

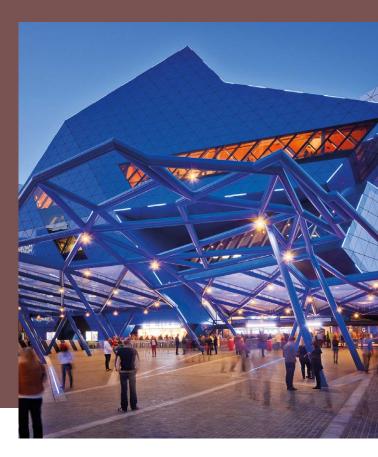
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# **FLUOROSET**

ALLURE™ PEARLESCENT RANGE

Two industry standard 'reaction-to-fire' tests have been carried out for the DGL Fluoroset Allure pearlescent 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: Perth Arena, Perth
Architect: ARM Architecture and Cameron Chishom Nicol
Photo credit: Greg Hocking Photography
Product: Fluoroset Xtreme in Black







### **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 contribution	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 Fluoroset Allure pearlescent ultra-durable fluoroplymer architectural grade powder coat finishes.				
	Index	Spread of Flame Index	Smoke Developed Index		
Regulatory Indices	Index Range	Spread of Flame Index (0-10)	Smoke Developed Index (0-10)		
Regulatory Indices		·	·		
Regulatory Indices	Range Score According to N Code of Austra non-combustible a combustible	(0 <i>-</i> 10) 0	(0-10) 2 one specification C1.9 e (v) of the Building nt range may be used wherever a owder coated metal sheeting having		
Regulatory Indices  Results Analysis	Range Score  According to N Code of Austra non-combustible a combustible of the product The specimen of	(0-10)  O  CC (National Construction Code) volume of the construction Code) volume of the construction Code) volume of the construction of the con	(0-10) 2 one specification C1.9 e (v) of the Building ont range may be used wherever a owder coated metal sheeting having ss and where the Spread-of-Flame Index ubstrate as specified by Clause 4.4.3		

	Industry Standard: ISO 5660	Parts 1 and 2			
Determination of Fire Hazard Properties - Wall & Ceiling linings					
	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;			
		<ul><li>(b) their tendency to release heat once ignition has occurred;</li></ul>			
Standard		(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 Fluoroset Allure pearlescent powder coat range referred to in this document please contact your DGL 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. 20-006654 (January 2021)	BRANZ – Report No. FH 13174-005 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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