

## Assembly of Landscaping

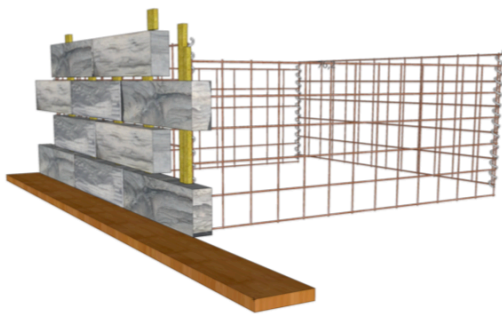
### Pine panels

#### Delivery

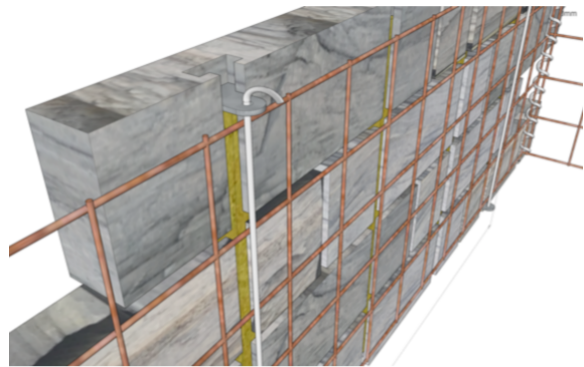
Panels are delivered in a upright position and wrapped in plastic on a standard euro pallets. Upon delivery, all necessary accessories are included, such as 4 gabion vertical panels, 4 helicoils, 2 fixing rod and 4 brackets. Clamps are only sent if an agreement has been reached with the responsible seller.

#### Assembly

The Panels has a nominal length of 1200 mm and a highth of 440 mm. The back face of the panel is regular with milling track allowing wooden wedges to connect at 10 pieces together. The front face is irregular as the wood is splitted and has a relief outlook. Start to level the foundation wood impregnated plank before placing the first panel on the plank. Fold out the gabion panels and fix panel to the backside of wood panel using the bracket and the rod as shown in Figure 1.



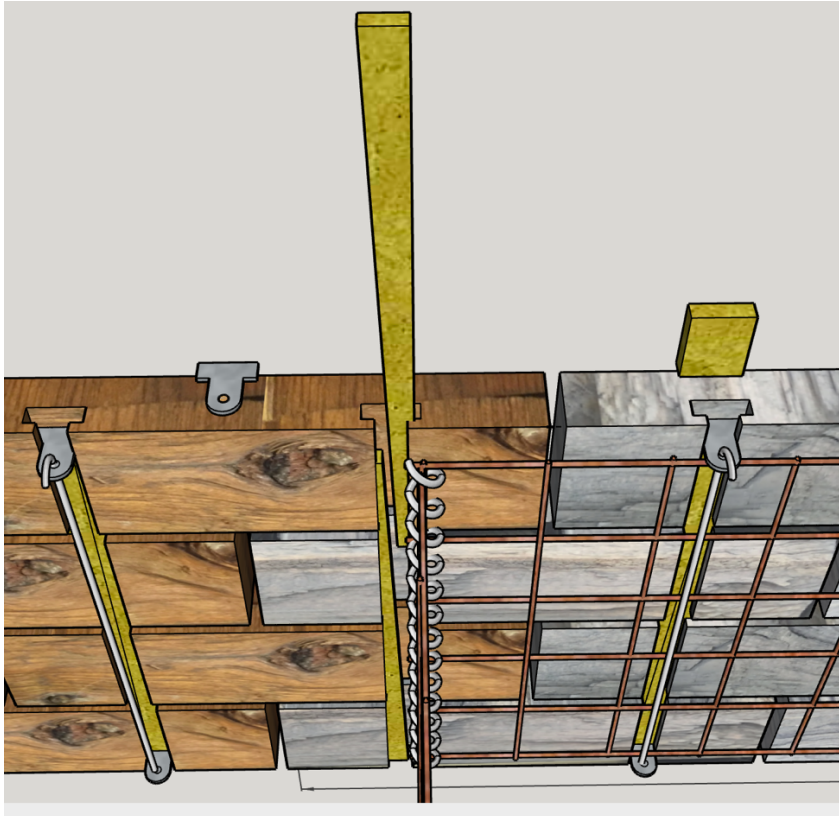
Figur 1



Figur 2

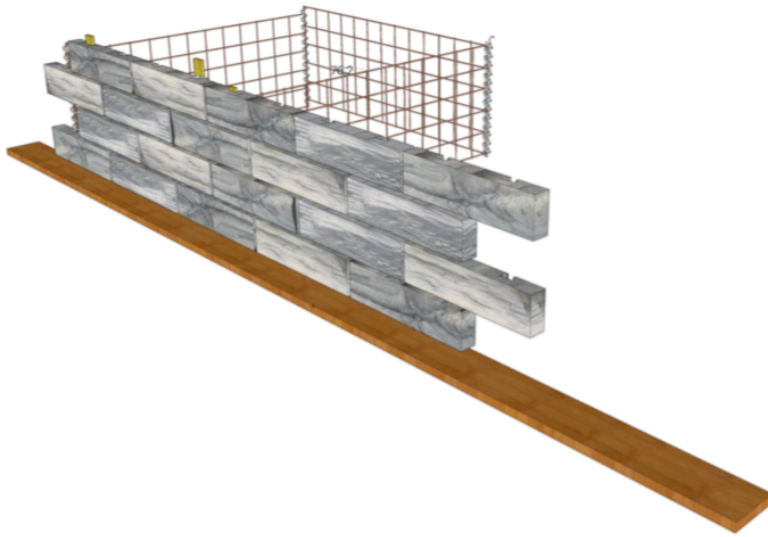
The fixing of the gabion panels to the wood element is shown in fig 2. The bracket has to be installed in the upper and lower part of the milling track by twisting it in place with the distance of 380mm.

The wood elements are connected together (one brown and one grey element just to visualize) longitudinally with coupling wedges as shown in Figure 3. The coupling wedges are conic made to have a good interlocking when pressed together.



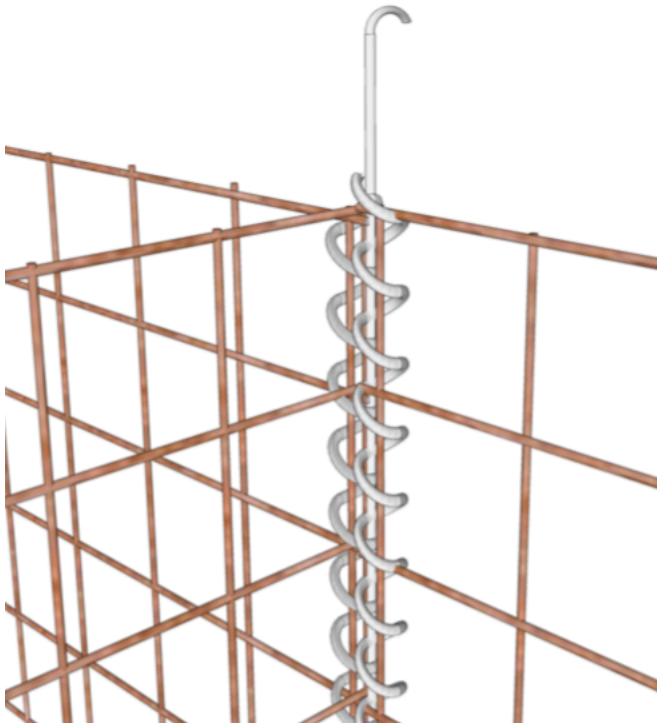
Figur 2

Before you continue to install more wood panels it is recommend to fill the gabion up to approximately half the way and then adjust the vertical inclination for the wall ( between 5 – 10 degree).



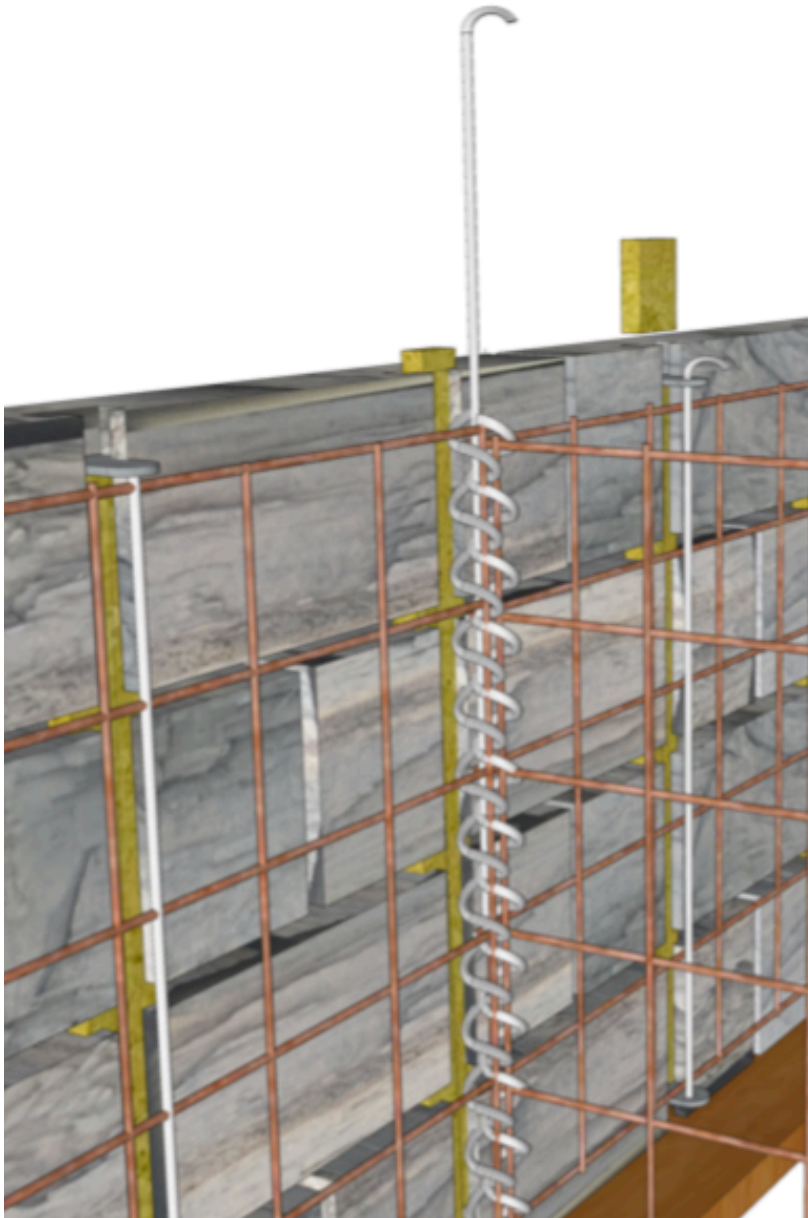
Figur 4

The rear gabion panel has a Heli coils in each front corner. By pressing the heli coils together you can slide in the rod trough both heli coils to make a safe vertical connection. The system is made visual in fig 4 for the rear connection.



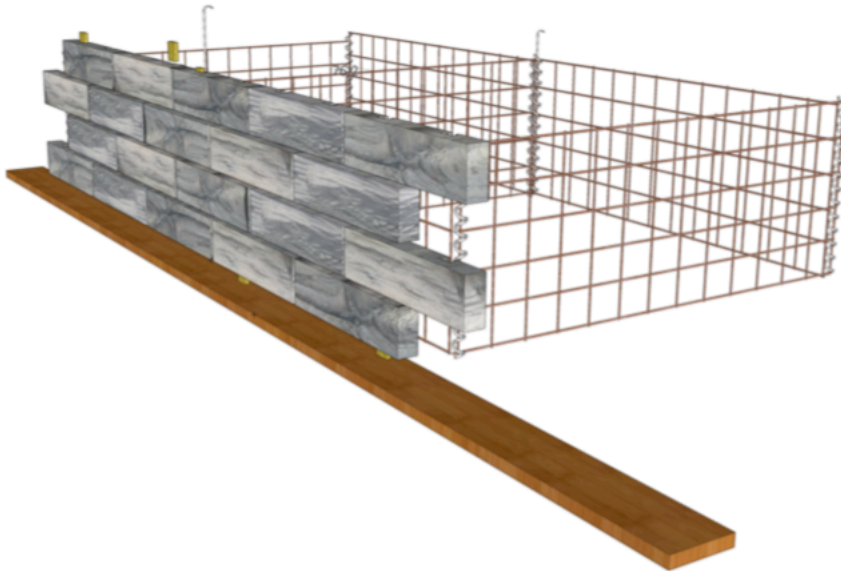
Figur 3

The front gabion panel has also a Heli coils in each corner. By pressing also these heli coils together you can slide in the rod trough both heli coils to make a safe vertical connection. The system is made visual in fig 5 for the rear connection.



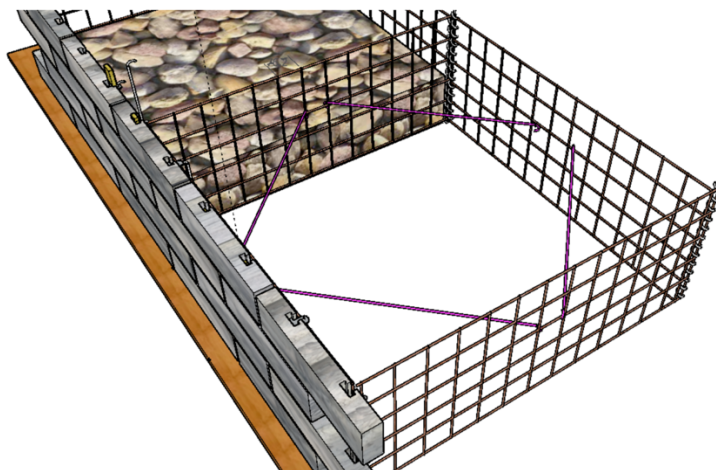
*Figur 5*

Install the mesh basket like in fig. 6 using the connection system shown in fig. 4 and 5. Before continuing to next step check the wanted inclination and fill up half the way inside the gabion basket.



Figur 6

To stiffen the gabion panels a load relay / spacer rod is mounted from the side panel to the rear panel and to the front panel to the side panel in each corner. The gabion has 5 vertical meshes or app. 380mm high. The spacer rod is recommended to fix in every 3<sup>th</sup> mesh heights and in every 5<sup>th</sup> mesh from corner like visualized in fig 7. The rods are mounted in place after filling with stone half the way like in the first basket.



Figur 7



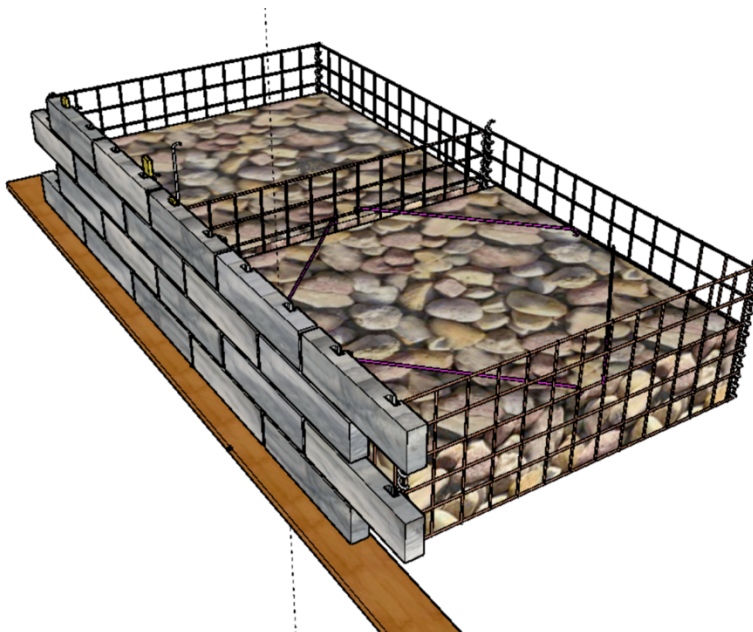
### Filling of Gabions

When filling gabion basket with stones it is urgent to fill in steps as shown in the figures, fig 8 and 9. The filling of the stone can be done by hand carried out with a wheel barrow or using a small excavator.

The filling of stone occurs in one half of the height at a time and the height difference between filled stone, on both sides and center panel, may only be one half of the height. See Figure 7.

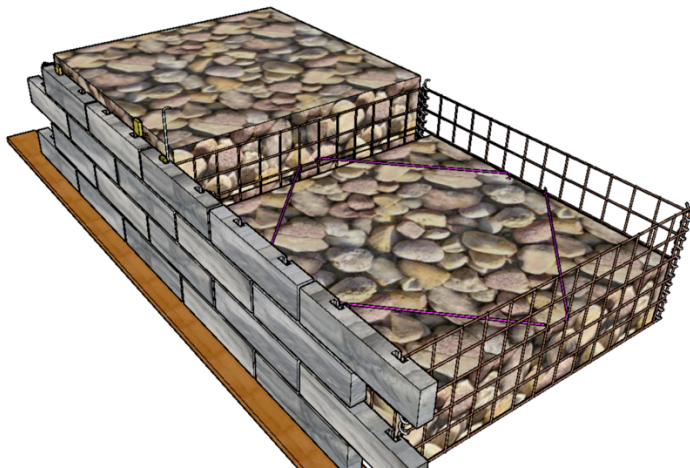
The height difference between filled stone, on both sides and center panel shall not be more than half filled. However, it is important to ensure that the gaps is completely filled up and that all the holes are filled with stone.

Fill to the top of the gabion basket mesh.



Figur 8

When building high walls higher than 3 shifts take contact with us for design recommendations.



Figur 8

### Filling behind Gabions

Backfill to the rear gabion basket panel of the wall should be done according to standard compression layers and the material should be compressed with a light compression equipment. A layer of geotextile (non-woven fabric) should be placed along the back of the back wall with 30 cm overlap to prevent material migration into the wall.

### End of building

Upon completion of work, visual inspection must be done to check that:

- The Gabion wall follows the curved line and the projected height and that there are no large holes at the front.
- All connections are properly connected.
- No damage to the mesh or corrosion protection. Damaged panel should be repaired with external lapping with nets and clamps / C-rings that cover the damaged surface and bind to undamaged mesh.

**Should there be any questions or other uncertainties during the installation then you are welcome to call us at +47 48217020 or Jan R. Wetting on phone +47 48217020**