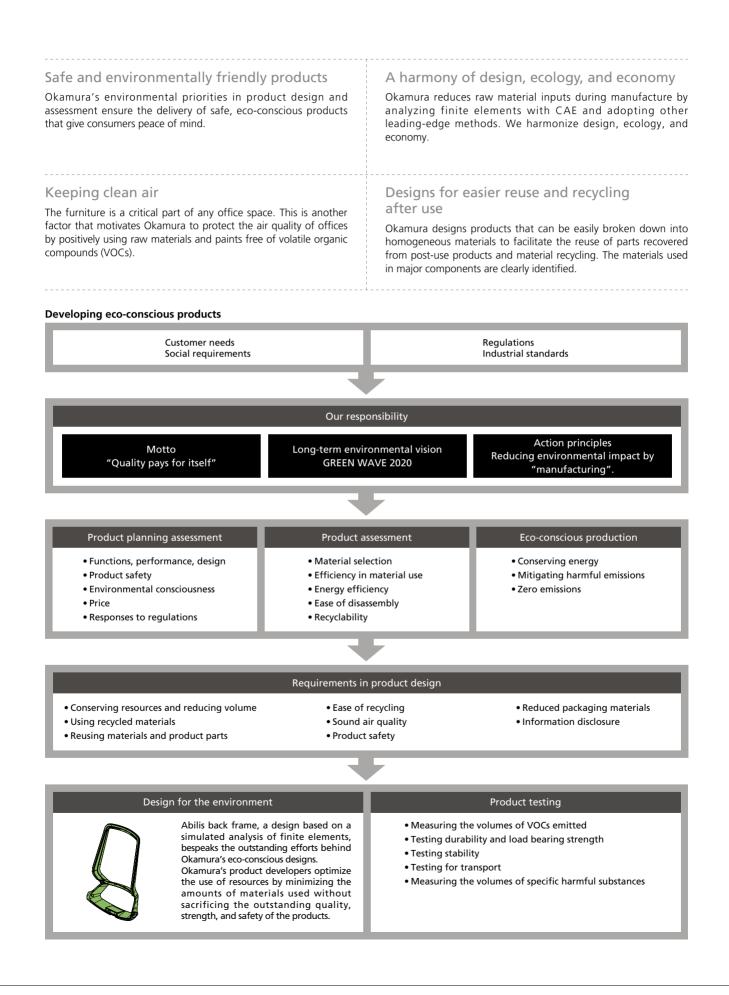




Environmental Data Sheet

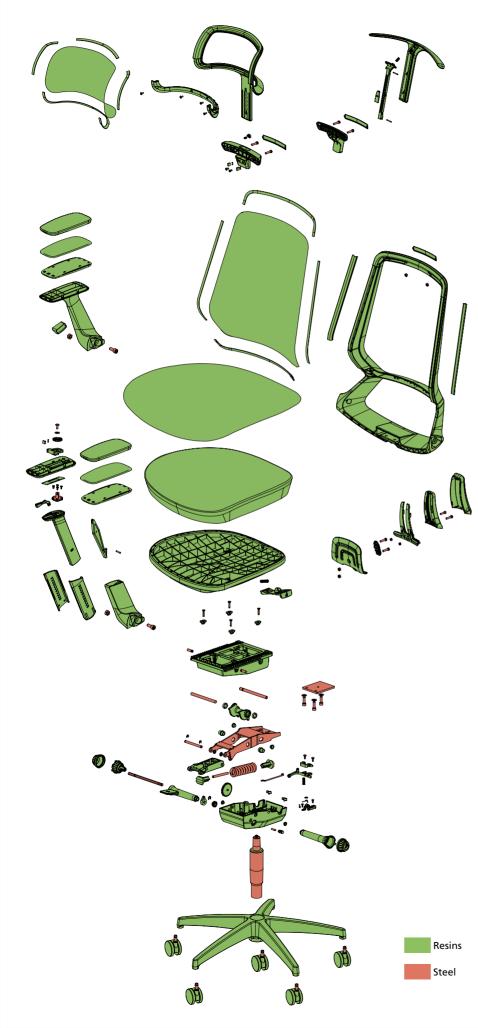
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## **Eco-Conscious Products**



# Materials & Recycling

02



#### 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 plastic, aluminum and steel parts. These materials make up about 4% 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

Polypropylene 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.



#### 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.



#### Indoor Advantage Emission Criteria

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

#### 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.



\*2 Directive put into effect in European Union member states in July 2006 to restrict the use of hazardous substances in electronic and electrical equipment.

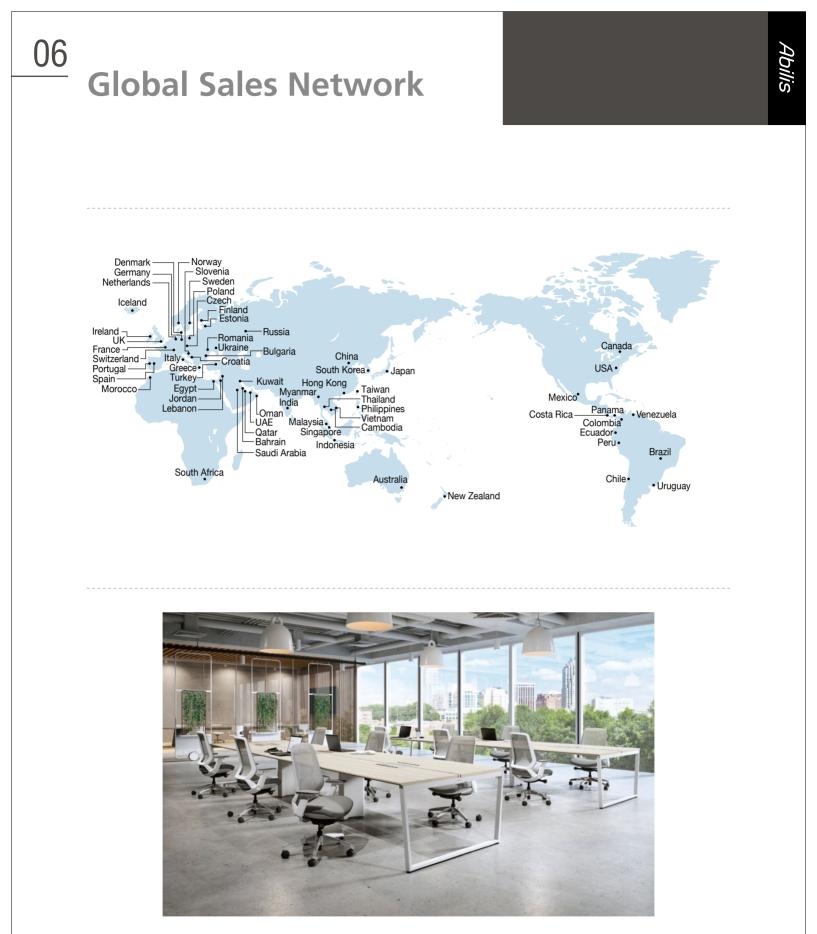
LEED	LEED v4 Credit Summary						
Program	Category	ltem	Contribution				
Interior Design and Construction (ID+C)	Materials & Resources (MR)	Interiors Life-Cycle Impact Reduction (1-4 points)	Option 2: Furniture Reuse : Okamura products are long-lasting and durable. Can reuseback.				
	Materials & Resources (MR)	Building Product Disclosure & Optimization- Sourcing of Raw Materials (1-2 points)	4.1% (1/2 Pre-Consumer: 0%, Post-Consumer: 0%)				
	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)	4.1% (1/2 Pre-Consumer: 0%, Post-Consumer: 0%)				
	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)	4.1% (1/2 Pre-Consumer: 0%, Post-Consumer: 0%)				

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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	4.1% (1/2 Pre-Consumer: 0%, Post-Consumer: 0%)	1-2
E ( 		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	Indoor Advantage certificated	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	4.1% (1/2 Pre-Consumer: 0%, Post-Consumer: 0%)	1-2
	Innovation & Design	ID 1	Innovation in design	Indoor Advantage certificated	1-5
LEED 2009 for Existing Buildings, Operations and Maintenance	Materials & Resources	MR 1	Sustainable Purchasing –Ongoing Consumables	4.1%	1
		MR 2	Sustainable Purchasing –Durable Goods	(1/2 Pre-Consumer: 0%, Post-Consumer: 0%)	1-2





OKAMURA CORPORATION International Sales & Marketing Div. www.okamura.com