



*materia infinita®*

# LAYING INSTRUCTIONS

REV\_09/19



**SKIN PRESTIGE**



**SKIN PRESTIGE 197**



**SKIN**

## CLADDING WITH NOVOWOOD SYSTEM

# LIST OF MATERIALS TO BE USED



**STAVES 145X22X2200 mm**  
(SKIN PRESTIGE)  
cod. 145H22

AVERAGE USE per m2 3,15 pcs/m2



**STAVES 197X22X2200 mm**  
(SKIN PRESTIGE 197)  
cod. 197H22

AVERAGE USE per m2 2,30 pcs/m2



**STAVES 127X15X2000/4000 mm** (SKIN)  
cod. 127H15

AVERAGE USE per m2  
3,93 pcs/m2 (L=2000) - 1,97 pcs/m2 (L=4000)



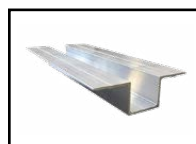
**STEEL CLIPS + SCREW**  
cod. CLPX3

AVERAGE USE per m2  
20 pcs/m2



**CLIPS + SCREW**  
cod. CLIPSH7

AVERAGE USE per m2  
25 pcs/m2



**OMEGA WALL ALUMINIUM PROFILE**  
cod. 90H25

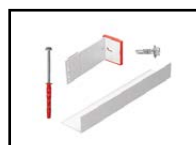
AVERAGE USE per m2  
3,00 m/m2



**STARTER CLIPS + SCREW** (OPTIONAL)  
cod. IF



**FIXINGS**



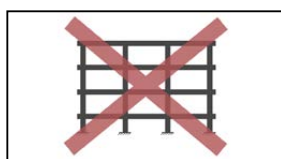
**2 LEVELS SYSTEM FOR COATS**  
(OPTIONAL)



**SYSTEM WITH INTEGRATED COAT**  
(OPTIONAL)

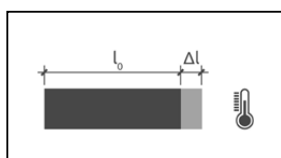
## IMPORTANT NOTES

### CORRECT USE OF THE MATERIAL



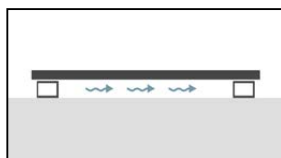
Novowood products are coating materials that, despite their mechanical strength characteristics, must always be laid on a supporting substructure of a suitable size.

### THERMAL EXPANSION



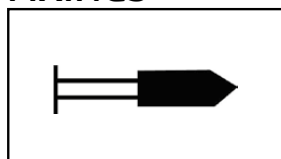
Wood plastic composite is subject to slight thermal expansion due to the presence of a small amount of HDPE plastic in its mix. The expansion index defined in the data sheet is equal to **0.04 mm/m/°C**. It is therefore recommended to calculate the grouting between the staves heads according to external temperatures during laying and to the annual thermal variation forecast.

### VENTILATION AND AIRSPACE



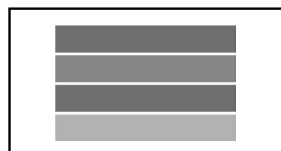
It is essential to ALWAYS leave an airspace between the slats and the supporting surface to allow ventilation. This is usually done by using subconstruction framework joists.

### FIXINGS



It is necessary to evaluate the fixing system which is more suitable according to the typology of substrate and the loads.

### HUE VARIATIONS OF DIFFERENT LOTS



Novowood is a wood plastic composite produced by extrusion, therefore it is possible to have little hue variations between different lots produced. It is advisable to lay the material picking up staves from different pallets.

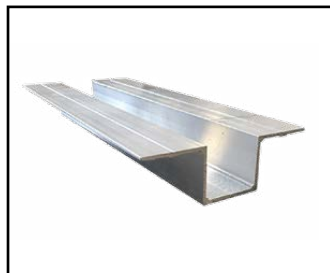
# STEP BY STEP CLADDING INSTALLATION GUIDE

## 1 SUBCONSTRUCTION FRAMEWORK JOISTS

Subconstruction framework aluminium joists must be laid respecting all the distances necessary to support the whole covering system.

Make sure to reduce any irregularities on the wall in order to obtain a flat surface.

The section sizing of the subconstruction framework joists must be verified by a qualified technician on the basis of the specific project.



Subconstruction framework aluminium joists

### 1.1 Laying the joists

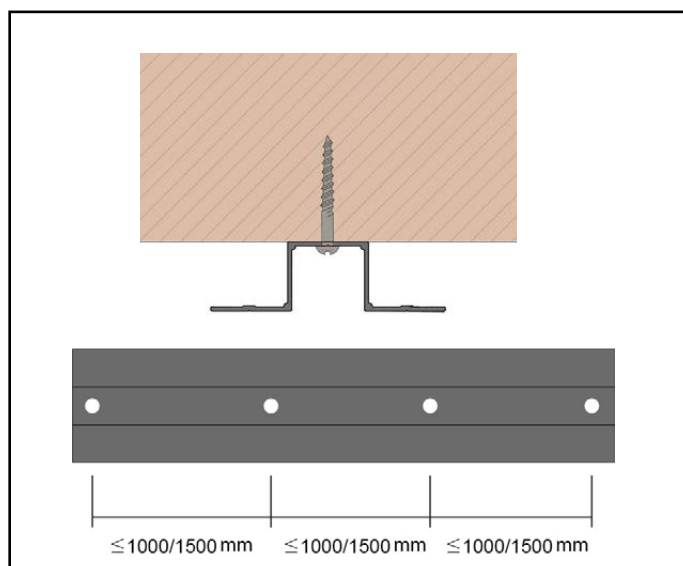
#### 1 HOLES ON JOISTS

Drill the aluminium bars indicatively every 1000/1500 mm.

It is necessary to practise the holes evaluating the possible thermal expansion of aluminium.



The right distance must still be verified by a qualified technician depending on the load to be maintained and the type of bearing wall.



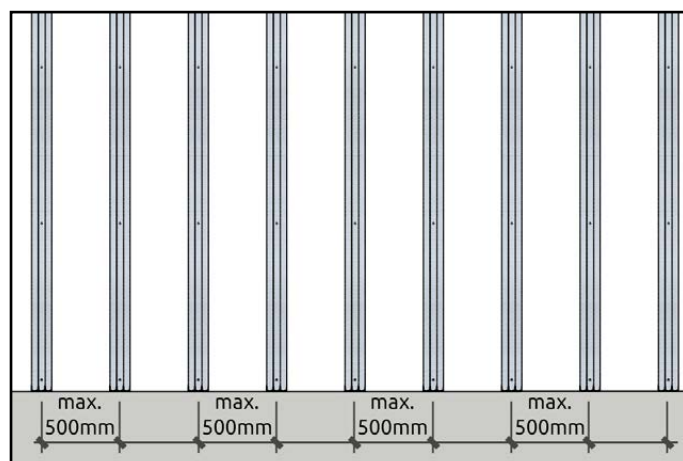
#### 2 POSITIONING JOISTS ON A WALL

Fix the joists to the wall while maintaining a maximum distance of 500 mm.

Place the joists in correspondence with the heads of the staves as indicated in step 7 of the second chapter (staves).

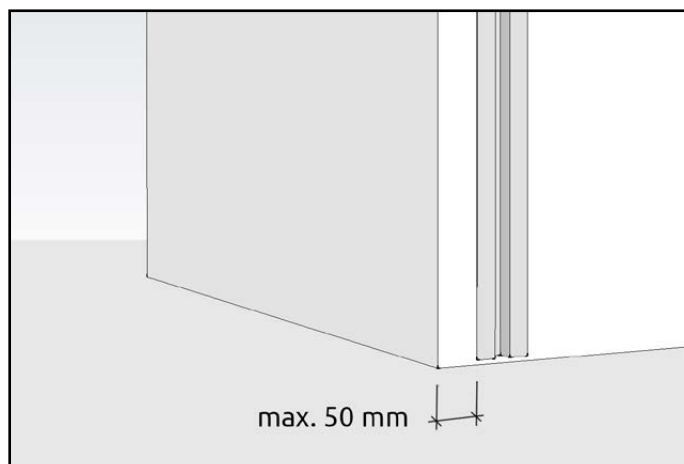


The right distance will still be verified by a qualified technician depending on the load to be maintained and the type of bearing wall.



### 3 POSITIONING JOISTS NEXT TO THE EDGE OF THE WALL

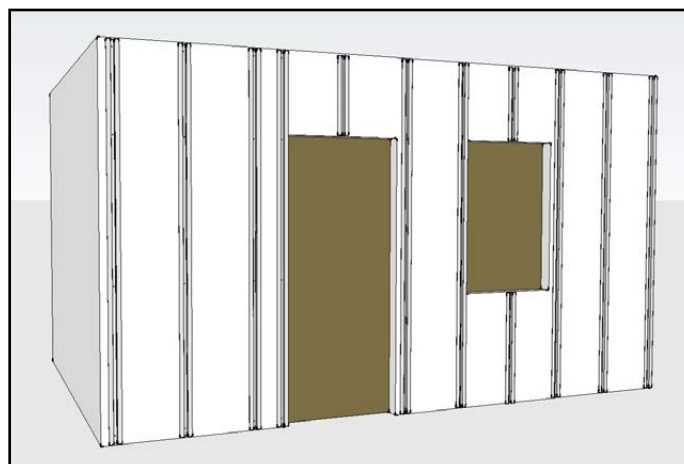
Make sure to do NOT leave a space greater than 50 mm when you are going to lay the joists near the edge of the wall.



### 4 JOISTS POSITIONING IN CASE OF DOORS AND WINDOWS

If there are any doors and / or windows on a wall, fix the currents beside them, as shown in the figure, leaving a maximum space of 50 mm from the edge.

For the closure of intrados and openings it is advisable to use tinsmithery, to be laid after the cladding.



## 2 STAVES

Novowood 145x22 and 197x22 staves can be laid on either side, depending on the choice of design.



Staves 145x22



Staves 197x22



C steel clips



Steel clips  
(best choice)



Starter clips



Staves 127x15



Clips



#### CAUTION

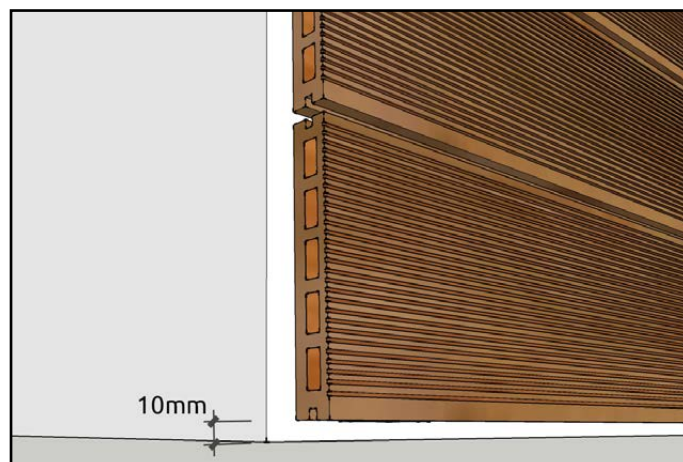
Wood plastic composite is subject to slight thermal expansion (0.04 mm/m/°C). Ensure that recommended distances are observed.

## 2.1a LAYING THE STAVES SKIN PRESTIGE 145x22 mm E SKIN PRESTIGE 197 197x22 mm



### 1 STAVE DISTANCE FROM THE GROUND (STAVES 145X22 AND 197X22)

It is necessary to leave a space between the first stave and the ground of **at least 10 mm**, to allow the material ventilation.



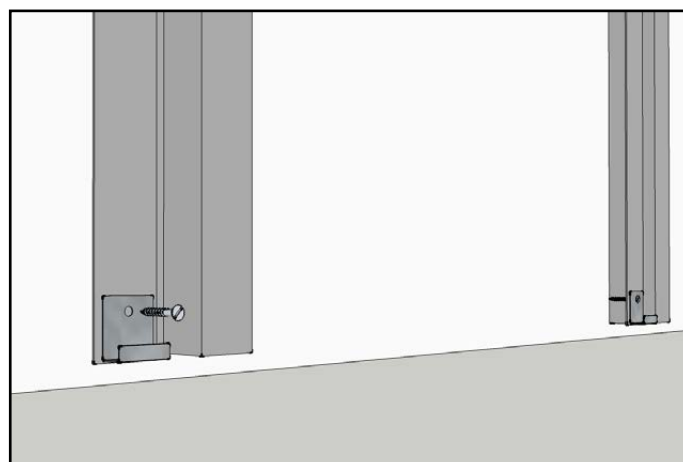
### 2 STARTER CLIPS POSITIONING

Place the starter clips on the joists and screw them.



#### CAUTION

Check the squaring by positioning a stave before final clip fixing.



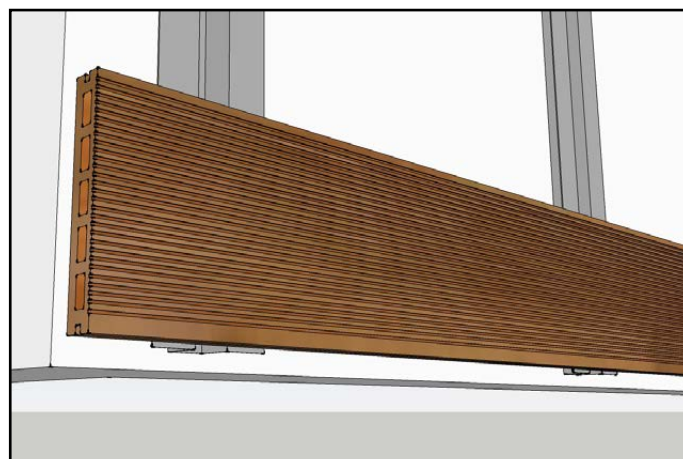
### 3 FIRST STAVE POSITIONING

Position the first stave and insert it into the screwed in clips.



#### CAUTION

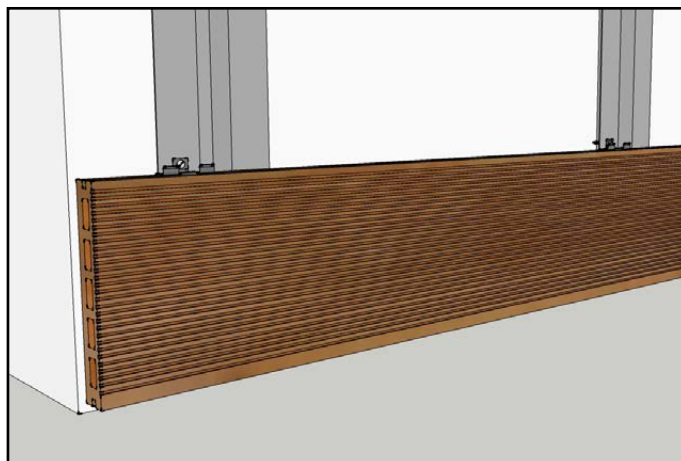
Pay particular attention to the orientation of this stave as all the subsequent ones will follow the same direction.





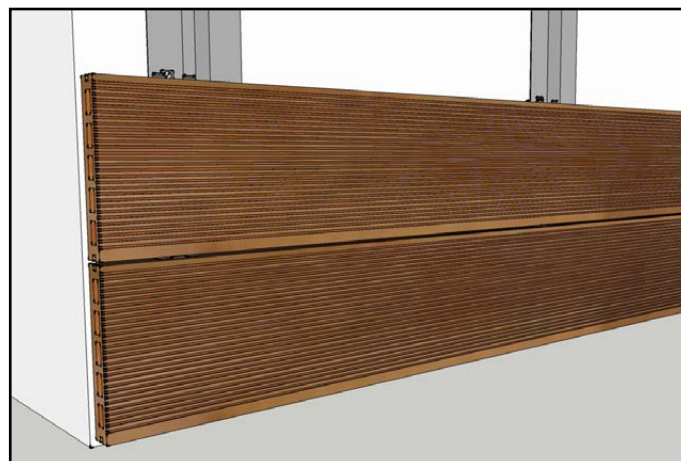
## 4 CLIP POSITIONING

Position the entire row of clips, screwing them into the joists, as shown in picture.



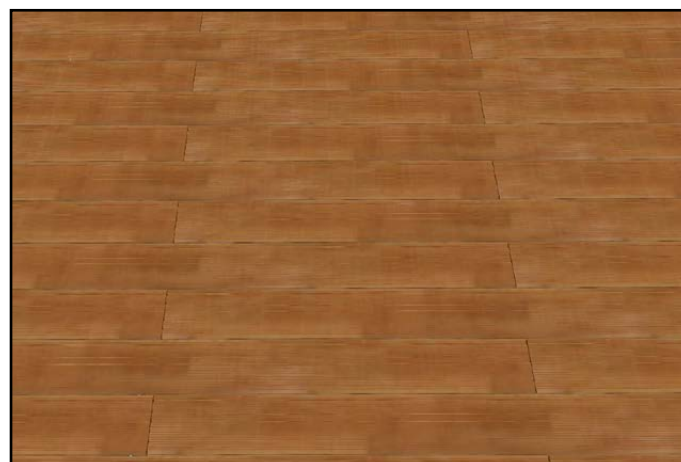
## 5 SECOND STAVE POSITIONING

Position the second stave, placing it onto the row of clips which have just been installed, and then block it applying a new row of clips above.



## 6 COMPLETING INSTALLATION

Repeat steps 4 and 5 until the area to be covered is complete.



## 7 POSITIONING ADJACENT STAVES

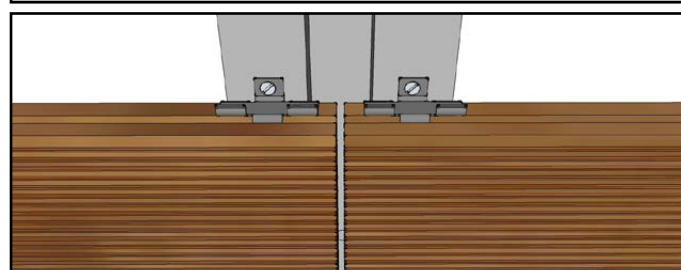
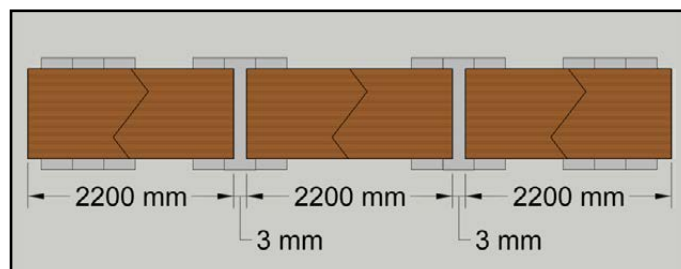
Leave a space of at least 3 mm\* between two adjacent staves to allow the natural thermal expansion of the wood plastic composite.

\* The distance between the staves depends on the outside temperature during laying.



### CAUTION

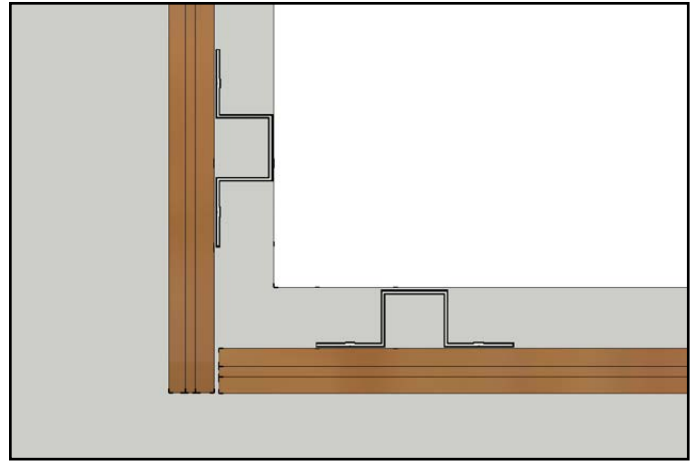
The 2 adjacent staves will stick to the same omega joist with 2 clips.



## 8 POSITIONING STAVES NEXT TO THE EDGE OF THE WALL

Lay the staves in the corner of a wall as shown in the figure. A stave will have a greater boss, up to the outside thread of the perpendicular stave.

To cover the hollow we recommend using a L-shaped profile or using a special aluminium profile.



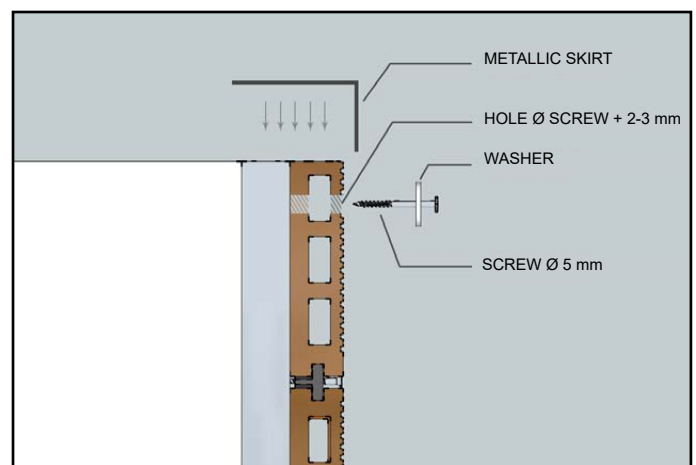
## 9 STAVES POSITIONING ON THE UPPER EDGE

### 9.1 Wall with fixed height

Cut a stave close to a hole, creating a smooth finish.

Create a hole on the stave larger than the diameter of the screw of 3 mm; this passage is essential to allow the natural expansion of the material.

It is recommended to cover everything with a Corner Novowood composite wood profile or metallic skirt.

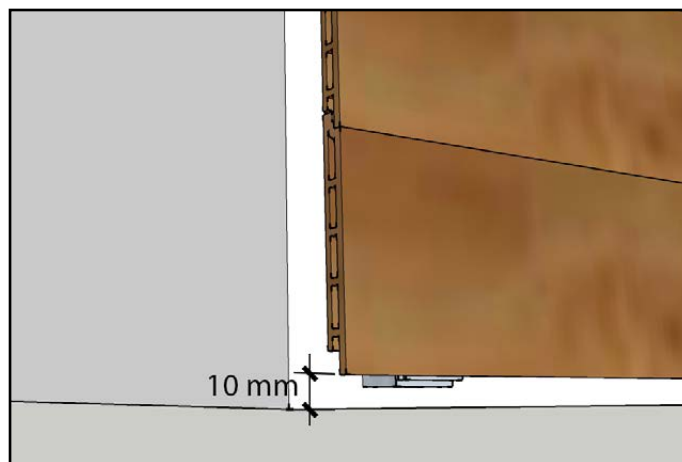


## 2.1b LAYING THE STAVES SKIN 127x15 mm



### 1 STAVE DISTANCE FROM THE GROUND (STAVES 127x15)

It is necessary to leave a space between the first stave and the ground of **at least 10 mm**, to allow the material ventilation.



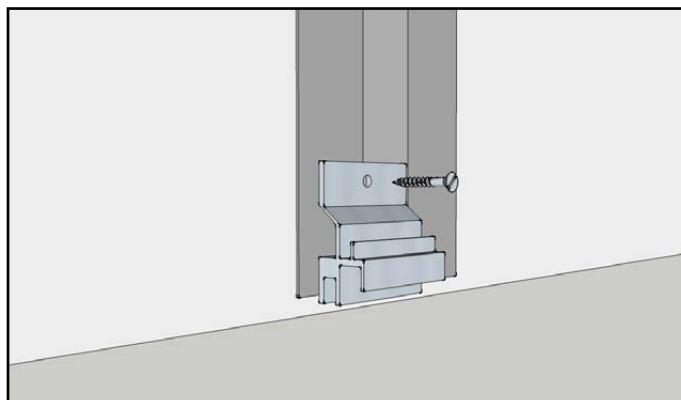
### 2 POSITIONING THE FIRST ROW OF CLIPS

Position the clips on the joists, as shown in the picture.



#### CAUTION

Check the squaring by positioning a stave before final clip fixing.



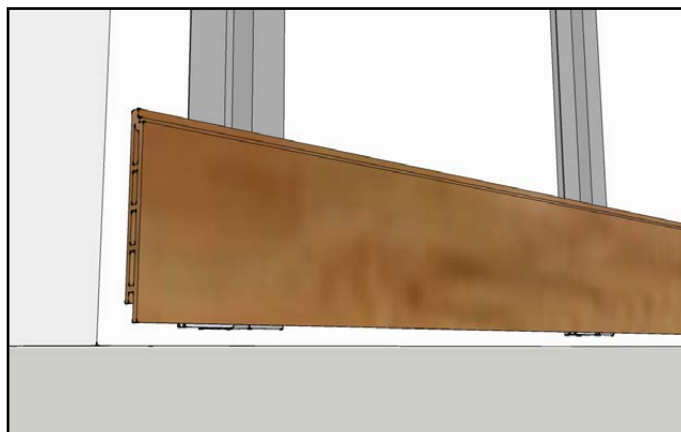
### 3 FIRST STAVE POSITIONING

Position the first stave and insert it into the screwed in clips.



#### CAUTION

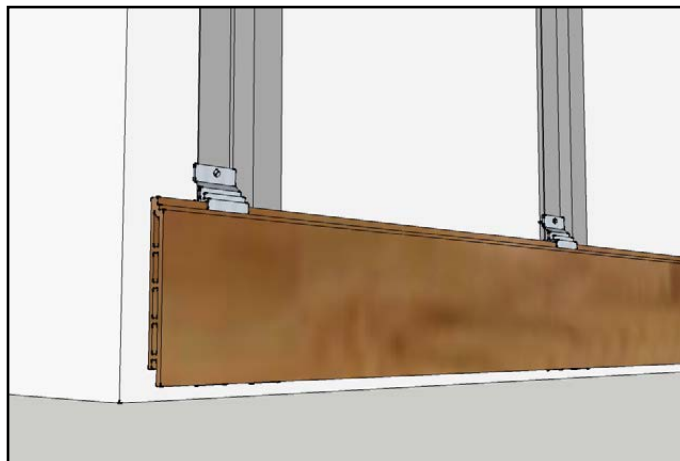
Pay particular attention to the orientation of this stave as all the subsequent ones will follow the same direction.





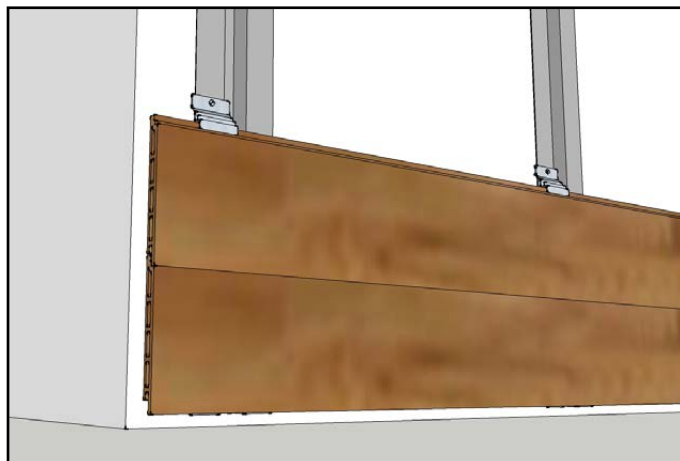
## 4 CLIP POSITIONING

Position the entire row of clips, screwing them into the joists, as shown in picture.



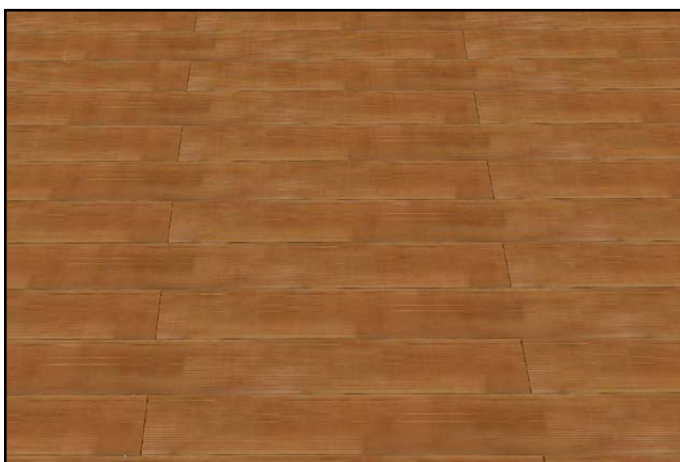
## 5 SECOND STAVE POSITIONING

Position the second stave, placing it onto the row of clips which have just been installed, and then block it applying a new row of clips above.



## 6 COMPLETING INSTALLATION

Repeat steps 4 and 5 until the area to be covered is complete.



## 7 POSITIONING ADJACENT STAVES

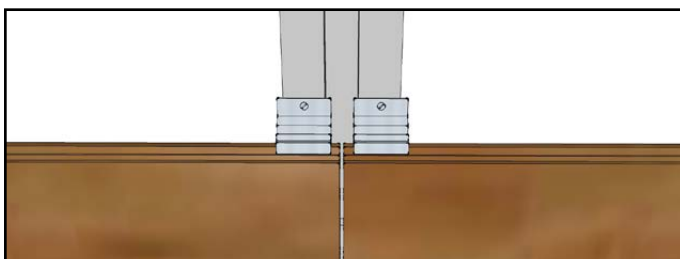
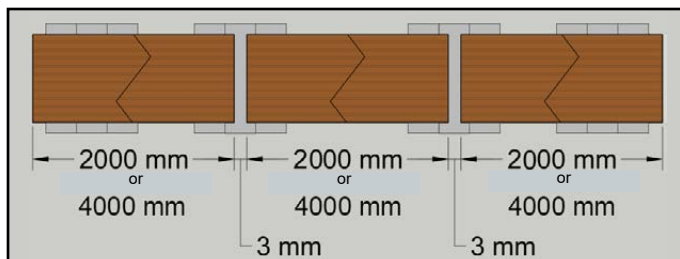
Leave a space of at least 3 mm\* between two adjacent staves to allow the natural thermal expansion of the wood plastic composite.

\* The distance between the staves depends on the outside temperature during laying.



### CAUTION

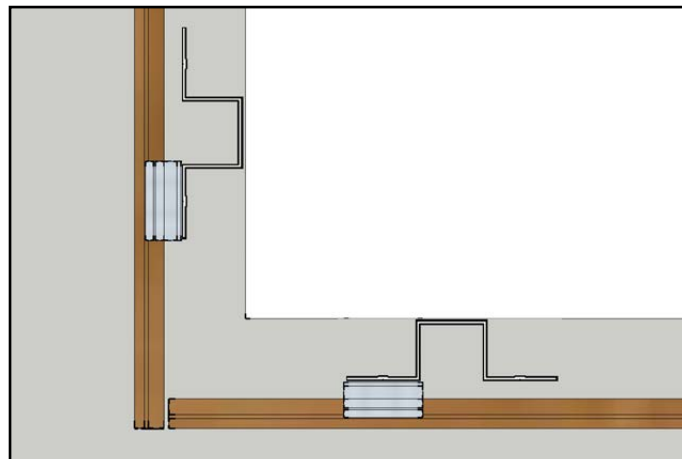
The 2 adjacent staves will stick to the same omega joist with 2 clips.



## 8 POSITIONING STAVES NEXT TO THE EDGE OF THE WALL

Lay the staves in the corner of a wall as shown in the figure. A stave will have a greater boss, up to the outside thread of the perpendicular stave.

To cover the hollow we recommend using a L-shaped profile or using a special aluminium profile.

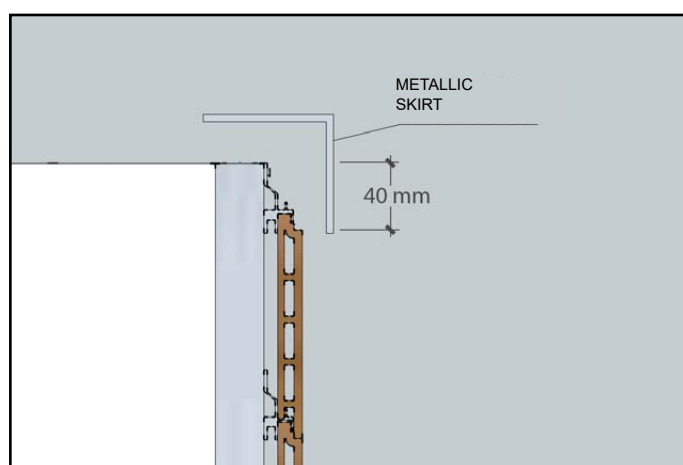


## 9 STAVES POSITIONING ON THE UPPER EDGE

### 9.1 Closure with metallic skirt

Calculate the height of the joists multiplying the number of staves necessary to cover the wall and do the cut.

Apply the metallic skirt on the upper edge covering the steel clips.



### 9.2 Closure with corner trim

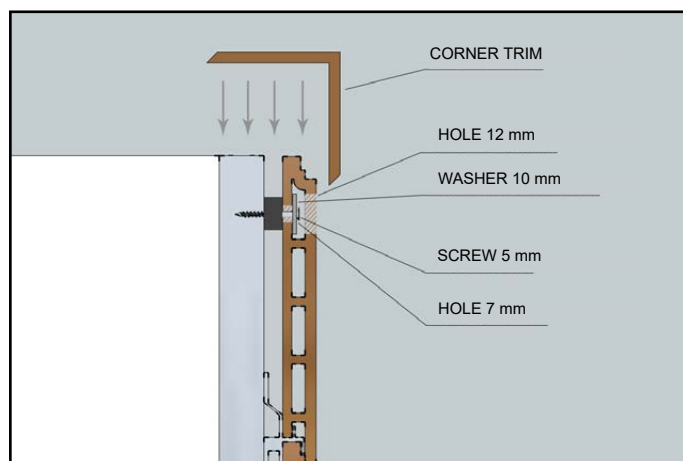
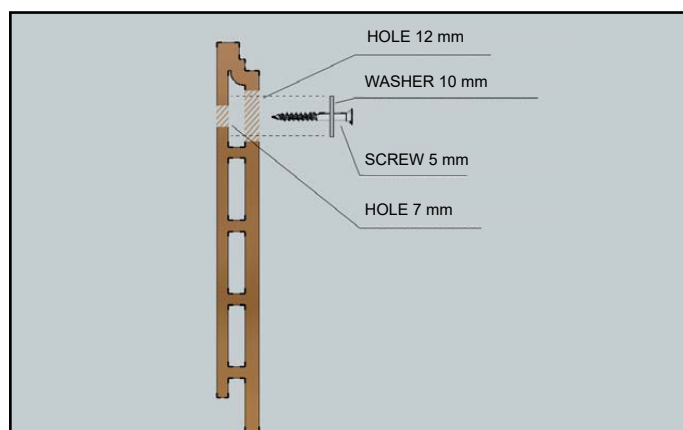
Create a hole in the stave until you reach the hollow, the hole must have a bigger dimension than the washer;

create a second hole of bigger dimensions than the screw so that you allow the natural thermal expansion of the material.

The second hole must not have bigger dimensions than the washer, in order to avoid not being able to fix the stave to the joist.

The measurements in the image are only for illustrative purposes.

Fix the pierced stave to the joist using a shim; cover everything with a NOVOWOOD corner trim or a metallic skirt.



### 3 WASTAGE

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Wastage varies depending on the geometry of the project. A regular shape, for example a square or a rectangle, will produce less waste, while a complex shape with a high number of joints, angles or irregular shapes, will produce more waste. In general, it is estimated to be between 5-10%.

## INFORMATION ON NOVOWOOD'S LIABILITY

The distances to be observed and the method of installation will be evaluated according to the needs of the client and the contractor during laying. The company does not assume any liability for negligence in the installation of NOVOWOOD products. Please check possible updates of the manuals on the website [www.novowood.it](http://www.novowood.it) in the download section.

## NOTES

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