



Oak Crystal High.

General data

Order. Nr.	L1034
Short description	Multi-layer parquet element (3-Schicht) in conformity with EN 13489 (type 4 country house appearance) with glueless connection profile for floating installation, also suitable for full-spread gluing.
Type of installation	Floating installation Full spread gluing
Area of application	Suitable for living spaces with an average indoor climate with 40 to 60 % relative humidity and between 16 and 24° C. Not suitable for damp locations and wet locations.
Area of application subsurface	Conforming to standards, ready for installation, dry, load-bearing subsurface with a flatness tolerance in conformity with DIN 18202 ÖNORM Table 3 Row 4 is required (for further Information, see "TI_110 Information_Pruefpflichten_en.pdf") The material and work site must be sufficiently acclimatised, the inspection obligations as per DIN 18365 or the corresponding standards and requirements of the respective country must be met; readiness for installation must be established; no subsequent moisture. On-site expansion joints must be used; an edge distance of approx. 10 mm must be maintained; the rules of the trade and the installation guidelines included with the product must be adhered to.

Care instructions	Only factory-recommended care and cleansing agents should be used; routine cleaning depends on the level of use and dirt, clean while damp and care in accordance with the care instructions enclosed with the product	
Dimensions	ISO 24342	2205,00 x 176,00
Commercial thickness	ISO 24346	13,00
Top layer	Oak	thermal-treated
Grading/décor	Alpin	See current classification folder. Classifications are free classes corresponding to EN 13489 4.4.2.2
Laying pattern	Single plank	
Wear layer	ca. 3,2 mm	For solid wood, the thickness of the top layer varies due to the structuring of the surface (deep brushing can decrease the thickness)
Bevelled edge	bevelled (4V)	
Surface	brushed	
construction	3-ply	
Finish	Vital NATUR oiled	The degree of gloss may vary depending on the wood type and the wood quality, especially for oiled surfaces
Middle layer	ca. 7,5 mm	spruce strips
Counter act	ca. 2,0 mm	softwood
Connection	powerFIX	
Edge profiling	Length profiling glueless angle locking profile tilo parkettFIX, Patent No. WO 2007/02/8560; cross profiling a birch insert for a glueless fold down locking system tilo powerFIX, Patent No. EP 1350904;	

Technical data

Suitability for castor wheels	Only on polycarbonate mats with W type castors, not suitable otherwise	
Flame class	Dfl – s1	EN 14342 Table 1
Formaldehyde	E1	EN ISO 717-1
PCP	free	CEN/TR 14823
Thermal resistance	0,092 m² K/W	EN 12664
Sliding resistance	USRV 76	CEN/TS 15676:2008

Gluing	White glue (PVAc) D3 without formaldehyde emissions
Differential swell and shrink dimensions	Width: 0,05 % per 1 % change in wood moisture Length: 0,03 % per 1 % change in wood moisture
Brinell hardness	depending on the wood species „TI_005 Information_Brinellharten_von_Holz_en.pdf”
Wood moisture content	7 +/- 2 % in process, acc. to EN 13489

Delivery content

Boards per package	6,00 st
Packages per pallet	48 Pakete
Area per package	2,3280 m ²
Area per pallet	111,74 m ²
Weight per package	16,980 kg
Weight per pallet	815,04 kg

Further information

Environmental sustainability	recyclable; tested for harmful substances; DiBt approval in accordance with AgBB test scheme – approval no.: Z-156.607-931; IBR award certificate under the AgBB scheme. TÜV ProfiCert certificate reg.no. 70 720 5623-1; Émissions dans l'air intérieur A+; wood from sustainably managed forests – inquire about availability of FSC or PEFC
Underfloor heating	<p>tilo flooring elements can be installed over subsurfaces with underfloor heating. It is vital that the customer properly heats and cools the underfloor heating before the installation of the flooring elements. The presentation of the heating process protocol is absolutely essential (for further information, especially for installation over electric underfloor heating systems, see TI_025_Richtlinien_Verlegung auf Fußbodenheizung). Please note that the temperature of the surface of the tilo flooring elements must not exceed 29°C, even in border areas and underneath furniture or carpets (heat accumulation).</p> <p>When the heating is on, gaps may appear due to the dry ambient air.</p>

Floating installation	A vapour barrier of 0.2 mm PE must be used as protection against substrate moisture and to achieve a smooth surface; impact sound insulation is not required but can be used, use spot impact sound insulation only; for heavily used areas, see the information above; short end gluing must be used for oddly shaped surfaces or surfaces > 80 m ² , as well as surfaces under a heavy load (heavy furniture); max. installation area without expansion joints is approx. 80 m ² (for rectangular areas), all-over gluing of the FIX connection or full-spread gluing are recommended in order to largely avoid occasional cracking noises that would otherwise be unavoidable.
Full spread gluing	For large-scale projects, request the readiness for installation and alignment recommendation from the adhesive manufacturer, the readiness for installation must be established.
Adhesive recommendation	PU and silane-based adhesives have been found to be suitable, tilo Elastic EC1 in particular is highly recommended. Do not use adhesive systems containing water and solvents. The adhesive must be applied to the entire surface using a trowel with the recommended trowel notching.
Tools required	Installation wedges, tapping block, pull bar (we recommend the tilo installation set, order number Z1043), hammer, bracket, hand or electric saw (jigsaw, circular saw or chop saw).
Areas subjected to heavy use	Floating installation with short end gluing and spot underlay materials as well as increased flatness tolerance in accordance with DIN 18202 Table 3 Row 4 or full-spread gluing; damp cleaning and care; protective devices such as dirt traps, doormats, etc. must be used; use underlay (e.g. polycarbonate mats) underneath swivel chairs;
Care	For heavily used areas, the appropriate initial care must be carried out immediately after installation. In general, the surface must be refreshed in accordance with the level of use, flooring in areas with normal usage usually requires refresher care every 6 months; the product is refurbishable; the user is responsible for ensuring the continued suitability for use of an oiled surface through maintenance cleaning and refresher care. If the floor will be subjected to extreme partial use, re-oil before the layer applied in the factory has worn off.
Guarantee	30 years tilo quality guarantee
Warning notice	Store in a place that is protected from moisture, heat and direct sunlight

This information is provided with the intention of offering you advice based on the best of our knowledge, on the basis of our trials, experiences, tests carried out, applicable standards and the rules of the trade. Should you require any additional information, our technical and commercial advisors will be happy to assist you. Always consult our advisors for advice before starting any large-scale projects. We assume no liability for any errors and reserve the right to carry out technical modifications.

Please visit www.tilo.com for further information and updates.

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