

08 Technical data

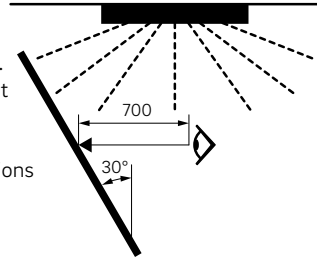
RAUVISIO brilliant is an acrylic laminate that is made up of a coextruded styrene copolymer and acrylic layer.

The acrylic laminate is designed for furniture/design surfaces that are used in vertical interiors. The acrylic top side is protected by a PE foil, which must only be removed at the installation location.

Product data	Test standard	Laminate	Symmetrically pressed board with colour-consistent, polymer balancing sheet	Pressed board with white, polymer balancing sheet ¹⁾	Edged component
Thickness	As per technical drawing based on DIN 438-2	0.6–0.8 mm ± 0.05 mm			
Pressed board MDF substrate 12 mm	As per technical drawing based on DIN 438-2		13.5 mm ± 0.4 mm		13.5 mm ± 0.4 mm
Pressed board MDF substrate 16 mm	As per technical drawing based on DIN 438-2		17.5 mm ± 0.4 mm		17.5 mm ± 0.4 mm
Pressed board MDF substrate 17 mm				17.8 mm ± 0.4 mm	
Pressed board MDF substrate 18 mm	As per technical drawing based on DIN 438-2		19.5 mm ± 0.4 mm		19.5 mm ± 0.4 mm
Pressed board MDF substrate 28 mm	As per technical drawing based on DIN 438-2		29.5 mm ± 0.4 mm		29.5 mm ± 0.4 mm
Width	As per technical drawing based on DIN 438-2	1,300 mm ± 2.0 mm	1,300 mm ± 2.0 mm	1,300 mm ± 2.0 mm	Dimension ± 0.5 mm
Length	As per technical drawing based on DIN 438-2	2,800 mm ± 5.0 mm	2,800 mm ± 5.0 mm	2,800 mm ± 5.0 mm	Dimension ± 0.5 mm
Angle deviation	As per technical drawing based on DIN 438-2	90° ± 0.3°	90° ± 0.3°	90° ± 0.3°	Max. 0.5 mm/ 1,000 mm
Edge defects	As per technical drawing based on DIN 438-2	15 mm	15 mm	15 mm	

¹⁾ No guarantee for component tests in accordance with AMK, however resistant to temperatures of up to 50 °C in accordance with AMK-MB-001; no certification in accordance with TÜV; no PEFC certification

Visual properties	Test standard	Requirements	Test result
Surface gloss level	AMK-MB-009, 09/2010	Measurement with 60° measurement geometry	≥ 85 GLE high gloss <6 GLE matt
Colour	AMK-MB-009, 09/2010	No significant change to the limit sample; even covering properties	Fulfilled
Surface	AMK-MB-009, 09/2010 following EN ISO 7823-2*	Uniform surface, surface defects must not affect the overall appearance from a distance of 0.7 m. A flawless surface cannot be guaranteed due to the industrial production process, small imperfections and surface irregularities are permissible.	Fulfilled
Light fastness	Based on DIN EN ISO 4892-2, Process B Duration of the test: to DIN EN ISO 105 B01–B06 Assessment of the sample: to DIN EN ISO 105 A02	Assessment according to the blue scale Assessment according to the grey scale	Level 7 ≥ Level 4



* This standard refers exclusively to the extrusion process step; downstream process steps are not taken into account.

Material properties of the layer material	Test standard	Requirement
Density (acrylic laminate)	DIN EN ISO 1183-1 (05.04)	1.06 g/cm ³
Fire behaviour	DIN 4102/1	B2
Material purity/sand content	Residue on ignition according to test specification	≤ 1%

Surface properties of the coating material	Test standard	Requirements	Test result			
Surface tension Adhesive side	Check with test ink	≥ 44 mN/m upon delivery	≥ 38 mN/m during bonding			
Chemical resistance*	DIN 68861/T1	1A/1B	See "Substances" table on page 21			
Performance in dry heat	DIN 68861/T7	Stress group min. 7 D	No change at 70 °C			
Behaviour in moist heat	DIN 68861/T8	Stress group min. 8 B	No change at 70 °C			
Performance in water vapour	DIN EN 438-2	Level 5				
Scratch-resistance			RAUVISIO brilliant	RAUVISIO brilliant SR gloss	RAUVISIO brilliant SR matt	RAUVISIO brilliant noble matt
	DIN 68861/T4		Class 4D	Class 4D	Class 4B	Class 4D
Micro-scratch resistance	DIN CEN TS 16611 Procedure A		Class 4	Change in gloss level 5% (measurement with 60° measurement geometry)	Change in gloss level 18% (measurement with 60° measurement geometry)	Change in gloss level 11% (measurement with 60° measurement geometry)
	DIN CEN TS 16611 Procedure B		Class 2	Class 5	Class 5	Class 3
Antibacterial action in RAUVISIO brilliant noble matt	JIS Z 2801:2012 ISO 22196	Antibacterial activity of Escherichia coli and Staphylococcus aureus	≥ 4 log reduction ≥ 99.99% reduction			

* The testing of the chemical resistance to DIN 68861-1 includes the substances given in the table on page 19, other substances have not been tested specifically and are to be tested by the customer separately.

Component tests on the edged component

The delivery contents from REHAU includes the RAUVISIO brilliant with and without edging. The details below refer to the finished, edged component with RAUKANTEX pro. Please note that REHAU only accepts warranty liability for its scope of supply as per the REHAU specification, not for the finished, edged component. The results of the component tests on the finished, edged component are dependent on the machine and process parameters to be set by the customer for

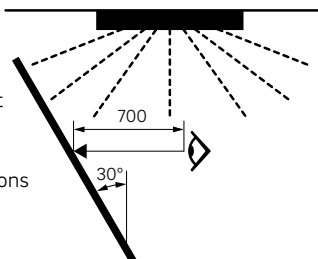
processing RAUVISIO brilliant, using the suitable edgeband as well as full compliance with the REHAU processing instructions in accordance with this Technical Information. REHAU Applications Engineering Department provides appropriate support for the setting of machine and process parameters. Please note that our consultation in application technique is correct to the best of our knowledge, but we cannot accept any liability for this free service, which is provided without obligation.

Component tests	Test standard	Test result
Temperature resistance	Assessment to AMK-MB-001 (05/03)	Passed
Infiltration of water vapour	Assessment to AMK-MB-005 (07/2007), Module 1	Passed
Humid climate resistance	Assessment to AMK-MB-005 (07/2007), Module 2	Passed
Alternating climate resistance	Assessment to AMK-MB-005 (07/2007), Module 3	Passed
Long-term heat storage 4 weeks 50 °C	Assessment after 24h acclimatisation	Passed

Technical data RAUVISIO brilliant balancing sheet

The balancing sheet matched in colour to RAUVISIO brilliant consists of coextruded polymer that has a fine embossing. The balancing sheet is designed for the reverse of furniture/design surfaces that are used in vertical interiors.

Product data	Test standard	Dimensions
Thickness	Assessment according to AMK-MB-001 (05/03)	0.6–0.7 mm $\pm$ 0.05 mm
Width	Assessment according to AMK-MB-005 (07/2007), module 1	1,300 mm $\pm$ 2.0 mm
Length	Assessment according to AMK-MB-005 (07/2007), module 2	2,800 mm $\pm$ 5.0 mm
Angle deviation	Assessment according to AMK-MB-005 (07/2007), module 3	90° $\pm$ 0.3°

Visual properties	Test standard	Requirements	Test result
Colour			No significant change to the limit sample; even covering properties
Surface	AMK-MB-009, 09/2010	Uniform surface, surface defects must not affect the overall appearance from a distance of 0.7 m. A flawless surface cannot be guaranteed due to the industrial production process, small imperfections and surface irregularities are permissible.  The diagram illustrates the inspection method for the surface. It shows a horizontal surface with a viewing angle of 30 degrees and a distance of 700 mm from the surface to the observer's eye. The word 'Fulfilled' is written next to the diagram.	Fulfilled

Material properties	Test standard	Requirement
Fire behaviour	DIN 4102/1	B 2
Material purity/sand content	Residue on ignition according to test specification	$\leq$ 1%

Surface properties	Test standard	Requirements	Test result
Surface tension adhesive side	Testing using test ink	$\geq$ 44 mN/m on delivery	$\geq$ 38 mN/m during gluing
Behaviour in dry heat	DIN 68861/T7	Stress group min. 7 D	No change at 70 °C
Behaviour in moist heat	DIN 68861/T8	Stress group min. 8 B	No change at 70 °C
Behaviour in water vapour	DIN 438-2	Level 5	
Scratch-resistance	DIN 68861/T4	Class 4B	