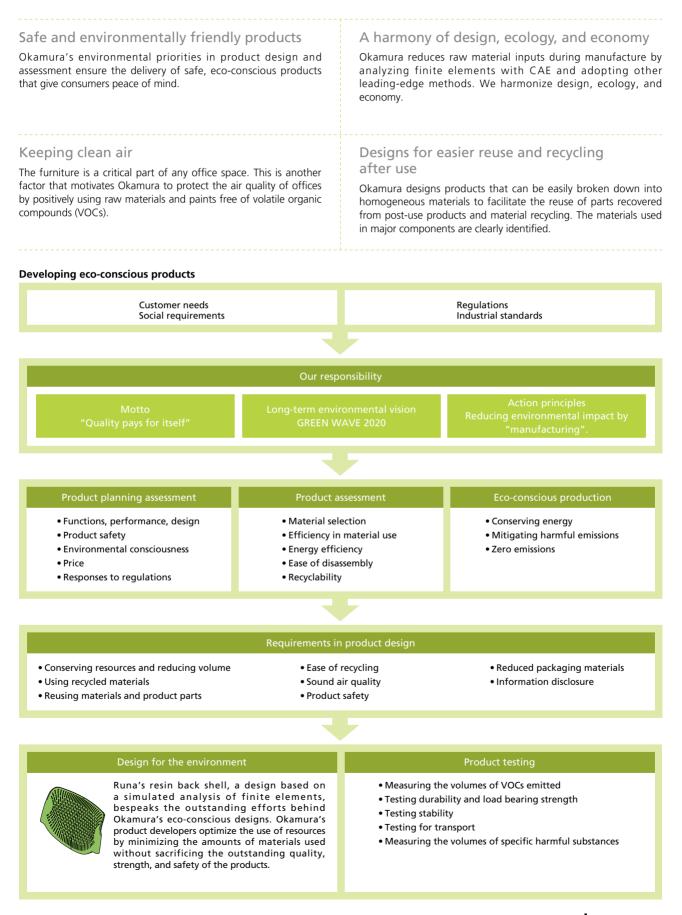


Environmental Data Sheet

Eco-Conscious Products

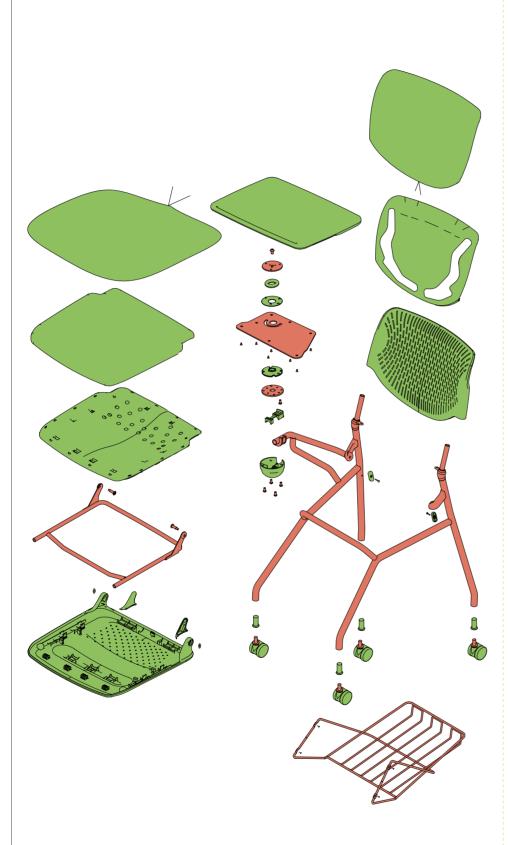


02

Resins

Steel

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 27% 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.



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. Runa received GREENGUARD certification in May 2015.

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 Criteria

Emission Types	Measure
Individual VOCs	<0.1TLV
Formaldehyde	<0.025ppm (<0.03mg/m3)
4-phenylcyclohexene	<0.0033mg/m3
Total VOCs	<0.25mg/m3
Total aldehydes	<0.05ppm

201505

LEED Credit Summary

Program	Category		Item	Contribution	Point of contribution
LEED 2009 for Commercial Interiors	Materials & Resources	MR 3.2	Materials Reuse –Furniture and Furnishings	This product (Runa) is designed to be refurbished and easy replace- ment. And it can be used any longer by having proper mainte- nance. Product can contribute to the this point by reusing.	1
		MR 4	Recycled Content	27.0% (1/2 Pre-Consumer: 0%, Post-Consumer: 27.0%)	1-2
		MR 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	IEQ 4.5	Low emitting materials, System Furniture and Seating	Greenguard certified	1
	Innovation & Design	ID 1	Innovation in Design	High percentage of recycled content.	1-5
LEED 2009 for New Construc- tion and Major Renovations	Materials & Resources	MR 3	Material Reuse	This product (Runa) is designed to be refurbished and easy replace- ment. And it can be used any longer by having proper mainte- nance. Product can contribute to the this point by reusing.	1-2
		MR 4	Recycled Content	27.0% (1/2 Pre-Consumer: 0%, Post-Consumer: 27.0%)	1-2
	Innovation & Design	ID 1	Innovation in design	Greenguard certified	1-5
LEED 2009 for Existing Build- ings, Operations and Mainte- nance	Materials & Resources MR 1 MR 2	MR 1	Sustainable Purchasing –Ongoing Consumables	27.0% (1/2 Pre-Consumer: 0%, Post-Consumer: 27.0%)	1
		MR 2	Sustainable Purchasing –Durable Goods		1-2



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