

Enviroslat Recycled Composite



Slat Sizes: 40 x 30mm & 70 x 30mm (x length)

Weight per length: 40 x 30 x 1800mm = 2.7kg / 70 x 30 x 1800mm = 4.7kg

Breakdown of Material Content	%
Reclaimed Cellulose Fibre (sawdust/ woodchips/ chaff/ rice husk)	55
HDPE (post industrial waste) including post-consumer drink bottles but not limited to.	35
Additives (virgin polymer shell, colour pigment, UV inhibitor, fungicide)	10

Features, Benefits & Advantages:

- Environmentally sustainable and cost-effective as an alternative to traditional timber.
- Maintenance free – no polishing or painting.
- Colour full depth throughout the material, no staining or painting needed (although it is paintable if desired).
- UV stable – colour softens after the first few months of weathering and then retains its general look year after year.
- Dimensionally stable – will not warp, twist, cup or crack. *(NB: Enviroslat Composite slats are partially manufactured from a soft recycled plastic which may result in minor bowing and warping of the slats over time).*
- Easily cut and drilled – does not splinter.
- Low water absorption.
- Rot proof.
- Termite proof.
- Is not excessively hot in the sun due to the combined properties of wood and plastic.
- Actual detailed performance over time is dependent on the level of exposure to the weather. Product is maintenance free for years and years.
- Scratches are not a problem – marks can be sanded or filed off without losing the general colour.

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Mechanical Properties

- Water absorption, (ASTM D1037-06a) = 0.31%
- Coefficient of thermal expansion mm/mm/deg C (ASTM D6341-10) 5.6×10^{-5}
- Impact Resistance [ASTM D4495-00 (2005)] >89J
- Density g/cm³ (ASTM D792-08) 1.25- 1.30
- Fire Properties (AS1530.3)
 - ⦿ Ignitability: 14
 - ⦿ Spread of flame: 2
 - ⦿ Heat evolved: 3
 - ⦿ Smoke developed: 4

General Instructions:

- When lifting furniture at any time, do not lift by the slats or they may pull off the frame. Hold the frame when lifting, not the slats.
- Inspect daily & clean all furniture surfaces regularly (at least weekly) using slightly soapy warm water and soft cleaning cloth.
- Do not use chemicals or abrasive compounds to clean surfaces as this may damage the surface coating.
- **NOTE:** Food scraps, soft drinks, juice spills etc, if left on surface can be harmful to surfaces of any kind.
- *Clean it, keep it looking good!*

Fasteners

Check all fasteners regularly for tightness. Use Loctite 243 Adhesive Threadlocker to help prevent loosening of fasteners (e.g. from vibration).

Enviroslat Recycled Composite Slats

Composite slats are made from a plastic and wood fibre combination creating a tough and maintenance free timber-look slat. Enviroslat has no ongoing maintenance, refer to 'General Cleaning Instructions' above. The colour of composite slats is throughout the full material thickness which means that any scratches or stains can be sanded off. *When lifting furniture at any time, do not lift by the slats or they may pull off the frame. Hold the metal frame when lifting, not the slats.*

Hardwood Slats

It is recommended to re-finish the slats every 12 months to preserve the hardwood and keep it looking new. When furniture is in an exposed location, the effect of the weather on the finish and the timber substrate is very harsh, not only with UV but also expansion and contraction from the effects of heating /cooling cycles and wet/dry cycles. Other elements the timber comes in touch with (graffiti removal or chewing gum removal, cleaning, acidic rain, acidic drink spills like orange juice or fizzy drink etc to name a few) all contribute to a breakdown of the finish. Weathering of finished surfaces is normal and is not a warranty issue.

For refurbishing outdoor timber slats, we recommend the timber protection oil CUTTEK CD50. Available from most paint, timber and hardware stores, Cuttek timber oils penetrate and nourish the timber for long term protection from moisture reduces cupping, warping and splitting. The manufacturer's instructions must be followed.

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Timber Leaching

Despite the kiln drying process for hardwoods with a moisture level at industry standards, sometimes leaching can still occur which is the release of natural tannins from the timber. When this occurs, it is usually visible as a brown stain most often on concrete surfaces. It is imperative to wash this off as soon as possible with undiluted bleach on the affected area. Scrub it in and let it soak for 20mins then wash it away thoroughly with warm water and a broom.

Powder Coated Finish

Powder Coated surfaces should be kept clean – refer to '*General Cleaning Instructions*' above. If the coating is broken through physical damage, it must be touched up immediately after suitable surface preparation to protect it from corrosion setting in.

Anodised Aluminium

No ongoing maintenance – refer to '*General Cleaning Instructions*' above.

Mill Finished Aluminium

Natural mill finished aluminium, can develop a natural white oxidisation over a period of time. This is a superficial surface development and is not a defect with the material.

Stainless Steel

Stainless Steel is a very low maintenance material. Refer to '*General Cleaning Instructions*' above – a soft damp rag is always best to try first. Solvents or 'Stainless steel Cleaner' can be carefully applied where necessary following the manufacturer's instructions. Brushed finish stainless that gets light scratches can be re-polished with a plastic scourer pad taking care to follow the direction of the original grain. Professional polishing may be required for heavy scratches or mirror finish stainless steel. In heavily corrosive environments, the colour of stainless steel can change to a light brown colour called 'tea staining'. This may look unsightly as far as aesthetics are concerned but is not rust and does not affect the structural integrity of the material.

Hot Dipped Galvanised Finish

No ongoing maintenance – refer to '*General Cleaning Instructions*' above. Galvanised surfaces originally have a bright motley silver finish but can develop an oxidisation called white rust due to the high-quality sacrificial corrosion protection that zinc-rich (galvanised) coatings provide over the substrate. This will change over time to a dull grey finish and is a perfectly normal process. In the unlikely event that the surface is broken through physical damage, grinding or cutting, hot dipped galvanised surfaces can be touched up with zinc-rich cold-gal aerosol paints.

Replacement Parts

If the need arises, replacement parts and fasteners are available from Area Safe Products. Often these will be in stock although a cost and lead time may apply.

Warranty

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