

# Installation Guide – EcoBrace LVL



## Step 1

Place the EcoBrace brackets with the washer plates and M16 anchors at the design location. Apply adequate torque to tighten the concrete anchor following the supplier's instructions.

*Note: Concrete Anchor is not included.*



## Step 2

Place the spacers on top of the washer plates provided with the kit.



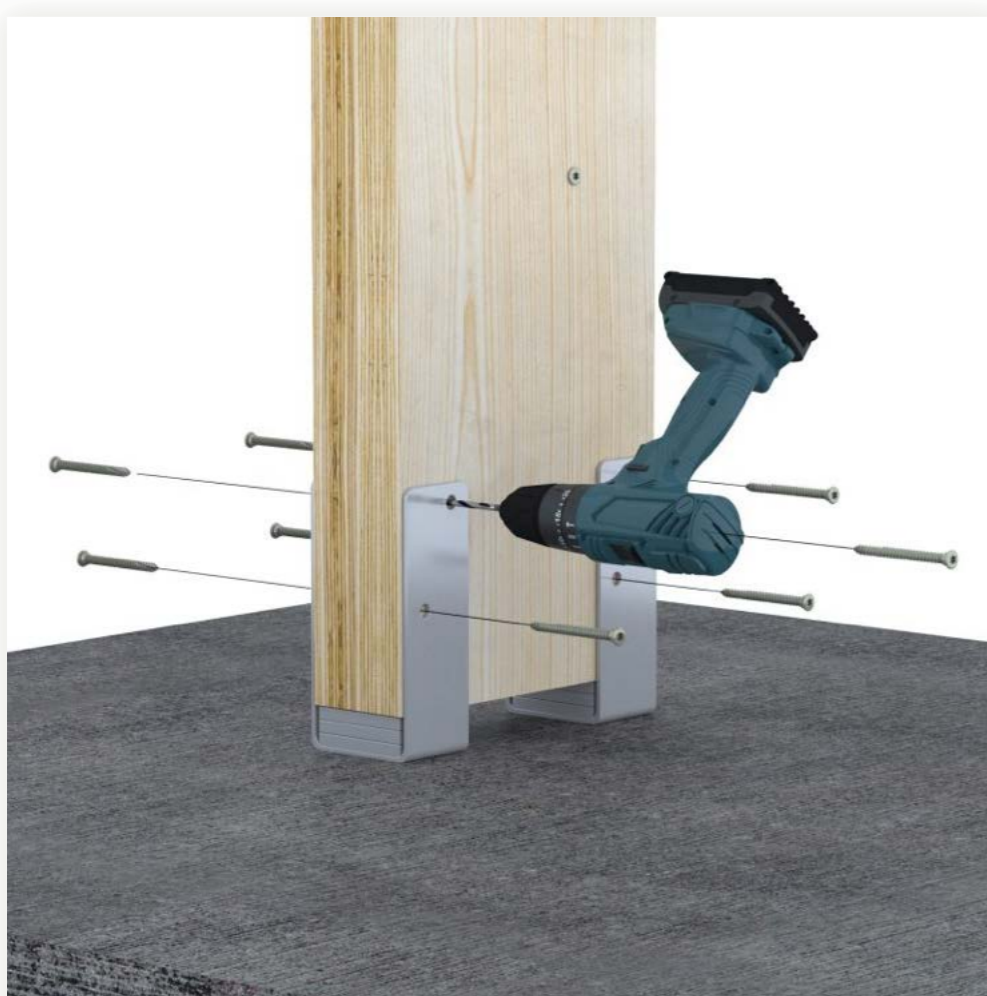
## Step 3

Assemble the LVL column according to the designed height to support the LVL Beam. Pre-drill\* screw locations and install\*\* screws at 600mm centre, staggering them to laminate the LVL column members together.

*Pre-drill\*:*

Pre-drill screw location with a 5mm diameter drill bit. Pre-drill hole depth shall be similar to but no deeper than the penetration depth of the screws.

*Install\*\*:* The recommended torque setting is to be no more than 10 N.m.



## Step 4

Insert the assembled LVL column into the EcoBrace brackets that are fixed to concrete. Pre-drill\* screw locations and install\*\* screws in all holes of the brackets to securely fix the column to the brackets. Temporarily prop the column if needed.

*Pre-drill\*:*

Pre-drill screw location with a 5mm diameter drill bit. Pre-drill hole depth shall be similar to but no deeper than the penetration depth of the screws.

*Install\*\*:* The recommended torque setting is to be no more than 10 N.m.



## Step 5

Repeat steps 1 to 4 to install the second column. Alternatively, steps 1 to 4 can be applied simultaneously to install both columns.



## Step 6

Assemble the LVL beam according to the design length to be supported by the LVL Column. Pre-drill\* screw locations and install\*\* screws at 600mm centre, staggering them to laminate the LVL beam together. Support the LVL beam onto the columns and prop the beam temporarily in place.

*Pre-drill\*:*

Pre-drill screw location with a 5mm diameter drill bit. Pre-drill hole depth shall be similar to but no deeper than the penetration depth of the screws.

*Install\*\*:* The recommended torque setting is to be no more than 10 N.m.



## Step 7

Place the Screw location template\* at the knee joint. Mark the location of the screws on both knee joints and remove the template once the locations are marked accurately.

*Template\*:* Choose the template specific to the size of the LVL selected for the Ecobrace Portal System



## Step 8

Pre-drill\* screw locations and install\*\* screws at both knee joints to securely fix the beam to the column.

*Pre-drill\*:*

Pre-drill screw location with a 5mm diameter drill bit. Pre-drill hole depth shall be similar to but no deeper than the penetration depth of the screws.

*Install\*\*:* The recommended torque setting is to be no more than 10 N.m.



## Step 9

Job Done!