

CUSTOMER REFERENCE
TORNADO

Sample description as provided by customer

Order No. **PO 27577**

Pile weight mass/unit area **22 oz/yd²**

Pile Fibre Content **100% RESISTAIN SOLUTION DYED NYLON**

Construction Details **Tufted** Secondary Backing **Synthetic**

Colour **Various**

Style **Loop Pile**

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 **Mar 2017**

Test Date **16 Mar 2017**

ASSEMBLY SYSTEM: OVER UNDERLAY DUNLOP EXCELLAY .

The UNDERLAY used was **DUNLOP EXCELLAY**.

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 **4.2 kW/m²**
Specimen 1 Width Direction Critical Radiant Flux **4.1 kW/m²**
Full tests carried out in the **Width** Direction


SPECIMEN	Width #1	Width #2	Width #3	Mean
Critical Radiant Flux (kW/m ²)	4.1	3.1	3.5	3.6
Smoke Development Rate (%.min)	158	207	213	193

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/m²

MEAN SMOKE DEVELOPMENT RATE 193 percent-minutes


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



M. B. Webb
Technical Manager

DATE: 16 Mar 2017

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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	137	138	147	172	207	253	305	376	583	1065	/							
2	172	173	191	221	270	384	439	553	595	749	876	/						
3	151	152	157	164	179	194	274	304	378	880	/							

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: Length	450	1,109	39	173
Specimen Tests: Width				
1	460	1,208	38	158
2	530	1,236	47	207
3	500	1,234	49	213
Mean	497	1,226	45	193



ACCREDITED FOR
**TECHNICAL
COMPETENCE**



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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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