

WARRANTY SOLUTIONS

Protection for Aluminium



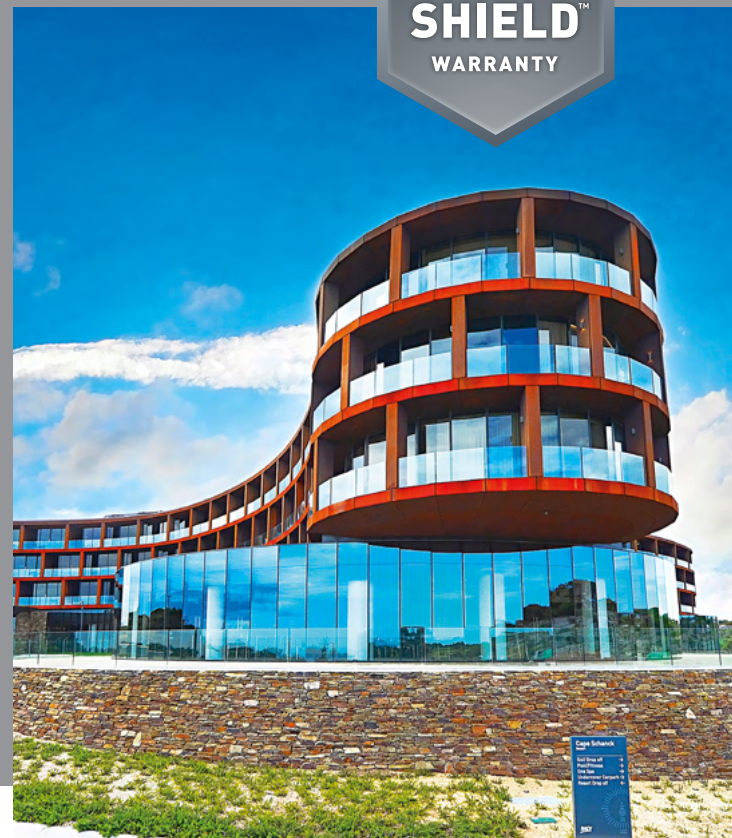
DGL
INTERNATIONAL

**POWDER
COATINGS**

DGL Powder Coatings are an ideal choice for the long term protection of architectural aluminium items for your next project and provide assurance through the issue of Alumi Shield™ warranties.

Warranties are only valid when applied by a DGL Accredited Powder Coater to the warranty specification on recommended project types and conditions.

Project: RACV Cape Shanck Resort, Victoria, Australia
Architect: Wood-Marsh Architecture
Builder: Kane Constructions
Photo credit: Kane Jarrod Photography



Suitable substrates

DGL Alumi Shield™ warranties are available for architectural aluminium applications, including perforated and expanded aluminium, on approved specifications when applied by a DGL Accredited Powder Coater to the warranty specification for the following project types:

	NON-HABITABLE	RESIDENTIAL <4 LEVELS	RESIDENTIAL >3 LEVELS	LIGHT COMMERCIAL <4 LEVELS	COMMERCIAL >3 LEVELS	PRESTIGIOUS COMMERCIAL	MONUMENTAL
INTERIOR	•	•	•	•	•	•	•
EXTERIOR	•	•	•	•	•	•	•

- Non-habitable projects are those that are not dwelling types. Examples can be furniture, bus shelters, signage etc.
- Residential properties < 4 levels are typically easy to maintain, given their height and access.
- Light commercial projects < 4 levels are sheltered from neighbouring buildings, but require greater durability due to higher usage and wear.
- High-rise residential and commercial projects are less sheltered from neighbouring buildings, raising their exposure and reducing their ease of maintenance.
- Prestigious commercial projects attract attention and require high quality finishes to uphold the longevity and design requirements.
- Monumental projects attract the most attention and have the highest standards required to uphold the reputation and protection expected from landmark sites.

Warranty benefits

A DGL Alumi Shield™ warranty is made up of two key components, a colour warranty (for fade and chalking) and a durability warranty (film integrity).

Durability Warranty		Colour Warranty	
	The Alumi Shield™ Durability warranty is your assurance of film integrity. The powder coating will not peel, crack or flake for the warranty period from the date the product is applied to the metal.		The Alumi Shield™ Colour warranty is your assurance that the colour integrity will be maintained. It is made up of two components: • Fade¹ • Chalk²

Terms and conditions apply

- DGL Alumi Shield™ warranties are your assurance that the coating will not:
 - › **Fade** – Colour fade testing will give a delta E (Hunter) laboratory reading less than five units from the original colour in accordance with ASTM D2244.
 - › **Chalk** – Not exceed a rating of 2 for whites & pastels and a rating of 3 for deep colours as assessed in accordance with AS1580.481.1.11 test method.
- The Alumi Shield™ durability warranty is your assurance the powder coating won't peel, crack or flake for the warranty period from the date the product is applied to the metal.
- Warranties are only valid when applied by a DGL Accredited Powder Coater to the warranty specification on recommended project types and conditions. The Alumi Shield™ warranty is only valid if maintained within the recommended Care and Maintenance Guidelines.
- The DGL Alumi Shield™ warranty is a warranty in relation to the relevant DGL products to which it relates. DGL Alumi Shield™ warranty does not cover the services required for application.

All DGL premium powder coat products are backed by product specific Alumi Shield™ warranties. Below is an overview of the warranty periods by product available from DGL

	Warranty	Fluoraset	Electro	Charisma	Duratec	Protecture	Duralloy
Alumi Shield™ Warranty	Aluminium Durability	35 Years	25 Years	25 Years	25 Years	15 Years	10 Years
	Aluminium Colour	30 Years	15 Years	15 Years	20 Years*	15 Years	10 Years

* Excludes Intensity – 15 Years.

Important design considerations

DGL Alumi Shield™ warranties are available on a wide range of fabricated architectural aluminium items, but those items must be designed, prepared (pre-treated), coated, fabricated and installed to standard ensuring that the item is fully protected.

It is essential that any item that is coated must be designed and fabricated to ensure:

- **It meets key standards** – Refer to AS 2312.1 and the relevant building code.
- **Protection is a key consideration at the early stages of design** – The design should allow the item to be prepared for coating correctly and that the minimum thickness of the specified coating can be achieved.
- **Uncoated areas are appropriately sealed to last the duration of the warranty** – It is essential that the choice of other materials that contribute to protection of uncoated areas such as sealants, should be made to ensure that an Alumi Shield™ warranty is not void due to the sealant's failure. When aluminium items are exposed to interior and exterior environments, it is essential that should only one side of a section of metal be coated, it is appropriately sealed or if a section is cut exposing the raw metal, it must be sealed with an appropriate small joint sealant to protect the non-coated area from the environment, i.e. not exposed to moisture, air and excessive heat. Should the seal fail, and a claim is made for an Alumi Shield™ warranty project the warranty for the area affected will be void as the integrity of the seal is not the responsibility of DGL.
- **The following design elements are avoided** – Narrow crevices, poor air circulation, depressions, sharp edges and corners, large flat ledges (not window ledges), intermittent welding, undrained flat surfaces, unsealed hollow sections, flat surfaces in loose contact where moisture may be drawn in between them by capillary action or where water and foreign matter will lodge, as these areas may result in premature failure of the coating system.
- **Failure caused by post formed or post fabrication processes are avoided** – Please be aware warranties shall not apply to areas where a failure is caused from post formed or post fabrication processes, such as metal perforation, welding, cutting, drilling or any other circumstances beyond the reasonable control of DGL. Many post fabrication processes can impede achievement of a continuous layer of pre-treatment and the minimum film build of powder coating. Where there is doubt please consult the relevant guideline or regulation such as the building code or window association for information on mitigating any potential damage that could be caused by post fabrication processes.

Please refer to our warranty examples where you can review all terms and conditions. These are available by visiting dglpowders.com

Project suitability

It is important to define your project correctly to ensure the correct standard of product is specified and the performance and warranty is able to be gained for your project.

Product suitability by project

Use the following table to help identify the product choice you have to gain an Alumi Shield™ warranty on your project. Refer to the conditions information to determine the environment that your project will be exposed to.

Project, Environment and Conditions			Fluoraset ¹		Electro ²	
Project Type	Environment	Conditions	Durability Warranty	Colour Warranty	Durability Warranty	Colour Warranty
Monumental	Exterior	Mild, Severe	35 Years	30 Years	–	–
Prestigious Commercial	Exterior	Mild, Severe	35 Years	30 Years	25 Years	15 years
Commercial Developments (>3 Levels)	Exterior	Mild, Severe	35 Years	30 Years	25 Years	15 years
Light Commercial Developments (< 4 Levels)	Exterior	Mild, Severe	35 Years	30 Years	25 Years	15 years
Residential (>3 levels)	Exterior	Mild, Severe	35 Years	30 Years	25 Years	15 years
Residential (<4 levels)	Exterior	Severe	35 Years	30 Years	25 Years	15 years
Residential (<4 levels)	Exterior	Mild	35 Years	30 Years	25 Years	15 years
Non Habitable	Exterior	Severe	35 Years	30 Years	25 Years	15 years
Non Habitable	Exterior	Mild	35 Years	30 Years	25 Years	15 years
All Projects	Interior	Moderate Interior	35 Years	30 Years	25 Years	15 years
All Projects	Interior	General Interior	35 Years	30 Years	25 Years	15 years

* Duratec Intensity – Colour Warranty 15 Years.

Alumi Shield™ warranties

- Alumi Shield™ warranties are available, in line with the following stipulations:
- Alumi Shield™ warranties are available when applied by a DGL Accredited Powder Coater to the warranty specification on recommended project types and conditions
- All DGL powder products are NOT suitable in strongly acidic or caustic environments, so the pH must be between 5 and 9.

Impact of distance to coastal, river and lake salt water environments

- Fluoraset may be suitable in locations <10m from the high tide line e.g. harbours (contact DGL for advice).
- Electro, Charisma, Duratec and Protecture are only suitable for environments >10m from the high tide line.
- Duralloy is only suitable for environments >100m from the high tide line.

Conditions

Use the following table which references AS 2312.1, AS 4312 and ISO 9223 to identify the environment, conditions and atmospheric corrosivity categories. To pinpoint your project's corrosivity zone this table should be used together with the corrosivity zone maps contained within AS 4312.

Environment	Conditions	Corrosivity Zone	Aluminium Corrosion Rate (g/m ²) ³	Example Environments
Exterior Environment	Mild	C2 Low	≤ 0.6	Arid, dry, urban, inland, city
		C3 Medium	0.6 – ≤ 2.0	Light Industrial, geothermal (>500m from source) ¹ and inland coastal (mild sea spray zone)
	Severe	C4 High	2 – ≤ 5	Sea shore (medium sea spray zone), offshore Islands and or geothermal (<500m from source) ²
		C5 Very High Marine & Industrial	5 – ≤ 10	Sea shore (high sea spray zone e.g. surf), offshore Islands and heavy industrial

For more information about specifications visit dglpowders.com



Top Coat Choice							
Charisma ²		Duratec ²		Protecture ²		Duralloy ³	
Durability Warranty	Colour Warranty	Durability Warranty	Colour Warranty	Durability Warranty	Colour Warranty	Durability Warranty	Colour Warranty
–	–	–	–	–	–	–	–
25 Years	15 years	25 Years	20 Years*	–	–	–	–
25 Years	15 years	25 Years	20 Years*	–	–	–	–
25 Years	15 years	25 Years	20 Years*	15 years	15 years	–	–
25 Years	15 years	25 Years	20 Years*	–	–	–	–
25 Years	15 years	25 Years	20 Years*	15 years	15 years	–	–
25 Years	15 years	25 Years	20 Years*	15 years	15 years	10 Years	10 Years
25 Years	15 years	25 Years	20 Years*	15 years	15 years	–	–
25 Years	15 years	25 Years	20 Years*	15 years	15 years	10 Years	10 Years
25 Years	15 years	25 Years	20 Years*	15 years	15 years	–	–
25 Years	15 years	25 Years	20 Years*	15 years	15 years	10 Years	10 Years

Perforated and expanded aluminium

Alumi Shield™ warranties on perforated and expanded aluminium are available for products recommended for the indicated projects, environments and conditions above. Powder primers may be necessary as detailed below:

- Interior** – General interior conditions (E-Prime base coat not mandatory); Moderate Interior (E-Prime base coat mandatory).
- Exterior** – Mild (E-Prime base coat not mandatory); Severe: (E-Prime basecoat mandatory).

Other considerations

All DGL powder products are NOT suitable in strongly acidic or caustic environments so the pH must be between 5 and 9.

Please refer to the advice on page 6 for warranty implications where powder coatings may be in close proximity to:

- Liquids other than coastal, river and lake salt water environments.
- Geothermal environments.

Environment	Conditions	Corrosivity Zone	Aluminium Corrosion Rate (g/m ²) ³	Example Environments
Interior Environment	General Interior	C1 Very Low	Negligible	Dry interiors (homes, offices, shops)
		C2 Low	≤ 0.6	Minor condensation (warehouses, sports halls)
	Moderate Interior	C3 Medium	0.6 – ≤ 2.0	High moisture (dairy and food processing plants, breweries, and commercial laundries)
		C4 High	2 – ≤ 5	Significant contamination (swimming pools)

- Geothermal environments greater than 500m of a bore, mud pool, steam vent, or other source with a pH between 5 and 9. For a pH outside this consult DGL.
- Geothermal hot spots within 500m of a bore, mud pool, steam vent, or other source.

- The corrosion rates for the first year of exposure for the different corrosivity categories of aluminium are determined by the following standard:
 - ISO 9223 – Corrosion of metals and alloys – Corrosivity of atmospheres – Classification, determination and estimation.

Important warranty considerations

Your warranty can also be impacted by its proximity to liquids other than coastal, river and lake salt water environments and geothermal environments. A regular care and maintenance program must be implemented for warranty compliance.

Environments close to liquids other than coastal, river and lake salt water environments

Please refer to the guidance below for your product choice and to understand the warranty limitations in all environments where powder coated assets are close to liquids other than coastal, river and lake salt water environments (e.g. near swimming pools, fountains, or showers).

	Chemically Treated ¹	Clean Tap, Fresh or Potable Water	Salt Water ¹	Other
Fluoraset	◆	●	◆	Seek advice from DGL
Electro	◆	●	◆	
Charisma	◆	●	◆	
Duratec	◆	●	◆	
Protecture	◆	●	◆	
Duralloy	○	●	✓	

1. Aggressive liquids such as chemically treated liquids and salt water must be cleaned off immediately as per the DGL Care and Maintenance guide. Please note chemically treated water includes antimicrobial treatments, e.g. in pools, anti-corrosive chemicals, and soapy water in bathrooms and showers.

- ◆ Where indicated Alumi Shield™ warranties are available on areas >than 1m from the liquid.
- ✓ Where indicated Alumi Shield™ warranties are available on areas >than 2m from the liquid (i.e. outside the splash zone).
- Where indicated Alumi Shield™ warranties are available on areas > than 1m from the liquid on interior applications and > than 2m on exterior applications.
- Where indicated Alumi Shield™ warranties are available any distance from the liquid.

All DGL powder products are NOT suitable in strongly acidic or caustic environments so the pH must be between 5 and 9.

Alumi Shield™ warranties are not available if the powder coating is immersed in any liquid.

Geothermal considerations

For powder coated assets close to geothermal zones, the choice of product is dependent on the level of geothermal activity and specifically the distance from the geothermal source. For those close to geothermal activity (within 500m of the source) powder coating products that are highly durable, super durable or ultra-durable can be considered. For areas that are more than 500 metres beyond the geothermal source, and have been assessed using the smell test as having minimal or non-existent geothermal influence, the standard corrosion zones and distance from liquid or salt water environments apply.

*Distance to Geothermal Environment	Fluoraset	Duratec	Electro	Charisma	Protecture	Duralloy
Less than 500m from source	✓	✓	✓	✓	✓	✗
Greater than 500m from source	✓	✓	✓	✓	✓	✓

* Distance from bore, mud pool, steam vent, or other source with a pH between 5 and 9. For a pH outside this consult DGL.

Heavy Industrial Mirco Environments

Please note that the atmospheric corrosivity zone can be superseded for some commercial projects, e.g. airports and manufacturing sites, due to localised influencing factors such as:

- Levels of atmospheric pollution, including salts, dirt, and grime, can all accumulate over time.
- Winds carry airborne debris that can cause erosive wear of the coating, e.g. sand causing abrasion.

Care and Maintenance

Care and Maintenance is essential for warranty compliance

To ensure the life of your asset is maximised and to comply with DGL Alumi Shield™ warranty requirements, a simple and regular maintenance program must be implemented and recorded in line with the DGL Care and Maintenance of Powder Coated Surfaces brochure.

For more information refer to the DGL Care and Maintenance of Powder Coated Surfaces brochure visit dglpowders.com/tech-advice



Technical requirements for Alumi Shield™ warranty

AAMA Standards

With over 50 years of experience, the AAMA (American Architectural Manufacturer's Association) is regarded as the standards leader for finishes on architectural aluminium. The AAMA objective is to develop and improve quality standards, encourage research & development and set benchmarks for product performance of architectural products. For finishing of architectural aluminium, DGL recommend three internationally recognised AAMA standards, AAMA 2603, 2604 and 2605 for projects types across all BCA Classes.

Project, Environment and Conditions			AAMA Standard			
Project Type	Environment	Conditions	Meets AMMA 2605	Meets AAMA 2604	Exceeds AAMA 2603	Meets AAMA 2603
Monumental	Exterior	Mild, Severe	●			
Prestigious Commercial	Exterior	Mild, Severe	●	●		
Commercial Developments (>3 Levels)	Exterior	Mild, Severe	●	●		
Light Commercial Developments (< 4 Levels)	Exterior	Mild, Severe	●	●	●	
Residential (>3 levels)	Exterior	Mild, Severe	●	●		
Residential (<4 levels)	Exterior	Severe	●	●	●	
Residential (<4 levels)	Exterior	Mild	●	●	●	●
Non Habitable	Exterior	Severe	●	●	●	
Non Habitable	Exterior	Mild	●	●	●	●
All Projects	Interior	Moderate Interior	●	●	●	
All Projects	Interior	General Interior	●	●	●	●

Specifying powder coatings that comply with one of the AAMA standards removes all doubt for the fabricator and applicator. The standards spell out the level of both colour performance and film properties required. The DGL powder coating products that meet or exceed these standards are shown below.

	Fluoroset	Electro	Charisma	Duratec	Protecture	Duralloy
AAMA 2605	●					
AAMA 2604	●	●	●	●		
AAMA 2603	●	●	●	●	○	●
Coating Type	Ultra Durable Fluoropolymer	Super Durable Polyester	Super Durable Polyester	Super Durable Polyester	Highly Durable Polyester	Durable Polyester

● Meets standard ○ Exceeds standard

DGL Accredited Powder Coaters

Only DGL Accredited Powder Coaters are able to issue our DGL Alumi Shield™ warranties after demonstrating their capability to meet stringent quality conditions and international standards. Warranties are only valid when applied by a DGL Accredited Powder Coater to the warranty specification on recommended projects, and subject to specified warranty terms and conditions.



For more information visit dglpowders.com/accredited



Advice

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™ warranty
- Design, coating system and colour advice

Call:

- Australia on 1800 025 226
- New Zealand on 0800 201 167
- China on (86) 21 3825 8507

Visit dglpowders.com

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