

Quadra Seating System is constructed of TENSL Ultra High Performance Concrete (UHPC), an exceptionally durable material composed primarily of natural materials. The seating system has an extremely long service life requiring minimal maintenance. Aluminum components are corrosion resistant, 100% recyclable and contain recycled content. Hardwood insets are FSC® Recycled. Powder coat finishes are low- or no-VOC depending on color. Components can be disassembled at the end of life and are fully recyclable.

Recycled Content & Certifications

Configurations	Reclaimed material by weight of assembly	Post-Industrial Recycled Content	Post-Consumer Recycled Content	Total Recycled Content	3 rd Party Certifications
TENSL UHPC casting with front-to-back aperture, no inset	-	contact	contact	contact	-
TENSL UHPC casting with aluminum inset	-	contact	contact	contact	-
TENSL UHPC casting with TENSL UHPC inset	-	contact	contact	contact	-
TENSL UHPC casting with hardwood inset – FSC Recycled reclaimed Teak	contact	contact	contact	contact	FSC Recycled
TENSL UHPC casting with planter liner	-	contact	contact	contact	-

FSC License Code: FSC-C004453

Green Building Standards

LEED® v3
<i>MR2: Construction Waste Management</i> – packaging is designed to be reusable or recyclable. See below for details.
<i>MR3: Materials Reuse</i> - FSC Recycled hardwood insets have been reclaimed. Please contact for the percentage by weight.
<i>MR4: Recycled Content</i> – this product may contain recycled material. Please contact for details.
<i>MR5: Regional Materials</i> – this product is manufactured in Pittsburgh, PA. Contact for extraction information.
<i>IEQp2: Environmental Tobacco</i> – this product may be used to help designate a smoking area away from doors, windows, and ventilation inlets.
LEED v4
<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 (materials reuse)</i> - FSC Recycled hardwood insets have been reclaimed. Please contact for the percentage by weight. (recycled content) – this product may contain recycled material. Please contact for details. (regional materials) – this product is manufactured in Pittsburgh, PA. Contact for extraction information.
<i>EQp2: Environmental tobacco smoke control</i> - this product may be used to help designate a smoking area away from doors, windows, & ventilation inlets.
Green Globes™
<i>3.5.2.2 Interior Fit-Outs</i> - wood used in this product is certified by the Forest Stewardship Council (SCS-COC-001461). FSC Recycled.
<i>3.5.3.3 Reuse...Non-structural Elements</i> - FSC Recycled hardwood insets have been reclaimed. Please contact for the percentage by weight.
<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>3.7.2.9 Other Indoor Pollutants (Tobacco...)</i> - this product may be used to help designate a smoking area away from doors, windows, & ventilation inlets.
Estidama Pearl Rating System: Design & Construction, Version 1.0
<i>LBI-R2: Smoking Control</i> - this product may be used to help designate a smoking area away from doors, windows, and ventilation inlets.
<i>LBI-2.5: Material Emissions: Formaldehyde Reduction</i> – 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
<i>SM-8: Material Reuse</i> - FSC Recycled hardwood insets have been reclaimed. Please contact for the percentage by weight.
<i>SM-10: Recycled Materials</i> - this product may contain recycled material. Please contact for details.
<i>SM-12: Reused or Certified Timber</i> - wood used in this product is certified by the Forest Stewardship Council (SCS-COC-001461). FSC Recycled.

Green Building Standards continued

SITES v2 Rating System
<i>Materials C5.3: Design for adaptability and disassembly</i> - this product can be disassembled to separate recyclable components
<i>Materials C5.4: Reuse salvaged materials and plants</i> - FSC Recycled hardwood insets have been reclaimed. Please contact for percentage by weight.
<i>Materials C5.5: Use recycled content materials</i> - this product contains recycled material. Recycled content is shown above for all standard options.
<i>Materials C5.6: Use regional materials</i> - this product is manufactured in Pittsburgh, PA. Contact for extraction information.
<i>HHWB C6.10: Minimize exposure to environmental tobacco smoke (ETS)</i> - this product may be used to help designate a smoking area away from doors, windows, and ventilation inlets.
<i>Construction C7.5: Divert construction and demolition materials from disposal</i> - packaging is designed to be reusable or recyclable. See below for details.
WELL Building Standard
<i>Air – 11. Fundamental material safety</i> – please contact for details
<i>Air – 25. Toxic material reduction</i> – please contact for details
<i>Air – 28: Cleanable Environment</i> – some materials are corrosion-resistant and easily sanitized to maintain cleanliness. Contact for details.
<i>Fitness – 67. Exterior active design</i> – this product can help support occupant activity

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	
TENSL UHPC	Densely packed concrete matrix with strong chemical bonds and low water absorption yielding extremely high compressive, tensile and flexural strength. Exhibits a ceramic-like surface with integral pigment that stands up to water, salt and corrosive environmental contaminants.	5	1		x		x	x
Wood – Reclaimed Teak	Tropical hardwood valued for its beauty, durability and weather resistance. Reclaimed from old, neglected buildings.	3	1	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.
Aluminum Treatment	Aluminum receives a treatment to improve corrosion resistance and coating adhesion.
Casting	The process of creating a solid object by pouring molten metal into a mold and allowing it to cool.
Concrete Casting	Process of mixing concrete, filling molds, and curing the material in ambient or moderately climate-controlled environment.
Concrete Mold Making	Process of constructing reusable molds for forming concrete from a variety of materials, including wood, metal, and composites.
Cutting	A variety of methods may be used to cut through various materials.
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.
Reclaimed Wood Processing	Nails and other fasteners are removed from wood beams and planks. Wood is cut to size and patches are applied to repair damage caused by fasteners. Finishes are applied to adjust the wood’s color, enhance its appearance or to protect it from staining or weathering.

Processes

Process	Description
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.
Wood Reclamation	Wood is repurposed from various sources.

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. We are an EPA SmartWay® Transport Partner.

Maintenance & Use

Maintenance or Use	Description	Chemicals Required
Clean with Water and Mild Detergent	Metal and TENSL UHPC surfaces require a soft cloth with warm water and a mild detergent for maintenance.	Mild detergent
Ergonomic	Product is designed for ergonomic use, which will contribute to service life.	N/A
Tobacco Smoke Control	This product may be used to help designate a smoking area away from doors, windows, and ventilation inlets.	N/A
Wood Finishing	Wood in this product can be allowed to weather, but must be refinished with linseed oil to retain the original look.	Linseed oil

Disposal

Method	Description
Biodegradable	Wood components of this product are biodegradable.
Disassemble	Product can be disassembled to separate recyclable components.
Recyclable - Fully	All product components can be recycled.
Recycling - Scrap	Metal components can be sold for scrap.
Reuse	This item can be reused in the same or different function.

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