

CUSTOMER REFERENCE  
**20oz EcoWorx**

Sample description as provided by customer  
Pile weight mass/unit area **20 oz/yd<sup>2</sup>**  
Construction Details **Tufted** Secondary Backing **Synthetic**  
Style **Loop Pile**  
The Samples Tested Were **Modular Carpet**

Order No. **KS**  
Pile Fibre Content **100% NYLON**  
Colour **Cream**  
Pile Height / 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 **Mar 2017**

Test Date **16/3/2017**

## ASSEMBLY SYSTEM: DIRECT STICK SURETAC PSI.

The floor covering was directly stuck to the substrate using **SURETAC PSI** adhesive.

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 **6.7 kW/m<sup>2</sup>**  
Specimen 1 Width Direction Critical Radiant Flux **6.7 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>6.7</b> | <b>7.1</b> | <b>5.8</b> | <b>6.5</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 **6.5 kW/m<sup>2</sup>**

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

|  |  |   |
|--|--|---|
| <br>ACCREDITED FOR<br><b>TECHNICAL<br/>COMPETENCE</b> | <b>M. B. Webb</b><br>Technical Manager   |  |
|  | DATE: 16/3/2017<br>Performance & Approvals<br>Testing No. 15393<br>Accredited for compliance with ISO/IEC 17025. |   |

PAGE 1 of 2

Clause 10 ( o ) of ISO 9239-1:2010

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

1004 04 09

**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        | 203 | 205 | 290 | 346 | 427 | 553 | 812 |     |     |     |     |     |     |     |     |     |     |     |
| 2        | 180 | 181 | 245 | 327 | 440 | 723 |     |     |     |     |     |     |     |     |     |     |     |     |
| 3        | 190 | 192 | 259 | 321 | 410 | 539 | 691 | 862 |     |     |     |     |     |     |     |     |     |     |

**TESTS**


**BURNING CHARACTERISTICS**

| Specimen                      | Burn Length (mm) at Flame Out/ Extinguishment | Time To Burn Out (s) |
|-------------------------------|---|----------------------|
| Initial Test: <b>Width</b>    | <b>320</b>                                    | <b>1,168</b>         |
| Specimen Tests: <b>Length</b> |   |                      |
| 1                             | 320   | 1,510                |
| 2                             | 300   | 885                  |
| 3                             | 360   | 1,198                |
| <b>Mean</b>                   | <b>327</b>                                    | <b>1,198</b>         |



**NATA**

ACCREDITED FOR  
**TECHNICAL  
COMPETENCE**



**M. B. Webb**  
Technical Manager

DATE: 16/3/2017

Performance and Approvals  
Testing No. 15393  
Accredited for compliance  
with ISO/IEC 17025.

*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 10 ( o ) of ISO 9239-1:2010  
 2004 04 09                      17 March 2017