

[ Woodn ornans ]

[ Woodn ornans compositus ]

Technical brochure

- 92 • Colours
- 93 • Tests
- 94 • Woodn Ornans
- 99 • Woodn Ornans Compositus
- 101 • Accessories
- 102 • Technical specifications



**WOODN**  
SPECIES UNICA

[ *Colours* ]

01 *Bianco Carrara*



02 *Lagorai*



05 *Marostica*



06 *Marrahech*



09 *Cuba*



10 *Caffè Bogotà*



12 *Segovia*



13 *Myanmar*



14 *Grigio Silverstone*



15 *Azzurro Mediterraneo*



16 *Rosso Maranello*



18 *Lanzarote*



22 *Verde Toscano*



23 *Arancio Siciliano*



26 *Azzurro Lido*



27 *Grigio Lavaredo*



28 *Grigio Londra*



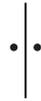
33 *Beige Sahara*



s1 *Bianco*



34 *Verde Bamboo*



*The images are only indicative of the grain and colour of the product. As part of a normal technological evolution, there may be changes in colour/appearance of the product. We therefore recommend that, when ordering, you request samples of recent manufacture. We will not accept claims involving differences in colour or appearance outside commercial tolerances, where choices have been made based on old samples. Woodn Industries reserves the right to terminate, update, make technical changes to improve the quality and appearance of the material, without prior notice.*

## [ Tests ]

## Characteristics of the material

• *Mechanical tests* •

Elasticity (bending)	UNI EN ISO 178	@ 23°C	2070 Mpa
		@ 65°C	660 Mpa
Yield strength (flexural)	UNI EN ISO 178	@ 23°C	33,0 Mpa
		@ 65°C	7,30 Mpa
Determination of the friction coefficient for flooring, B.R.C.A. method	Direction	A	B (ort ad A)
	Wet surface	0,62	0,66
	Dry surface	0,58	0,63
Shore hardness D EN ISO 868/97		73	
Resistance to penetration Brinell EN1534/00		2,40	
Resistance to temperature fluctuations UNI9429/89		After 15 cycles, there are no aesthetic defects	
Dimensional changes associated with changes in relative humidity EN 318/02	20°C longitudinal da 65% a 85%		0,3 mm/m
	20°C longitudinal from 65% to 30%		-0,2 mm/m
Dimensional changes associated with changes in temperature (UNI 9429 amended - 15 cycles)	24H +50°C	Longitudinal	0%
		Transversal	-0,1%
	24H -50°C	Longitudinal	-0,13%
		Transversal	-0,25%
Dynamic-mechanical analysis of transition temperature	ASTH D4065/95	78,7°C	

• *Reaction to fire* •

Fire behaviour	UL94	Classe V-0
----------------	------	------------

• *Chemical and biological tests* •

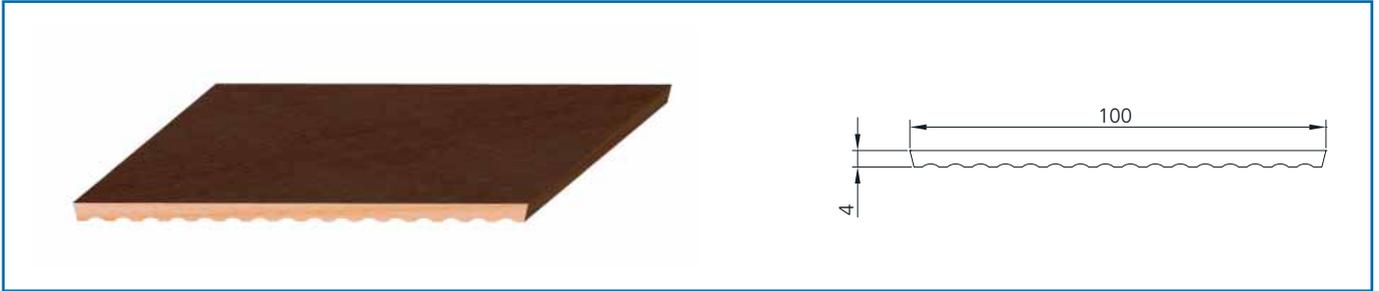
Release of formaldehyde gas analysis EN 717-2/94 (adequate class E1 EN 14041)	0,1 mg HCHO / (m <sup>2</sup> · h) (maximum allowed 3,5 mg HCHO / (m <sup>2</sup> · h))
Resistance to artificial light on specific painted planks Grayscale evaluation 1-5 (best result: 5)	level obtained: 5

The values shown are indicative and not binding. We remain available to perform any tests on request.

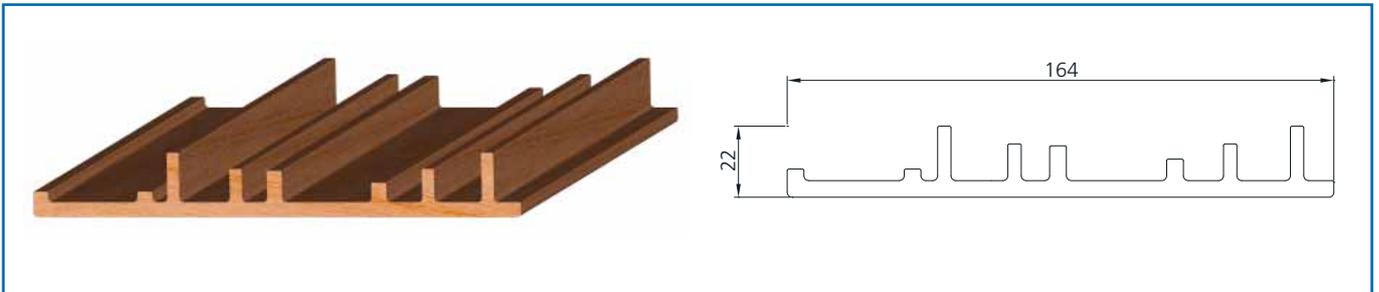
The tests were carried out on new profiles. The natural aging of the material can lead to modifications of the above characteristics. The product is protected by guarantee according to the terms and conditions of law: for more information [www.woodn.com](http://www.woodn.com).

[ *Dimensions and packaging* | Woodn ornans ]

Woodn ornans - WIT10004



Woodn ornans - Q16422



**Packaging dimensions and logistics**

	<i>WIT10004</i>	<i>Q16422</i>
Dimensions of the plank	<i>100 x 2000 x 4 mm</i>	<i>164 x 2000 x 22 mm</i>
Number of planks per box	<i>25</i>	<i>4</i>
Number of planks per m <sup>2</sup>	<i>5</i>	<i>6,1</i>
Weight of a plank	<i>≅ 840 gr</i>	<i>≅ 2450 gr</i>
Box dimensions	<i>125 x 125 x 2020 mm</i>	<i>167 x 57 x 2020 mm</i>
Box weight	<i>≅ 20,0 kg</i>	<i>≅ 10,6 kg</i>

## [ *Installation and maintenance instructions* | **Woodn ornans** ]

The Woodn ornans cladding, due to its qualities of water resistance, lightness and reduced thickness is ideal for covering walls, floors and false-ceilings.

Stack the planks removed from the cartons in the area to be clad for not less than 48 hours in order to reduce thermal differences between the material and the substrate. The ambient temperature and that of the surfaces to be clad must be between 15 and 30°C.

An inspection of the site is always advisable, in order to check the state of the laying surfaces and to determine the preliminary steps necessary to ensure a good result.

### • *Preparation of the base* •

Verify the stability of the support on which the installation is to be done: a surface subject to expansion and movements of any kind can compromise the success of the installation. For an easy, fast and secure installation of Woodn ornans, a properly levelled substrate is necessary. Any irregularities of the floor will affect the surface of the cladding.

Before applying the adhesive to the substrate, it is essential to verify the following aspects:

- cleanliness (in particular: the absence of oily or greasy substances in general, which may jeopardize the adhesion of the adhesive to the substrate; absence of debris, which may seriously compromise the aesthetic result of the laying);
- absence of surface moisture and of incline.

• *Adhesive* •

Installation may be done correctly using different types of adhesive from among those available on the market. Depending on the substrate on which you perform the application, we recommend the use of the following products.

PRODUCTS	Mature and consolidated plaster*	Dusty or damp plaster*	Plaster*	Plasterboard*	Mature and consolidated screed*	Dusty or damp screed*	Plastics**	Metals**	Ceramics**	Mature and consolidated screed***
MAPEI Eco VS90 - acrylic	•		•	•	•					
MAPEI Ultrabond P997 1KT single-component polyurethane							•	•	•	
SLC-KERAKOLL SLCPU31 PRIMER single-component polyurethane solvent (to use before the adhesive)		•				•				
SLC-KERAKOLL SLCEP21 PRIMER single-component epoxy (to use before the adhesive)		•				•				
SLC-KERAKOLL L34 two-component polyurethane	•	•	•	•	•	•				
TOVER Primerfix (to use before the adhesive)		•				•				
TOVER Tovcol PU 2C two-component polyurethane	•	•	•	•	•	•	•	•	•	
TOVER Tovcol PU two-component polyurethane										
TOVER Tovcol T91 two-component polyurethane	•		•	•	•				•	•

**LEGENDA:**

\* Absorbent floors (indoor)

\*\* Non-absorbent floors

\*\*\* Outdoor applications

*Note: for special applications please contact our Woodn Industries technical department*

The amount of adhesive to be prepared depends on the experience and skill of the installer, on the "open time" of the adhesive (catalysis rate) and on the ambient temperature (heat accelerates the catalysis while a low temperature can slow down or negatively alter the process): we recommend carefully reading the instructions for use.

To apply the adhesive properly, **use a trowel with triangular teeth** (2 mm is ideal). Then prepare a **uniform base** of adhesive on an appropriate portion of the surface to be clad (size varies depending on the dexterity of the installer). It may happen that for every 20 to 30 m<sup>2</sup> of laying, the teeth of the trowel become worn to the point of not offering an ideal application. In this case, we recommend replacing the trowel promptly.

• *Wall application* •

**For the laying, a smooth wall is necessary, and free from surface irregularities as described above.**

**For a wall application, it is advisable to proceed from the bottom upwards.** It is important to check progressively the correct positioning of the planks so you can correct any irregularities before the adhesive catalyses.

**Apply a uniform layer of adhesive on the portion of surface to be clad, then apply the planks; repeat the operation until completion of the cladding.** To prevent downwards slippage of the planks, it can be useful to fix them using pins or small nails that can later be removed once the adhesive catalyses.

For outdoor applications, the surface must be made with hydraulic binder, have high mechanical strength and be compact and mature at the time of installation. We furthermore advise using planks less than or equal to 50 cm in length.

• *Floor application* •

**The Woodn ornans planks, with a smooth or ribbed visible surface, can also be applied** to the floor: for example, in bathrooms or rooms of private homes, shop windows and in general areas with low transit of persons (equivalent to class 21 according to EN 685:2007). **The floor installation must be carried out without stepping on freshly-laid planks**, therefore it must be done by moving backwards across the room toward the exit. Do not walk on the floor for at least 24 hours after completing the installation.

Once the installation is done, in order to limit surface abrasions and scratches to the planks, we recommend creating a 'buffer zone', using loose-laid mats according to standard EN14041. **Please verify that the mechanical properties of the product (see p. 79) are compatible with the intended use of the floored premises.**

• *Tips for laying* •

The plank should be laid with a movement perpendicular to the plane of application, being careful not to slide it parallel to the substrate. **It is important, every 3 to 4 m<sup>2</sup> laid, to put pressure on the widest surface possible to make the planks adhere evenly to the substrate, using square trowels with a rubber base.** For this operation, we do not recommend using your fingers or the palm of your hand. Any excess adhesive should be eliminated as you go, to keep the adhesive from adhering to the visible surfaces. The adhesive may harden long after the laying itself (for instance, when the laying is done in low temperature environments). In these cases we recommend passing the square trowel a second time, if necessary.

It is advisable, until the hardening is completed, to use adhesive tape from a body shop (made of paper and with low adhesiveness) to hold the planks together, in order to avoid cracks forming between the planks.

• *Surface treatments* •

**The planks require surface protection to protect against stains and scratches.** For this purpose, many products normally used for wood can be used.

**Once the installation has been completed, we recommend the following treatments, depending on the application.**

- TOVER Oil 4 Sun

- SLC KERAKOLL Oildeck HPX

• *Suggestions for the surface treatment* •

**Counterbores and stucco should not be applied to the surface before varnishing.**

Before proceeding to the final surface treatment, make sure that the environment is closed and free of dust, which can impair the result.

• *Special maintenance* •

The surface treatment can be renewed whenever the surface is worn or has been scratched accidentally.

- **Cladding:** the treatment's duration over time depends on different factors: once worn, it is important to restore it to prevent the planks' surface from being damaged.
- **Flooring:** the varnishing's duration over time depends on various factors (daily traffic of people, cleaning, number of layers of varnish applied, accidents, etc.).  
To reduce the frequency of maintenance, it is advisable to use synthetic waxes (eg SUTTER wax Meteor Millenium UL and SUTTER Meteor Matt UL), to be applied and re-applied to the varnish according to the manufacturer's instructions. For the laying operations, surface treatment and special maintenance of the product it is recommended to always rely on professionals.

• *Routine maintenance* •

**The material is water resistant and can be washed with traditional liquids such as water, neutral soap, alcohol, etc.** Carefully avoid the use of solvents (especially acetone) that could damage the surface of the planks. For example, the **flooring can be washed with neutral soap and/or a capful of ammonia per each 5 L bucket of water.** To remove dust, we recommended avoiding the use of abrasive tools, such as sorghum brooms. We recommend checking the level of wear of the brushes in your vacuum cleaner, in order to avoid scratches.

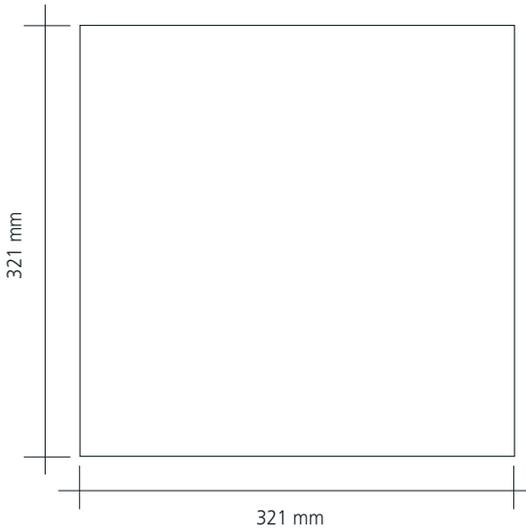
---

*As part of a normal technological evolution, there may be changes in colour/appearance of the product; we recommend that, when ordering, you request samples of recent manufacture. We will not accept claims involving differences in colour or appearance outside commercial tolerances, where choices have been made based on old samples. We reserve the right to terminate, update, make technical changes to improve the quality and appearance of the material, without prior notice.*

---

## [ *Dimensions and packaging* | Woodn ornans compositus ]

### Sheet format



### Tile formats



### Packaging

<b>Packing</b>	<i>18 sheets per box <math>\cong</math> 2 gr</i>
<b>Minimum order</b>	<i>3 boxes <math>\cong</math> 6 m<sup>2</sup> (you may order a box for each code*)</i>

\* The compositions present in each collection of Woodn ornans compositus have a unique code.  
To find these codes, refer to the Woodn ornans compositus Colour cards.

## [ *Installation and maintenance instructions* | Woodn ornans compositus ]

### • *Adhesive* •

Installation can be done correctly by using different types of adhesive from among those available on the market. Depending on the substrate on which you perform the application, we recommend the use of the following products.

	<i>Vertical application</i>	<i>Horizontal application</i>
<b>Absorbent substrate</b> (plaster, gypsum, screed)	<i>MAPEI Ultrabond P997 1 K T</i>	<i>MAPEI Ultrabond P997 1 K T</i> <i>MAPEI Keralastic T</i>
<b>Non-absorbent substrates</b> (plastics, metals, ceramics)	<i>MAPEI Keralastic T</i>	

**Quantity required: approximately 1.1 kg/m<sup>2</sup> of adhesive.**

The amount of adhesive to be prepared depends on the experience and skill of the installer, on the "open time" of the adhesive (catalysis rate) and on the ambient temperature (heat accelerates the catalysis while a low temperature can slow down or negatively alter the process): we recommend carefully reading the instructions for use. To apply the adhesive properly, use a trowel with triangular teeth (2 mm is ideal).

Then prepare a uniform base of adhesive on an appropriate portion of the surface to be clad (size varies depending on the dexterity of the installer). It may happen that for every 20 to 30 m<sup>2</sup> of laying, the teeth of the trowel become worn to the point of not offering an ideal application. In this case, we recommend replacing the trowel promptly. Once the adhesive has catalysed, remove any excess quantity emerging from the seams between one sheet and another, using a knife and being careful not to scratch the surface of the tiles.

### • *Grouting Material* •

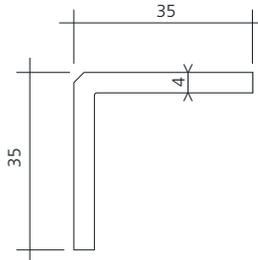
**For grouting we recommend using the two-component epoxy grouts** MAPEI Kerapoxy, Fugalight by Kerakoll. Prepare an amount of grout proportionate to the surface to be grouted. With a scoop pick it up and deposit it on the square trowel; apply the grout proceeding diagonally with respect to the tiles and from bottom to top, filling all the joints and without leaving excess material.

Once completed, it is necessary to take immediate action to clean the tiles of grout residue, which it would be impossible to remove once hardened. For this operation you may use a soft cellulose sponge soaked in hot water. Repeat until the outer surface of the tiles is completely clean (for the last steps you can add a small amount of ethyl alcohol to the water, which helps to remove any residual halos).

In outdoor applications, due to movements related to temperature variations, we recommend using planks with a maximum length of 50cm and grouting them regularly.

[ *Accessories* ]

- *Manufactured by Woodn Industries* •



description	<i>inner and outer corner</i>
code	<b>WITK3535A</b>

- *Manufactured by outside companies* •

description	<i>skirting</i>
code	<b>art. 90/6SF - 78100</b>
description	<i>outer corner</i>
code	<b>art. RA/4 - 92056</b>
description	<i>internal corner and top edge</i>
code	<b>art. ZA/45 - ZG/45 - ZA30 - AI30</b>

**Contacts:**

**PROFILPAS SPA**  
 Via Einstein, 38  
 35010 Cadoneghe (Pd)  
 Tel. 049 887 84 12  
[www.profilpas.com](http://www.profilpas.com)

## [ *Technical specifications* | Woodn ornans ]

*Plank in composite material, solid, of nominal dimensions 4x100mm or 22x164mm for cladding, made from natural recycled plant materials, joined with thermoplastic polymer (PVC) in a homogeneous extruded compound, without the use of harmful volatile substances. Self-extinguishing material. Colouration and grain in pulp, available in different colours.*

*Dimensions are stable in the presence of moisture, thermoformable, drillable, can be sawed and sanded, free of formaldehyde, solvents and heavy metals.*

*Not affected by termites and pests, free from cracking and chipping.*

	<p>The product can contribute to satisfying LEED credits.</p>	<p><b>MRc 4</b> <i>Recycled content</i></p>	<p><b>MRc 6</b> <i>Rapidly renewable materials</i></p>
--	---	---	--

## [ *Technical specifications* | Woodn ornans compositus ]

*Composite mosaic consisting of tiles or slats 4 mm thick and \_\_\_\_ in dimension, glued onto mesh netting and obtained from natural regenerated plant materials, joined with thermoplastic polymer (PVC) in a homogeneous extruded compound, without the use of harmful volatile substances.*

*Self-extinguishing material. Colouration and grain in pulp, available in different colours and different compositions, also upon request. Dimensionally stable to moisture; antistatic; thermoformable, drillable, can be sawed and sanded, free of formaldehyde, solvents and heavy metals.*

*Not affected by termites and pests, free from present or latent cracking and chipping.*