Phlox Table



Environmental Data Sheet

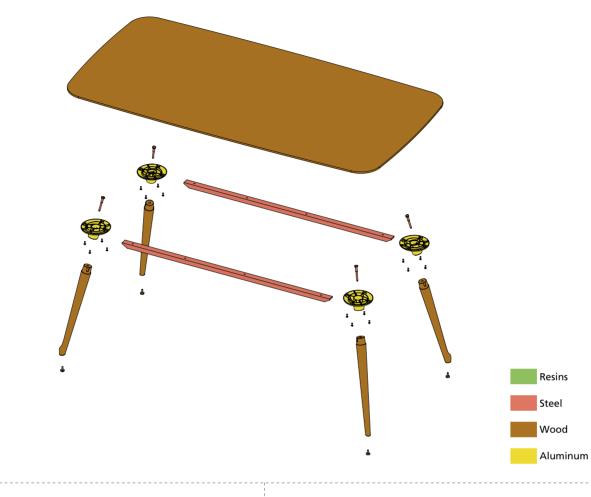


Eco-Conscious Products

analyzing finite leading-edge me economy. Designs for e after use Okamura designs homogeneous ma from post-use pro	Action principles Regulations Industrial standards	
after use Okamura designs homogeneous ma from post-use pro in major compone	s products that can be easily broken down into aterials to facilitate the reuse of parts recovered oducts and material recycling. The materials used ents are clearly identified. Regulations Industrial standards Action principles Reducing environmental impact by	
ironmental vision	Industrial standards Action principles Reducing environmental impact by	
ironmental vision	Industrial standards Action principles Reducing environmental impact by	
ironmental vision	Reducing environmental impact by	
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	Reducing environmental impact by	
assessment	Eco-conscious production	
election n material use ciency assembly ty	 Conserving energy Mitigating harmful emissions Zero emissions 	
n product design		
f recycling air quality tt safety	Reduced packaging materials Information disclosure	
	Product testing	
 Measuring the volumes of VOCs emitted Testing durability and load bearing strength Testing stability Testing for transport Measuring the volumes of specific harmful substances 		
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02

Materials & Recycling



Total control of every material used

Okamura collects thorough information on the materials, surface finishing methods, and other aspects of the parts used in its products, from the main components of its office equipment to individual screws. Detailed data on materials are provided upon request.

Recycled materials:



%

Recycled materials are used in wood, aluminum and steel parts. These materials make up about 86% by product weight.

Recyclability:

With future recyclability firmly in mind during the design stage, we use homogeneous materials as much as possible. After use, our products can be collected and disassembled into homogeneous materials.

Resins

Polyamide resins is used to ensure recycling in the future. Resins recovered after use are reprocessed and reused by resin manufactures. Okamura is an active user of recycled resins for its products.

Wood

In deference to the ecology of the earth's forests, Okamura does not use wood from illegally felled trees. We efficiently make use of wood only from properly managed forests.

Steel

Steelmakers use recovered steel to produce new steel. Steelmaking with recovered steel consumes 75% less energy than steelmaking from iron ore.

Aluminum

Recovered aluminum is processed into a recycled form by alloy manufacturers and later into aluminum. Energy consumption can be reduced by 97% by generating recycled metal from recovered aluminum rather than creating aluminum from its source creating aluminum from its source material bauxite.



Indicating materials Okamura indicates the materials used to facilitate recycling after use



Reducing Chemicals

Indoor Advantage certificated

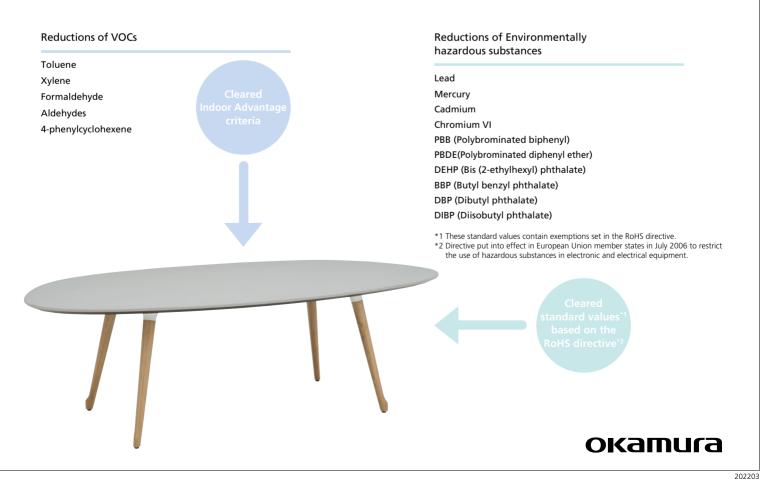
Indoor Advantage certification assures that furniture products support a healthy indoor environment by meeting strict indoor air quality(IAQ) chemical emission limits for volatile organic compounds(VOCs). To be certified, products must be tested by independent labs for compliance with the ANSI/BIFMA X7.1, Furniture Emission Standard, for VOC emissions for concern.

Reducing VOCs to safeguard health

Okamura minimizes the use of formaldehyde, toluene, xylene, and other VOCs, which can result in sick building syndrome and allergic dermatitis. Environmental load can be reduced while achieving outstanding comfort and strength.

Minimizing environmental load

Amid calls to limit the use of the earth's resources, the reuse and recycling of post-use products are now a global agenda. To ensure safe and sure progress in recycling, manufacturers must limit the use of substances with environmental loads. The latest round of enhancements in the regulatory framework started with the European Parliament's Restriction of Hazardous Substances (RoHS) directive. Though office furniture is not currently included among the targets of this regime, Okamura is working to reduce substances with environmental impacts in response to customer demand and in anticipation of future legislation.





Indoor Advantage Emission Criteria

Chemical/Chemical Group	Criteria (Seating)
Total VOC	≦ 0.25mg/m³
Formaldehyde	≦25ppb
Total Aldehydes	≦ 50ppb
4-Phenylcyclohexene	≦ 0.00325mg/m³

04

Program	Category	Category Item Contribution			
Interior Design and Construction (ID+C)	Materials & Resources (MR)	Interiors Life-Cycle Impact Reduction (1-4 points)	Option 2: Furniture Reuse : Okamura products are long-lasting and durable. Can be reuseback.		
	Materials & Resources (MR)	Building Product Disclosure & Optimization- Sourcing of Raw Materials (1-2 points)	85.6% (1/2 Pre-Consumer: 1.8%, Post-Consumer: 84.7%)		
	Indoor Environmental Quality (EQ)	Low-Emitting Materials (1-3 points)	Okamura has Indoor Advantage certificated products.		
Building Design and Construction (BD+C)	Materials & Resources (MR)	Building Product Disclosure & Optimization- Sourcing of Raw Materials (1-2 points)	85.6% (1/2 Pre-Consumer: 1.8%, Post-Consumer: 84.7%)		
	Indoor Environmental Quality (EQ)	Low-Emitting Materials (1-3 points)	Okamura has Indoor Advantage certificated products.		
Building Operations and Maintenance (O+M)	Materials & Resources (MR)	Purchasing-Facility Maintenance and Renovation (1 point)	85.6% (1/2 Pre-Consumer: 1.8%, Post-Consumer: 84.7%)		

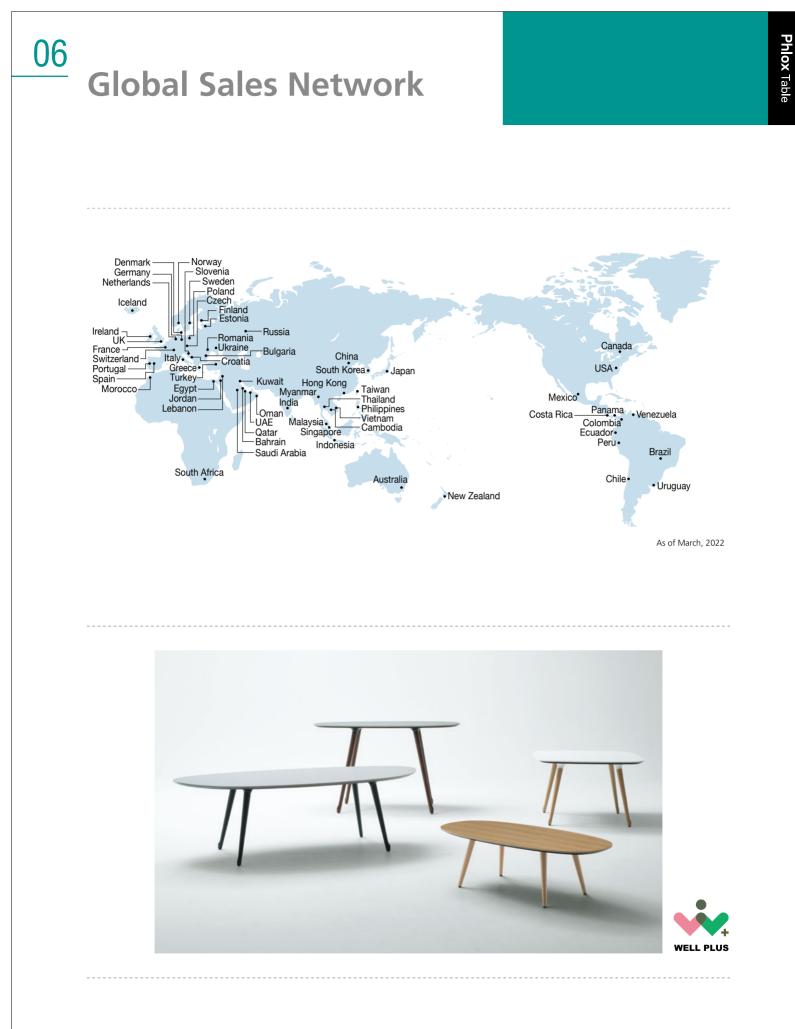
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LEED 2009 Credit Summary

05

Program	Category	Item		Contribution	Point of contribution
LEED 2009 for Commercial Interiors	Materials & Resources	MR 3.2	Materials Reuse –Furniture and Furnishings	This product is designed to be refurbished and easy replacement. And it can be used any longer by having proper maintenance. Product can contribute to this point by reusing.	1
		MR 4	Recycled Content	85.6% (1/2 Pre-Consumer: 1.8%, Post-Consumer: 84.7%)	1-2
		MR 5	Regional Materials	Assembled in Takahata town, Yamagata, Japan. Please contact us in case of the delivery outside of Japan.	1-2
	Indoor Environmental Quality	IEQ 4.5	Low emitting materials, System Furniture and Seating	Indoor Advantage certified	1
	Innovation & Design	ID 1	Innovation in Design	High percentage of recycled content.	1-5
for New Construction and Major Renovations	Materials & Resources	MR 3	Material Reuse	This product is designed to be refurbished and easy replacement. And it can be used any longer by having proper maintenance. Product can contribute to this point by reusing.	1-2
		MR 4	Recycled Content	85.6% (1/2 Pre-Consumer: 1.8%, Post-Consumer: 84.7%)	1-2
	Innovation & Design	ID 1	Innovation in design	Indoor Advantage certified	1-5
LEED 2009 for Existing Buildings, Operations and Maintenance	g Resou1rces	MR 1	Sustainable Purchasing –Ongoing Consumables	85.6%	1
		MR 2	Sustainable Purchasing –Durable Goods	(1/2 Pre-Consumer: 1.8%, Post-Consumer: 84.7%)	1-2





Visit the Okamura website for the latest updates on Okamura products. www.okamura.com

