

GREEN BUILDING STANDARDS**LEED®**

This product can apply to the LEED credits outlined below. In order to provide knowledgeable assistance to our customers, we also have a LEED Accredited Professional on staff. If you don't see the information you need for your project on this page, you can contact our LEED AP by e-mailing green@forms-surfaces.com.

- **MR: Recycled Content** – This product contains recycled material. Please contact us for additional information.
- **MR: Regional Materials** – We have manufacturing facilities in Pittsburgh, PA (15223), Carpinteria, CA (93013), Phoenix, AZ (84043), Santa Fe Springs, CA (90605) and Pune, India. Please contact us for more information.

Green Globes™

This product can apply to one or more Green Globes credits, as outlined below. Our sustainability team is knowledgeable about the Green Globes standards, so please feel free to contact us at green@forms-surfaces.com should you need more information.

- **10.2.2.1 Recycled Content** – This product contains recycled material. Please contact us for additional information.
- **10.2.4.1 Transportation of Manufactured Materials** – We have manufacturing facilities in Pittsburgh, PA (15223), Carpinteria, CA (93013), Phoenix, AZ (84043), Santa Fe Springs, CA (90605) and Pune, India. Please contact us for more information.

Estidama

This product can apply to the Estidama credits outlined below. We are familiar with the Estidama standards, so please feel free to contact us at green@forms-surfaces.com should you need additional information.

- **ADMAT1: Materials Specification - Major Building Elements – Recycled** – This product contains recycled material. Please contact us for additional information.
- **ADMAT5: Sustainable Materials Sourcing** – We maintain sustainable procurement policies and procedures. Please contact us for more information.
- **ADWAS1: Reduction of Waste** – This product is fully recyclable.

PRODUCT MATERIALS

Material	Type	Description	Maintenance (0-5)*	Inherent Value (0-5)**	Biodegradable	Corrosion/Wear Resistant	Rapidly Renewable	Recyclable	Scratch-Resistant
Concrete	Portland Cement	Construction material composed of cementitious materials such as fly ash, slag cement and various sized aggregates that are mixed together with water to form molded products.	5	1		x		x	x
Polymer	Polyethylene	Thermoplastic, petroleum-based polymer, used for a broad range of molded and extruded products.	4	0		x		x	
Stainless Steel	HD Finish	Stainless Steel with a finish applied by high-pressure rollers to produce a work-hardened surface with enhanced resistance to wear.	4	4		x		x	x
Stainless Steel	Sheet and Tube	Steel that is alloyed with chromium and other metals to improve corrosion-resistance. Formed by rolling or extruding.	3	4		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

F+S Facility Processes	Process Description	Vendor Facility Processes	Process Description
Laser Cutting	A powerful, computer-controlled laser is used to precisely cut shapes or designs into metal.	Calendaring	Metalworking process in which sheet metal is rolled out at room temperature, changing the molecular structure to make it harder and more resistant to scratching.
Metal Punching	A mechanical process where a die tool creates a whole in the material using velocity and pressure. Three-dimensional images/patterns can also be created by pressing the substrate between two patterns using a combination of heat and pressure.	Concrete Casting	Process of mixing concrete, filling molds, and curing the material in an ambient or moderately climate-controlled environment.
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	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.
Roll Forming	A mechanical process in which material is passed through a set of rolls in order to form a continuous curved bend in the material. Typically a set of three rolls is required to apply pressure at necessary points in the material to achieve the desired radius.	Plastics Manufacture	Plastic is the common term for a wide range of synthetic or semi-synthetic organic solid materials used in industrial applications. Plastics are typically polymers of high molecular weight, and may contain other substances to improve performance or reduce costs.
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.	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.

PACKAGING MATERIALS

Material	Type	Description	Disposal
Cardboard	Box	Small or light products are packaged in cardboard boxes. We often reuse boxes for shipping.	Recycle
Foam	Sheets	Micro foam sheets are used to protect the finish on products.	Reuse
Foam	Soy Sheets	Soy foam sheets are used to protect the finish on products.	Biodegradable
Plastic	Shrink Wrap	Shrink wrap is used to protect the finish on products and also to hold padding to products. Clean shrink wrap is recyclable.	Recycle
Wood	Pallet	Wood pallets are purchased for use in shipping. Pallets are reused onsite until no longer serviceable, at which point they are 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 Water and Mild Cleaner	This product requires a damp cloth and a mild, nontoxic cleaner for maintenance.	Mild, water-based cleaner.

DISPOSAL

Method	Description
Disassemble	Product can be disassembled to separate recyclable components.
Recyclable – Fully	All product components can be recycled.
Recycling – Scrap	Materials can be sold for scrap.
Reuse	This item can be reused in the same or different function.

SUMMARY – 30-Gallon Planter without Concrete Base

Category Type	Property/Component	Stainless Steel Sandstone or Diamond Finish, no pattern	Stainless Steel Satin Finish, no pattern	Powder-coat Finish, no pattern	Stainless Steel Sandstone or Diamond Finish, standard pattern	Stainless Steel Satin Finish, standard pattern	Powder-coat Finish, standard pattern
LEED	MR: Recycled Content	Contact	Contact	Contact	Contact	Contact	Contact
LEED	MR: Regional Materials	Contact	Contact	Contact	Contact	Contact	Contact
Green Globes	10.2.2.1 Recycled Content	Contact	Contact	Contact	Contact	Contact	Contact
Green Globes	10.2.4.1 Transport of Matls	Contact	Contact	Contact	Contact	Contact	Contact
Estidama	ADMAT1: Recycled	Contact	Contact	Contact	Contact	Contact	Contact
Estidama	ADMAT5: Sustainable Matls	Contact	Contact	Contact	Contact	Contact	Contact
Estidama	ADWAS1: Reduction of Waste	x	x	x	x	x	x
Materials	Concrete – Portland Cement						
Materials	Polymer – Polyethylene	x	x	x	x	x	x
Materials	SST – HD Finish	x			x		
Materials	SST – Sheet and Tube		x	x		x	x
Processes	Calendaring	x			x		
Processes	Concrete Casting						
Processes	Laser Cutting	x	x	x	x	x	x
Processes	Metal Finishing		x	x		x	x
Processes	Metal Punching				x	x	x
Processes	Plastics Manufacture	x	x	x	x	x	x
Processes	Powdercoating			x			x
Processes	Roll Forming	x	x	x	x	x	x
Processes	Steel Making	x	x	x	x	x	x
Processes	Welding	x	x	x	x	x	x
Packaging	Cardboard – Box	x	x	x	x	x	x
Packaging	Foam – Sheets	x	x	x	x	x	x
Packaging	Foam – Soy Sheets	x	x	x	x	x	x
Packaging	Plastic – Shrink wrap	x	x	x	x	x	x
Packaging	Pallet – Wood	x	x	x	x	x	x
Transport	Boat – Overseas	x	x	x	x	x	x
Transport	Ground – Truck/Rail	x	x	x	x	x	x
Maint. & Use	Clean w/ Water & Mild Cleaner	x	x	x	x	x	x
Disposal	Disassemble	x	x	x	x	x	x
Disposal	Recyclable – Fully	x	x	x	x	x	x
Disposal	Recycling – Scrap	x	x	x	x	x	x
Disposal	Reuse	x	x	x	x	x	x

SUMMARY – 30-Gallon Planter with Concrete Base

Category Type	Property/Component	Stainless Steel Sandstone or Diamond Finish, no pattern	Stainless Steel Satin Finish, no pattern	Powder-coat Finish, no pattern	Stainless Steel Sandstone or Diamond Finish, standard pattern	Stainless Steel Satin Finish, standard pattern	Powder-coat Finish, standard pattern
LEED	MR: Recycled Content	Contact	Contact	Contact	Contact	Contact	Contact
LEED	MR: Regional Materials	Contact	Contact	Contact	Contact	Contact	Contact
Green Globes	10.2.2.1 Recycled Content	Contact	Contact	Contact	Contact	Contact	Contact
Green Globes	10.2.4.1 Transport of Matls	Contact	Contact	Contact	Contact	Contact	Contact
Estidama	ADMAT1: Recycled	Contact	Contact	Contact	Contact	Contact	Contact
Estidama	ADMAT5: Sustainable Matls	Contact	Contact	Contact	Contact	Contact	Contact
Estidama	ADWAS1: Reduction of Waste	x	x	x	x	x	x
Materials	Concrete – Portland Cement	x	x	x	x	x	x
Materials	Polymer – Polyethylene	x	x	x	x	x	x
Materials	SST – HD Finish	x			x		
Materials	SST – Sheet and Tube		x	x		x	x
Processes	Calendaring	x			x		
Processes	Concrete Casting	x	x	x	x	x	x
Processes	Laser Cutting	x	x	x	x	x	x
Processes	Metal Finishing		x	x		x	x
Processes	Metal Punching				x	x	x
Processes	Plastics Manufacture	x	x	x	x	x	x
Processes	Powdercoating			x			x
Processes	Roll Forming	x	x	x	x	x	x
Processes	Steel Making	x	x	x	x	x	x
Processes	Welding	x	x	x	x	x	x
Packaging	Cardboard – Box	x	x	x	x	x	x
Packaging	Foam – Sheets	x	x	x	x	x	x
Packaging	Foam – Soy Sheets	x	x	x	x	x	x
Packaging	Plastic – Shrink Wrap	x	x	x	x	x	x
Packaging	Pallet – Wood	x	x	x	x	x	x
Transport	Boat – Overseas	x	x	x	x	x	x
Transport	Ground – Truck/Rail	x	x	x	x	x	x
Maint. & Use	Clean w/ Water & Mild Cleaner	x	x	x	x	x	x
Disposal	Disassemble	x	x	x	x	x	x
Disposal	Recyclable – Fully	x	x	x	x	x	x
Disposal	Recycling – Scrap	x	x	x	x	x	x
Disposal	Reuse	x	x	x	x	x	x

SUMMARY – 100-Gallon Planter

Category Type	Property/Component	Stainless Steel Sandstone or Diamond Finish, no pattern	Stainless Steel Satin Finish, no pattern	Powder-coat Finish, no pattern	Stainless Steel Sandstone or Diamond Finish, standard pattern	Stainless Steel Satin Finish, standard pattern	Powder-coat Finish, standard pattern
LEED	MR: Recycled Content	Contact	Contact	Contact	Contact	Contact	Contact
LEED	MR: Regional Materials	Contact	Contact	Contact	Contact	Contact	Contact
Green Globes	10.2.2.1 Recycled Content	Contact	Contact	Contact	Contact	Contact	Contact
Green Globes	10.2.4.1 Transport of Matls	Contact	Contact	Contact	Contact	Contact	Contact
Estidama	ADMAT1: Recycled	Contact	Contact	Contact	Contact	Contact	Contact
Estidama	ADMAT5: Sustainable Matls	Contact	Contact	Contact	Contact	Contact	Contact
Estidama	ADWAS1: Reduction of Waste	x	x	x	x	x	x
Materials	Concrete – Portland Cement						
Materials	Polymer – Polyethylene	x	x	x	x	x	x
Materials	SST – HD Finish	x			x		
Materials	SST – Sheet and Tube		x	x		x	x
Processes	Calendaring	x			x		
Processes	Concrete Casting						
Processes	Laser Cutting	x	x	x	x	x	x
Processes	Metal Finishing		x	x		x	x
Processes	Metal Punching				x	x	x
Processes	Plastics Manufacture	x	x	x	x	x	x
Processes	Powdercoating			x			x
Processes	Roll Forming	x	x	x	x	x	x
Processes	Steel Making	x	x	x	x	x	x
Processes	Welding	x	x	x	x	x	x
Packaging	Cardboard – Box	x	x	x	x	x	x
Packaging	Foam – Sheets	x	x	x	x	x	x
Packaging	Foam – Soy Sheets	x	x	x	x	x	x
Packaging	Plastic – Shrink wrap	x	x	x	x	x	x
Packaging	Pallet – Wood	x	x	x	x	x	x
Transport	Boat – Overseas	x	x	x	x	x	x
Transport	Ground – Truck/Rail	x	x	x	x	x	x
Maint. & Use	Clean w/ Water & Mild Cleaner	x	x	x	x	x	x
Disposal	Disassemble	x	x	x	x	x	x
Disposal	Recyclable – Fully	x	x	x	x	x	x
Disposal	Recycling – Scrap	x	x	x	x	x	x
Disposal	Reuse	x	x	x	x	x	x

SUMMARY – 190-Gallon Planter

Category Type	Property/Component	Stainless Steel Sandstone or Diamond Finish, no pattern	Stainless Steel Satin Finish, no pattern	Powder-coat Finish, no pattern	Stainless Steel Sandstone or Diamond Finish, standard pattern	Stainless Steel Satin Finish, standard pattern	Powder-coat Finish, standard pattern
LEED	MR: Recycled Content	Contact	Contact	Contact	Contact	Contact	Contact
LEED	MR: Regional Materials	Contact	Contact	Contact	Contact	Contact	Contact
Green Globes	10.2.2.1 Recycled Content	Contact	Contact	Contact	Contact	Contact	Contact
Green Globes	10.2.4.1 Transport of Matls	Contact	Contact	Contact	Contact	Contact	Contact
Estidama	ADMAT1: Recycled	Contact	Contact	Contact	Contact	Contact	Contact
Estidama	ADMAT5: Sustainable Matls	Contact	Contact	Contact	Contact	Contact	Contact
Estidama	ADWAS1: Reduction of Waste	x	x	x	x	x	x
Materials	Concrete – Portland Cement						
Materials	Polymer – Polyethylene	x	x	x	x	x	x
Materials	SST – HD Finish	x			x		
Materials	SST – Sheet and Tube		x	x		x	x
Processes	Calendaring	x			x		
Processes	Concrete Casting						
Processes	Laser Cutting	x	x	x	x	x	x
Processes	Metal Finishing		x	x		x	x
Processes	Metal Punching				x	x	x
Processes	Plastics Manufacture	x	x	x	x	x	x
Processes	Powdercoating			x			x
Processes	Roll Forming	x	x	x	x	x	x
Processes	Steel Making	x	x	x	x	x	x
Processes	Welding	x	x	x	x	x	x
Packaging	Cardboard – Box	x	x	x	x	x	x
Packaging	Foam – Sheets	x	x	x	x	x	x
Packaging	Foam – Soy Sheets	x	x	x	x	x	x
Packaging	Plastic – Shrink Wrap	x	x	x	x	x	x
Packaging	Pallet – Wood	x	x	x	x	x	x
Transport	Boat – Overseas	x	x	x	x	x	x
Transport	Ground – Truck/Rail	x	x	x	x	x	x
Maint. & Use	Clean w/ Water & Mild Cleaner	x	x	x	x	x	x
Disposal	Disassemble	x	x	x	x	x	x
Disposal	Recyclable – Fully	x	x	x	x	x	x
Disposal	Recycling – Scrap	x	x	x	x	x	x
Disposal	Reuse	x	x	x	x	x	x

Forms+Surfaces is dedicated to environmental responsibility. We maintain an Environmental Management System and are continually working to improve our impact through efficiency, material selection, vendor education, employee involvement, and an unwavering commitment to being exemplary corporate citizens. If you would like additional information on our Environmental Management System or our company environmental initiatives and policies, please feel free to contact our Sustainability Team at green@forms-surfaces.com.