SPECIFICATION SOLUTIONS

# POWDER COATINGS

# **PROTEXTURE**

TEXTURED RANGE





Reaction to fire test results



Worth doing, worth Dulux.

## Worth doing, Worth Dulux.®

## **PROTEXTURE**

TEXTURED RANGE

Two industry standard 'reaction-to-fire' tests have been carried out for the Dulux Protexture textured powder coat range in accordance with the Australian and New Zealand building codes to determine the Group Number Classification, Spread of Flame and Smoke Developed Indices.







#### Test results

	المواد	istry Standard: AS/N7	S1530 3_10		
Industry Standard: AS/NZS1530.3-1999  Methods for fire tests on building materials, components and structures Part 3: Simultaneous determination of ignitability, flame propagation, heat release and smoke release					
Standard	the assessment of b	ts out a test method for (a) their tendency to propagate flame; and (b) their tendency to release smoke.  (c) the heat they release once ignition has occurred; and e progress of fire and further (d) their tendency to release smoke.			
Purpose	Dulux Powder Coatings has undertaken independent testing in accordance with AS/NZS 1530.3 -1999 allow consumers and/or regulatory bodies to determine the suitability of its architectural grade coating sys for aluminium coated extrusions, sheets, claddings, fixings, components, etc with regards to the fire hazard the coating.				
	The test results outlined below are specific to Dulux Protexture textured highly durable polyester architectural grade powder coat finishes.				
Regulatory Indices	Index	Spread of Flame Ind	ex	Smoke Developed Index	
	Range	(O-1O)		(O-1O)	
	Score	0		3	
Results Analysis	According to NCC (National Construction Code) volume one specification C1.9 e (v) of the Building Code of Australia (BCA) 2019, Protexture textured range may be used wherever a non-combustible material is required on pre-finished or powder coated metal sheeting having a combustible surface finish not exceeding 1 mm thickness and where the Spread-of-Flame Index of the product is not greater than 0.				
	The specimen was tested on a Group 4 (least reactive) substrate as specified by Clause 4.4.3 of AS1530.3:1999. These results only apply to any substrate in the same group or a less reactive material.				
	The results of this fire test may be used to directly assess fire hazard, but it should be recognized that a single test method will not provide a full assessment of fire hazard under all fire conditions.				

	Industry Standard: ISO 5660	Parts 1 and 2			
	Determination of Fire Hazard Properties -	· Wall & Ceiling linings			
Standard	The Standard sets out procedures for the assessment of wall & ceiling linings to provide means for the determination of a Group Number Classification according to:	<ul> <li>(a) their tendency to ignite;</li> <li>(b) their tendency to release heat once ignition has occurred;</li> <li>(c) their tendency to cause flashover;</li> <li>(d) their tendency to release smoke; and</li> <li>(e) their contribution to fire growth.</li> </ul>			
	Dulux Powder Coatings has undertaken independent testing to determine the Group Number Classification				
Purpose	Group Number Classification in accordance with the New Zealand Building Code Calculations were carried out according to NZBC Verification Method C/VM2 Appendix A. The classification for the sample is given in the table below.				
	Group Number Classification in accordance with NCC Australia Calculations were carried out according to AS5637.1:2015. The Group Number Classification and Average Smoke Extinction Area for the sample is given in the table below.				
	Determination of Fire Hazard Properties  The specimen was deemed suitable for testing in accordance with AS 5637.1:2015 and testing was performed in accordance with ISO 5660 for the purposes of Group Number Classification as specified in the NCC volume one specification C1.10 C (viii) of the Building Code of Australia (BCA) 2019 for the classification of wall and ceiling linings.				
	Building Code Document	Group Number Classification			
Results Analysis	NZBC Verification Method C/VM2 Appendix Establishing Group Numbers for lining materio	A: 1.S			
	NCC Volume One Specification C1.10 C (v determined in accordance with AS 5637.1:20	iii) The average specific extinction area was less than the 250 m²/kg limit			
	Group 1 is the highest (best) classification and Group 4 is the poorest performing classification.				
	The tests conducted according to the BCA assess the contribution that surface finishes make to the spread of fire and smoke to ensure that the building is protected from the spread of fire and smoke to allow sufficient time for the orderly evacuation of the building in an emergency.				

### **Further information**

#### **Detailed reports**

For a copy of the detailed independent test results for the Protexture textured powder coat range referred to in this document please contact your Dulux representative or call our Advice Line refering to the reports below.

	AS/NZS1530.3-1999	ISO 5660 Parts 1 and 2
Report Reference	AWTA Limited Product testing – Report No. 20-006652 (January 2021)	BRANZ – Report No. FH 13174-004 ISSUE 1 (2021)

#### **Standards**

For copies of the standards referenced in this document please refer to:.

	AS/NZS1530.3-1999	ISO 5660 Parts 1 and 2
Standards Reference	To access AS/NZS1530.3-1999 visit Australian or New Zealand Standards websites	To access ISO 5660 visit Australian or New Zealand Standards websites

#### Other Dulux reaction to fire test results

For other Dulux Architectural Powder coat range test reports for reaction to fire visit:

Australia: duluxpowders.com.au/specifications or call 13 24 99

New Zealand: duluxpowders.co.nz/specifications or call 0800 800 975

Our dedicated consultants can help simplify the specification process, saving you time and money by providing the right coating advice for your project. They can provide:

- Documented project specific specifications
- Written confirmation of your project's eligibility for an Alumi Shield™ or Steel Shield™ warranty
- Design, coating system and colour advice

For Australia call 13 24 99 or visit duluxpowders.com.au

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