LABORATORY TEST REPORT
**P172191NZ**

**m/s Ontera Modular Carpets Pty**
PO BOX 555,Wentworthville NSW 2145

# ARCTIC SURVEY ( ISOTHERM / SHACKLETON )

**Sample description as provided by customer** Order No. **6700534264**
Pile weight mass/unit area **30** oz/yd² **1017** g/m² Pile Fibre Content **100% SOLUTION DYED NYLON**
Construction Details **Tufted** Secondary Backing **Cushion Backing** Colour **Various**
Style **Multi Level Loop** Pile Height mm
**The Samples Tested Were Modular Carpet with Cushion Backing Dimensions 250 mm X 1000 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). Sample conditioning as specified in BS EN 13238.2010.**

Sample Submitted Date **Jun 2017** Test Date **03 Jul 2017** Total Thickness **8.5** mm

## Assembly System: DIRECT STICK (Details Below).

**The floor covering was directly stuck to the substrate using Water based Surface Contact adhesive.**

**Substrate: Non-Combustible -** 6mm Fibre Reinforced Cement Board to simulate a Non-Combustible Flooring.
The Holding Torque on Specimen Frame was 2Nm.

The standard requires two Initial Tests be conducted on samples mounted in both Length and Width directions. Two further samples are then tested in whichever direction has the lowest Critical Radiant Flux.

Initial Tests: **Length** Direction Critical Radiant Flux **6.2** kW/m²
**Width** Direction Critical Radiant Flux **5.3** kW/m²

| | Specimen Tests conducted in the Width Direction | | | |
|---|---|---|---|---|
| | Specimen #1 | Specimen #2 | Specimen #3 | Mean |
| Critical Radiant Flux (kW/m²) | 5.3 | 5.7 | 6.4 | 5.8 |

*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 5.8 kW/m²

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

**ISO 9239-1:2010 Clause 10(o)** The test results 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 in use.
**All information required for compliance with the BCNZ is given on this test report page.**

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NATA ACCREDITED FOR TECHNICAL COMPETENCE

**M. B. Webb**
Technical Manager

DATE: 03 Jul 2017

Performance & Approvals
Accreditation No. 15393
**Accredited for compliance with ISO/IEC 17025.**

**APL Australia Pty Ltd**
5 Carinish Rd, Oakleigh South
Victoria 3167 Australia
Telephone: 03 9543 1618
Facsimile: 03 9562 1818
Mobile: 0411 039 088
Email: apl@aplaustralia.com.au
Web: www.aplaustralia.com.au
ABN 69 468 849 319

The information provided on this page of the test report is for the Sponsors Use Only and will meet the requirements of the standard. This page is Not Required and has No Validity under Clause C3.4 (b) (April 2012) of the New Zealand Building Code.
*The laboratory does not allow the use of this page of the report without the use of page 1.*



**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 | 193 | 194 | 276 | 319 | 372 | 412 | 496 | 551 | / | | | | | | | | | |
| 2 | 245 | 246 | 323 | 411 | 486 | 583 | 741 | 881 | / | | | | | | | | | |
| 3 | 195 | 196 | 270 | 324 | 358 | 391 | 502 | / | | | | | | | | | | |

**TESTS** **BURNING CHARACTERISTICS**

| Specimen | Burn Length (mm) at Flame Out/ Extinguishment | Time To Burn Out (s) |
|---|---|---|
| Initial Test: **Length** | **350** | **859** |
| Specimen Tests: **Width** | | |
| **1** | **390** | **872** |
| **2** | **370** | **978** |
| **3** | **340** | **814** |
| **Mean** | **367** | **888** |

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Victoria 3167 Australia

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Mobile: 0411 039 088

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