



ANODISED **SOLIDAL®**
SOLID ALUMINIUM FAÇADE SOLUTION
World class anodise finish



PPAG Architects Steirereck Restaurant , Vienna, Austria
SOLIDAL® Top Bright® Mirror

5052H24 **SOLIDAL®** Top Bright® Mirror (High Reflective)

Anodising: Optional 5052 AP1 AAMG or 5005H14 SOLIDAL®

Anodise thicknesses of at least 10µm for indoor and 20/25µm for outdoor applications are recommended, depending on exposure.

Detailed requirements for each application should be discussed with the customer before the anodizing specification is finalised. Anodizing carried out by one firm to ensure batch uniformity.

As is usual practice, we recommend limiting samples are agreed to define acceptable process-related variations in gloss and colour.

Watermark® offers a range of Reflective and Structural Surfaces:

- > Top Bright® Mirror
- > Satin
- > Bead Blasted
- > Brushed

SOLIDAL® VIZFix® System

Abrasive resistant / Superior anodise finish / 100% recyclable

SOLIDAL® anodised

Natural beauty, outstanding durability

Specific process parameters of real metal anodising and sustainability of the environment are key underlying strengths of the new **SOLIDAL®** façade solution. The AAF Evershield Coastal Anodise finish offers outstanding durability, over a 100 Year Life Cycle, making the Watermark® **SOLIDAL®** façade solution, both Non Combustible and 100% recyclable.





red dot design award
honourable mention



AAF advanced new Illustro finishes

With the Addition of the Illustro series, the Evershield Range has now broadened into 3 lustres.

Matt: The traditional Matt series combining a timeless and natural matt lustre.

Illustro: The exclusive new Evershield Illustro series is cleverly designed to subtly reflect with the changing light conditions throughout the day creating a fusion with natural building elements and rendered finishes.

Bright: The Bright series is just brilliant. A classic polished metal finish that stands the test of time.

SOLIDAL®

Abrasive resistant / Superior anodise finish / 100% recyclable
German awarded design façade fixing system

SOLIDAL®

MIRVAC YARRA'S EDGE TOWER 5

A classic anodising façade to stand the test of time
Evershield® – Portland Stone; Platinum; Sea Breeze





Through specific process parameters and controls Evershield® offers outstanding hardness and durability

- > Key Features of AAF Evershield High Grade Anodising finish
- > Uses world Leading technology true Metal Inorganic colouring
- > Is Non Abrasive with outstanding hardness making it ideal for use at high altitude and repels abrasive sands during the most severe windstorms
- > Anodising retains its natural beauty as anodizing is a conversion of the real metal itself with incredible hardness and excellent protection of the metal
- > Exceeds AAMA611 and AS1231 Performance Standards
- > Exclusive AAF 30 Year Evershield Coastal Marine Warranty
- > Anodic treatment may accentuate any lack of homogeneity or differences in metallurgical condition of the aluminium. As a result, some non-uniformity of appearance may be encountered on different areas of a component and/or between different batches of material of the same specification, or where certain welding processes have been used.

Colours to Inspire

ILLUSTRO & BRIGHT

| | | | | | | |
|------------------------|----------------------|-----------------------|-----------------------|--------------------------|---------------------|-------------------------|
| PALLADIUM COIN (E87CL) | AZTEC SILVER (E68NL) | MONACO STONE (E65TL) | BOLD AS BRASS (E58TL) | MEDALLION BRONZE (E44TL) | MACCHIATO (E36TL) | BRONZE MONUMENT (E30TL) |
| | | BRIGHT | BRIGHT | BRIGHT | BRIGHT | BRIGHT |
| GUN BARREL (E25TL) | GOLD ODYSSEY (E78GL) | DIAMOND LIGHT (E87CG) | MOONBEAM (E74NG) | SMOKEY QUARTZ (E60TG) | SMOOTH ONYX (E25TG) | BURNISHED GOLD (E80GG) |



All Evershield® Anodising is supported by a 30 Year Performance Warranty*, see website for more information. Colours are indicative only, refer to Evershield swatches for a better representation of appearance.

All 27 displayed colours are 'True Metal' coloured, so are exterior durable.

MATT

| | | | | | | |
|----------------------------|----------------------|-------------------|----------------------|------------------------|------------------------|---|
| PLATINUM (E87CM) | STELLA GREY (E78NM) | STAR DUST (E70NM) | APOLLO GREY (E66NM) | SEA BREEZE (E67TM) | PORTLAND STONE (E60TM) | AMBER GOLD (E42TM) |
| JAMAICAN CHOCOLATE (E35TM) | BURNT SIENNA (E29TM) | EBONY (E26TM) | SUMMER MAIZE (E82GM) | SOVEREIGN GOLD (E78GM) | MAROOCHY SAND (E74GM) |  EVERSHIELD® HIGH GRADE ANODISING |

Technical Specifications

| SOLIDAL® | | |
|--|--------------------------------------|---------------------------|
| Panel Thickness (mm) | 3mm, 4mm | |
| Available width (mm) | 1240mm, 1500mm, 2000mm | |
| Length (mm) | up to 7000mm | |
| SOLIDAL® DIMPLE, PERFORATED & LASER CUT | | |
| Panel Thickness (mm) | 3mm, 4mm | |
| Dimpled Percentage | 10%, 20%, 40% | |
| Diameter Options (mm) | 15mm, 30mm, 60mm, 120mm, up to 300mm | |
| Depth of Dimple (mm) | 2.5mm (Standard) | |
| SOLIDAL® Physical Properties | | |
| | 3000 Series SOLIDAL® | * 5000 Series SOLIDAL® |
| Mechanical Properties | | |
| Brinell Hardness | 45 | 67 |
| Elastic Modulus | 70GPa | 68GPa 9.9 x 106 psi |
| Elongation at Break | 6.0% | 8.0% |
| Fatigue Strength | 68 MPa | 110 MPa 15 x 103 psi |
| Poisson's Ratio | 0.33 | 0.33 |
| Shear Modulus | 26 GPa | 26 GPa 3.7 x 106 psi |
| Shear Strength | 93 MPa | 150 MPa 22 x 103 psi |
| Tensile Strength: Ultimate | 160 MPa | 250 MPa 37 x 103 psi |
| Tensile Strength: Yield (Proof) | 125 MPa | 190 MPa 28 x 103 psi |
| Thermal Properties | | |
| Melting Onset (Solidus) | 640 °C 1120 °F | 610 °C 1120 °F |
| Specific Heat Capacity | 900 J/kg-K 0.22 BTU/lb-°F | 900 J/kg-K 0.22 BTU/lb-°F |
| Thermal Conductivity | 180 W/m-K 100 BTU/h-ft-°F | 140 W/m-K 80 BTU/h-ft-°F |
| Thermal Expansion | 23µm/m-K | 24µm/m-K |
| Electrical Properties | | |
| Electrical Conductivity: Equal Volume | 44% IACS | 35% IACS |
| Electrical Conductivity: Equal Weight (Specific) | 140% | 120% |

* 5000 Series **SOLIDAL®** is ideal for Anodise application

(Please consult a **SOLIDAL®** representative for further information on Anodised grade Aluminium)

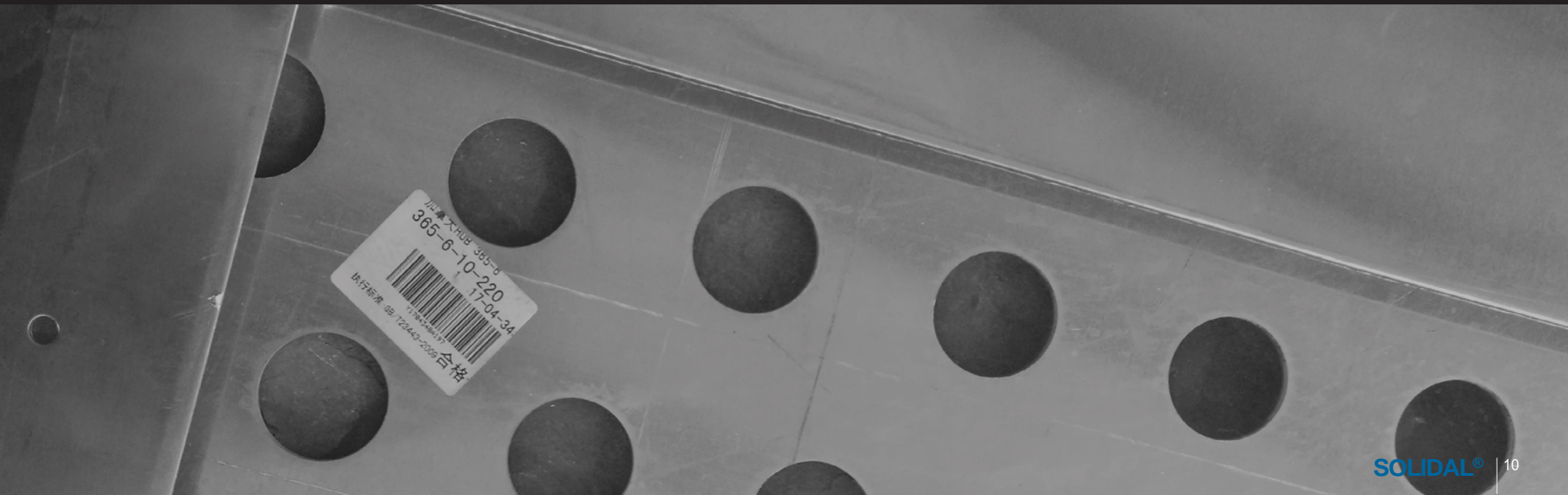
SOLIDAL® ERP

(Enterprise Resource Planning System) tracking.

All SOLIDAL® orders will have ERP tracking.

ERP tracking assists in the tracking all panel order schedules.

Assisting both customer and SOLIDAL® factory for tracking and monitoring quality production for complicated and non complicated façade installations.



SOLIDAL®

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