Installation of SLADEX® Balcony Slab Connector

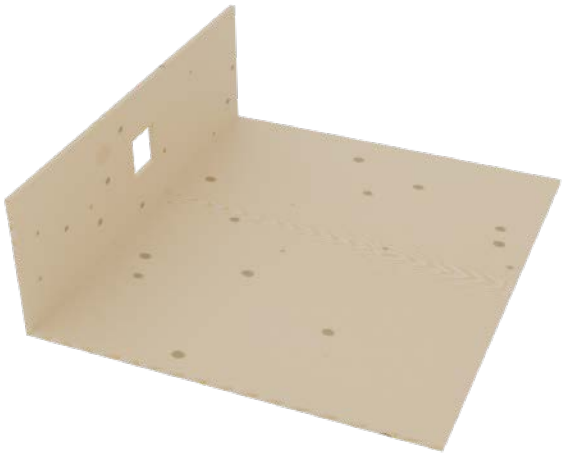
SLADEX® Balcony Slab Connector is installed into the planned position before casting concrete. Position of each component of SLADEX® is indicated in the installation drawing.

PRECAST FACTORY

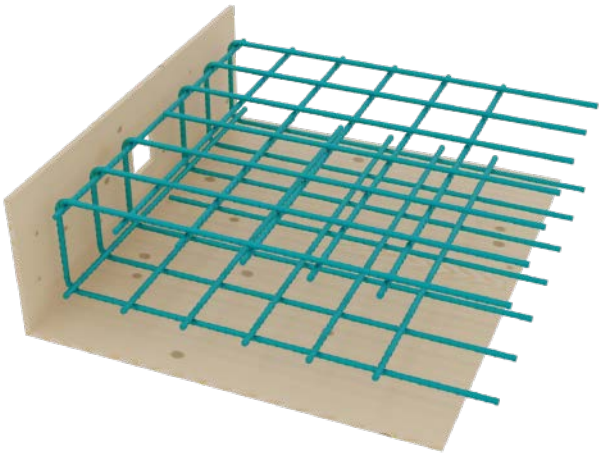
Balcony slabs can be cast either in using direction (top surface up) or reversed with bottom surface of balcony up. SLADEX® can be installed to the formwork in two ways based on installation of the double headed studs:.

Top installation:

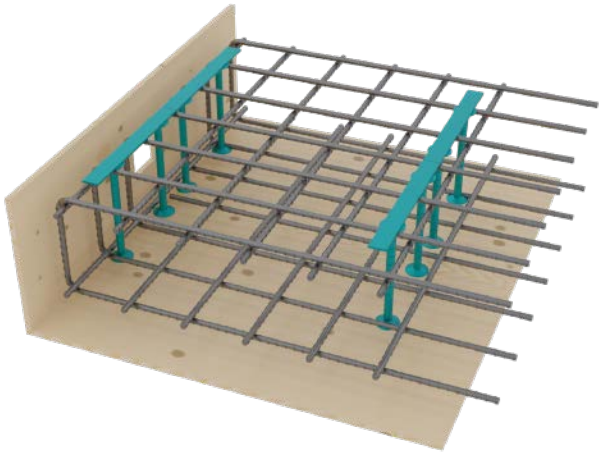
Double headed studs are installed from top to main reinforcement of the slab. Balcony slab presented in figures is cast in reversed direction with bottom surface of balcony slab in top



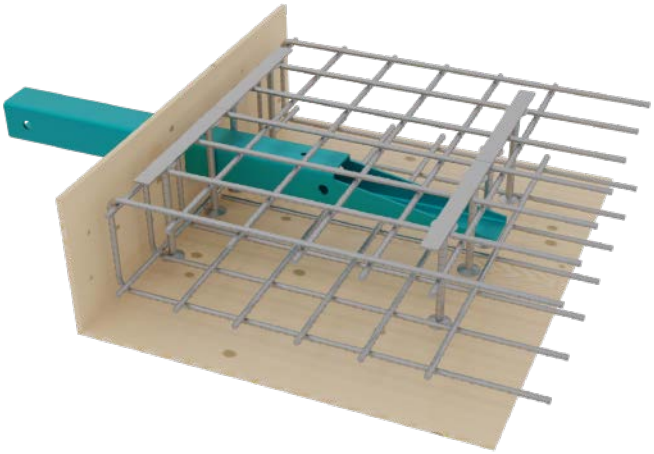
1. Prepare formwork and cut the opening for the RHS tube profile.



2. Insert the main reinforcement of the slab.

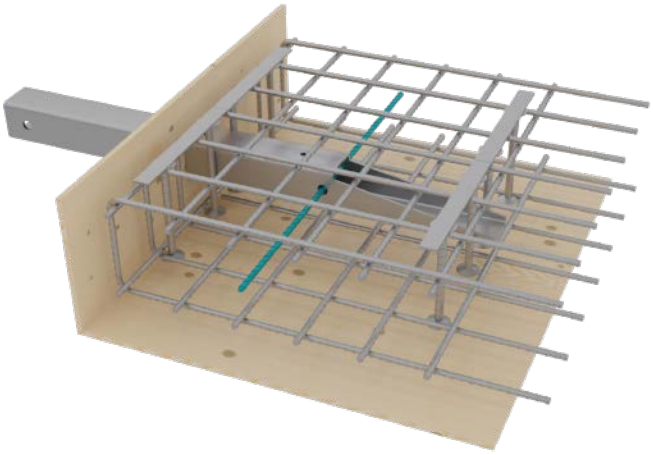


3. Insert stud rails one by one in the right position around the tube opening.

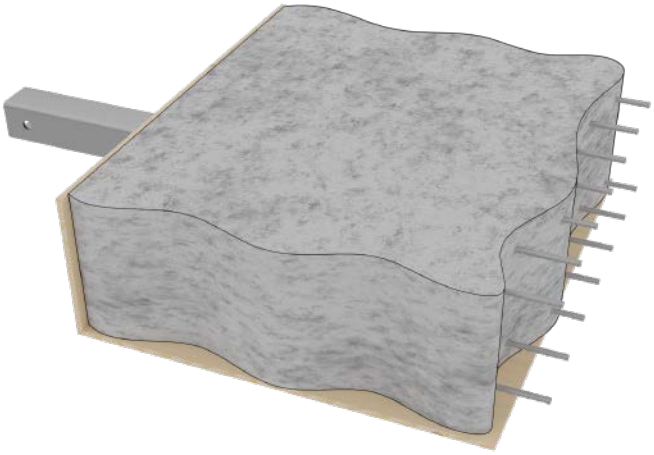


4. Fill the tube (e.g. with stone wool) in the formwork wall level. Insert the RHS tube through the hole in the formwork.

   Secure the openings against leaking of the concrete outside of the formwork.



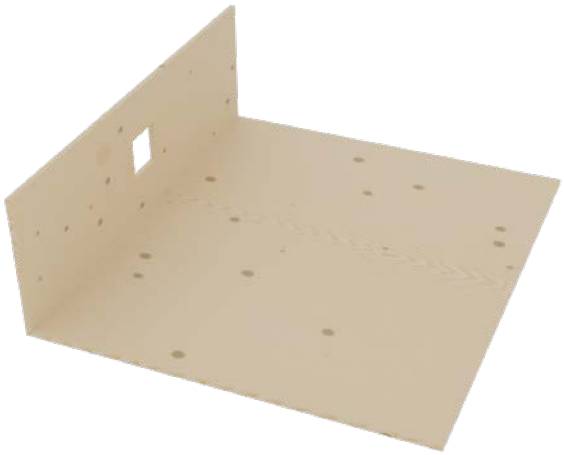
5. Insert the transverse reinforcement through the hole at the end of the tube. Tighten the RHS tube to the vertical reinforcement and secure the position of the tube during casting.



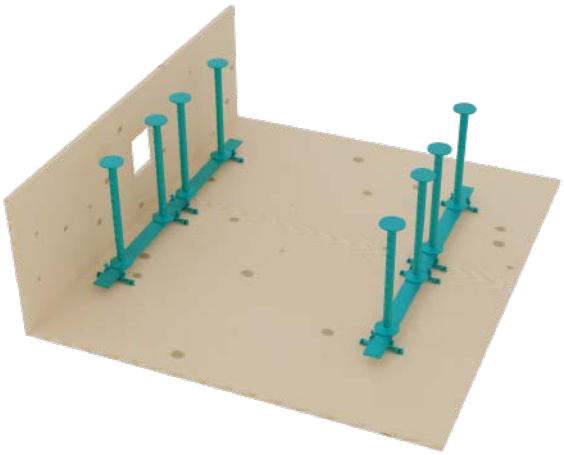
6. Fill the RHS tube in the formwork with concrete. Pour the concrete into the formwork. After the concrete reaches the required strength, remove the precast element from the formwork.

Bottom installation:

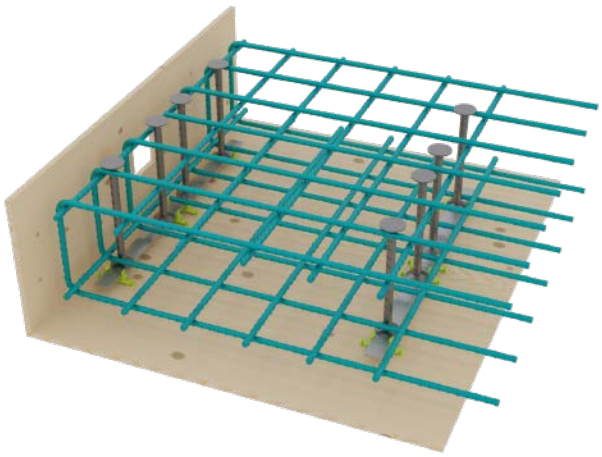
Double headed studs are installed before the installation of the main reinforcement of the slab.



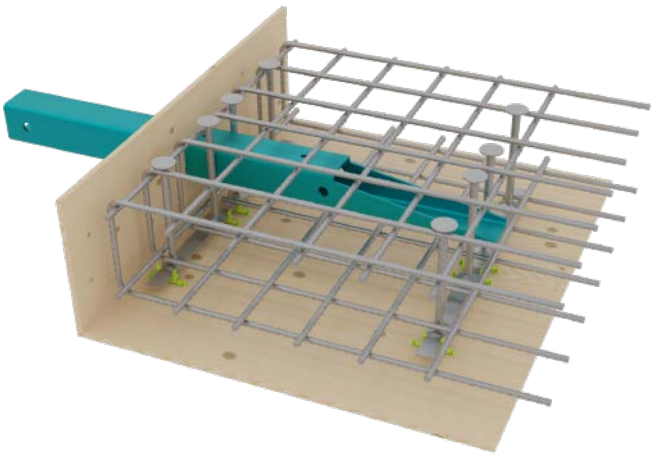
1. Prepare the formwork and cut out the opening for the RHS tube.



2. Insert stud rails one by one in the right position. Use plastic spacers to secure the proper concrete cover. **Spacers are not part of the standard delivery and need to be ordered separately.**

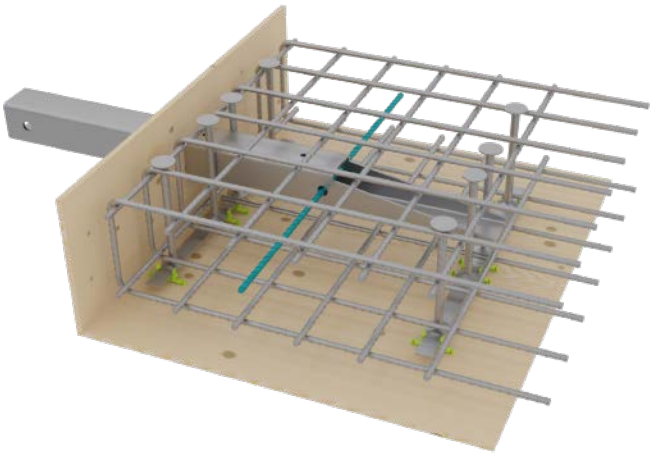


3. Insert the main reinforcement of the slab.

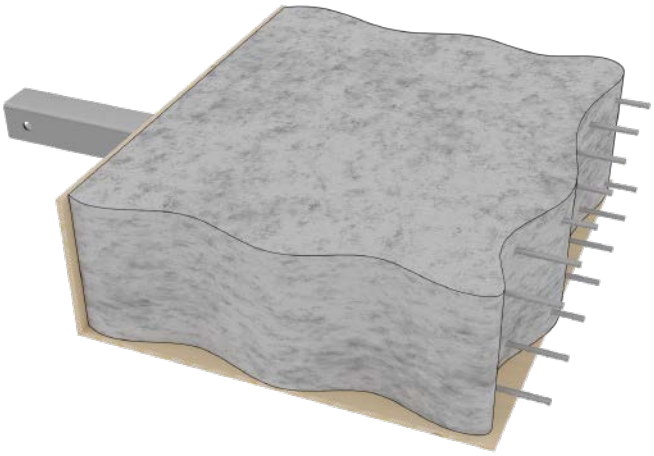


4. Fill the tube (e.g. with stone wool) in the formwork wall area. Insert the RHS tube through the hole in the formwork.

   Secure the openings against leaking of the concrete outside of the formwork.

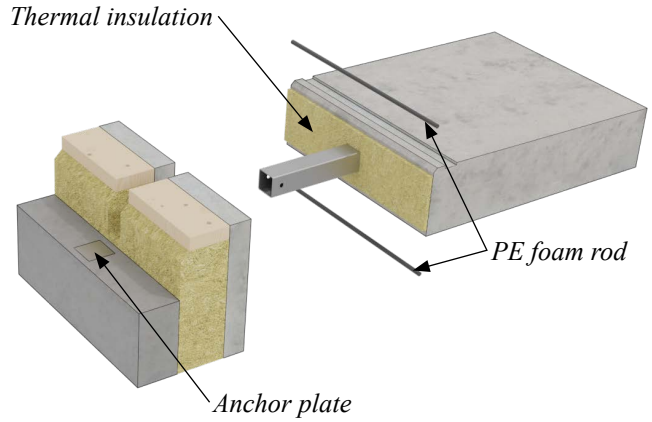


5. Insert the transverse reinforcement through the hole at the end of the tube. the RHS tube to vertical reinforcement and secure the position during casting.



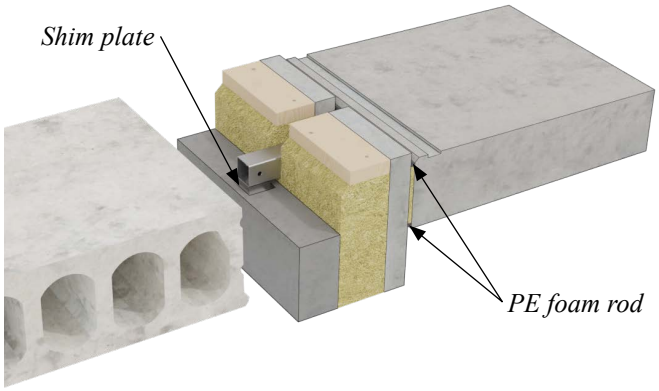
6. Pour the concrete into the formwork. After the concrete reaches the required strength, remove the precast element from the formwork.

BUILDING SITE



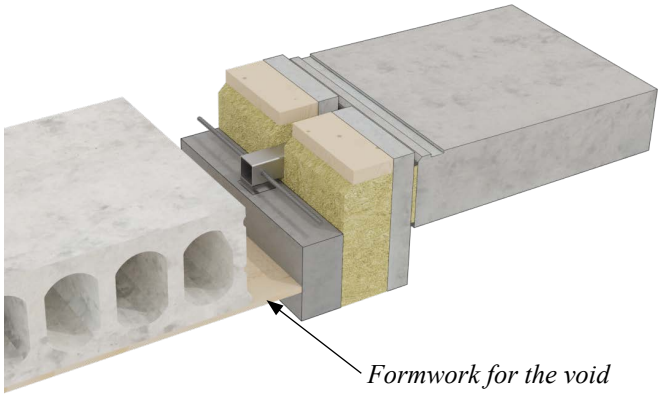
1. Wall panel is produced with a slot for installation of the SLADEX® balcony tube and anchor plate at loadbearing part of the wall.

   Place a layer of thermal insulation to precast balcony element to fill the gap between balcony and wall panel.



2. Place the protruding part of the SLADEX® Balcony Slab Connector on the existing base structure through slot in the wall panel. Level of the RHS tube is adjusted by shim plates. Shim plates are placed between RHS tube and anchor plate. (Shim plates are not a part of Peikko delivery)

   Gap between balcony slab and wall element will be secured after installation by PE foam rod and sealant.



3. Secure the needed fixing to the frame structure and ensure that possible joint reinforcement is in place. Check also that the formwork is done according to the assembly details and plans and insert the additional reinforcement bar through the hole at the end of the stainless steel profile.

4. Pour the concrete into the formwork and fill the void between floor slab and wall panel. After the concrete reaches the required resistance, remove the formwork. SLADEX® carries full load from the precast slab into the base structure.