1300 509 589
sales@astrastreetfurniture.com.au
astrastreetfurniture.com.au

Wood Grain Powder Coated Aluminium Slats

Specifications

Finishes

- Western Red Cedar
- Blonde Oak

Slat Sizes

- 40 x 20 x 2mm (x length)
- 70 x 30 x 3mm (x length)

Weight per Length

- 40 x 20 x 1800mm = 1.0kg
- 70 x 30 x 1500mm = 2.0kg
- 70 x 30 x 1800mm = 2.4kg

Features, Benefits & Advantages

- Wood Grain Powder Coat has a 2-stage process with a lightly textured surface and is more durable than a standard powder coat.
- It is created using a unique coating process. This is a process of powder coating the aluminium, partially curing it, applying another layer of powder and then using a decorative drum to stamp the high-definition grain pattern into the surface. The aluminium is then fully cured combining both layers into a single, ultra durable powder coated finish. The thickness is 80 microns.
- 100% Recyclable.
- Maintenance free – no polishing or painting necessary.
- Resistant to scratching and easy to touch up. Scratches are not noticeable as they tend to blend in with the woodgrain pattern.
- Easy to clean & sanitise.
- Highly chemical resistant – graffiti is easily cleaned off.
- Excellent resistance to UV radiation and extreme weather.
- 15 year colour warranty – Interpon.
- 25 year Interpon gloss retention and film integrity warranty.
- Very strong – high strength to weight ratio.
- Dimensionally stable – will not warp, twist, cup or crack.
- Marine grade finish & substrate – suitable for beachfront locations.
- Non-Combustible: compliant for bushfire-prone areas and tested to AS3837.
- Not excessively hot in the sun due to the conductive and fast cooling nature of aluminium.

Aluminium Specifications

	40 x 20 x 2mm RHS Profile	**70 x 30 x 3mm RHS Profile**
Alloy	6063	6060
Temper	T5	T5
Tensile Strength	150 MPa	150 MPa
Yield Strength	110 N/m2	110 N/m2
Finish	80-100 microns powder coat	80-100 microns powder coat

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Product Assembly Guide
Spec Sheet

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Western Red Cedar 40 x 20mm Angled View



Western Red Cedar 40 x 20mm End View



Western Red Cedar 70 x 30mm Angled View



Western Red Cedar 70 x 30mm End View



Blonde Oak 40 x 20mm Angled View



Blonde Oak 40 x 20mm End View



Blonde Oak 70 x 30mm Angled View



Blonde Oak 70 x 30mm End View

Properties of Aluminium

Aluminium is exceedingly strong and rigid. It is deemed Non-Combustible and prized for its excellent thermal and electrical properties as well as corrosion resistance.

Aluminium extrusions used in the marine industry are the 6000 series alloys. The 6000 series alloys have been used in the marine industry for over 50 years.

Aluminium will melt at around 660°C, or 1220°F. Its high specific heat, thermal conductivity, and reflectivity all help to give the metal some interesting characteristics and make it viable for furniture and construction applications. The fire-protection gained through the proper use of aluminium has led to its extensive use in oil platforms.

The specific heat of a material, also referred to as the specific heat capacity, is the amount of heat energy required to raise the temperature of that material by one unit. This is calculated by dividing the required energy at a unit of temperature by the mass of the material. The specific heat of aluminium alloys ranges from 816 to 1050 J/(kg·K) in SI units, or 0.195 to 0.258 Btu/(lb·°F). This is approximately twice that of steel, meaning that a given mass of aluminium will take twice as much energy to heat up by one degree as the same mass of steel. Put another way, aluminium furniture and structural elements will take twice as long to heat up as an equivalent mass of steel.

The thermal conductivity of a material is a measure of its ability to transfer heat. For aluminium alloys, this ranges from 88 to 251 W/(m·K) or 51 to 164 Btu(h·ft·°F), 3-6 times higher than normal steel and 10-17 times higher than stainless steel. The advantages this provides include the ability to remove heat from a source area and distribute it to the rest of the material. This slows the rate at which the entire mass heats up while also allowing some of the heat to radiate off the material due to it being spread out across a larger surface area. What this means is that aluminium furniture is in fact not hot to sit on by comparison to materials which retain heat.

Furniture Care

Refer to ‘Astra Furniture Care’ documents for detailed care & maintenance instructions. These can be found on www.astrastreetfurniture.com.au.

Warranty

Refer to ‘Astra Street Furniture Warranty Policy’ document for product warranty. This can be found on www.astrastreetfurniture.com.au.

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