

GRANDO



macht den Boden.



Spruce Atelier



General information

Article number	100004801
Brief description	Prefinished flooring panels with a substrate made form HDF-boards; counter draw (impact sound insulation) made from 1.2 mm cork; heterogenous poly (vinyl chloride) top layer with different wear layer thicknesses
Type of installation	floating installation
Range of application	Suitable for living spaces with a regular room climate with 40 to 60 % relative air humidity and between 16 and 24 ° C. Not suitable for damp locations and wet locations.
Subsurface	In accordance with the standards, a dry, well prepared, stable subfloor with an evenness within the tolerances of DIN 18202, table 3, line 4 is required (for further Information, see "TI 110 Information Inspection Requirements en.pdf"). The floorboards to be installed and the substrate must be sufficiently acclimatized, the inspection obligations of the subfloor must be fulfilled in accordance with DIN 18365 "Flooring works" or DIN 18356 "Laying of parquet flooring and wood block flooring" and ÖN B2236/B5236 or, depending on the country, the corresponding standards and requirements; the applicability of the subfloors needs to be determined, separation and expansion joints on site must be taken over, the distance between the edge of the room and the floor must be approximately 10 mm, the rules of the subject and the installation instruction must be observed.

Cleaning and care instructions	Only use care and cleaning agents recommended by the manufacturer; maintenance cleaning depending on use and degree of contamination; clean while damp and in accordance with the care instructions enclosed with the product; avoid standing moisture and water	
Dimensions	ISO 24342	2200,00 x 216,00
Total thickness	ISO 24346	10,00
Top layer	vinyl	
Grading/décor	wood design	
Laying pattern	1-strip	
Wear layer	0,55 mm	
Bevelled edge	bevelled (4V)	
Surface	brushed	
Construction	5-layer	
Finish	Twist PLUS varnished	
Core layer	6,8 mm	high density fibre board
Locking system	simpleFIX	
Edge profiling	Length profiling tiloFIX Angle System, cross profiling tilo simpleFix fold down	

Technical data

Classification/class of use	NKL 33	ISO 10582
Residual indentation	≤ 0,1 mm	EN ISO 24343-1
Resistance to castor chair	suitable with softrolls (w) - no delamination, minor surface changes are possible	EN 425
Reaction to fire	Bfl-s1	EN ISO 9239-1, EN ISO 11925-2
Formaldehyde	E1	EN 717-1
PCP (=pentachlor phenol)	≤ 5 ppm	CEN/TR 14823
Impact sound reduction	16 dB	EN ISO 717-2
Thermal resistance	0,090 (m ² K)/W	EN 12664
Slip resistance	DS	EN 13893
Gluing	dispersion glue without formaldehyde emission	

Assessment of static electrical propensity	not antistatic	EN 1815
Determination of dimensional variations after changes in climate conditions	≤ 0,25 %	ISO 20326
Determination of staining and resistance to chemicals	domestic chemicals 0 = no change	ISO 26987
Colour fastness	≥ 6	ISO 105-B02
Slip resistance	R10	DIN 51130
Window areas	Please note that in rooms with large windows in particular, changes in colour caused by UV light cannot be ruled out completely and are therefore product-specific. Shading may be necessary.	

Content of delivery

Boards per package	4,00 pc
Packages per pallet	56 packs
Area per package	1,9010 m ²
Area per pallet	106,45 m ²
Weight per package	18,300 kg
Weight per pallet	1024,8 kg

Further information

Environmental compatibility	declaration of performance (DoP) and CE marking; declaration of harmlessness; REACH declaration; French regulation "Arrêté étiquetage, Décret n° 2011-321 du 23 mars 2011" (A+); TÜV PROFiCERT-product Interior PREMIUM certificate Reg.no. 70 720 5623-2
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Underfloor heating	<p>Prefinished floor panels are suitable for low temperature / warm water radiant heating systems. Prior to the installation the subfloor must be heated up in accordance with the standards (for further information, especially for installation over electric underfloor heating systems, see "TI_025_Richtlinien_Verlegung_auf_Fussbodenheizung_en.pdf"). The maximum temperature of the surface must not exceed 29 °C, even at the edges of the room and under carpets and furniture. The heating should be equipped with flow temperature regulation. Electric floor heating systems are only suitable with surface temperature control (gentle heating characteristic).</p> <p>During the heating period, excessive flow temperature or a low relative humidity can cause gaps between the floorboards.</p>
Floating installation	<p>Prefinished floor panels are installed floatingly on the subfloor. It is necessary to place a 0,2 mm PE-foil beneath the flooring boards, the foil acts as a moisture barrier and enables the floating of the panels; not additional foam or underlayment material is required due to the cork on the backside of the panels that acts as sound insulation; additional improvement measures of the impact sound insulation are hardly possible and therefore not useful.</p>
Guarantee	15 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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