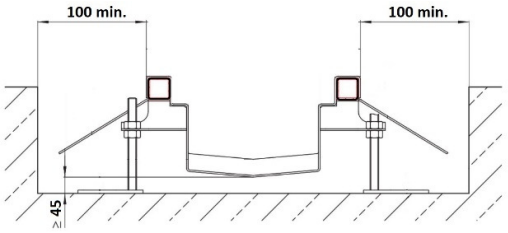
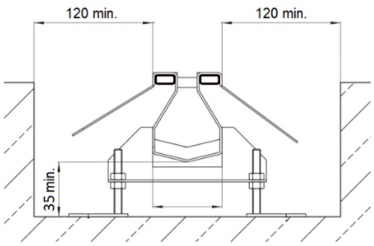
Stainless Steel Channel Installation Instructions

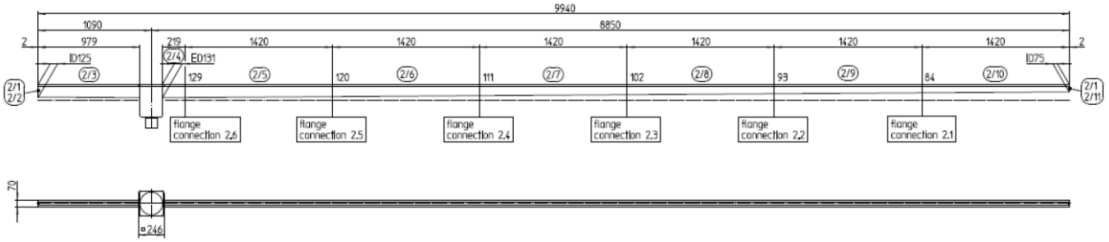
1. If it is a retrofit installation and the concrete floor needs to be cut, please cut a recess allowing for a minimum of 100mm clearance from the top edge for grated channels and 120mm from the top edge for slot channels to allow for fitting and installation. There is also a requirement of a minimum of 45mm from the deepest invert of the channel to the concrete that the channel will be fixed to prior to the concrete pour to allow for the bolted flange connections.



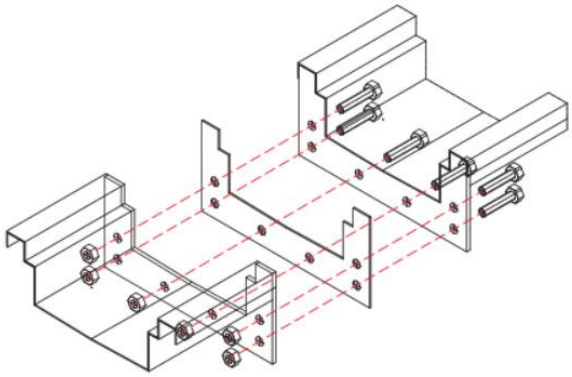


2. For new installations a level footing slab shall be formed under the length of the channel to facilitate leveling and securing the channel in position prior to the pouring of the floor concrete. At the outlets of the channels, it is recommended to leave gaps of approximately 400mm in the footing slab, either side of the centreline of the in-ground drainage pipe, to allow for adjustment of the in ground pipe as required for the installation of the channel outlet pipe into the ground pipe. For retrofit installations it is also recommended to leave space around the ground outlet pipe to allow for minor adjustments when connecting the channel outlet pipe to the ground pipe

3. The channels will be delivered with identification numbers marked under the channel to assist with assembly. Examples shown below.



4. If the channel consists of multiple sections with flanged, bolted connections, NBR gaskets are provided and are numbered according to the flange connection number. Nuts and bolts are also provided for the bolted flange connections. Assembly of the channels may be completed more easily with the channel upside down. Install the NBR gasket to the corresponding flange connection and for grated channels, tighten the flange nuts/bolts to 40Nm and for slot channels tighten to 20Nm.



5. Threaded stainless steel rods are provided, with nuts and leveling feet. Where the threaded rods provided are **300mm or less**, attach the leveling feet to one end of each threaded rod and run a nut on to the other end. Insert the threaded rod into the leveling feet mounting points and then thread another nut onto the top to hold it in position. Adjust the height of the 2 x top nuts to set the channel height at the required level.

6. Where the threaded rods provided are **longer than 300mm**, for example where there is a requirement to have more space under the bottom of the channel for reinforcing etc., the threaded rods must be braced to ensure stability of the channel during the concrete pour. Where stabiliser bars are to be used, thread one nut lower onto the threaded rod, followed by the stabiliser bar, then another nut to enable the stabiliser bar to be secured in position, ensuring that any distance between the footing slab connection and the channel connection is not greater than 300mm. Once each pair of rods are installed adjust the stabiliser bar so that it's in the correct position and level, then tighten the nuts at the top and bottom securely.

7. Once the channel is assembled place it in position on the installed leveling feet, remove any shipping protective tape/strips from the channels and check that all joints are correctly aligned. For grated channels, use one section of grate to test fit/check for fitment at the joints along the channel, adjusting the bolted flange connection as required. If required trim any protruding NBR gasket material from the top edges of the flange joint using a sharp utility knife.

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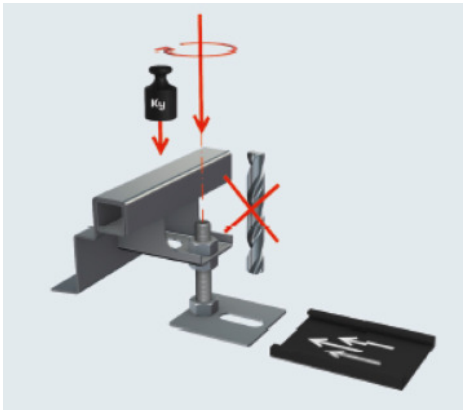
8. Check the required floor height and ensure that in ground pipe connections are at the correct height. The finished channel top surface should be 1 to 1.5 mm below the desired finished floor level, also allowing for epoxy or other surface finish.

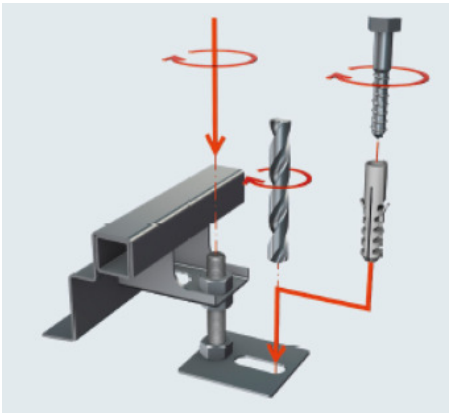
9. If connecting the channel outlet pipe to a socketed pipe connection suitable for trade waste pipe (e.g. 110mm or 160mm outside diameter), the outlet pipe of the channel will push directly into the socket. Ensure the minimum insertion depth into the socket is achieved as required by the pipe fitting manufacturer.

10. If connecting to non-socketed pipe (e.g. HDPE) flexible pipe connectors such as Dura, Fernco or similar, matching the outside diameter of the ground pipe and floor drain outlet pipe.

11. The channel needs to be set in position, so it does not move/float when pouring the floor concrete. Rubber shoes are provided on the leveling feet for installation on waterproof membranes. In the case of waterproof membrane installations, the leveling feet shall **not** be bolted to the concrete recess and the channel must be weighted with sandbags or similar to prevent movement or floatation during the concrete pour. For installations without waterproof membrane the leveling feet shall be bolted to the concrete recess/footing.



Installations with waterproof membrane

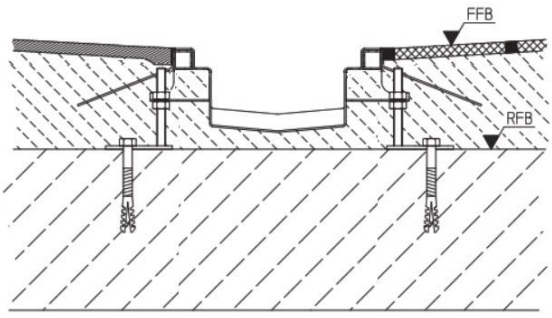


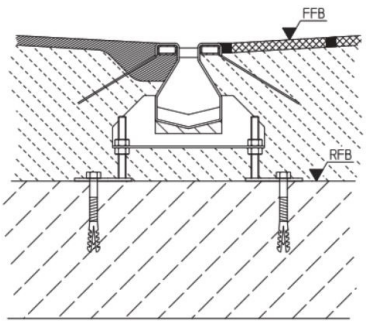
Installations without waterproof membrane

12. Bend/adjust the anchor tabs, located at 500mm intervals along the length of the channel, to assist with keying the floor drain into the concrete to be poured. See images below at item #12.

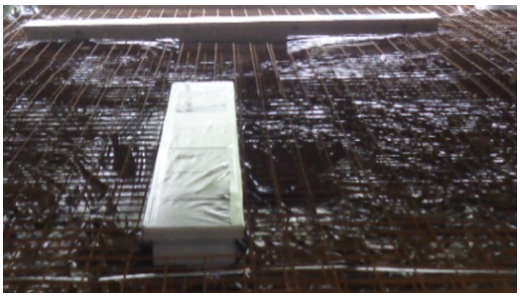
13. If equipotential bonding is required, connect the earth wire to the provision on the channel.

14. Consult with the designer or flooring contractor in relation to requirements for the detail required around the top edge of the channel for sealing. Some flooring contractors prefer a foam strip to be installed around the top edge of the channel, which is then removed after the concrete has set, to allow for sealant to be applied. When using an epoxy floor system it is recommended to have a wedge-shaped attachment zone in the area of the drain edge (see the left hand side of the images below).





15. Cover the channel with plywood or similar and plastic sheet to prevent debris entering the channel, channel outlet and the drainage system.



16. Pour the floor concrete, ensuring the concrete is well compacted around and under the channel and channel outlet, fully supporting it.

17. Seal around the channel edges as per the designer/flooring contractors' requirements.

18. At the completion of the project construction phase, remove the temporary covers, clean the channel and install the accessories, outlet strainers, traps, baskets, grates/covers etc.

19. For simplification of the cleaning process during operational use of the channels the supports on the inside at the top of the slot channels and grated channels may be removed carefully using an angle grinder with a stainless steel cutting disk, **only after the concrete is poured and set**. These supports are required to be in place during transportation and installation of the channels to maintain the channel dimensions until the concrete is set. Removal of these allows cleaners to run brushes and other cleaning equipment the entire length of the channels without obstruction.