Rate (%.min)             | <b>149</b> | <b>158</b> | <b>146</b> | <b>151</b> |

The values quoted below are as required by Specification C1.10 Fire Hazard Properties (Floors) of the Building Code of Australia. The Critical Radiant Flux quoted is the value at Flame-Out/Extinguishment (BCA General Provisions A1.1).

**MEAN CRITICAL RADIANT FLUX 3.6 kW/m<sup>2</sup>**

**MEAN SMOKE DEVELOPMENT RATE 151 percent-minutes**

OBSERVATIONS: The samples singed, ignited and burnt a relatively short distance.

|  |   |   |
|--|---|---|
| <br>ACCREDITED FOR<br>TECHNICAL<br>COMPETENCE | <b>M. B. Webb</b><br>Technical Manager        |  |
|  | DATE: 22 Jan 2017                             |   |
|  | Performance & Approvals<br>Testing No. 15393  |   |
|  | Accredited for compliance with ISO/IEC 17025. |   |

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Clause 9 of AS/ISO 9239 Part 1


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        | 160 | 161 | 167 | 172 | 187 | 200 | 210 | 260 | 317 | 363 | /   |     |     |     |     |     |     |     |
| 2        | 173 | 174 | 176 | 179 | 183 | 224 | 247 | 254 | 266 | 329 | /   |     |     |     |     |     |     |     |
| 3        | 126 | 128 | 134 | 139 | 144 | 154 | 168 | 198 | 225 | 269 | /   |     |     |     |     |     |     |     |

| TESTS                        | BURNING CHARACTERISTICS |   | SMOKE PRODUCTION     |                               |                                |
|------------------------------|-------------------------|---|----------------------|-------------------------------|--------------------------------|
|                              | Specimen                | Burn Length (mm) at Flame Out/ Extinguishment | Time To Burn Out (s) | Maximum Light Attenuation (%) | Smoke Development Rate (%.min) |
| Initial Test: <b>Length</b>  |                         | <b>480</b>                                    | <b>769</b>           | <b>73</b>                     | <b>151</b>                     |
| Specimen Tests: <b>Width</b> |                         |   |                      |                               |                                |
| 1                            |                         | <b>500</b>                                    | <b>762</b>           | <b>74</b>                     | <b>149</b>                     |
| 2                            |                         | <b>490</b>                                    | <b>738</b>           | <b>80</b>                     | <b>158</b>                     |
| 3                            |                         | <b>490</b>                                    | <b>725</b>           | <b>73</b>                     | <b>146</b>                     |
| <b>Mean</b>                  |                         | <b>493</b>                                    | <b>742</b>           | <b>76</b>                     | <b>151</b>                     |



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COMPETENCE**



**M. B. Webb**  
Technical Manager

DATE: 22 Jan 2017

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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 9 of AS/ISO 9239 Part 1

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