SPECIFICATION SOLUTIONS

DURATECTM ELEMENTSTM TEXTURED RANGE



Reaction to fire test results



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Two industry standard 'reaction-to-fire' tests have been carried out for the DGL Duratec Elements textured premium 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.

> Project: TLC Aged Care. Architect: Baldasso Cortese Architects. Photo credit: Kane Jarrod Photography. Products: Duratec Elements Rojo (CustomColour), Duratec Elements Marron (CustomColour) and Duratec Elements Narania (CustomColour)



Test results

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 assessmen components to and contributio	t of building materials and	tendency to propagate flame; and tendency to release smoke.		
Purpose	DGL Powder Coatings has undertaken independent testing in accordance with AS/NZS 1530.3 -1999 to allow consumers and/or regulatory bodies to determine the suitability of its architectural grade coating systems for aluminium coated extrusions, sheets, claddings, fixings, components, etc with regards to the fire hazard of the coating. The test results outlined below are specific to DGL Duratec Elements textured super durable				
		polyester architectural grade powder coat finishes.			
	Index	Spread of Flame Index	Smoke Developed Index		
Regulatory Indices	Index Range	Spread of Flame Index (0 <i>-</i> 10)	Smoke Developed Index (0-10)		
Regulatory Indices					
	Range Score According to N Building Code o a non-combust combustible su	(0-10)	(0-10) 3 one specification C1.9 e (v) of the s textured range may be used wherever powder coated metal sheeting having a		
Regulatory Indices	Range Score According to N Building Code of a non-combust combustible su the product is n The speciment	(0-10) 0 CC (National Construction Code) volume of Australia (BCA) 2019, Duratec Elements ible material is required on pre-finished or urface finish not exceeding 1 mm thicknes not greater than 0. was tested on a Group 4 (least reactive) s 999. These results only apply to any subst	(0-10) 3 one specification C1.9 e (v) of the s textured range may be used wherever powder coated metal sheeting having a s and where the Spread-of-Flame Index of ubstrate as specified by Clause 4.4.3		



Industry Standard: ISO 5660 Parts 1 and 2					
Determination of Fire Hazard Properties – Wall & Ceiling linings					
Standard	The Standard sets out procedures for the	(a) their tendency to ignite;			
	assessment of wall & ceiling linings to provide means for the determination of a Group Number Classification according to:	(b) their tendency to release heat once ignition has occurred;			
		(c) their tendency to cause flashover;			
		(d) their tendency to release smoke; and			
		(e) their contribution to fire growth.			
	DGL 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.				
Results Analysis	Building Code Document	Group Number Classification			
	NZBC Verification Method C/VM2 Appendix Establishing Group Numbers for lining mate	x A: 1.S			
	NCC Volume One Specification C1.10 C (vi determined in accordance with AS 5637.1:2				
	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 DGL Duratec Elements textured powder coat range referred to in this document please contact your DGL representative or referring to the reports below.

	AS/NZS1530.3-1999	ISO 5660 Parts 1 and 2
Report Reference	AWTA Limited Product testing – Report No. 20-006658 (January 2021)	BRANZ – Report No. FH 13174-001 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 DGL reaction to fire test results

For other DGL Architectural Powder coat range test reports for reaction to fire visit **dglpowders.com/spec-solutions**.



POWDER COATINGS

Advice

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

Simply visit dglpowders.com/contact-us

Offices

Australia

DGL International Powder Coatings 115 Pound Road West Dandenong South VIC 3175

T (61) 3 8787 4500

New Zealand

DGL International Powder Coatings 31B Hillside Road Glenfield, Auckland 0627

T (64) 4 896 0911

East China

DGL International Powder Coatings Room 417, Building 2, No.127, Lane127 Jinwen Road Zhuqiao Town, Pudong New District Shanghai, China 201323

T (86) 21 3825 8507

South China

DGL International Powder Coatings Room 505, Building 10, Li He Technology Park, 99 Tao Yuan East Road, Shi Shan Town, Nan Hai, Fo Shan, Guangdong, China 528200

T (86) 21 3825 8507

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