

The Soleris Sunshade can be used to improve outdoor thermal comfort. It requires minimal maintenance, is easy to disassemble and has a low- or no-VOC powdercoat finish. The corrosion-resistant aluminum and stainless steel have high recycled content and are 100% recyclable.

**Recycled Content & Certifications**

Configurations	Post-Industrial Recycled Content	Post-Consumer Recycled Content	Total Recycled Content	3 <sup>rd</sup> Party Certifications
Soleris Sunshade	Contact	Contact	Contact	-

**Green Building Standards**

<b>LEED® v3</b>
<i>MR2: Construction Waste Management</i> – packaging is designed to be reusable or recyclable. See below for details.
<i>MR4: Recycled Content</i> – this product contains recycled material. Contact for details.
<i>MR5: Regional Materials</i> – this product is manufactured in Pittsburgh, PA. Contact for details.
<b>LEED v4</b>
<i>MRp2/MR5: Construction Waste Management</i> – packaging is designed to be reusable or recyclable. See below for details.
<i>MR3: Sourcing of Raw Materials (recycled content)</i> – this product contains recycled material. Contact for details.
<i>(regional materials)</i> – this product is manufactured in Pittsburgh, PA. Contact for details.
<i>MR4: Material Ingredients</i> – this product has a Health Product Declaration. Contact for details.
<i>EQ2: Low-emitting Materials</i> – inherently non-emitting sources. Contact for details.
<b>Green Globes™</b>
<i>3.5.4.1 Construction Waste</i> – packaging is designed to be reusable or recyclable. See below for details.
<i>3.5.6.3 Deconstruction and Disassembly</i> – this product can be disassembled to separate recyclable components
<i>3.7.2.1 Volatile Organic Compounds</i> - inherently non-emitting sources. Contact for details.

**Green Building Standards continued**

<b>Estidama Pearl Rating System: Design &amp; Construction, Version 1.0</b>
<i>LBI-2.5: Material Emissions: Formaldehyde Reduction</i> – inherently non-emitting sources. Contact for details.
<i>SM-R1: Hazardous Material Elimination</i> – product contains no ACMs and no CCA-treated timber.
<i>SM-R2/SM-13: Construction Waste Management</i> - packaging is designed to be reusable or recyclable. See below for details.
<i>SM-4: Design for Disassembly</i> - this product can be disassembled to separate recyclable components.

**Product Materials**

Material	Description	Maintenance (0-5)*	Inherent Value (0-5)**	Biodegradable	Corrosion/Wear Resistant	Rapidly Renewable	Recyclable	Scratch Resistant
Aluminum	Corrosion-resistant metal that is suitable for many fabrication methods.	3	3		x		x	
Stainless Steel	Steel that is alloyed with chromium and other metals to improve corrosion-resistance. *Scratch resistance is determined by finish selection.	3	4		x		x	x*

\*Maintenance ratings are assigned as follows: 0 – High level of maintenance required to keep up product performance and aesthetics; 5 – Absolutely no maintenance required to keep up product’s visual appearance and performance characteristics;

\*\*Inherent value ratings are assigned based on the material’s scrap value: 0 – No scrap value, or negative scrap value, and/or no scrap market; 5 – High scrap value, accompanied by robust scrap market

**Processes**

Process	Description
Aluminum Making	A two-step process by which the aluminum is first dissolved in a caustic bath and then precipitated out in crystals. This two-step process can be circumvented by using recycled scrap that is melted down to form new parts.
Casting	The process of creating a solid object by pouring molten metal into a mold and allowing it to cool.
Cutting	A variety of methods may be used to cut through various materials.
Extruding	Process in which heated metal is pushed through a cross-sectional die to create a linear part with a specific shape.
Metal Finishing	Applied using grinding/sanding wheels. Finishing produces a grained or brushed finish on the surface, and depending on the material will increase corrosion resistance. Typically, products are either finished at our vendors' facility or at F+S but usually not both.
Powdercoating	A solvent-free finishing method in which electrically charged particles of pigmented resins are sprayed onto a product. Electrical grounding of the coated object causes the charged powder to adhere to the surface. When baked in a curing oven the deposited powder melts and fuses together to form a durable, cross-linked coating
Sand Blasting	The process of smoothing, shaping and cleaning a hard surface by forcing solid particles across that surface at high speeds to provide an even finish.
Steel Making	Steel and stainless steel are made in one of two types of furnace: a Basic Oxygen Furnace (BOF) or an Electric Arc Furnace (EAF). A BOF is used to make steel from iron ore or from scrap steel; an EAF is used primarily to reprocess scrap steel.
Welding	A process that joins two similar metals by causing coalescence. Usually accomplished by melting the work pieces and adding a filler material to form a pool of molten metal that cools to become a strong joint.

**Packaging Materials**

Material	Type	Description	Disposal
Cardboard	Box	Small or light products are packaged in cardboard boxes. Reused for shipping.	Reuse/Recycle
Cardboard	Spacer	Used to provide impact cushioning between a product and its package or between two products.	Reuse/Recycle
Foam	Sheets	Micro foam sheets are used to protect the finish on products.	Reuse
Plastic	Shrink wrap	Shrink wrap is used to protect the finish on products and also to hold padding to products.	Recyclable
Wood	Crate	Wood crates are made to fit onsite. Wood scraps are recycled into mulch. Crates are reused when possible.	Reuse/Recycle
Wood	Pallet	Used in shipping. Reused onsite until no longer serviceable, then recycled.	Reuse/Recycle

**Transport**

Method	Type	Description
Boat	Overseas	Some product components are shipped by cargo ship from overseas
Ground	Truck/Rail	Some incoming shipments and almost all outgoing shipments to customers are sent via ground transportation. This can include truck and often rail transport depending on the final destination.

**Maintenance & Use**

Maintenance or Use	Description	Chemicals Required
Clean with Mild Cleaner	Glass and metal components require a soft, clean, grit-free cloth and a mild, nontoxic cleaner for maintenance.	Mild, water-based cleaner
Outdoor Thermal Comfort	This product may be used to improve outdoor thermal comfort.	N/A

**Disposal**

Method	Description
Disassemble	Product can be disassembled to separate recyclable components
Recyclable - Fully	Metal components are fully recyclable
Recycling - Scrap	Materials can be sold for scrap
Reuse	This item can be reused in the same or different function

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