

A1 Non-combustible
Solid Aluminium Sheet

HJ TECH
Aluminium Coil Coater

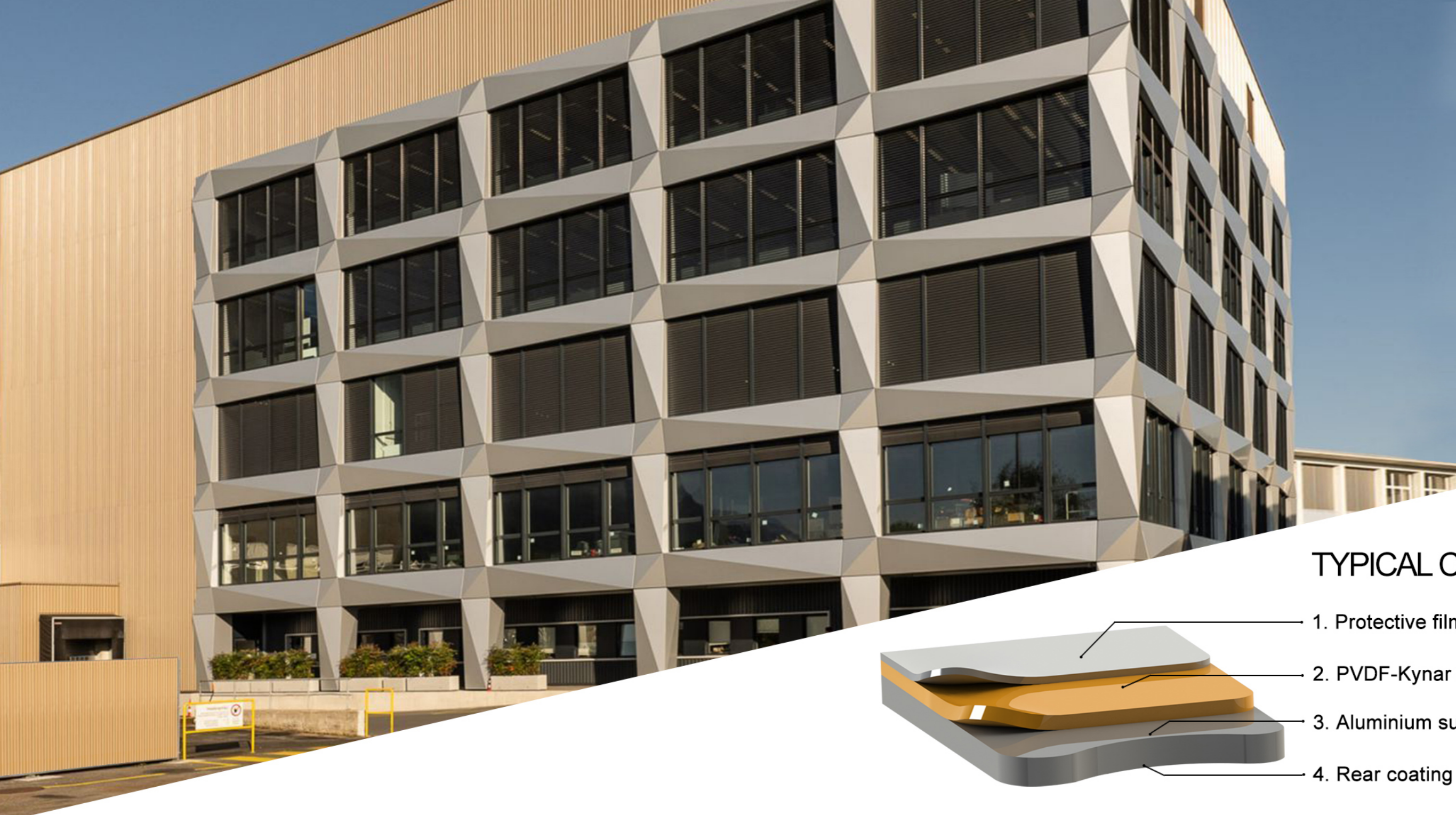


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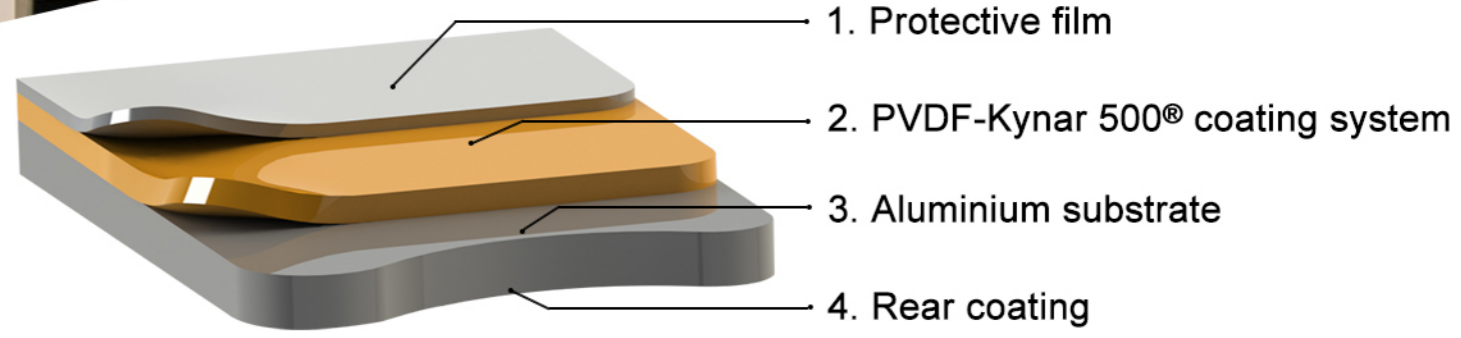
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A1 Pre-coat Solid Aluminium Sheet

PRODUCT BROCHURE



TYPICAL COMPOSITION

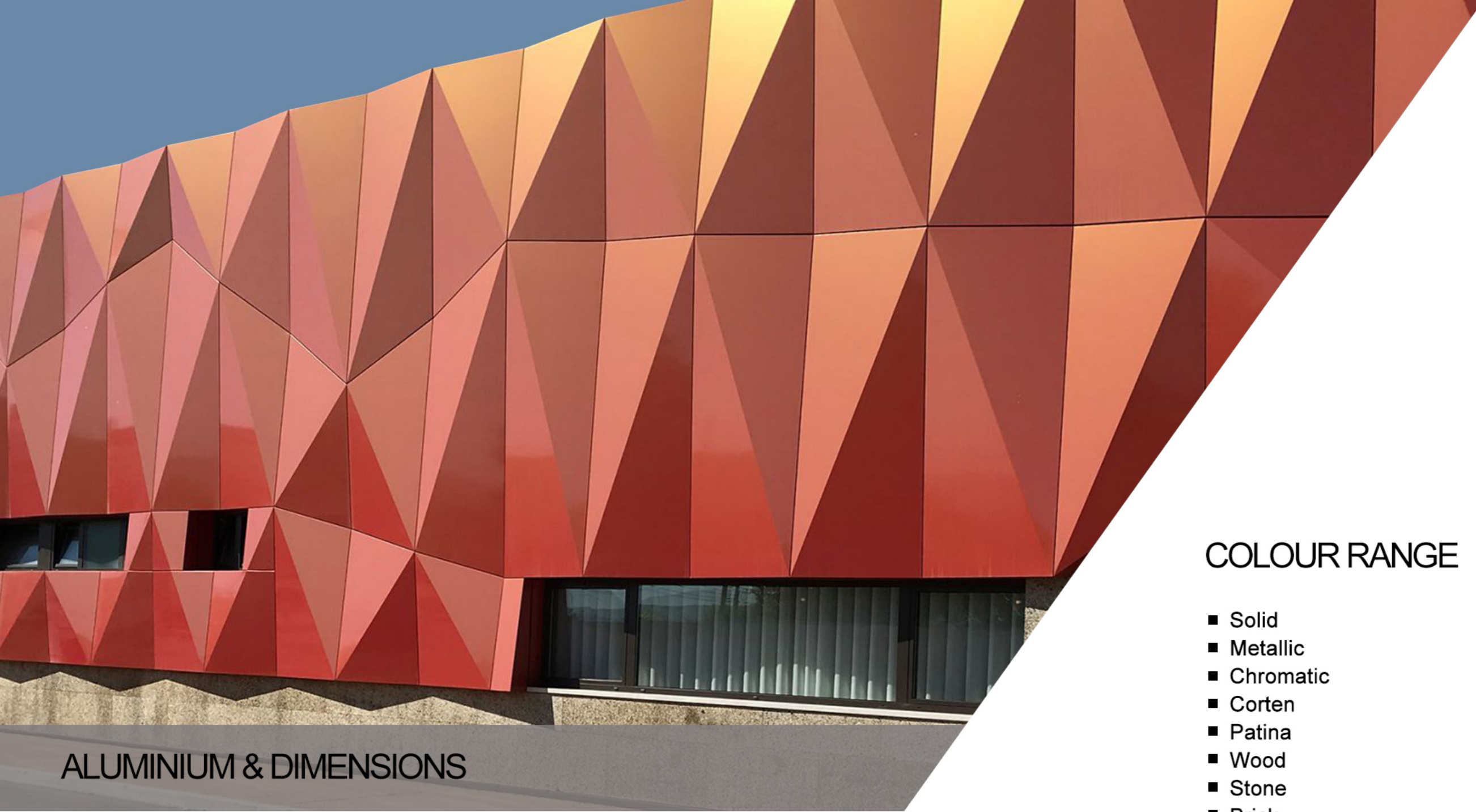


ABOUT HJ PRE-COAT

HJ PRE-COAT is highly durable solid aluminium cladding panels manufactured through coil coating technology. It features Kaynar 500® PVDF/FEVE paints system, well proven for its superior quality, extensive colour range and design integrity.

KEY FEATURES

- ✓ A1 Non-combustible to EN13501-1
- ✓ Highly UV and weather resistant
- ✓ Highly durable and machinable
- ✓ 20-year surface warranty
- ✓ Low maintenance requirements



ALUMINIUM & DIMENSIONS

| | | |
|-----------|--|---------------------|
| Grade | | 3000 or 5000 series |
| Thickness | | Max 3mm |
| Width | | Max 1570mm |
| Length | | Max 6000mm |

*Custom sizes are available – Please speak to HJ team

COLOUR RANGE

- Solid
- Metallic
- Chromatic
- Corten
- Patina
- Wood
- Stone
- Brick

All colours are pre-painted through PVDF/FEVE paints system and coil coating technology. Compliant with AAMA2605 standard, our panels offer a surface coating warranty up to 20 years.

*Colour matching service is available
– Please speak to HJ team.

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PROCESSING

HJ PRE-COAT can be easily processed by the most common tools and machines in the most common methods.



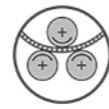
Drilling



Punching



Bending



Roll bending



Folding



Contour cutting



Shearing



Riveting

APPLICATIONS

- Façade cladding
- Building re-cladding
- Roofing & Column casing
- Signage & Decoration
- Inner wall lining

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TECHNICAL DATA

Material Data

| Physical Property | Value |
|--|--------|
| Tensile Strength – ultimate, Ft _u * (MPa) | 138 |
| Tensile Strength – yield, Ft _y * (MPa) | 117 |
| Compressive strength, F _{cy} (MPa) | 96 |
| Shear strength – ultimate, F _{su} (MPa) | 83 |
| Shear strength – yield, F _{su} (MPa) | 69 |
| Bearing strength – ultimate, F _{bu} (MPa) | 276 |
| Bearing strength – yield, F _{by} (MPa) | 172 |
| Compressive MOE, E (MPa) | 70,000 |
| Thermal Expansion Coefficient | 23 |
| Fatigue strength (MPa) | 60 |
| Modulus of Resilience (Kj/M3) | 130 |
| Embodied carbon (kg-CO ₂ /kg) | 8.1 |

Thermal Insulation

| Thermal Resistance From -50°C to +80°C | | |
|--|--|--|
| Panel Thickness (mm) | Thermal Resistance 1A m ² .K/W | Heat Transmission Coefficient W/(m ² .K) |
| 3 | 0.0069 | 5.65 |

TECHNICAL DATA

Kynar 500®PVDF Data

| Classification | Test Standard | Result | Comments |
|---------------------------|-------------------|------------|----------|
| Nominal Coating thickness | TP-ET-02 | 28 - 45 µm | - |
| Colour Uniformity | ASTM D2244-16 | ΔE = 0.06 | Pass |
| Specular Gloss | ASTM D523-14 | G 24.8 | Pass |
| Dry Film Hardness | ASTM D3363-05 | 3H | Pass |
| Film Adhesion | ASTM D3359-17 | 5B | Pass |
| Impact Resistance | AAMA 2605 (8.5) | no removal | Pass |
| Abrasion Resistance | ASTM D968-17A | 118.6 | Pass |
| Muriatic Acid Resistance | AAMA 2605 (8.7.1) | 5B | Pass |
| Mortar Resistance | AAMA 2605 (8.7.2) | 5B | Pass |
| Nitric Acid Resistance | AAMA 2605 (8.7.3) | ΔE = 0.31 | Pass |
| Detergent Resistance | AAMA 2605 (8.7.4) | 5B | Pass |
| Window Cleaner Resistance | AAMA 2605 (8.7.5) | 5B | Pass |

Fire Resistance

| Test Standard | Result |
|---------------|--------|
| EN13501-1 | A1 |

