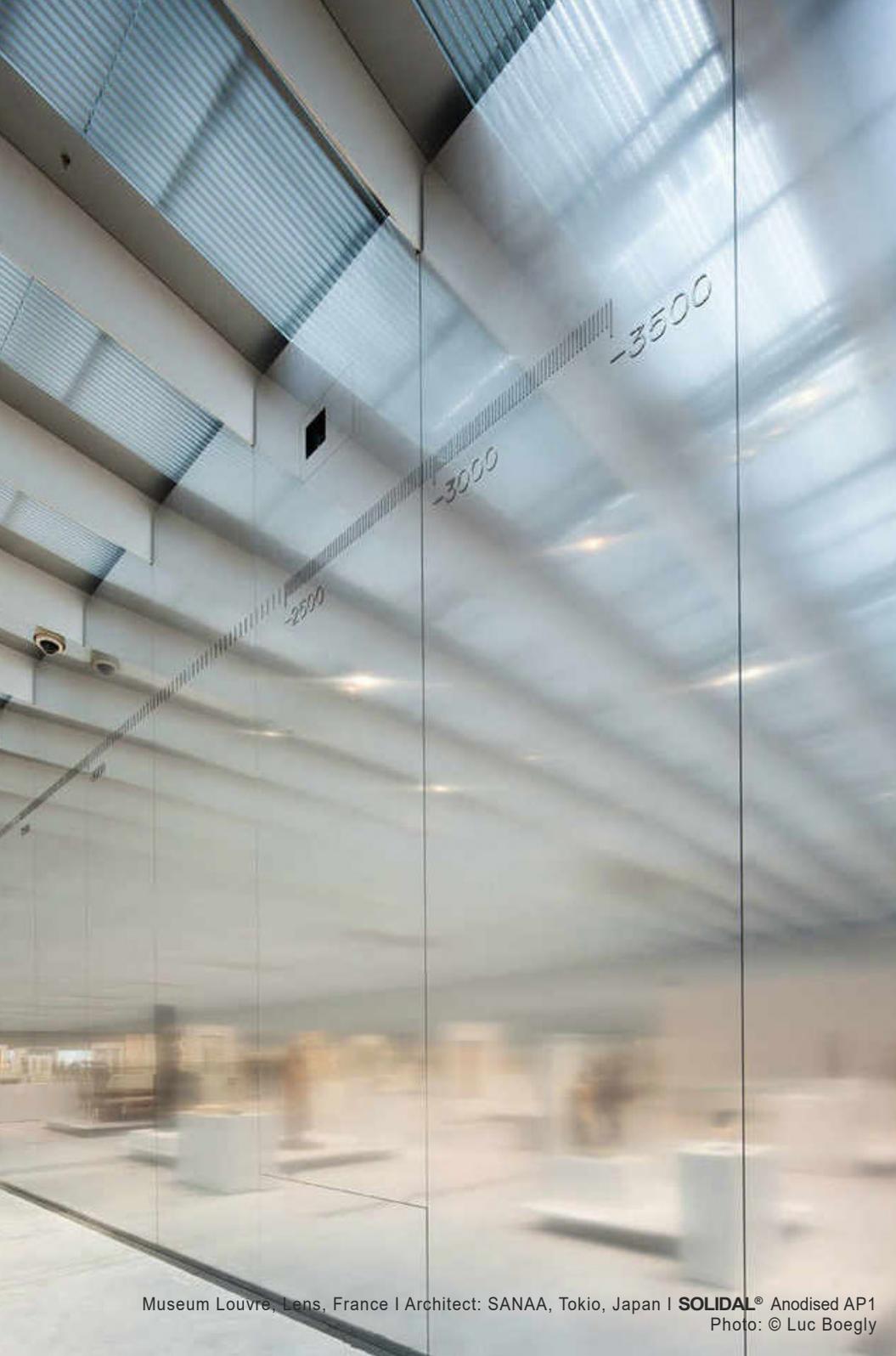


# SOLIDAL<sup>®</sup> ANODISED AP1

FAÇADE SOLUTION by Watermark<sup>®</sup>





Museum Louvre, Lens, France | Architect: SANAA, Tokio, Japan  
**SOLIDAL®** Anodised AP1

## 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.

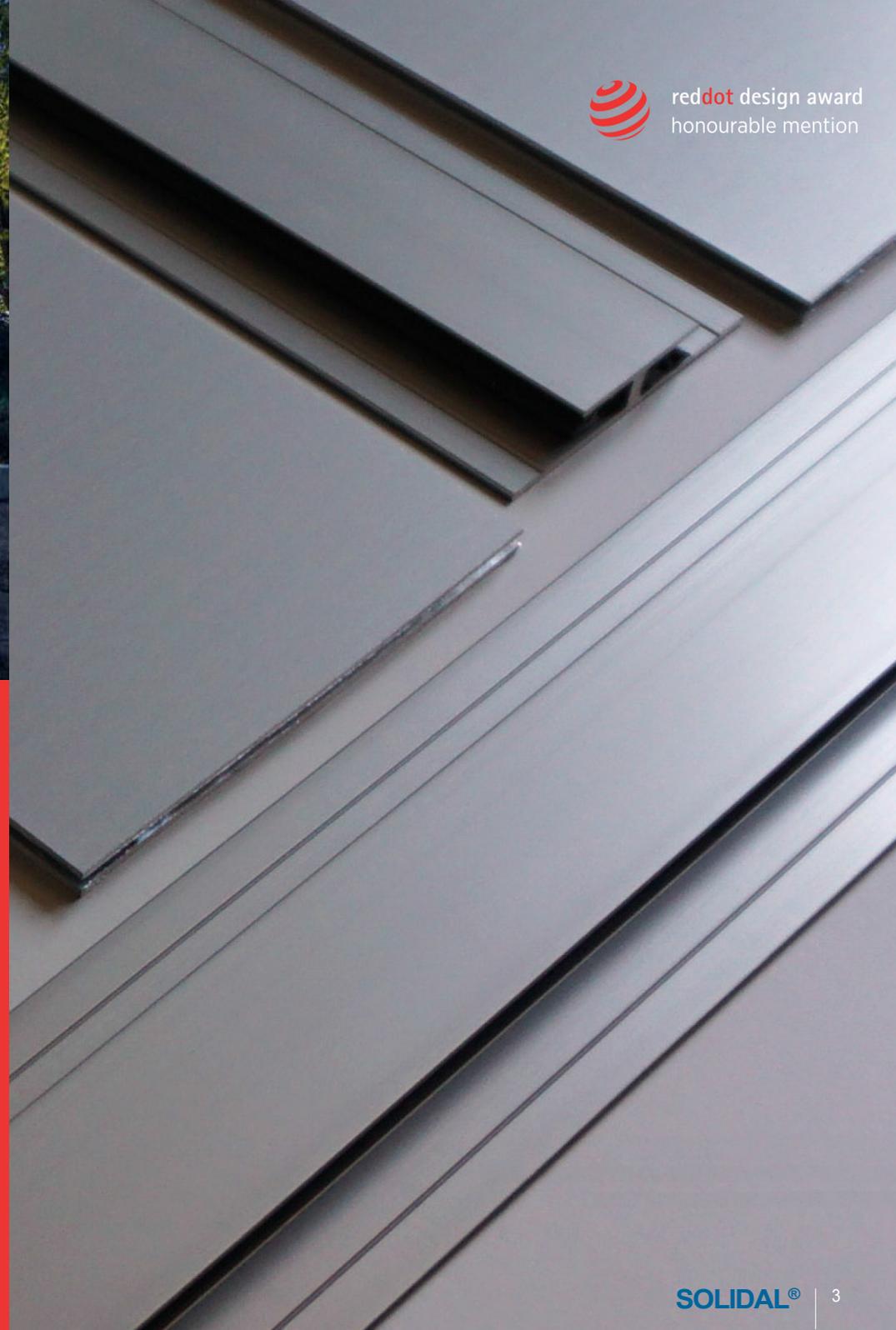
As is usual practice, we recommend limiting samples are agreed to define acceptable process-related variations in gloss and colour.

Watermark® offers a range of Reflective and Structural Surfaces:

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



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



## SOLIDAL® Anodised AP1

Superior SOLIDAL® anodise finish is Abrasive resistant and 100% recyclable.  
Suitable for all standard Installation Methods as well as German awarded design  
Smartfix® façade fixing system

<b>SOLIDAL®</b>		
Panel Thickness (mm)	2mm, 2.5mm, 3mm, 4mm up to 6mm	
Available width (mm)	1240mm, 1500mm, 2000mm	
Length (mm)	7000mm	
<b>SOLIDAL® DIMPLE &amp; PERFORATED</b>		
Panel Thickness (mm)	3mm, 4mm, 5mm	
Dimpled Percentage	10%, 20%, 40%	
Diameter Options (mm)	15mm, 30mm, 60mm, 120mm, up to 300mm	
Depth of Dimple (mm)	2.5mm (Standard)	
<b>SOLIDAL® Physical Properties</b>		
	3000 Series <b>SOLIDAL®</b>	* 5000 Series <b>SOLIDAL®</b>
<b>Mechanical Properties</b>		
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
<b>Thermal Properties</b>		
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
<b>Electrical Properties</b>		
Electrical Conductivity: Equal Volume	44% IACS	35% IACS
Electrical Conductivity: Equal Weight (Specific)	140%	120%

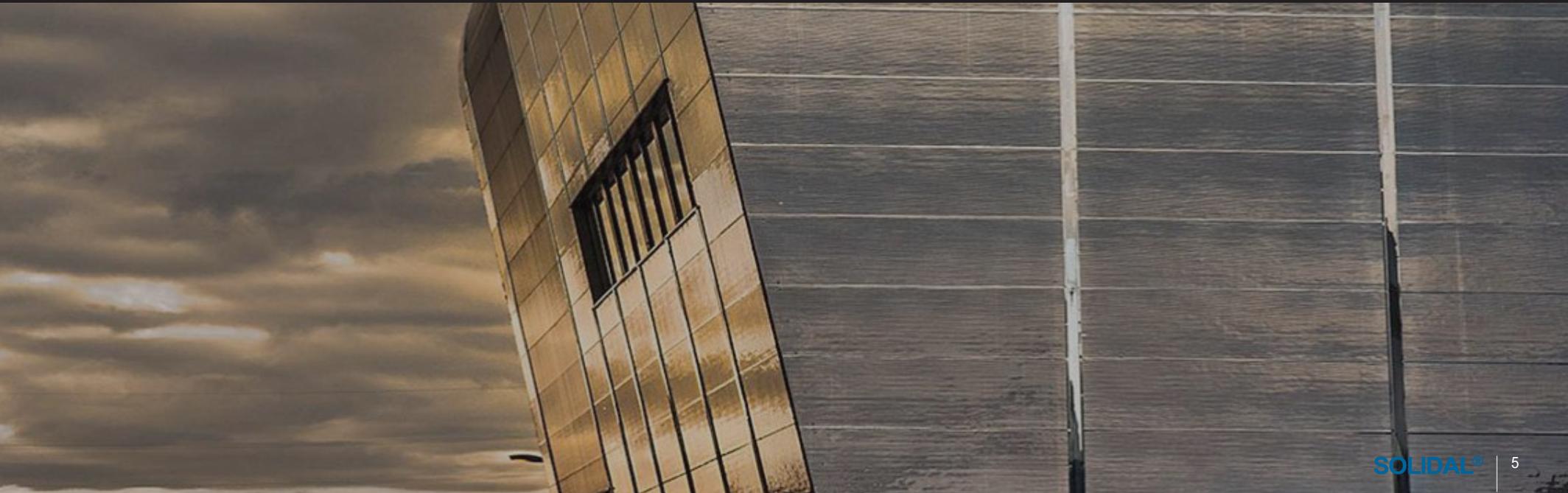
\* 5000 Series **SOLIDAL®** is ideal for Anodise application

(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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reddot design award  
honourable mention



smartfix®

**AMAG\_**  
AUSTRIA METALL

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