Perlutz

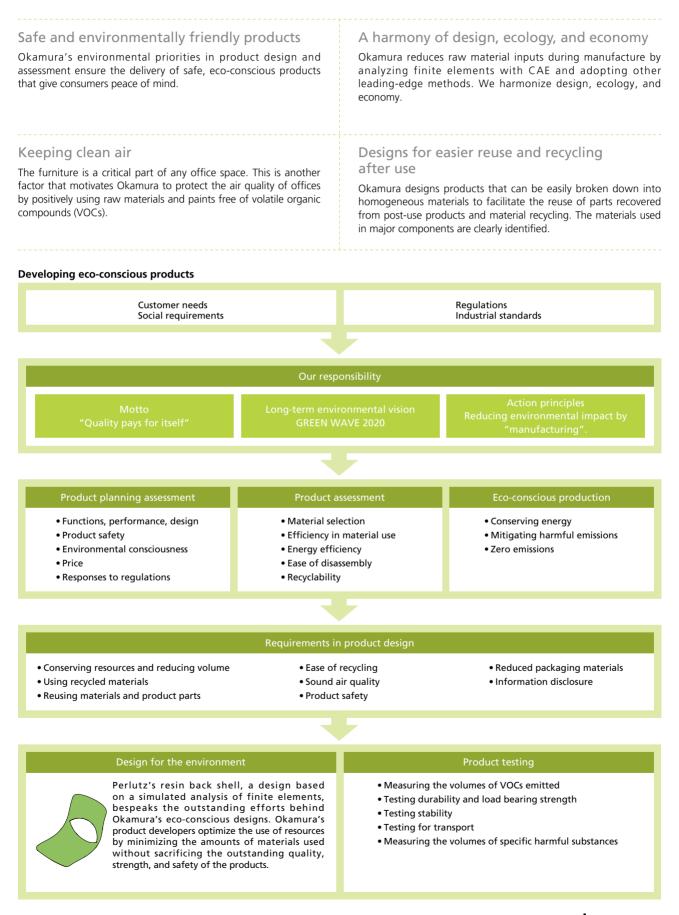


Environmental Data Sheet

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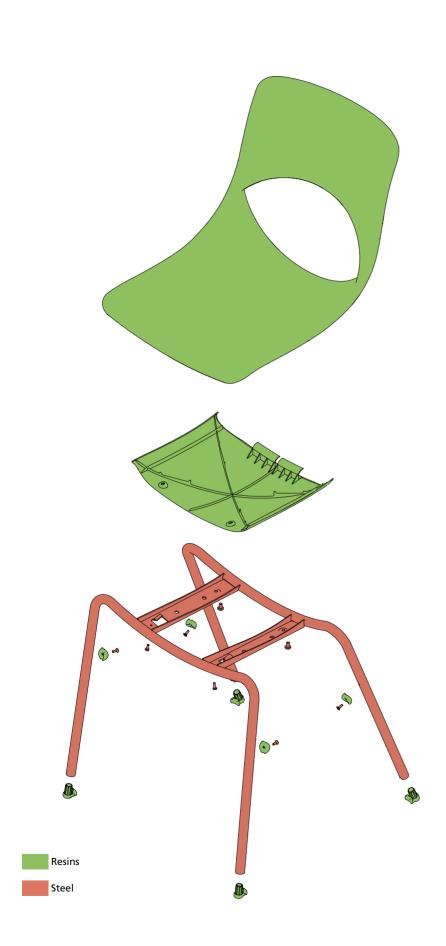
okamura

Eco-Conscious Products



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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 steel and resin parts. These materials make up about 12% by product weight.

Recyclability:

With easy disassembly and recycling always in mind, Runa is designed so materials can be thoroughly separated into the same groups.

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.



Steel

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



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Reducing Chemicals

GREENGUARD certificated

GREENGUARD is an indoor environment air quality standards used to certify products with low chemical emissions for the protection of interior environments. Certification is granted only to products that pass the pollutant emissions testing conducted in process-controlled dynamic environmental chambers following test protocols developed by Air Quality Sciences, Inc. The test protocols comply with ASTM, U.S. EPA, LEED, and BIFMA standards and requirements. Rerlutz received GREENGUARD certification in January 2016.

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.



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.



GREENGUARD

Emission Types

Individual VOCs

Formaldehyde

Total aldehydes

4-phenylcyclohexene Total VOCs

GREENGUARD Emission Criteria

Measure

<0.1TLV

<0.0033mg/m3

<0.25mg/m3

<0.05ppm

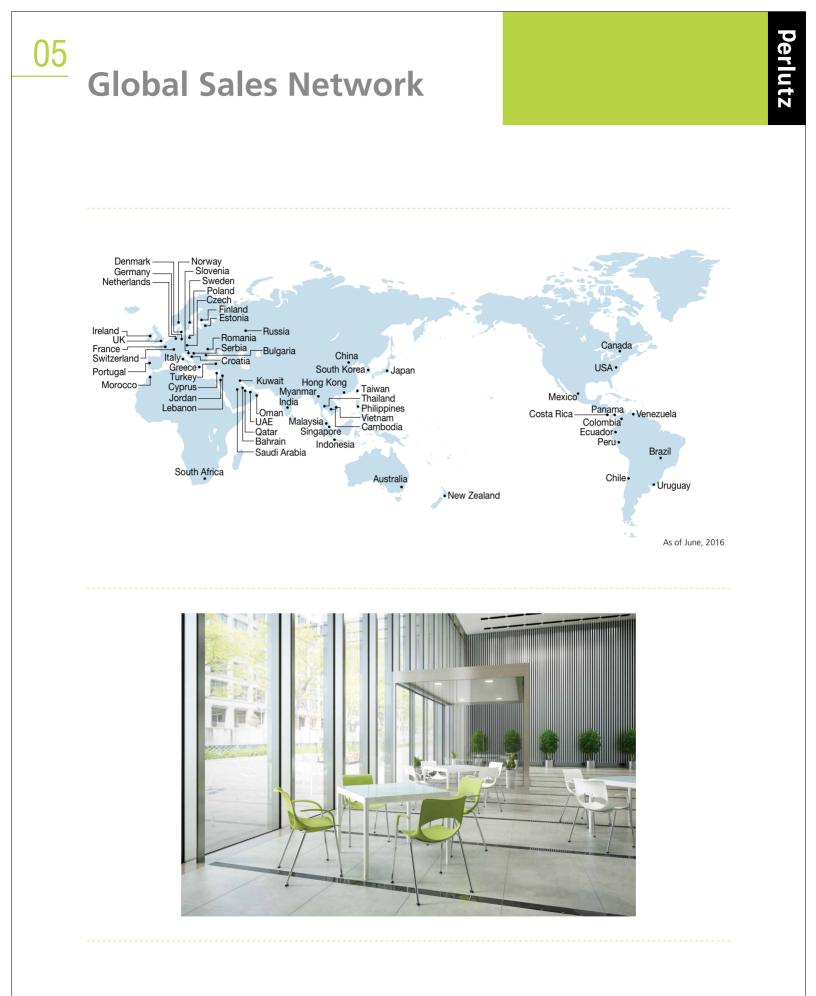
<0.025ppm (<0.03mg/m3)

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LEED Credit Summary

Program Category		ltem		Contribution	Point of contribution
Program	Category		nem	Contribution	POILIE OF CONTRIDUCIÓN
LEED 2009 for Commercial Interiors	Materials & Resources	MRc 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 the this point by reusing.	1
		MRc 4	Recycled Content	12.3% (1/2 Pre-Consumer: 0%, Post-Consumer: 12.3%)	1-2
		MRc 5	Regional Materials	Assembled in Yokosuka city, Kanagawa, Japan. Please contact us in case of the delivery outside of Japan.	1-2
	Indoor Environmental Quality	IEQc 4.5	Low emitting materials, System Furniture and Seating	Greenguard certified	1
LEED 2009 for New Construc- tion and Major Renovations	Materials & Resources	MRc 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 the this point by reusing.	1-2
		MRc 4	Recycled Content	12.3% (1/2 Pre-Consumer: 0%, Post-Consumer: 12.3%)	1-2
	Innovation & Design	IDc	Innovation in design	Greenguard certified	1-5
LEED 2009 for Existing Build- ings, Operations and Mainte- nance	Materials & Resources	MRc 1	Sustainable Purchasing –Ongoing Consumables	12.3% (1/2 Pre-Consumer: 0%, Post-Consumer: 12.3%)	1
		MRc 2	Sustainable Purchasing –Durable Goods		1-2

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Visit the Okamura website for the latest updates on Okamura products. http://www.okamura.jp/