

*ALBROAD*  
METAL / 23AM



Environmental  
Data Sheet

## Safe and environmentally friendly products

Okamura's environmental priorities in product design and assessment ensure the delivery of safe, eco-conscious products that give consumers peace of mind.

## A harmony of design, ecology, and economy

Okamura reduces raw material inputs during manufacture by analyzing finite elements with CAE and adopting other leading-edge methods. We harmonize design, ecology, and economy.

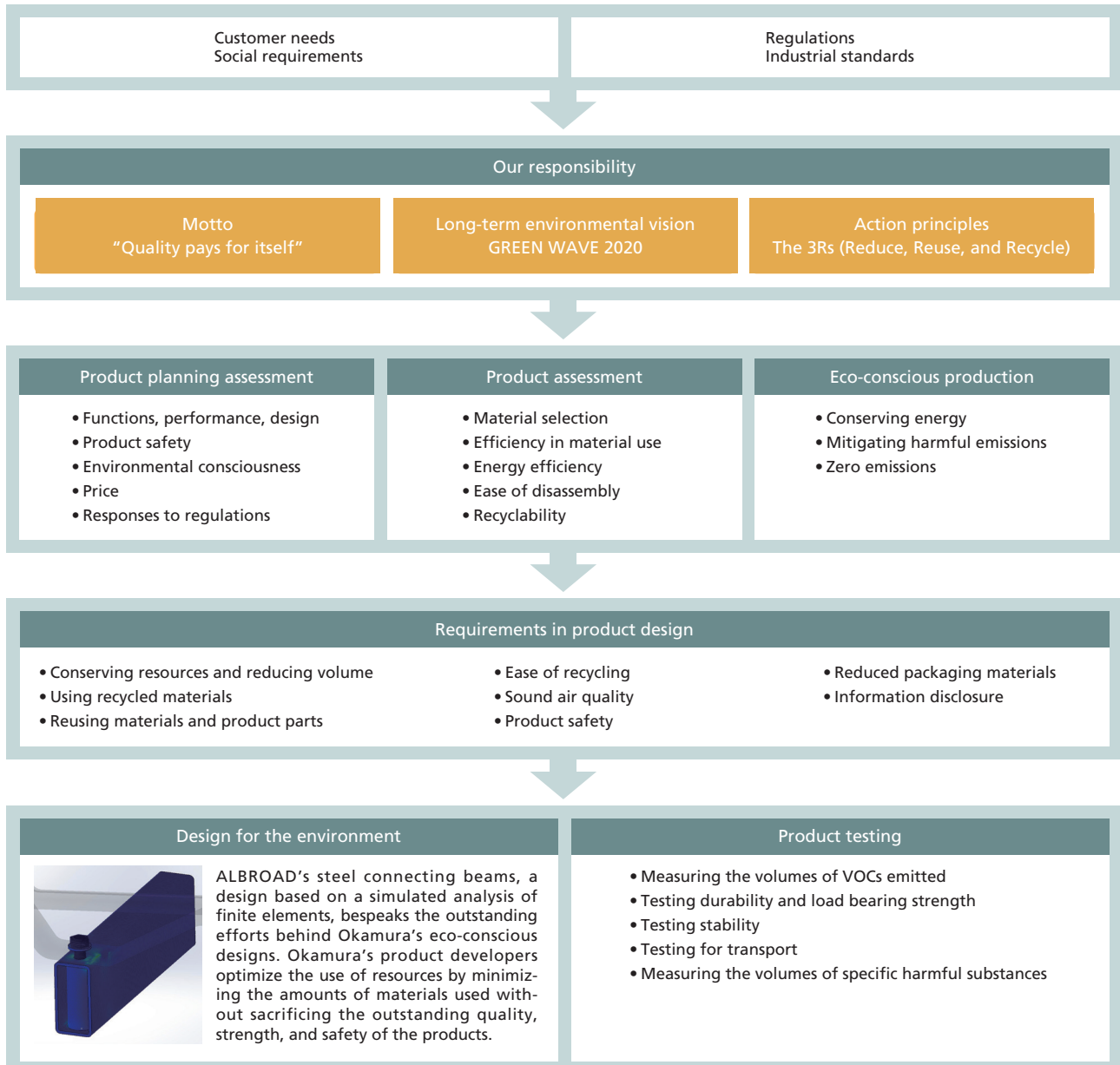
## Keeping clean air

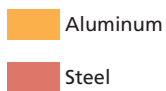
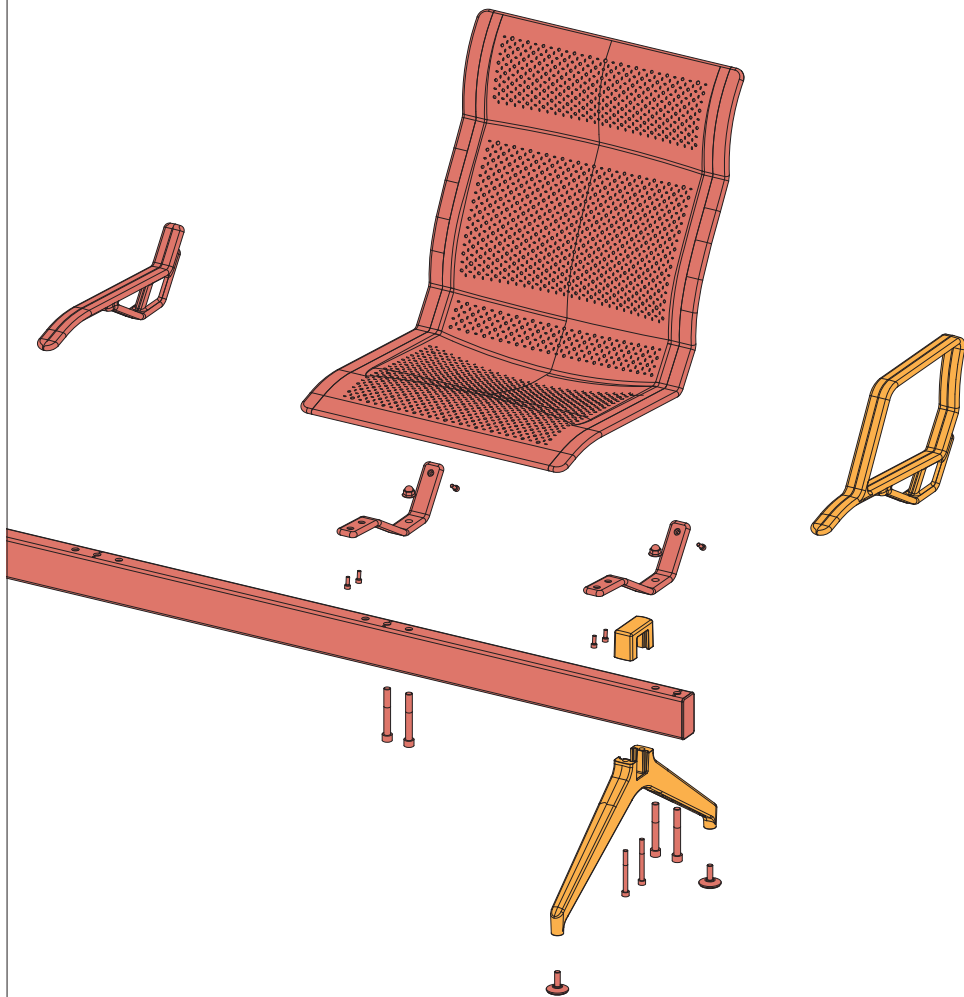
The furniture is a critical part of any office space. This is another factor that motivates Okamura to protect the air quality of offices by positively using raw materials and paints free of volatile organic compounds (VOCs).

## Designs for easier reuse and recycling after use

Okamura designs products that can be easily broken down into homogeneous materials to facilitate the reuse of parts recovered from post-use products and material recycling. The materials used in major components are clearly identified.

### Developing eco-conscious products





### 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: **7%**

Recycled materials are used in aluminum parts. These materials make up about 7% by product weight.

Recyclability: **99%**

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.

#### 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 material bauxite.



#### 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 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.

### Reductions in VOCs

Lead  
Mercury  
Cadmium  
Chromium VI  
PBB (Polybrominated biphenyl)  
PBDE  
(Polybrominated diphenyl ether)

Cleared  
standard values\*<sup>1</sup>  
based on the  
RoHS directive\*<sup>2</sup>



\*1 These standard values contain exemptions set in the RoHS directive.

\*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 Credit Summary

Program	Category	Item		Contribution	Point of contribution
LEED 2009 for Commercial Interiors	Materials & Resources	MR 3.2	Resource Reuse	This product(SW) 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. In Japan, Okamura has a service network by its subsidiary, Okamura Support and Service.	1
		MR 4	Recycled content	23.1%(1/2Pre-Consumer:1.4%, Post-Consumer:22.4%)	1-2
		MR 5	Regional materials	Assembled in Higashiosaka city,Osaka,Japan. Please contact us in case of the delivery outside of Japan.	1-2
	Innovation & Design	ID 1	Innovation in design	High percentage of recycled content.	1-5
LEED 2009 for New Construction and Major Renovations	Materials & Resources	MR 3	Material Reuse	This product(SW) 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. In Japan, Okamura has a service network by its subsidiary, Okamura Support and Service.	1-2
		MR 4	Recycled content	23.1%(1/2Pre-Consumer:1.4%, Post-Consumer:22.4%)	1-2
LEED 2009 for Existing Buildings, Operations and Maintenance	Materials & Resources	MR 1	Sustainable Purchasing-Ongoing Consumables	23.1%(1/2Pre-Consumer:1.4%, Post-Consumer:22.4%)	1
		MR 2	Sustainable Purchasing-Durable Goods		1-2



For inquiries and consultation requests:

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