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DURATE

INTENSITY™ BRIGHT RANGE

Two industry standard 'reaction-to-fire' tests have been carried out for the DGL Duratec Intensity bright 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: Ferny Grove State High School - Block X, Queensland

Architect: arkLAB Architecture

Photo credit: Christopher Frederick Jones

Products: Duratec Intensity in Sunshine, Leaf, Evergreen, Reef, Coast, Storm and Desert.

Dulux Australia and New Zealand Colour Awards 2020 Finalist:







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	This Standard sets out a test method for the assessment of building materials and components to measure their behaviour and contribution to the progress of fire and further spread of it. These include: (a) their tendency to propagate flame; and (b) their 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 Intensity bright super durable polyester architectural grade powder coat finishes.				
	Index	Spread of Flame Index	Smoke Developed Index		
Regulatory Indices	Range	(0-10)	(0-10)		
	Score	0	2		
	1		_		
	Building Code of a non-combustion a combustible s	CC (National Construction Code) volume of Australia (BCA) 2019, Duratec Intensity I ble material is required on pre-finished or parface finish not exceeding 1 mm thickness not greater than 0.	ne specification C1.9 e (v) of the oright range may be used wherever bowder coated metal sheeting having		
Results Analysis	Building Code of a non-combusting a combustible sof the product in the specimen when the specimen when the specimen where the specimen when the specimen where the specimen which was the specimen where the specimen which which was the specimen which was the specimen which which was the specimen which was the specim	of Australia (BCA) 2019, Duratec Intensity In the material is required on pre-finished or presurface finish not exceeding 1 mm thickness not greater than 0. The vas tested on a Group 4 (least reactive) sure 99. These results only apply to any substrate.	ne specification C1.9 e (v) of the oright range may be used wherever bowder coated metal sheeting having as and where the Spread-of-Flame Index bstrate as specified by Clause 4.4.3		

	Industry Standard: ISO 5660	Parts 1 and 2		
	Determination of Fire Hazard Properties			
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:	(a) their tendency to ignite;		
		(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 mater			
	NCC Volume One Specification C1.10 C (vii 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 Intensity bright powder coat range referred to in this document please contact your DGL representative or refering to the reports below.

	AS/NZS1530.3-1999	ISO 5660 Parts 1 and 2
Report Reference	AWTA Limited Product testing – Report No. 21-006329 (January 2022)	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**

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