

PRODUCT SOLUTIONS

DURATEC™ ELEMENTS™



Duratec Elements are a range of distinctive, robust mar-resistant textured finishes built to withstand the elements, delivered with warranty grade advanced super durable polyester thermosetting powder.



- ✓ Super durable finish
- ✓ Excellent colour retention
- ✓ Mar-resistant

Suitable Substrates

Duratec Elements is ideal for warranty grade applications over:

- Architectural aluminium including perforated and expanded aluminium.

Duratec Elements can also be used on the following metals but these are not warranted:

- Steel (mild), bright/semi bright steel, black steel and blue steel.
- Galvanised steel, stainless steel, zincalume®, non ferrous metals.

Warranted Benefits

The DGL Duratec Elements range are supported by DGL Alumi Shield™ warranties when applied by a DGL Accredited Powder Coater to the warranty specification on recommended project types and conditions.

Alumi Shield Warranty™

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



Terms and conditions apply

- The Alumi Shield™ colour warranty is your assurance that Duratec Elements will not:
 - Fade** – Fade testing will not give a delta E (Hunter) laboratory reading greater than five units from the original colour.
 - Chalk** – The rate of chalking will 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 covers the powder coating peeling, cracking or flaking during 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.

For more information visit dglpowders.com/warranties

Meets International 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. DGL Duratec Elements is formulated to meet: AAMA 2603 and AAMA 2604 as well as Australian standard AS 3715.

For more information visit aamanet.org

Project Suitability

Project Types

Duratec Elements is ideal for most interior and exterior project types (incl. all BCA classes) on steel and aluminium.

							
	NON-HABITABLE	RESIDENTIAL ←4 LEVELS	RESIDENTIAL →3 LEVELS	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 are typically easy to maintain, given their height and access.
- High-rise projects are less sheltered from neighbouring buildings, raising their exposure and reducing their ease of maintenance.
- Monumental projects attract the most attention and have the highest standards required to uphold the reputation expected from landmark sites.

Project Suitability - Aluminium

Project Type	Environment	Conditions	Duratec Elements
Monumental	Exterior	Mild, Severe or Tropical	
Prestigious Commercial	Exterior	Mild, Severe or Tropical	●
Commercial	Exterior	Mild, Severe or Tropical	●
Residential	Exterior	Mild, Severe or Tropical	●
Non-Habitable	Exterior	Mild, Severe or Tropical	●
All Projects	Interior	Moderate Interior	●
All projects	Interior	General Interior	●

- Alumi Shield™ warranty available

Duratec Elements is only suitable for coastal environments > 10m from the high tide and is NOT suitable in strongly acidic or caustic environments so pH must be between 5 and 9.

Please refer to interior and exterior environments close to liquids for warranty implications where powder coatings may be in close proximity to liquids other than the sea.

Alumi Shield™ Warranties on perforated and expanded aluminium are available for Duratec Elements in the following environments:

- 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 and tropical: (E-Prime basecoat mandatory).

For more information about specifications on perforated and expanded aluminium visit dglpowders.com

Conditions

Use the following table which references AS2312.1 and AS3715 to identify the environment, conditions and atmospheric corrosivity categories.

Environment	Conditions	Corrosivity level & Zone	Former AS/NZ 2312 Category	Mild Steel Corrosion Rate ¹	Example environments
Exterior Environment:	Mild	Low (C2) Medium (C3)	B C	1.3 - 25 25-50	Arid, urban, inland city Industrial, geothermal ² and coastal
	Severe	High (C4), Very high (C5-M, C5-I)	D E-M, E-I	50-80 80-200	Sea shore (calm) Sea shore (surf), offshore Islands ³ & or heavy industrial
	*Tropical	Very high (T)	F	80-200	High, humid and monsoonal locations and islands ⁴
Interior Environments	General Interior	Very low(C1) Low (C2)	A B	<1.3 1.3-25	Dry interiors (offices, shops) Minor condensation (warehouses, sports halls)
	Moderate Interior	Medium (C3) High (C4)	C D	25-50 50-80	High moisture (food processing plants, breweries, dairies) Significant contamination (swimmings pools)

*Tropical projects - It is recommended to speak to a DGL Account Manager or call the advice line for all projects in Tropical locations.

1. Corrosion rate is for uncoated steel ref AS2312.1.

3. Offshore islands that are not tropical include Waiheke, Stewart Island, Fraser Island etc.

2. Geothermal environments with a PH>5 and <9. For PH outside this consult DGL.

4. Tropical islands include Australian Islands north of Mackay and Pacific islands such as PNG, Fiji, Samoa, Tonga.

Project Suitability - Steel

Use the following table to help identify where Duratec Elements can be applied on steel projects and the recommended system required. Refer to the conditions information to determine the environment that your project will be exposed to.

Corrosion Category			Primer System		Top Coat
Project Type	Environment	Conditions (incl Corrosivity Level)	Zincshield	E-Prime™	Duratec Elements
Prestigious Commercial	Exterior	Severe or Tropical (High to very high)	✓	✓	●
Prestigious Commercial	Exterior	Mild (Medium)	✓ ¹	✓ ²	●
Prestigious Commercial	Exterior	Mild (Low)	✓		●
Commercial Developments	Exterior	Severe or Tropical (High to very high)	✓	✓	●
Commercial Developments	Exterior	Mild (Medium)	✓ ¹	✓ ²	●
Commercial Developments	Exterior	Mild (Low)	✓		●
Residential	Exterior	Severe or Tropical (High to very high)	✓	✓	●
Residential	Exterior	Mild (Medium)	✓ ¹	✓ ²	●
Residential	Exterior	Mild (Low)	✓		●
Non Habitable	Exterior	Severe or Tropical (High to very high)	✓	✓	●
Non Habitable	Exterior	Mild (Medium)	✓ ¹	✓ ²	●
Non Habitable	Exterior	Mild (Low)	✓		●
All Projects	Interior	Moderate Interior (High)	✓	✓	●
All Projects	Interior	Moderate Interior (Medium)	✓ ¹	✓ ²	●
All Projects	Interior	General Interior (Very low to low)	✓		●

Duratec Elements is only suitable for coastal environments >10m from the high tide and is NOT suitable in strongly acidic or caustic environments so pH must be between 5 and 9.

1. In Mild (Medium) exterior and Moderate Interior (medium) environments a Zincshield and Duratec Elements system can be used.
2. In Mild (Medium) exterior and Moderate Interior (medium) environments a Zincshield, E-Prime and Duratec Elements system is highly recommended.

It is recommended to speak to a DGL Account Manager for all C5 projects.

Interior and exterior environments close to liquids other than the sea

For powder coated assets close to liquids other than the sea, e.g. fences near swimming pools, fountains, bathrooms or furniture etc, please refer to the guidance below to understand the warranty limitations in these environments.

	1 Chemically Treated	Clean Tap, Fresh or Potable Water	Salt Water	Other
Duratec Elements	■	●	■	Seek advice from DGL

1. 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 2m from the liquid (ie outside the splash zone).
- 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 pH must be between 5 and 9.

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

Care and Maintenance

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

For more information refer to the DGL Powders Care and Maintenance brochure available at dglpowders.com.au/tech-advice

Product Summary

Product Features

Product Features	
Warranties	Alumi Shield™ available - refer to Warranted Benefits.
Technology	Super durable polyester thermosetting powder.
Look	Textured.
Finish	Flat Finish.
Colour range	Available in a range of 8 core colours, across two distinct collections: <ul style="list-style-type: none">• Solid Collection - A collection of 4 popular Colorbond® solid colours.• Industrial Collection - A collection of 4 on-trend, authentic industrial metallic looks. View the range in DGL Colour Selectors, on Aluminium Swatches, or online. Cards and swatches can be ordered from dglpowders.com . If you cannot find the colour you require DGL can offer a Custom Colour Service. For more information visit dglpowders.com
Standards met	Formulated to meet: AS 3715, AAMA 2603 and AAMA 2604
Product Benefits	
Colour retention	<ul style="list-style-type: none">• Excellent colour retention.
Durability	<ul style="list-style-type: none">• Super durable finish.
Mar Resistant	<ul style="list-style-type: none">• Ideal for areas where additional mar-resistance is critical.• Potential for a reduction in visible damage in transport, fabrication, construction and service life.
Look	<ul style="list-style-type: none">• Long lasting distinctive flat textured finish.

Securing your Warranty

Request a Specification

Our dedicated and knowledgeable specification consultants can help simplify the specification process, saving you time and money by ensuring you achieve the best coating specification for the job. 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.
- Colour samples

For information visit dglpowders.com

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. Every project they complete is audited and samples are tested at our Australian and New Zealand technical centres to ensure they meet the strict standards required to gain a DGL warranty.



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For information visit dglpowders.com/accredited

The project: 1 Collins Wharf
Location: Melbourne, Australia

Photo credit: Sean McDonald

Advice Line

Our dedicated consultants can help simplify the specification process, saving you time and money by providing the right coating advice for your project. Visit dglpowders.com/contact-us

Offices

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