REHAU®
Unlimited Polymer Solutions

RAUVISIO CRYSTAL

THE FLEXIBLE GLASS LAMINATE

www.rehau.com/rauvisio

Construction
Automotive
Industry

RAUVISIO CRYSTAL

NEW DIMENSIONS FOR DESIGN WITH REAL GLASS EFFECT SURFACES

RAUVISIO crystal – brilliant interpretations for furniture fronts.

Furniture design needs inspiration and innovation. New ideas require new products and production options. REHAU has completely reinterpreted the surface to do this.

With the RAUVISIO crystal surface material a perfect balance is created between puristic design and a high-quality glass effect, combined with flexible processing. The RAUVISIO crystal product range opens up a completely new dimension in design options.

reddot design award
honourable mention 2013

interzum award:
intelligent
material & design
2013

The outstanding surface

The product RAUVISIO crystal as well as the matching RAUKANTEX visions Duo-Design laser glass edgeband were awarded both the „red dot Design Award – honourable mention 2013“ as well as the „interzum award 2013 – for high product quality“.

Whether it is in the kitchen, bathroom or the living room – glass is widely used in furniture design nowadays. Glass lends pieces of furniture an air of elegance and quality.

With the kind permission of Möbel Biller

REAL GLASS
A MATERIAL WITH LIMITS

This look is also accompanied by extensive production requirements though: Customised sizing, positioning of handle elements and the free selection of handle solutions require a lot of planning. With respect to industrial production, this results, in particular, in considerable stocking requirements for each variant. In addition, the propensity of glass to break also leads to higher reject volumes during processing.

However, glass also remains sensitive to impact and susceptible to breakage during daily use. It is also difficult to clean, since after a certain period of time, dirt will invariably accumulate in the joints between the surface and the board.

RAUVISIO CRYSTAL

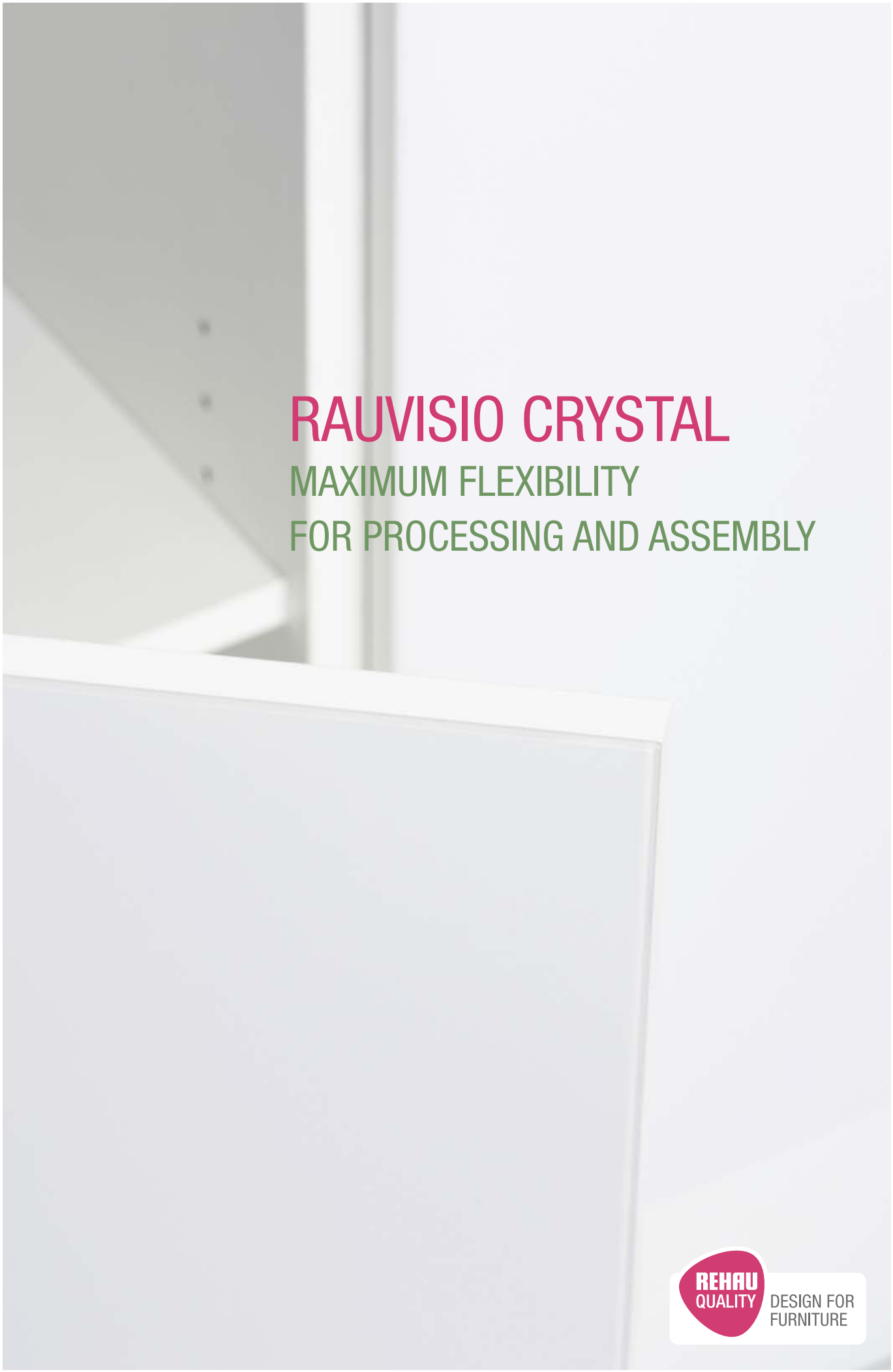
THE FLEXIBLE GLASS LAMINATE

With the polymer glass solution RAUVISIO crystal, REHAU offers maximum flexibility for manufacturing fronts and splash backs, but also side walls with a glass effect.

Customised and tailored cuts, flexible drill holes for handles, different shapes and the highlight: one large size board for all variants. This is the ultimate breakthrough for industrial high volume production.

In addition, weight savings in comparison to real glass solutions also open up a new dimension in design possibilities.

Also as a niche application in the kitchen area RAUVISIO crystal offers maximum flexibility and therefore significant advantages for the trade but also the end customer. In comparison to real glass flexible assembly on site can take place with the polymer glass laminate. The exact gaps for electrical elements, such as sockets, can be measured and cut on site.



RAUVISIO CRYSTAL

MAXIMUM FLEXIBILITY FOR PROCESSING AND ASSEMBLY

REHAU QUALITY DESIGN FOR FURNITURE

THE ADVANTAGES OF RAUVISIO CRYSTAL
FOR INDUSTRIAL PROCESSORS AT A GLANCE

The polymer large size board for maximum flexibility during processing.

Production

Maximum flexibility in processing:

The polymer large size board for all variants. Less stock, tailored cuts, flexible drill holes, different shapes – open up the potential to transfer the added value for fronts, framework and splash back solutions to in-house production.

Fewer rejects:

The reduced sensitivity to impact and fracture means that there is up to 20 % less rejects.

Lightweight:

The low weight opens up new design perspectives for functional elements, e.g. dishwashers, etc. The cost savings for transport, packaging and assembly are also obvious.

Outstanding glass effect due to brilliant depth effect.

Appearance

High gloss, reflective surfaces:

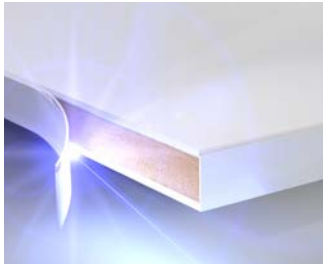
Colour vibrancy with depth effect.

Colourfast and UV-resistant:

There are no colour variations due to varying light and sunlight conditions.

Colour consistency of surfaces - tight colour tolerances:

The polymer material creates the conditions for tight colour tolerances of surfaces and edgeband materials.



*Laser edging produces a jointless bond between the edgeband and board.**

Material

Jointless surface with laser edging:

Laser edging produces a jointless bond between the board and edgeband. This means that there is no visible dirty joint, in which bacteria can build up. In addition to this, laser edging produces a functional, closed component that water cannot enter.*

Non-porous, hygienic surface:

Easy cleaning of the non-porous material. Deposits in joints and pores are not possible.

AMK test results*

The RAUVISIO crystal system component with applied edgeband meets the test requirements of the Arbeitskreises Moderner Küchen (AMK).

Important properties:

Furniture fronts with REHAU product components are resistant to temperature, water vapour and alternating climates. The laser edged components are therefore suitable for container transport.

** The respective fabricator or manufacturer of the component is responsible for the quality of the laser edging.*

Mechanical test results

Chemical resistance:

The material is resistant to household chemicals and substances as well as disinfectants (tested chemical substances can be found in the Technical Information for RAUVISIO crystal).

Scratching and abrasion resistance:

The material is resistant to domestic wear and tear.

Breaking resistance:

The RAUVISIO crystal material is resistant to breaking and is therefore suitable for industrial large-scale production. The material resistance however also benefits the end customer.

Minimal warpage under the effects of heat and cold:

Through the coordinated material components the warpage of the furniture front under the effects of heat and cold can be minimised.

RAUVISIO crystal - glass effect without compromise.

Environmentally-friendly

Harmless:

The material RAUVISIO crystal is environmentally safe.

PEFC / FSC certification of the supplier for timber frame crates:

The wooden substrate materials are proven to originate from ecologically, economically and socially sustainable forestry.

Disposal:

The material can be disposed of in the household waste.

RAUVISIO crystal is supplied in large size and is ideally suited for industrial production.

Processing

Woodworking tools:

Processing is possible with common woodworking tools.

Know-how from one source

Product range coordination guide from one source - the REHAU product range and service package:

REHAU supplies the know-how package for producing high-quality glass effect fronts - naturally in the product range coordination guide. The professional, coordinated system package consists of the product components:

RAUVISIO crystal Systembauteil – Glass laminate pressed with a wooden substrate and matching balancing sheet

RAUKANTEX visions Duo-Design laser – The real glass effect laser edgeband

Technical Service – REHAU offers a technical service for providing advice about the processing of REHAU product components. In short this means: just one contact for all product components for producing high-quality fronts, sides and splash back applications.

The product range: system component and laser edge from one source.

THE ADVANTAGES OF RAUVISIO CRYSTAL
FOR END CONSUMERS AT A GLANCE

RAUVISIO crystal - Glass design in a new quality.

Design

Clear, classic, stylish, puristic design:

- Jointless due to laser edging
- Timeless design with depth effect
- Crystal/real glass effect design
- Transparency in the edgeband area perfects the crystal / real glass effect
- Product range coordination guide surface, balancing sheet, laser edge
- Product range coordination guide splash back & front

Easy to clean with water and a microfibre cloth.

Easy to handle during day-to-day use

Hygienic and durable:

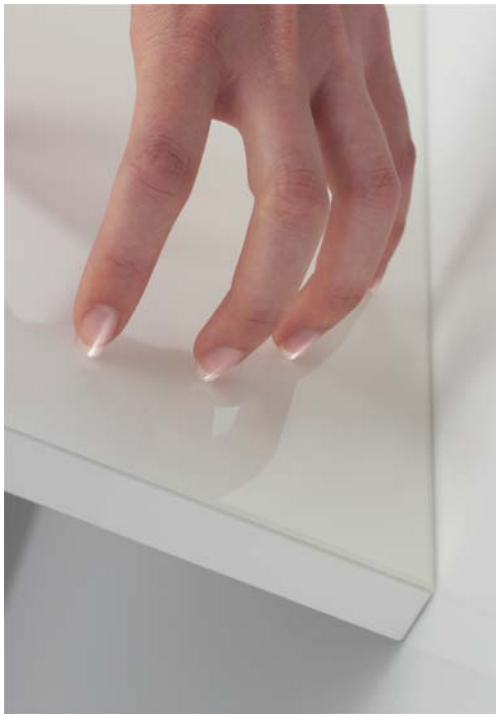
- Easy to clean with water, microfibre cloth, sponge
- No dirty glue gaps due to jointless laser edging
- Marking of the fronts possible with a board marker (water-soluble)
- Finger marks are easy to remove
- Lotus effect – Fluids roll off
- Hygienic: Resistant to mould and bacteria
- Shock-resistant, impact-resistant, resistant to breaking
- Scratch-resistant against domestic wear and tear
- UV resistant
- Lightfast
- Resistant to heat and moisture due to laser edging on the reverse

*The laser edging protects the component against moisture getting into the board.**

Easy removal of finger marks.

** The respective fabricator or manufacturer of the component is responsible for the quality of the laser edging.*

The new RAUVISIO crystal product range is revolutionising the market for glass applications. The innovation fully compensates for the disadvantages of real glass and combines its advantages with the positive polymer properties of thermoplastic laminate.



RAUVISIO CRYSTAL

THE POLYMER GLASS LAMINATE – COMPOSITION OF THE SYSTEM

All components: Surface, bonding adhesive, wooden substrate, balancing sheet as well as the matching laser edgeband have been matched to each other and tested. In order to ensure the quality of the pressed boards for our customers, REHAU supplies the pressed RAUVISIO crystal board as well as the matching laser edgeband in real glass effect.

Design perfection - High-tech composition for maximum design freedom

REHAU supplies the whole know-how package for producing high-quality fronts from one source. The RAUVISIO crystal glass laminate has a multi-layer composition and a material thickness of 2.5 mm.

The material thickness of the balancing sheet is matched to the overall design. Depending on the respective application, for example front, splash back element, framework solutions, etc. the material thickness of the wooden substrate is selected.

RAUVISIO crystal:
- Scratch-resistant UV lacquer
- Transparent PMMA layer
- Coloured styrene copolymer

Adhesive
Wooden substrate
Adhesive
Balancing sheet

RAUKANTEX visions Duo-Design laser:
- Laser functional layer
- Coloured edgeband edge
- Transparent edgeband edge

RAUVISIO crystal - the system component: polymer glass laminate, pressed on to a wooden substrate with matching balancing sheet.

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FURNITURE

THE PRODUCT RANGE FROM REHAU
AT A GLANCE

Product range coordination guide surface, edgeband, balancing sheet. Due to the maximum coordinating design of the surface, edgeband and balancing sheet REHAU creates perfection in high-quality, polymer front and splash back applications.

RAUVISIO crystal
System component

RAUKANTEX laser edge

Technical
advice service

Customer
Producing high-quality components in real glass effect, e.g. fronts, splash back elements for kitchens, etc.

COLOUR COLLECTION

SURFACE, EDGEBAND, BALANCING SHEET

RAUVISIO crystal is supplied as a pressed board in large size, consisting of the glass laminate and matching balancing sheet.

RAUVISIO crystal – the glass laminate

Bianco, V2778

Mat.no. 1305117 1001

Perla, V2892

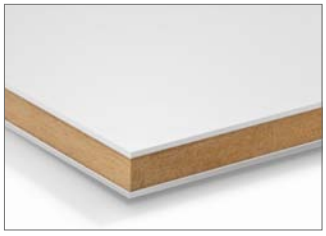
Mat.no. 1305117 1002

Magnolia, 73703

Mat.no. 1305117 1003

The pressed board is supplied in the dimensions 1,300 x 2,800 mm, 19 mm.

RAUVISIO crystal – the balancing sheet



Bianco

Perla

Magnolia

RAUKANTEX visions Duo-Design laser – the coordinated, laser-compatible edgeband collection

Bianco, 2632E

Mat.no. 1950186 1005

Mat.no. 1950187 1005

Perla, 2385E

Mat.no. 1950186 1004

Mat.no. 1950187 1004

Magnolia, 2826E

Mat.no. 1950186 1006 — 23 x 1,2 mm

Mat.no. 1950187 1006 — 23 x 1,5 mm

The edgeband product range from stock at a glance. Please contact your REHAU sales office for individual customer requirements –
We will be happy to advise you.

RAUVISIO CRYSTAL

PRODUCT RANGE COORDINATION GUIDE WITH RAUKANTEX LASER EDGE

The unique glass effect is created through the combination of surface and edgeband. As an edgeband specialist, with the laser-compatible RAUKANTEX visions Duo-Design edgeband REHAU creates the perfect laser glass design. The glass on a roll is perfectly matched to the system component surface, wooden substrate and balancing sheet both at a functional and visual level.

The matching edgeband provides various design options.

The perfect match

RAUVISIO crystal offers the perfect interplay of modern design and the processing advantages of polymer materials: Unique, three-dimensional depth effect and modern transparency with numerous processing options. The PMMA material allows a gloss effect to be applied to even the edgeband radius, as the radius can be polished to the gloss level of the edgeband and surface.
As an edgeband specialist REHAU offers different options regarding the finish of the glass effect in the edgeband area.

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THE AUTHORISED PARTNER CONCEPT

GUARANTEE FOR BRILLIANT SERVICE

REHAU supplies the whole product range for producing high-quality fronts and splash backs from stock. Whether pressed boards or laser edgebands, REHAU provides the entire jointless system package including technical advice service. As one of the world's largest polymer processors and an industry specialist for design management, REHAU stands for excellent colour vibrancy, UV resistance and excellent processing properties.

REHAU works with selected, authorised fabricators in order to ensure the quality of the pressed board.

As a result you benefit from the optimum synergy of material and pressing expertise - this is shown in the outstanding quality of the system component - pressed board as well as laser edge.

REHAU – INNOVATIVER DEVELOPMENT PARTNER

SURFACE SOLUTIONS WITH KNOW-HOW

As a specialist in polymer processing REHAU also plays a pioneering role in the areas of surface and design.
We devise innovative solutions and follow the product from the initial idea via development through to series production. In doing so, we guarantee the highest productivity and process reliability. Fulfilling quality demands and the requirements of our customers is our focus when doing this.

For decades REHAU has been a reliable partner to the furniture sector. One of REHAU's strengths is being able to identify developing trends early on and incorporating them into innovative products for the benefit of its customers.

With our global network of skilled technical and commercial employees we are able to offer advice throughout the whole process, meet special requirements and offer individual solutions to our customers. We offer support every step of the way.

The combination of innovative strength, process, design and material expertise accumulated over decades in the furniture sector, give us the extensive product portfolio and wide range of services that make REHAU a powerful system supplier and development partner.

RAUVISIO brilliant

Total seamless integration in high gloss design. The high gloss laminate RAUVISIO brilliant from REHAU with the matching laser edge creates the perfect overall gloss finish for your fronts - even in the radius area. Surface, laser edge and balancing sheet – a coordinated product range from one source from REHAU.

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