

Circuit Benches are durable, low maintenance, ergonomic, easy to disassemble and fully recyclable. The frame is comprised of 100% recyclable solid aluminum containing high recycled content. Powdercoat finishes are low- or no-VOC depending on color. The seat slats are made of FSC® Recycled 100% Teak hardwood which has been salvaged from old buildings.

**Recycled Content & Certifications**

Configurations	Reclaimed material by weight of assembly	Post-Industrial Recycled Content	Post-Consumer Recycled Content	Total Recycled Content	3 <sup>rd</sup> Party Certifications
FSC Recycled 100% Teak hardwood slats, freestanding	49%	4%	73%	77%	FSC Recycled

FSC License Code: FSC-C004453

**Green Building Standards**

<p><b>LEED® v3</b></p> <p><i>MR2: Construction Waste Management</i> – packaging is designed to be reusable or recyclable. See below for details.</p> <p><i>MR3: Materials Reuse</i>- wood used in this product has been reclaimed. The percentage by weight is shown above.</p> <p><i>MR4: Recycled Content</i> – this product contains recycled material. Recycled content is shown above for all standard options.</p> <p><i>MR5: Regional Materials</i> – this product is manufactured in Pittsburgh, PA. Contact for details.</p>
<p><b>LEED v4</b></p> <p><i>MRp2/MR5: Construction Waste Management</i> – packaging is designed to be reusable or recyclable. See below for details.</p> <p><i>MR3: Sourcing of Raw Materials (materials reuse)</i> – wood used in this product has been reclaimed. The percentage by weight is shown above.</p> <p><i>(recycled content)</i> – this product contains recycled material. Recycled content is shown above for all standard options.</p> <p><i>(regional materials)</i> – this product is manufactured in Pittsburgh, PA. Contact for details.</p> <p><i>MR4: Material Ingredients</i> – this product has a Health Product Declaration. Contact for details.</p> <p><i>EQ2: Low-emitting Materials</i> – inherently non-emitting sources. Contact for details.</p>
<p><b>Green Globes™</b></p> <p>3.5.2.2 <i>Interior Fit-Outs</i> - wood used in this product is certified by the Forest Stewardship Council (SCS-COC-001461), FSC Recycled 100%.</p> <p>3.5.3.3 <i>Reuse...Non-structural Elements</i> - wood used in this product has been reclaimed. The percentage by weight is shown above.</p> <p>3.5.4.1 <i>Construction Waste</i> – packaging is designed to be reusable or recyclable. See below for details.</p> <p>3.5.6.3 <i>Deconstruction and Disassembly</i> – this product can be disassembled to separate recyclable components.</p> <p>3.7.2.1 <i>Volatile Organic Compounds</i> - inherently non-emitting sources. Contact for details.</p>
<p><b>Estidama Pearl Rating System: Design &amp; Construction, Version 1.0</b></p> <p><i>LBI-2.5: Material Emissions: Formaldehyde Reduction</i> – inherently non-emitting sources. Contact for details.</p> <p><i>SM-R1: Hazardous Material Elimination</i> – product contains no ACMs and no CCA-treated timber.</p> <p><i>SM-R2/SM-13: Construction Waste Management</i> - packaging is designed to be reusable or recyclable. See below for details.</p> <p><i>SM-8: Material Reuse</i> - wood used in this product has been reclaimed. The percentage by weight is shown above.</p> <p><i>SM-10: Recycled Materials</i> - this product contains recycled material. Recycled content is shown above for all standard options.</p> <p><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 100%.</p>
<p><b>SITES v2 Rating System</b></p> <p><i>Materials C5.3: Design for adaptability and disassembly</i> - this product can be disassembled to separate recyclable components.</p> <p><i>Materials C5.4: Reuse salvaged materials and plants</i> - wood used in this product has been reclaimed. The percentage by weight is shown above.</p> <p><i>Materials C5.5: Use recycled content materials</i> - this product contains recycled material. Recycled content is shown above for all standard options.</p> <p><i>Materials C5.6: Use regional materials</i> - this product is manufactured in Pittsburgh, PA. Contact for extraction information.</p> <p><i>Materials C5.8: Support transparency and safer chemistry</i> - this product has a Health Product Declaration. Contact for details.</p> <p><i>Construction C7.5: Divert construction and demolition materials from disposal</i> - packaging is designed to be reusable or recyclable. See below for details.</p>

**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	
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.
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.
Machining	A form of subtractive or additive manufacturing often requiring specialty tooling to physically remove or add material to achieve a desired geometry.
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.
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 hand salvaged from old, neglected buildings.

**Packaging Materials**

Material	Type	Description	Disposal
Cardboard	Box	Small or light products are packaged in cardboard boxes. Reused for shipping.	Reuse/Recycle
Foam	Sheets	Micro foam sheets are used to protect the finish on products.	Reuse
Plastic	Band	Banding is used to keep products secured to a pallet during transport.	Recycle
Plastic	Shrink wrap	Shrink wrap is used to protect the finish on products and also to hold padding to products.	Recycle
Steel	Band	Banding is used to keep products secured to a pallet during transport.	Recycle
Wood	Crate	Wood crates are made to fit onsite and are reused when possible. Wood scraps are recycled into mulch.	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. We are an EPA SmartWay® Transport Partner.

**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
Ergonomic	Product is designed for ergonomic use, which will contribute to service life.	NA
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	Product is fully recyclable.
Recycling - Scrap	Materials can be sold for scrap.
Reuse	This item can be reused in the same or different function.

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](mailto:green@forms-surfaces.com).