

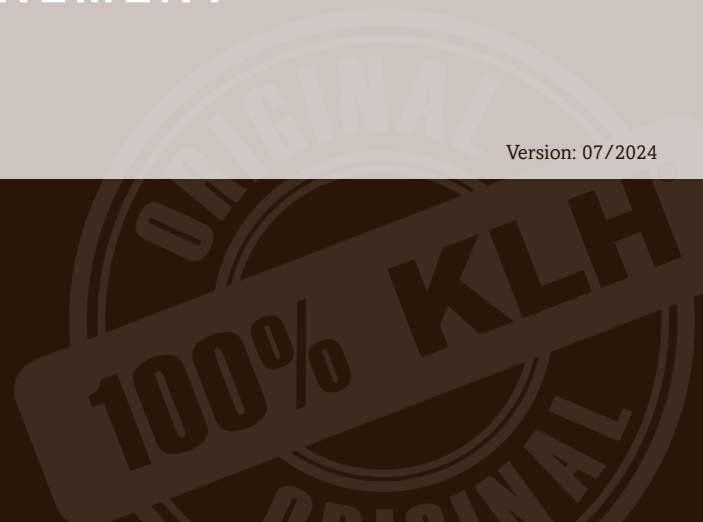
The logo consists of the letters 'KLH' in a bold, white, sans-serif font, centered within a solid red square.

KLH[®]

MADE FOR BUILDING
BUILT FOR LIVING

**PROTECTIVE COATINGS &
SURFACE REFINEMENT**

Version: 07/2024





📷: NAARO, Luke Beard | Courtesy of MALL

TWO BRANDS MEET FOR A SOLUTION

Responsible relationships with people and nature are close to our hearts. That's why we use exclusively water-based products from Remmers in our automated coating facility. Products from Remmers meet the highest requirements of renowned testing institutes. Like KLH®, Remmers stands for modern, innovative and sustainable thinking.

The respective products are processed strictly in accordance with the manufacturer's specifications; the properties can be taken from the technical data sheets for the respective product.



📷: NAARO, Luke Beard | Courtesy of MALL

PROTECTIVE COATINGS

Protective coatings have a purely protective function in the sense of protection on the building site and construction with a stable value. They offer extensive protection against moisture during assembly, against the soiling of visible surfaces and against soft rot, blue stain, insects and termites. Protective coatings are possible on both sides, end grain sealer on the edges.

KLH® elements with protective coatings, in contrast to elements with surface refinement, do not have transport protection. Elements with protective coatings can be loaded both horizontally and vertically.

SURFACE REFINEMENT

The surface refinement applied automated at the factory is essentially aimed at the application of UV protection in order to delay the darkening of the surface as long as possible. As opposed to surface finishing on the building site, surface finishing at the factory is done automated and immediately after cutting the KLH® elements to size. Coated surfaces are more resistant to dirt and the coating can be both transparent and white-glazing (see overview table).

The surface refinement is only applied to one visible surface of the element; the best result is obtained on domestic visible quality surfaces (DVQ). A refinement on industrial visible quality surfaces (IVQ) is technically possible, but not recommended.

In the case of elements with a surface refinement, a protective film is placed between the elements to protect them during transport. This foil must be disposed of properly by the contractor on the building site. Surface-refined elements should be handled with due care both during unloading, assembly and also during the construction phase.

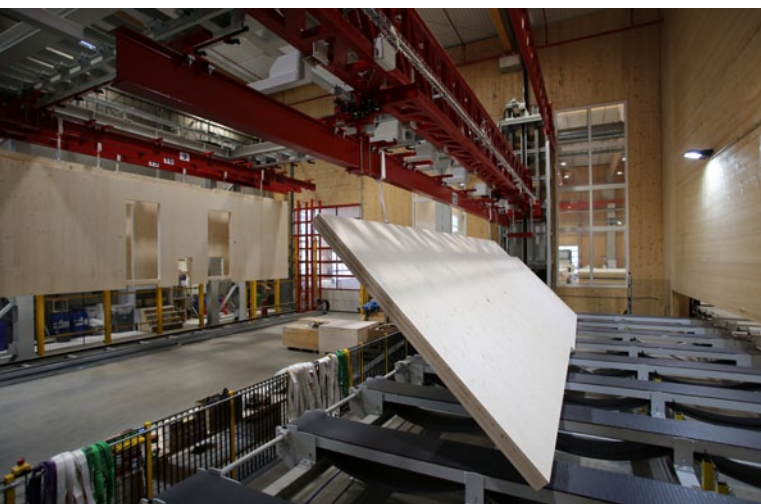


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Surface-refined elements are loaded horizontally. Note that the element with a refined surface must always be supported over the entire surface. Small-area bearing points such as transport packers, lifting loops or bundling must be excluded. Please take this into account when selecting the lifting systems and planning the loading. Deliveries of small quantities may necessitate exceptions.


When moving large surface-refined elements, certain types of damage cannot be ruled out even with the greatest of care.

Therefore, take into account a certain amount of expense for possible rework. We will be glad to provide you with repair instructions if necessary.



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OVERVIEW TABLE for the current production and delivery programme

PROTECTIVE COATINGS

ORDERING CODE	PRODUCT	EXECUTION OF THE COATING	SURFACE APPEARANCE	APPLICATION AREA	HSB CODE
Remmers 910	Induline SW-910	One layer	Colourless	Water-based end grain sealer for protection of edges and cut edges against moisture	03-02
Remmers 732 WF	Induline LW-732 WF	One layer full-surface on one or both sides, with or without edges and cut edges	Colourless, slightly shiny	Water-emulsified middle layer glaze for temporary protection against moisture and dirt on visible and non-visible surfaces (Glulam protective layer)	04-02
Remmers 900 IT	Induline SW-900 IT	One layer full-surface on one or both sides, with or without edges and cut edges	Colourless	Water-based impregnation for protection against soft rot, blue stain, insects and termites (class 2 treatment), not suitable for indoor application service class 1*	02-02
		One layer with intermediate sanding	Colourless	Wood protection for factory combination with surface refinement, not suitable for indoor application service class 1*	02-06

* Induline SW-900 IT contains, among other things, the biocidal active ingredient propiconazole as defined in the Biocidal Products Regulation (Regulation (EU) No. 528/2012). Wood treated with propiconazole may not be used for the manufacture of furniture and play equipment since July 1, 2024.

SURFACE REFINEMENT

ORDERING CODE	PRODUCT	EXECUTION OF THE COATING	SURFACE APPEARANCE	APPLICATION AREA	HSB CODE
Remmers 810	Induline OW-810	Two-layer with intermediate sanding, on one visible side	Colourless oil, slightly shiny	Intermediate and final coating for refinement with water-based UV protection	06-03
Remmers 716 WF	Induline LW-716 WF	Two-layer with intermediate sanding, on one visible side	Colourless, matt glaze	Refinement of visible surfaces with water-based UV protection	05-03
Remmers AL RC 990 (50%)	All-purpose stain RC-990 (50%)	Two-layer with intermediate sanding, on one visible side	White-glazing 50%	Decorative water-based middle layer glaze with UV protection	09-03
Remmers AL RC 990 (100%)	All-purpose stain RC-990 (100%)	Two-layer with intermediate sanding, on one visible side	White-glazing 100%	Decorative water-based middle layer glaze with UV protection	07-03

KLH PROTECT POWERED BY ISOCELL

The diffusion-capable, sturdy and slip-resistant protective membrane serves to protect KLH® elements against moisture during storage, transport, assembly and the building phase.

The full-surface self-adhesive membrane offers high protection against moisture and is sturdy and abrasion-resistant in order to avoid damage during the building phase. KLH Protect is transparent and slip-resistant, can be applied in the factory and is particularly suitable for the protection of roof and ceiling elements.

Processing in the factory is done in accordance with the current instructions for use.

ORDERING CODE	APPLICATION AREA	HSB CODE
KLH Protect	Temporary protection of the surface of roof and ceiling elements during storage, transport, assembly and the building phase	31-00

ELEMENT SIZES | WEIGHT PER ELEMENT

(applies both to protective coatings and to surface refinement)

- Maximum element size 13.50 m x 3.50 m
- Minimum element size 2.1 m x 0.5 m
- Board thicknesses from 60 mm to max. 260 mm
- Maximum weight of the element 5,000 kg

Elements close to the minimum dimension should be the exception. Optimum coating results are achieved with element sizes over 4.0 m²/element.



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SMALL QUANTITIES

Protective coatings, surface refinement and the application of the full-surface self-adhesive membrane are project-related and agreed according to technical feasibility. Small quantities of less than 10 m² on enquiry. In the case of full-surface or partial coated areas of < 4 m²/element, a small area surcharge per element will be applied. The same applies to the application of end grain protection of < 4 m, if the end grain protection is not combined with a large-area coating.

For the delivery of a large number of small elements, a practicable transport solution is to be sought in advance (for example parcel delivery). Elements with a surface refinement are transported exclusively in the horizontal position. Elements with protective coatings can be transported both horizontally and vertically. Please observe the transport regulations and highway code applicable to the respective country.

INVOICING

Invoicing is based on the surface that is actually treated or on the area that is actually covered.

FULL-SURFACE OR PARTIAL COATING OF ELEMENTS

In particular white-glazed surfaces are often used as design elements in interior architecture. In order to meet this demand, elements can be fully or partially coated in the factory.

The areas to be coated must be defined on the element drawings and are clearly assigned via the hsb codes shown in the overview. We kindly request that this be checked again as part of the release of the drawings for production.



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For love of nature



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