The Knight Table Ensemble is constructed of durable materials. The frame is comprised of 100% recyclable corrosion-resistant aluminum containing high recycled content. Benches and table tops are available with FSC® 100% Ipé hardwood slats or extruded aluminum slats. FSC 100% means that 100% of the wood is responsibly sourced from forests certified by the Forest Stewardship Council. All powdercoat finishes are low- or no-VOC. The benches and table tops are ergonomic, low maintenance and easy to disassemble.

Recycled Content & Certifications

Configurations	Pre-Consumer Recycled Content	Post-Consumer Recycled Content	Total Recycled Content	3rd Party Certifications
Knight Table Ensemble, backed, FSC 100% Ipé hardwood slats	4%	0%	4%	FSC 100%
Knight Table Ensemble with ADA option, backed, FSC 100% Ipé hardwood slats	6%	0%	6%	FSC 100%
Knight Table Ensemble, backless, FSC 100% Ipé hardwood slats	5%	6%	11%	FSC 100%
Knight Table Ensemble with ADA option, backless, FSC 100% Ipé hardwood slats	7%	7%	14%	FSC 100%
Knight Table Ensemble, backed, extruded aluminum slats	9%	0%	9%	-
Knight Table Ensemble with ADA option, backed, extruded aluminum slats	9%	0%	9%	-
Knight Table Ensemble, backless, extruded aluminum slats	8%	5%	13%	-
Knight Table Ensemble with ADA option, backless, extruded aluminum slats	8%	5%	13%	-

FSC License Code: FSC-C004453

Green Building Standards

LEED® v3

MR2: Construction Waste Management – packaging is designed to be reusable or recyclable. See below for details.

MR4: Recycled Content – this product contains recycled material. Recycled content is shown above for all standard options.

MR5: Regional Materials – this product is manufactured in Pittsburgh, PA. Contact for extraction details.

MR7: Certified Wood - wood used in this product is certified by the Forest Stewardship Council (SCS-COC-001461).

IEQp2: Environmental Tobacco - this product may be used to help designate a smoking area away from doors, windows, and ventilation inlets.

LEED v4

MRp2/MR5: Construction Waste Management – packaging is designed to be reusable or recyclable. See below for details.

MR3: Sourcing of Raw Materials (wood) – wood used in this product is certified by the Forest Stewardship Council (SCS-COC-001461).

(recycled content) – this product contains recycled material. Recycled content is shown above for all standard options.

(regional materials) – this product is manufactured in Pittsburgh, PA. Contact for details.

EQp2: Environmental tobacco smoke control - this product may be used to help designate a smoking area away from doors, windows, & ventilation inlets.

Green Globes™

3.5.2.2 Interior Fit-Outs - wood used in this product is certified by the Forest Stewardship Council (SCS-COC-001461).

3.5.4.1 Construction Waste – packaging is designed to be reusable or recyclable. See below for details.

3.5.6.3 Deconstruction and Disassembly – this product can be disassembled to separate recyclable components

3.7.2.9 Other Indoor Pollutants (Tobacco…) - 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

LBi-R2: Smoking Control - this product may be used to help designate a smoking area away from doors, windows, and ventilation inlets.

SM-R1: Hazardous Material Elimination – product contains no ACMs and no CCA-treated timber

SM-R2/SM-13: Construction Waste Management - packaging is designed to be reusable or recyclable. See below for details.

SM-4: Design for Disassembly - this product can be disassembled to separate recyclable components

SM-12: Reused or Certified Timber - wood used in this product is certified by the Forest Stewardship Council (SCS-COC-001461).

Green Building Standards continued

SITES v2 Rating System
Materials P5.1: Eliminate threatened tree species - wood used in this product is certified by the Forest Stewardship Council (SCS-COC-001461).
Materials C5.3: Design for adaptability and disassembly - this product can be disassembled to separate recyclable components
Materials C5.5: Use recycled content materials - this product contains recycled material. Contact for details.
Materials C5.6: Use regional materials - this product is manufactured in Pittsburgh, PA. Contact for extraction information.
Materials C5.7: Responsible extraction of raw materials - wood used in this product is certified FSC 100% by the Forest Stewardship Council (SCS-COC-001461).
HHWB C6.4: Support mental restoration – this product can be used to provide outdoor seating.
HHWB C6.6: Support social connection – this product can be used to provide outdoor seating.
HHWB C6.10: Minimize exposure to environmental tobacco smoke (ETS) - this product may be used to help designate a smoking area away from doors, windows, and ventilation inlets.
Construction C7.5: Divert construction and demolition materials from disposal - packaging is designed to be reusable or recyclable. See below for details.
WELL Building Standard
Air – 11: Fundamental material safety – please contact for details.
Air – 25: Toxic material reduction – please contact for details.
Air – 28: Cleanable Environment – product materials facilitate easy cleaning.
Fitness – 67: Exterior active design – 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	
Wood – Ipé	Tropical hardwood valued for its appearance, strength, and high resistance to insects and decay. Native to Central and South America.	3	1	x				
Zinc	A durable, corrosion-resistant metal used in a variety of applications.	3	3		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.
Machining	A form of subtractive or additive manufacturing often requiring specialty tooling to physically remove or add material to achieve a desired geometry.
Metal Finishing	Applied using grinding/sanding or polishing wheels. Finishing produces a grained/brushed or mirror-like finish on the surface and depending on the material will increase corrosion resistance.
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

Processes continued

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.
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.
Wood Finishing	Wood is cut and sanded smooth. Finishes are applied to adjust the wood's color, enhance its appearance or to protect it from staining or weathering.
Wood Processing	Wood milled from trees and turned into lumber.
Zinc Production	Zinc is roasted and sintered before being melted and cast into ingots through a metallurgical process.

Packaging Materials

Material	Type	Description	Disposal
Cardboard	Box	Small or light products 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	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	Made to fit onsite. 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
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 wood oil to retain the original look.	Wood oil

Disposal

Method	Description
Biodegradable	Some components of this product are biodegradable
Disassemble	Product can be disassembled to separate recyclable components
Recyclable	Product is fully recyclable. Local recycling options for ipé may vary.
Recycling - Scrap	Materials can be sold for scrap
Reuse	This item can be reused in the same or different function

Summary – FSC 100% Ipé Hardwood slats

Category Type	Property/Component	Backed	Backed with ADA option	Backless	Backless with ADA option
Basic	Total Recycled Content	4%	6%	11%	14%
Basic	Pre-Consumer Recycled Content	4%	6%	5%	7%
Basic	Post-Consumer Recycled Content	0%	0%	6%	7%
Basic	3rd Party Cert	FSC 100%	FSC 100%	FSC 100%	FSC 100%
LEED v3	MR: Construction Waste Management	x	x	x	x
LEED v3	MR: Recycled Content	x	x	x	x
LEED v3	MR: Regional Materials	Contact	Contact	Contact	Contact
LEED v3	MR: Certified Wood	x	x	x	x
LEED v3	IEQ: Environmental Tobacco	x	x	x	x
LEED v4	MR: Construction Waste Management	x	x	x	x
LEED v4	MR: Sourcing of Raw Materials (wood)	x	x	x	x
LEED v4	MR: Sourcing … (recycled content)	x	x	x	x
LEED v4	MR: Sourcing … (regional materials)	Contact	Contact	Contact	Contact
LEED v4	EQ: Environmental tobacco smoke control	x	x	x	x
Green Globes	3.5.2.2 Interior Fit-Outs	x	x	x	x
Green Globes	3.5.4.1 Construction Waste	x	x	x	x
Green Globes	3.5.6.3 Deconstruction and Disassembly	x	x	x	x
Green Globes	3.7.2.9 Other Indoor Pollutants (Tobacco…)	x	x	x	x
Estidama Pearl	LBi-R2: Smoking Control	x	x	x	x
Estidama Pearl	SM-R1: Hazardous Material Elimination	x	x	x	x
Estidama Pearl	SM-R2/SM-13: Construction Waste Mgmt	x	x	x	x
Estidama Pearl	SM-4: Design for Disassembly	x	x	x	x
Estidama Pearl	SM-12: Reused or Certified Timber	x	x	x	x
SITES	Materials: Threatened tree species	x	x	x	x
SITES	Materials: Design for disassembly	x	x	x	x
SITES	Materials: Recycled content materials	x	x	x	x
SITES	Materials: Regional materials	Contact	Contact	Contact	Contact
SITES	Materials: Responsible extraction of matls	x	x	x	x
SITES	HHWB: Mental restoration	Contact	Contact	Contact	Contact
SITES	HHWB: Social connection	Contact	Contact	Contact	Contact
SITES	HHWB: Minimize exposure to ETS	x	x	x	x
SITES	Construction: Divert construction materials	x	x	x	x
WELL	Air – 11: Fundamental material safety	Contact	Contact	Contact	Contact
WELL	Air – 25: Toxic material reduction	Contact	Contact	Contact	Contact
WELL	Air – 28: Cleanable Environment	x	x	x	x
WELL	Fitness – 67: Exterior active design	x	x	x	x
Materials	Aluminum	x	x	x	x
Materials	Wood – Ipé	x	x	x	x
Materials	Zinc				
Processes	Aluminum Making	x	x	x	x
Processes	Casting	x	x	x	x
Processes	Cutting	x	x	x	x
Processes	Extruding	x	x	x	x
Processes	Machining	x	x	x	x
Processes	Metal Finishing	x	x	x	x

Summary - FSC 100% Ipé Hardwood slats continued

Category Type	Property/Component	Backed	Backed with ADA option	Backless	Backless with ADA option
Processes	Powdercoating	x	x	x	x
Processes	Sand Blasting	x	x	x	x
Processes	Welding	x	x	x	x
Processes	Wood Finishing	x	x	x	x
Processes	Wood Processing	x	x	x	x
Processes	Zinc Production				
Packaging	Cardboard – Box	x	x	x	x
Packaging	Cardboard - Spacer	x	x	x	x
Packaging	Foam Sheets	x	x	x	x
Packaging	Plastic - Band	x	x	x	x
Packaging	Plastic - Shrinkwrap	x	x	x	x
Packaging	Steel - Band	x	x	x	x
Packaging	Wood – Crate	x	x	x	x
Packaging	Wood - Pallet	x	x	x	x
Transport	Boat – Overseas	x	x	x	x
Transport	Ground – Truck/Rail	x	x	x	x
Maint. & Use	Clean w/ water & mild cleaner	x	x	x	x
Maint. & Use	Ergonomic	x	x	x	x
Maint. & Use	Tobacco Smoke Control	x	x	x	x
Maint. & Use	Wood Finishing	x	x	x	x
Disposal	Biodegradable	x	x	x	x
Disposal	Disassemble	x	x	x	x
Disposal	Recyclable	x	x	x	x
Disposal	Recycling – Scrap	x	x	x	x
Disposal	Reuse	x	x	x	x

Summary – extruded aluminum slats

Category Type	Property/Component	Backed	Backed with ADA option	Backless	Backless with ADA option
Basic	Total Recycled Content	9%	9%	13%	13%
Basic	Pre-Consumer Recycled Content	9%	9%	8%	8%
Basic	Post-Consumer Recycled Content	0%	0%	5%	5%
Basic	3rd Party Cert				
LEED v3	MR: Construction Waste Management	x	x	x	x
LEED v3	MR: Recycled Content	x	x	x	x
LEED v3	MR: Regional Materials	Contact	Contact	Contact	Contact
LEED v3	MR: Certified Wood				
LEED v3	IEQ: Environmental Tobacco	x	x	x	x
LEED v4	MR: Construction Waste Management	x	x	x	x
LEED v4	MR: Sourcing of Raw Materials (wood)				
LEED v4	MR: Sourcing … (recycled content)	x	x	x	x
LEED v4	MR: Sourcing … (regional materials)	Contact	Contact	Contact	Contact
LEED v4	EQ: Environmental tobacco smoke control	x	x	x	x
Green Globes	3.5.2.2 Interior Fit-Outs				
Green Globes	3.5.4.1 Construction Waste	X	x	x	x

Summary – extruded aluminum slats continued

Category Type	Property/Component	Backed	Backed with ADA option	Backless	Backless with ADA option
Green Globes	3.5.6.3 Deconstruction and Disassembly	X	x	x	x
Green Globes	3.7.2.9 Other Indoor Pollutants (Tobacco…)	X	x	x	x
Estidama Pearl	LBi-R2: Smoking Control	X	x	x	x
Estidama Pearl	SM-R1: Hazardous Material Elimination	x	x	x	x
Estidama Pearl	SM-R2/SM-13: Construction Waste Mgmt	x	x	x	x
Estidama Pearl	SM-4: Design for Disassembly	x	x	x	x
Estidama Pearl	SM-12: Reused or Certified Timber				
SITES	Materials: Threatened tree species				
SITES	Materials: Design for disassembly	x	x	x	x
SITES	Materials: Recycled content materials	x	x	x	x
SITES	Materials: Regional materials	Contact	Contact	Contact	Contact
SITES	Materials: Responsible extraction of matls				
SITES	HHWB: Mental restoration	Contact	Contact	Contact	Contact
SITES	HHWB: Social connection	Contact	Contact	Contact	Contact
SITES	HHWB: Minimize exposure to ETS	x	x	x	x
SITES	Construction: Divert construction materials	x	x	x	x
WELL	Air – 11: Fundamental material safety	Contact	Contact	Contact	Contact
WELL	Air – 25: Toxic material reduction	Contact	Contact	Contact	Contact
WELL	Air – 28: Cleanable Environment	x	x	x	x
WELL	Fitness – 67: Exterior active design	x	x	x	x
Materials	Aluminum	x	x	x	x
Materials	Wood – Ipé				
Materials	Zinc	x	x	x	x
Processes	Aluminum Making	x	x	x	x
Processes	Casting	x	x	x	x
Processes	Cutting	x	x	x	x
Processes	Extruding	x	x	x	x
Processes	Machining	x	x	x	x
Processes	Metal Finishing	x	x	x	x
Processes	Powdercoating	x	x	x	x
Processes	Sand Blasting	x	x	x	x
Processes	Welding	x	x	x	x
Processes	Wood Finishing				
Processes	Wood Processing				
Processes	Zinc Processing	x	x	x	x
Packaging	Cardboard – Box	x	x	x	x
Packaging	Cardboard - Spacer	x	x	x	x
Packaging	Foam Sheets	x	x	x	x
Packaging	Plastic - Band	x	x	x	x
Packaging	Plastic - Shrinkwrap	x	x	x	x
Packaging	Steel - Band	x	x	x	x
Packaging	Wood – Crate	x	x	x	x
Packaging	Wood - Pallet	x	x	x	x
Transport	Boat – Overseas	x	x	x	x
Transport	Ground – Truck/Rail	x	x	x	x

Summary – extruded aluminum slats continued

Category Type	Property/Component	Backed	Backed with ADA option	Backless	Backless with ADA option
Maint. & Use	Clean w/ water & mild cleaner	x	x	x	x
Maint. & Use	Ergonomic	x	x	x	x
Maint. & Use	Tobacco Smoke Control	x	x	x	x
Maint. & Use	Wood Finishing				
Disposal	Biodegradable				
Disposal	Disassemble	x	x	x	x
Disposal	Recyclable	x	x	x	x
Disposal	Recycling – Scrap	x	x	x	x
Disposal	Reuse	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 if you don't see the information you need for your project on this page, please contact our Sustainability Team at green@forms-surfaces.com.