



## OKAWOOD

Glass with Functional Timber Insert



*Wir denken Architekturglas weiter.*

#### **OKALUX and Sustainability:**

Optimal energy efficiency with the highest possible convenience for the user with OKALUX functional glazing – our contribution for the buildings of tomorrow.

We create everything with lasting value in mind. Every step, from the idea through the processing to the finished project, is carried out with conviction and a dedication to sustainability.

## Wide Design Varieties with Timber Inserts

The impression a building makes is largely generated by the façade, the choice of the materials playing a central role in its appearance. OKAWOOD insulating glass lends the façade an unmistakable character and adds vitality to the building shell. OKAWOOD unites high functional demands with an especially attractive design and comfortable atmosphere.

—	<b>Insulating Glass with Timber Grid</b>	<b>04-05</b>
—	<b>Wood, a Basis with Long Lasting Material</b>	<b>06-07</b>
—	<b>Designoriented Sunshade System</b>	<b>08-09</b>
—	<b>Functionality and Design Flexibility</b>	<b>12-13</b>
—	<b>Technical Data</b>	<b>14-15</b>



*Wir denken Architekturglas weiter.*

OKAWOOD – a sensual combination of sun protection and aesthetics.

## Natural Light with Warm Tones

As a natural material, wood helps to create a comfortable atmosphere within an edifice. This is also true for glazing: A filigree timber grid in the cavities of *OKAWOOD* serves as sun and glare protection. Warm, tinted light continues to illuminate the interior through the cavities between the grids while at the same time allowing a good view to the outside. The wood's grain and the nuances of colour create a vibrant atmosphere.



*OKAWOOD* is an effective sun protection which adjusts to the position of the sun and the angle of incidence. Your special requirements on transparency and light transmission can be met by a bespoke adjustment of the louvre intervals. The protected insert in the cavity makes the system maintenancefree and very long-lasting.



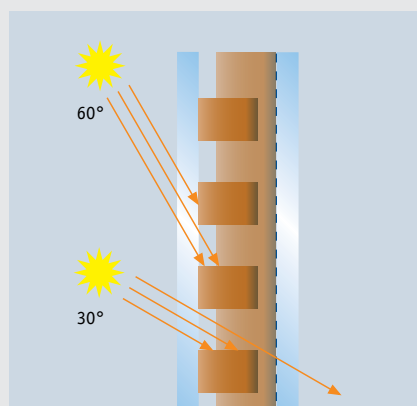


Jugendstilbad  
Art Nouveau Bath  
Darmstadt | DE  
Dr. Krieger Architects  
Lehr Metallbau

OKAWOOD  
with timber grid



The filigree timber grids with an elevation width of 10 mm are held by vertical supporting slabs at intervals of 50-60 cm.



## Landmark for Sustainability



Abachi

White Seraya



Peter Doherty  
Institute for  
Infection and  
Immunity (PDI),  
Melbourne | AUS  
Grimshaw Architects  
Permasteelisa Pty Ltd

OKAWOOD  
with variable spacing

©Peter Bennetts/Peter Doherty Institute

Only a few selected types of wood are suitable for integration in the cavity. The timber itself originates from sustainable forest cultivations.

The glass protects the timber inserts from the effects of the weather allowing them to retain their elegant, original appearance.





©Peter Bennetts/Peter Doherty Institute



©Peter Bennetts/Peter Doherty Institute

Grimshaw Architects succeeded to gently integrate the natural wood aesthetics of OKAWOOD in the façade concept of the Institute. Moreover, the FSC certified wood insert played a role in the awarded Australian “Green Star” label. A particular challenge of the project: a new curved OKAWOOD timber grid geometry has been specifically developed to suit with the design requirements of the rounded façade corners.

## Attractive Design Element

In the Archivo Historico y Provincial de Guadalajara, the building shell serves as a filter which connects the open and the closed, the public and the private areas. A protective shell, the façade also controls the lighting conditions and the ventilation. On the side of the building facing the city, *OKAWOOD* functional glass regulates the light input and creates a balance between the interior and the exterior through its visual, haptic quality.



©Javier Azurmendi





Archivo Histórico  
Provincial de Guadala-  
jara | ES  
Rojo / Fernández-  
Shaw arquitectos  
Liliana Obal  
CABBSA Obras y  
Servicios S.A.

*OKAWOOD*  
with timber grid



©Javier Azurmendi

## Elegant Combination of Wood and Glass



©Thomas Ott

*OKAWOOD* is an elegant combination of wood and glass. The timber inserts, filigree grids or plane veneers give the façades the emotional warmth as well as the vibrance of the natural material. It is this stylish vibrancy which makes *OKAWOOD* especially suitable for high-end interior design. Whether as partition wall, screen or in exhibition design: Its possibilities of application are multifunctional.

## OKAWOOD: Benefits at a Glance

### High Functionality

- Effective, direction selective sun and glare protection
- View and light transmission can be adjusted at the factory
- Fire resistance according to requirements

### Sustainability

- Renewable material
- Domestic and exotic timber grids originate from sustainable forest cultivations
- The glass protects the high-quality inserts from adverse weather conditions
- Long-lasting, maintenance-free and easy to clean

### Variety of Design and Attractive Aesthetics

- Natural appearance with unmistakable character
- Vivid building shell
- Consistent design concepts from the façade to the interior can be realized

### User Comfort

- Comfortable atmosphere through warmly tinted light
- Smart perception of surroundings


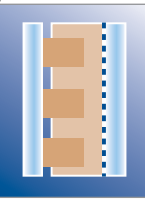


©Ali Moshiri

OKAWOOD combines the assets of high functionality together with comfortable ambience – our contribution to ameliorate living and working conditions.

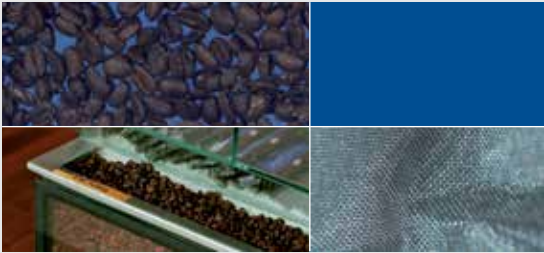


# Technical Data

Products	View	Structure	Dimension max. [mm]	Material
OKAWOOD® Timber Grid			1700 x 3500; larger sizes available upon request	Grid of rectangular slabs with an elevation width of 10 mm, Abachi, White Seraya.

## OKA X Design Variety in the Cavity

Would you like to integrate a different material? If so, bring your ideas to us. We will be glad to help you with all your planning requirements for glazing. Together we will develop a customised OKA X insulating glass for you which is perfectly in tune with your specific requirements.



$U_g$ -value [W/ (m <sup>2</sup> ·K)] <sup>2</sup> [Btu(h·ft <sup>2</sup> )/°F)]	TSET, SHGB % <sup>3</sup>	Light Transmission % <sup>3</sup>
$U_g$ -value depends on the glass panel structure and gas filling ≥ 1.3 [0.23]	11-28 depending on the angle of incidence	2-29 depending on the angle of incidence

Suitable for installation in any type of structure

<sup>2</sup> DIN EN 673

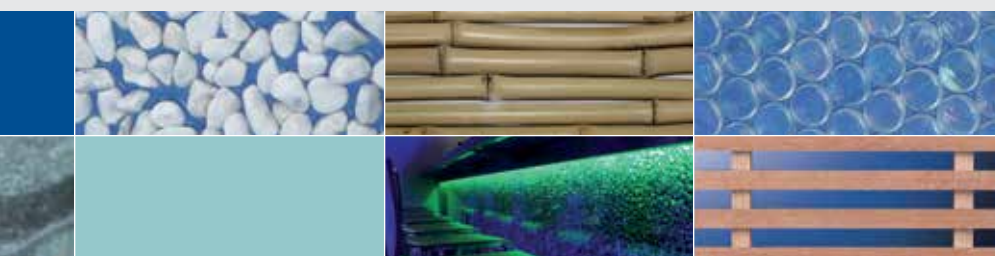
<sup>3</sup> DIN EN 410

Subject to technical changes



All OKAWOOD systems can be fitted as well with fire resistant glass matching E60 as per DIN EN 1363.

The listed values are estimates. They were determined on the basis of measurements conducted by certified test institutes and the calculations derived from them in compliance with the relevant valid standards. You will find more detailed, glass-specific information on soundproofing, fire protection, building and personal protection etc. in the internet [www.okalux.com](http://www.okalux.com), along with specified texts which we will provide on request.





OKALUX + KAPILUX



OKASOLAR



OKASOLAR 3D



OKALUX HPI



OKATECH



OKAWOOD



OKACOLOR



OKASTONE

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**DGNB**

Deutsche Gesellschaft für Nachhaltiges Bauen  
German Sustainable Building Council

OKALUX is member of the  
German Sustainable Building  
Council.



*We take architectural glass a step ahead.*