



CRAFTWAND<sup>®</sup>

the modular wood wall system

Technical  
Specifications  
&  
Installation  
Manual

## 01 \_ INTRODUCTION

CRAFTWAND® is a high-end solid wood wall designed for interior use in either residential, commercial, hospitality, or corporate environments. It is decorative and non-structural. Easy to install and similarly easy to dismantle and re-build due to its modular construction, it combines the utmost performance with natural appeal.

## 02 \_ MATERIAL: GENERAL CHARACTERISTICS OF SOLID WOOD

The authentic nature of beech wood with color accents, knots, cracks and splits is integrated in the design substantially reducing raw material wastage and represents sustainability, highlighting the green concept inspiring CRAFTWAND®.

CRAFTWAND® is a system for which the natural character of the material is very important. Every single module's unique characteristics (knots, splits, fiber, colour etc.) depend on the idiosyncratic growth conditions of the trees.

The modules are crafted with a lot of care and very high degree of precision, but still solid wood will behave in a dynamic manner over time. This means that slight deformations are possible depending on environmental conditions - mostly due to differences in air temperature and humidity. This is a characteristic of all non-reconstituted solid wood products.

## 03\_ PRODUCT DESCRIPTION & SYSTEM APPLICATIONS

Made of beech wood, it consists of 15 x 15cm wood blocks or modules available in 8 standard length formats (15cm, 30cm, 45cm, 60cm, 75cm, 90cm, 105cm, and 120cm), whose arrangement has endless possibilities.

*CRAFTWAND® modular system includes*

- 8 basic modules which can be combined in fixed / repetitive or random patterns (basic modules)
- specialized grooved modules for floor / ceiling / main wall affixing, or invisible incorporation of pipes or electrical, communication, and PC wiring (fastening system)
- feature modules with special cut-outs and embedded features for various functional or embellishment purposes (feature modules)



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## *Extras required for wall mounting are*

- wood dowel pins
- screws & matching inserts
- fastening strips (made of 27mm beech plywood)
- tools (drill-bit, Inbus key)

The individual wood blocks are sanded with 3mm chamfered edges and finished with 100% natural oil, made of plants.

The wood blocks are supplied prefabricated with pre-drilled holes for wood dowel and screw + insert hidden joints, enabling easy and fast construction of walls by simply positioning and locking together the blocks atop one another. Glue must not be used. Minimum disruption.

For a random wall pattern, all eight wood block types can be freely combined in any preferable sequences. For a more regular wall pattern, one particular block type can be selected and arranged in line in sequential repetition.

Also, the un-drilled sides are interchangeable and can be inverted between themselves, by choice, with flat grain design (modules between 30cm and 120cm) and/or end-grain design (the cube module 15 x 15cm).

CRAFTWAND® can be built wall-to-wall and floor-to-ceiling or as a partial wall structure connected only to the floor or to a main wall for partition purposes, having one or more angles (T-shaped, Z-shaped, U-shaped, or L-shaped wall). If built with one or more angles, CRAFTWAND® can be assembled free-standing without floor or main-wall connection. If built as a long wall (with no angle), connection to floor / ceiling / main wall is required by using the fastening system.

CRAFTWAND® can be used for interior enhancements, partitions, extensions, room dividers, view barriers, small walls or tall walls, long walls or short walls, whether for space visual refinement or pragmatic necessity. Unleash your imagination to discover endless combinatory possibilities and define the look of your space with CRAFTWAND®.

## 04\_ PRELIMINARY INSTALLMENT CONSIDERATIONS

From a technological stand point, in rare cases, the modules might still retain minute quantities of residual saw dust. We recommend verifying that the holes are clear and cleaning them if necessary.

If the saw dust is too hard to remove we advise re-drilling the holes with a 7.5mm drill bit. This particular quick-fix method can be used also in the case when two vertically overlapping screw holes are not perfectly co-linear and make inserting the screws more difficult. This is a situation that may occur when dismantling a wall after a period of use and

reassembling it proves to be more difficult. Again, the inhomogeneous nature of solid wood will make the inherent deformations of each module distinct.

Another recommendation for fixing this issue is the use of carpentry clamps when building up a wall before inserting the screws.

We recommend checking regularly the horizontality of the assembly. First level check must be made after the first and second layer are put in place and fixed with screws. From there on there should be a check made every second layer. An easy solution, in case the level is not perfect, is interchanging the modules and adjusting the tightening of the screws. Our system was designed with a flat support surface in mind. But If there are issues with an uneven floor we suggest adjusting the level (after the first and second layer are put in place and fixed with screws) with sheets of veneer placed on the floor underneath the CRAFTWAND® wall.

It is very important to check, and eventually adjust, the level after assembling the first two layers for two reasons:

1. only after the second layer is fixed the system works in concert;
2. If the level is first checked after a too greater volume of modules are laid-out and fixed in place the mass of the wall might make adjustments virtually impossible without partially dismantling it.

## 05\_MOISTURE & TEMPERATURE AT INSTALLATION

CRAFTWAND®'s wood blocks are interior finish products with a moisture content of 15% +/-2 that are designed for installation to be carried out in temperature conditions between 10°C and 30°C, in spaces where the building interior is enclosed, dry and free of construction dust. Relative humidity shall be 50% +/- . All plastering, concrete, tiles or any other wet work shall be completely dry. All windows and doors shall be in place. Heating, ventilation and air-conditioning system shall be installed and in function where necessary to maintain proper temperature before, during and after installation of CRAFTWAND®.

IMPORTANT: As with any other solid wood product, we advise against using CRAFTWAND® in wet areas such as shower walls, or any exterior applications.

## 06\_ INSTALLATION

**Free-standing wall - not connected to the walls, ceiling or floor.**

### Support surface

CRAFTWAND® can be built directly on the floor - on tiles, stone flooring and parquet.

### First layer

The modules will be laid down lengthwise. The horizontal arrangement of the modules must conform to H, L, U, T or Z configurations with 90 degrees alignment.

The nut inserts must be placed in a way that allows the corresponding module above to always have two screws disposed diagonally at both ends. ① ⑤

We recommend tightening the nut inserts so that they sink 1 mm below the wood surface.

Fill in the remaining holes with dowel pins.

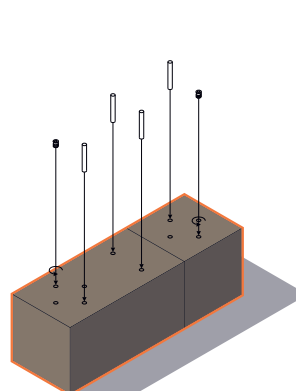
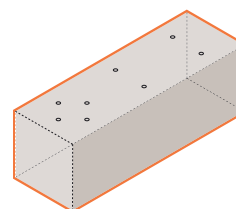
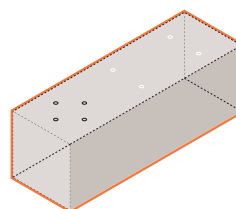
### Second layer

Modules will be placed on top of the first layer making sure that the vertical joints do not overlap.

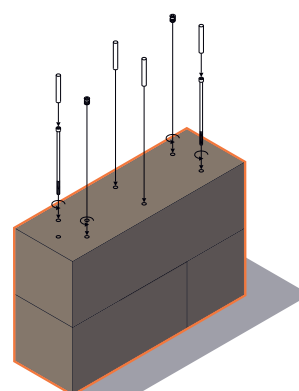
Then, the modules are fixed in place with the screws in the nut inserts placed in the first layer. ②

### The third and all subsequent layers

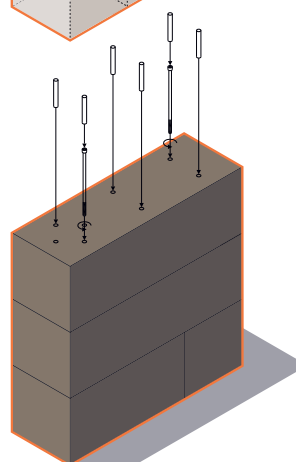
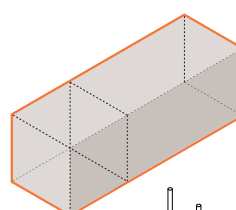
Repeat the steps described above. ③ ④



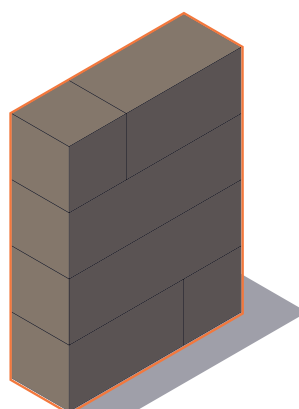
①



②



③



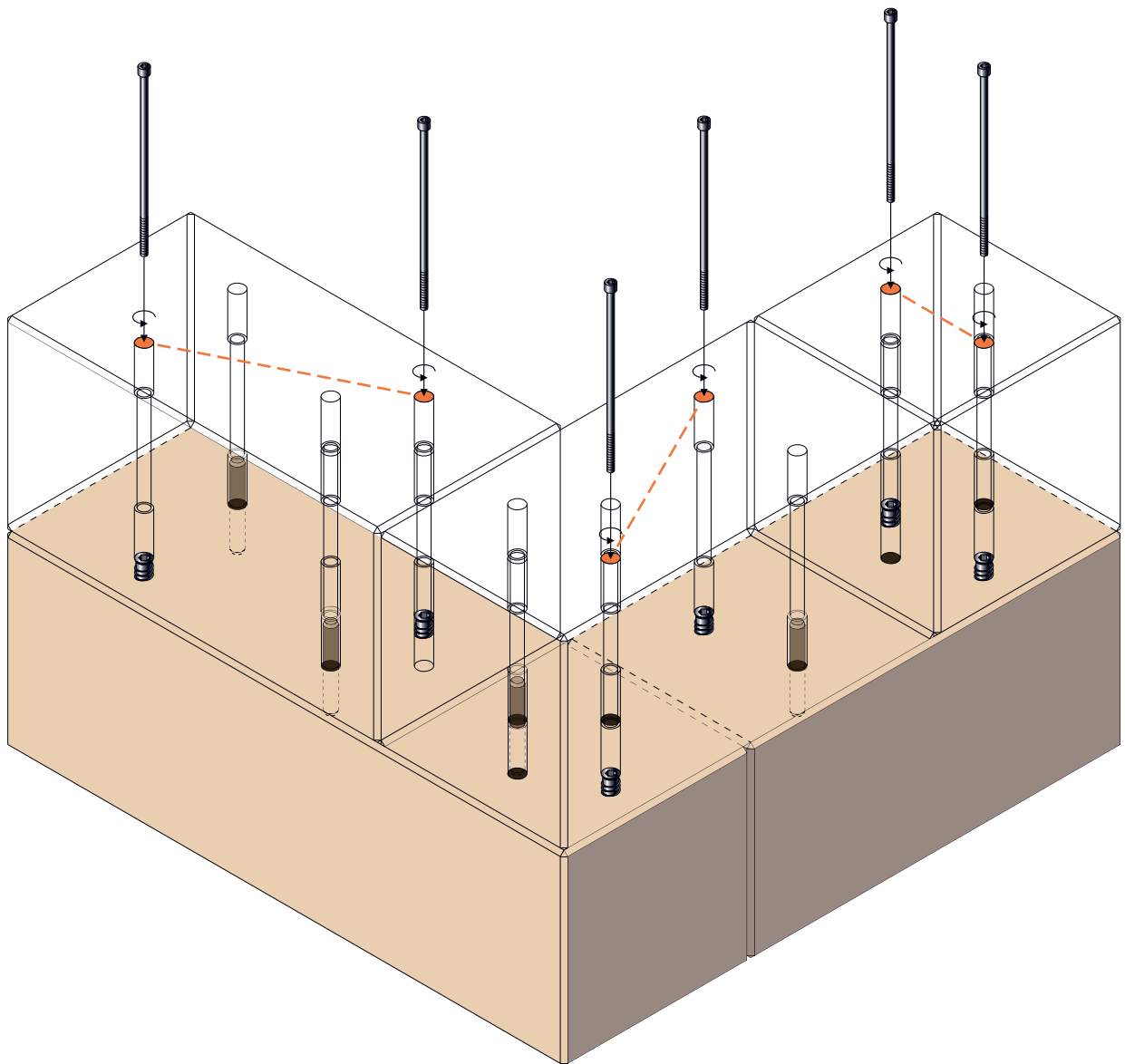
④

\* For tightening the nut inserts we recommend using an automatic drill machine, with a long 6mm hex driver bit. The torque level must be set to 100%.

\*\* For tightening the screws it is best to use an automatic drill machine with a long 5mm hex driver bit. Torque level must be set to 50%.

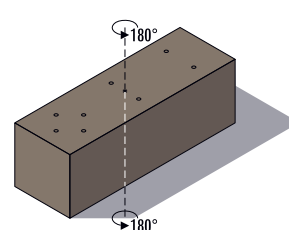
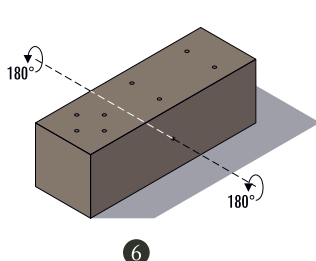
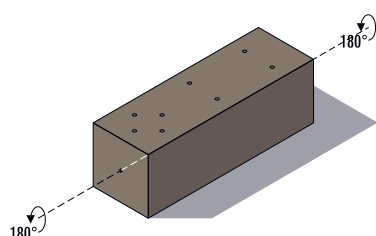
# CRAFTWAND\_

the modular wood wall system

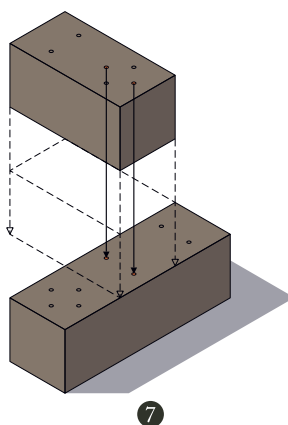


*Diagonal placement of  
nut inserts and screws*

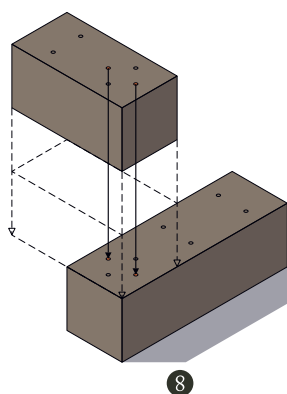
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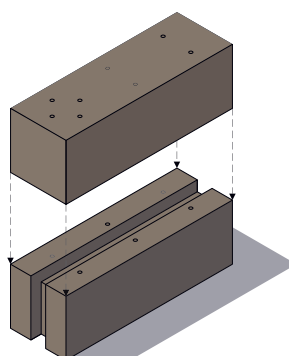
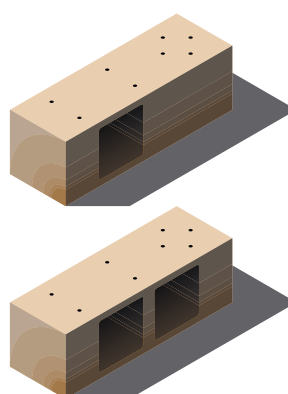
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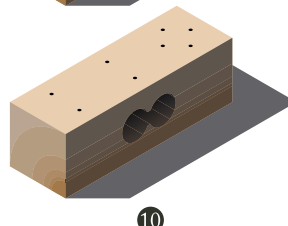
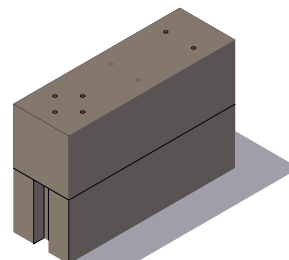
8

All the basic modules can be rotated 180° around all three major axes (X, Y and Z) allowing a multitude of arrangement options, in such a way that the preferred side is always visible. 6 The feature modules (MA) do not present this option.

All the basic modules, with the exception of the end modules (MS-E), have an extra pair of pre-drilled holes at one end facilitating perpendicular arrangements (L and T configurations). 7 8 A few of the feature modules have this connection option as well.



9



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Cabling can be completely integrated into the system by using our range of grooved modules. These modules are grouped into three major categories: modules with a horizontal groove (MS-GH), modules with a vertical groove (MS-GV) and modules with both a horizontal and a vertical groove (MS-GH+V). Also, in special cases when the cabling layout is more complex, customized modules can be fabricated. 9

There are also special modules for a diverse range of sockets, switches and other electrical or connectivity equipment. We already offer a few modules designed for this specific purpose (MA30-1A, MA45-1A, MA45-2A or MA60-3A), but the fabrication of customized modules for specific format and shape requirements is also an option. 10

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## Basic modules

Length

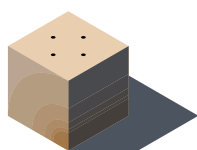
150-1200mm

Width

150mm

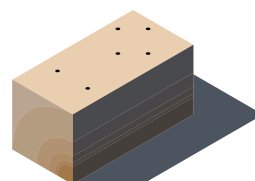
Height

150mm



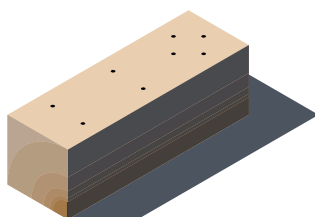
**MS-15**

150×150×150mm



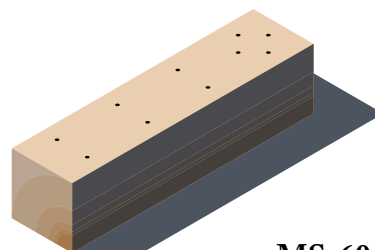
**MS-30**

300×150×150mm



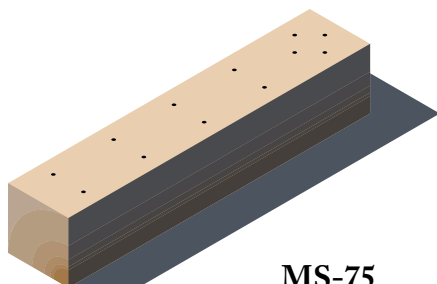
**MS-45**

450×150×150mm



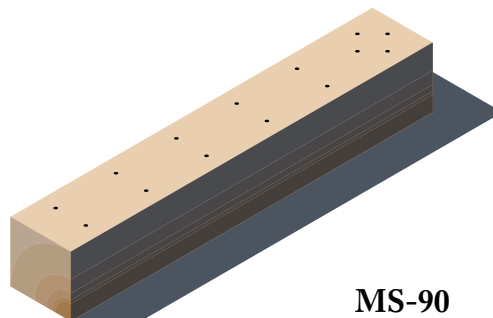
**MS-60**

600×150×150mm



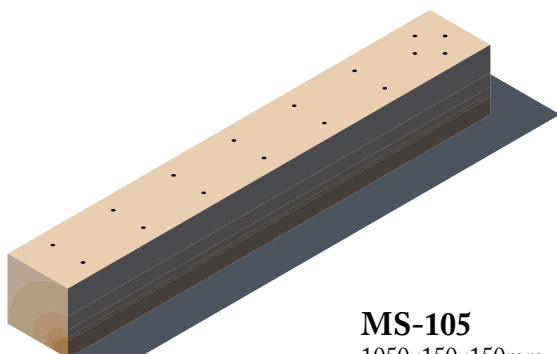
**MS-75**

750×150×150mm



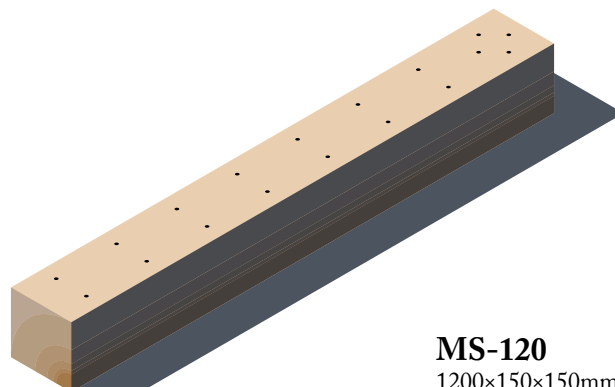
**MS-90**

900×150×150mm



**MS-105**

1050×150×150mm



**MS-120**

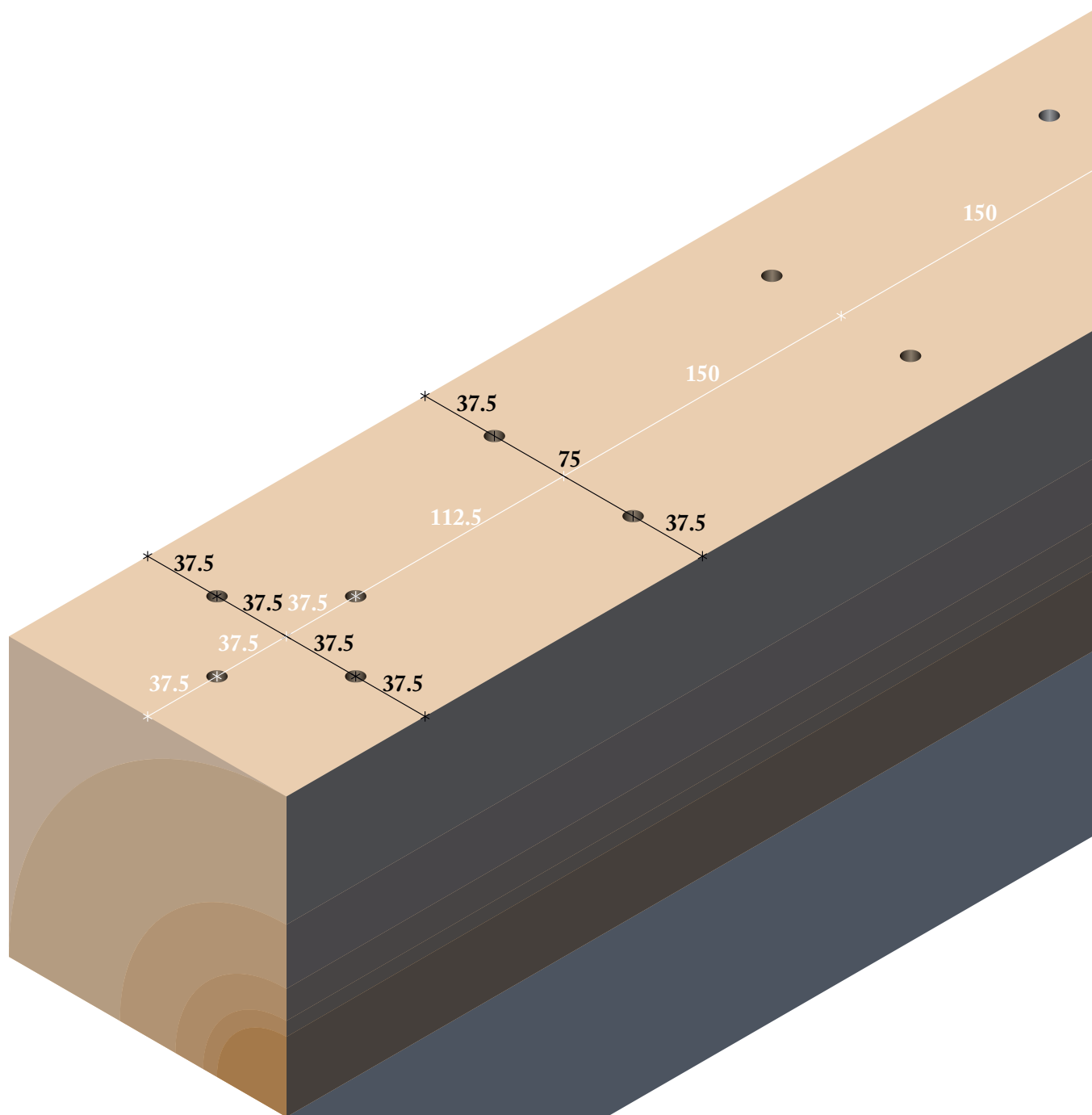
1200×150×150mm



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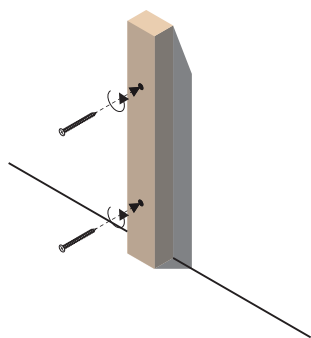
	Length	Width	Height
Generic module	150-1200mm	150mm	150mm



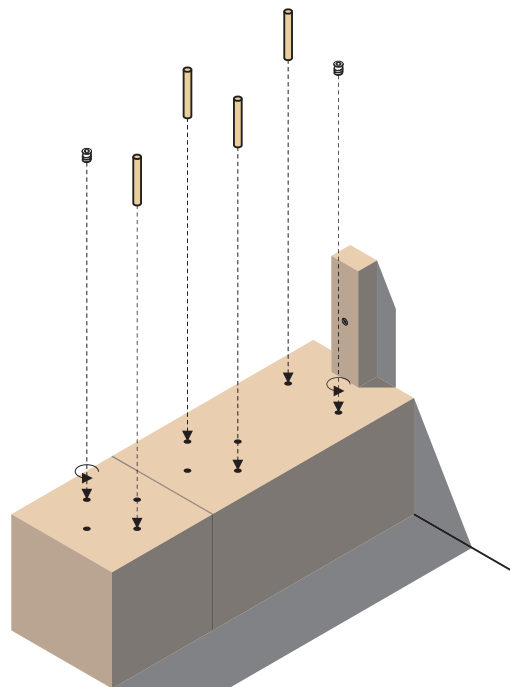
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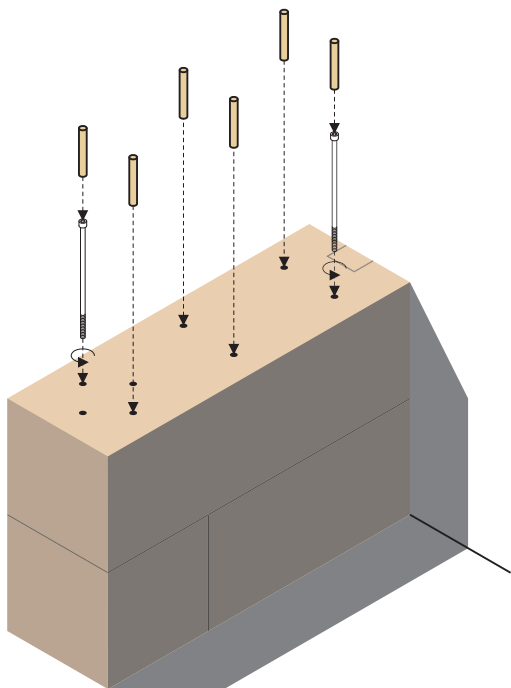
## Wall connection



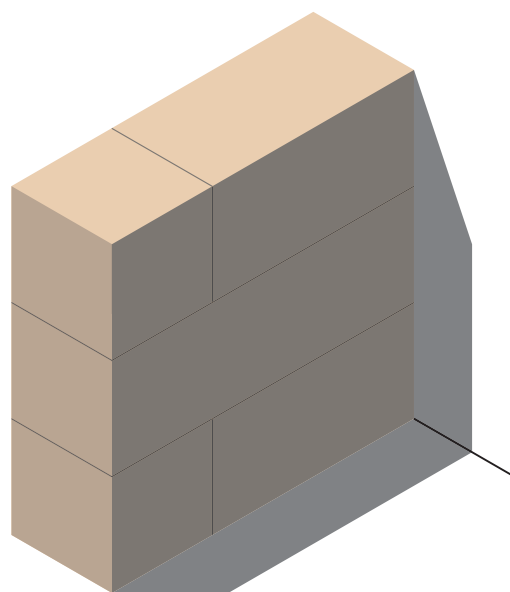
❶ Fixing the strip to the wall.



❷ Placement of the first layer with the grooved module engaging the strip.



❸ Building the second layer.



❹ Placement of the last layer to hide the strip.

## 07 \_ CERTIFICATION & SUSTAINABILITY

1. Notwithstanding the use of screws and nail inserts, CRAFTWAND® wall partitions are manufactured entirely from European beech wood (*Fagus Sylvatica*); and because there will always be potential to grow beech forests in the country of origin (Romania), the CRAFTWAND® wall system remains a viable means of supporting sustainability.
2. The wood material used in the manufacture of CRAFTWAND® is locally grown and sourced from Forest Stewardship Council® (FSC) certified forests. The FSC's mission is to promote environmentally appropriate, socially beneficial, and economically sustainable management of the world's forests. Also, our entire production operation is certified under the FSC®C106687 Chain-of-Custody scheme. Our certificate number is SGS-COC-008875.
3. Our company is also a certified member of the German organization Deutsche Gesellschaft für Nachhaltiges Bauen – DGNB e.V (the German Sustainable Building Council), based in Stuttgart. The objective of DGNB is to achieve a sustainable living environment for the future and it therefore promotes sustainable building principles and solutions among professionals and the general public alike. Our membership number is 13546.
4. The genuine nature of European beech wood with color variations, knots, cracks and splits is integrated in the product design, in acknowledgement of the value of the forest resource, highlighting the conservational concept inspiring CRAFTWAND®.
5. In consideration of indoor air quality and keeping toxics out of our product, only natural, plant-based finishes are used for CRAFTWAND® (mainly linseed oil).

## 08 \_ ON DELIVERY: STORAGE & INSTALLATION CONDITIONS

CRAFTWAND®'s wood blocks are interior finish products with a moisture content of 15%  $\pm$ 2 that are designed for installation to be carried out in temperature conditions between 10°C and 30°C, in spaces where the building interior is enclosed, dry and free of construction dust. Relative humidity shall be 50% +/- . All plastering, concrete, tiles or any other wet work shall be completely dry. All windows and doors shall be in place. Heating, ventilation and air-conditioning system shall be installed and in function where necessary to maintain proper temperature before, during and after installation of CRAFTWAND®.

## 09 \_ MAINTENANCE & CLEANING

### *Cleaning & maintenance*

Cleaning & maintenance is carried out once a year, or more frequently in the case of excess dust in the environment.

1. Loose dust is vacuumed or dry cleaned with a lint free cloth.
2. Do not use water or dust removing sprays or solutions.

### *Spot refurbishes – scratches*

If the partition surface has sustained minor damage/scratching, a single clean local application of a new coat of plant-based oil is often enough. If that not is sufficient, do the following:

1. Sand away the damage / scratch with a fine grained sandpaper (150 grit).
2. Retreat the sanded surface with a plant-based oil (e.g. linseed oil) by applying a thin layer with a clean lint free cloth.
3. Wipe away / smooth out any excess oil with a lint free cloth.
4. Let it dry for around 6 hours and it is ready to be used again.

### *Wood movement – a natural process*

Wood is hygroscopic, which means its moisture content will fluctuate based on the relative humidity of the surrounding air during the year. As humidity increases, the moisture content increases, and the wood expands, and as the humidity decreases, moisture content decreases, and the wood shrinks. The latter process may generate acceptable gaps between the modules composing the partitions. This is natural, it cannot be stopped, and it is not a valid reason for a complaint. Faults based on changes in the natural condition of the wood due to relative humidity, heat or sunlight exposure, etc. are not valid causes for complaint since they are a consequence of natural changes in the wood material.

Of particular note, avoid installing the wood partitions in the immediate vicinity of heating sources.

## 10 \_ DO's & DON'Ts

While CRAFTWAND® is exceptionally versatile when it comes to implementing it in interior spaces like offices, living rooms, bedrooms etc. it is forbidden to use it in areas with high levels of humidity.

As with any other solid wood product, we advise against using CRAFTWAND®'s wood blocks in wet areas such as shower walls, or any exterior applications - even on covered areas such as terraces.

## 11 \_ WALL DISMANTLING & RE-INSTALLING

Dismantling of a CRAFTWAND® assembly is a very easy and straight-forward operation. The tools required are exactly the same as for building up the wall: automatic drill machine, inbus keys etc.

We recommend storing the modules in a row-by-row grouping in order to facilitate a faster re-building if needed.

The modules must be stored in a dry space and must be covered in order to avoid unnecessary accumulations of dust and dirt.

The re-installation of a CRAFTWAND® wall is subject to the exact same steps and guidelines as provided in chapter 3 of this manual.

### Kontakt / Contact

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