



MODERN MASTERS OF PANELLING

WPC profiles for infinite design options



THERE IS ALWAYS A SOLUTION

Application and design options

The REHAU rhombus profile from the high-quality material RAUWOOD has been developed for custom solutions and special design options in gardens and outdoor areas. Let your imagination run wild.



Outdoor shower





Raised bed



Garden fence



Outdoor kitchen

DESIGN PERFECTION

Colours and surfaces



The innovative REHAU rhombus profile not only looks and feels great, but, compared to wood, is also low-maintenance, durable, resistant to environmental conditions, splinter proof and eco-friendly. This all-round solution is available in six colours and 2 surfaces.



Smooth surface



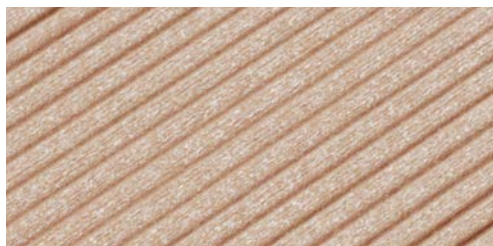
Slightly textured surface



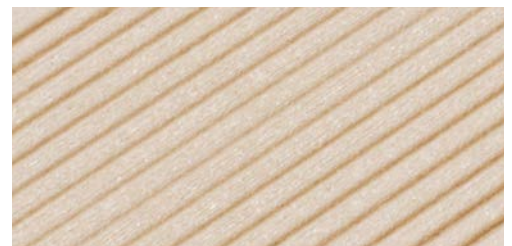
Terra colour (dark brown)



Ametista colour (red brown)



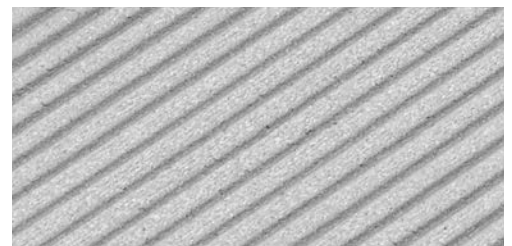
Ambra colour (medium brown)



Grano colour (light brown)



Ciottolo colour (grey)



Sasso colour (grey)

INSTALLATION? NOT A PROBLEM

Accessories for rhombus profiles

Our innovative accessories and compatibility with all substructures ensure an easy and hassle-free installation. The facade glides, which are made with tried and tested glass fibre reinforced plastic, can be screwed down with a single screw. The individual glide tracks are then aligned, automatically providing the correct installation distance between the planks. Any possible expansion of the planks are compensated for by the glide tracks.



Overview of benefits:

- High screw extraction
(approx. 40 kg per screw in the rhombus profile, approx. 50 kg fastening profile on conifer wood substructure, approx. 120 kg fastening profile on aluminium substructure)
- Invisible installation
- Rhombus profile length expansion absorption
- Additional fastening option to direct expansions in a certain direction
- Flexible longitudinal joints, can be implemented from 4 to 8 mm (standard distance: 4 mm)

Variable thanks to gliding elements



THE DETAIL IS IN THE TECHNOLOGY

Material properties and technical values

Material number:

Smooth: 1604627

Slightly textured: 1604628

Dimensions:

85 x 20 mm

Weight:

0.73 kg/rm

Material:

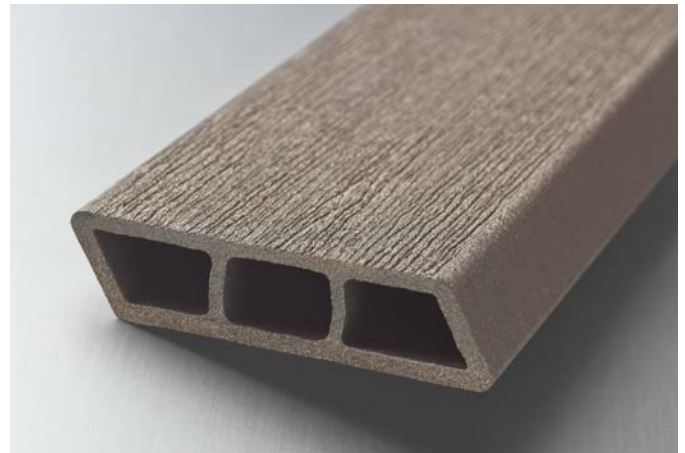
Wood polymer composite

Plastic:

Polypropylene

Wood:

Certified PEFC and FSC mix



The rhombus profile has been developed for a variety of applications. Prior to application, however, it should be confirmed that the product is approved and suitable for the specific project, intended process and purpose.



Material properties	Unit	
Flexural modulus of elasticity	Mpa	4,478.0
Linear thermal expansion coefficient (longitudinal dimension)	K-1	$\leq 4,0 \times 10^{-5}$
Moment of inertia	mm ⁴	35,628.2



* We work with the Association of the German Wood-Based Panel Industry to encourage sustainable construction by means of environmental product declarations for WPC decking boards and WPC façade elements from the Institute for Building and the Environment.

Mechanical properties	Unit	
Breaking load as per EN310	N	> 1,000
Deflection at 500N as per EN 310	mm	< 6.5
Artificial weathering as per DIN EN ISO 4892-2 (after 1500 hrs)	Grey scale	4
Expansion after 5 hrs sitting in boiling water as per EN 1087-1	Length (%)	≤ 0.15
	Width (%)	≤ 0.7
	Thickness (%)	≤ 3.0
	Weight (%)	≤ 5.0
Resistance to mildew as per DIN EN IEC 60068-2-10	Assessment	0-1 = 'resistant'
Resistance to wood-destroying fungi	Durability class	Very durable
Screw extraction (WPC screw: 4 x 35 mm)	1 wall thickness	approx. 400 N
	2 wall thicknesses (whole profile)	approx. 950 N

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Material properties and technical values

Material number:

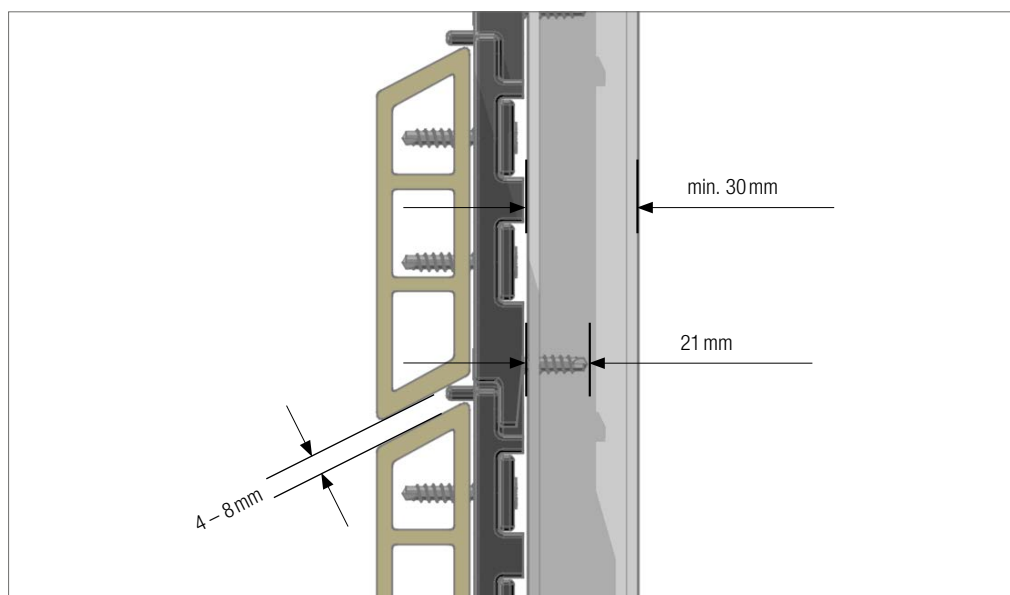
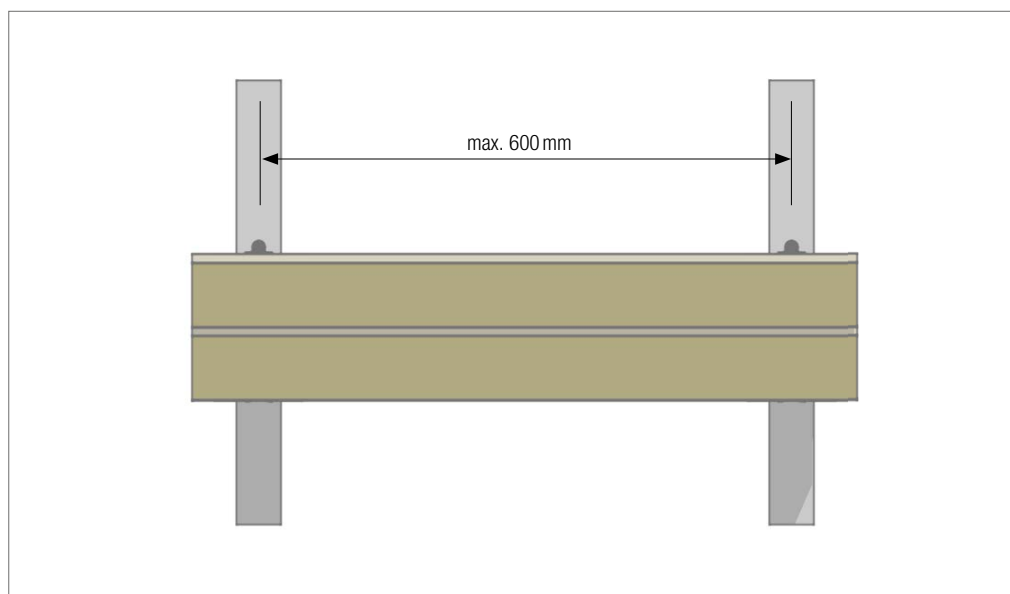
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Material:

Glass-reinforced polyamide

Packaging unit:

150 sets (150 façade glides, 300 screws for fastening to rhombus profile, 150 screws for fastening to substructure), sufficient for approx. 5 m² façade



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Subject to technical modifications

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