

Stainless Steel Floor Channels - Materials Care, Maintenance, Installation & Specifying/Ordering

Materials

Harmer Stainless Channels are manufactured in 1.5mm and 2mm thick sheets to material Grade 304. This is suitable for general use in and around buildings including most coastal locations. It is predominately considered for areas with food production, processing or preparation where corrosion resistance or minimum maintenance is required. For more aggressive atmospheres such as swimming pool applications, Grade 316 is available on request. Both grades are fully pickle passivated and all components are welded in argon shield to ensure high quality joints.

All channels come complete with standard or compact cylindrical shape gullies from the Harmer Stainless Floor drain range

Grating and baskets are available in various shapes, sizes and finishing versions. The grates are selected according to the loads and location of installation. We offer the following grate types:

- Mesh Anti-Slip
- Ladder
- Ladder Hygienic
- Plate
- Perforated

Grates and bezels are manufactured to material Grade 304 as standard with satin finish which is suitable for most applications. Material Grade 316 is available on request.

Maintenance

The high quality grates and bezels are maintenance free but should be inspected periodically and cleaned of any trapped matter.

If drains are not used for a period of time the trap water may evaporate or become fetid. To remedy this, there is no need to remove the grate, simply reprime the Trap by pouring clean water through the drain. NEVER USE BLEACH OR CAUSTIC CLEANING AGENTS.

To clean Stainless Steel grates, use only soapy water and wipe dry. Under no circumstances use metal scouring pads, metal scrapers or wire wool since this will contaminate surfaces leaving rust spots.

Frequency of cleaning depends upon application. Generally, clean the metal when it is dirty in order to restore its original appearance. This may be once a day for a drain in hygienic or aggressive situations.

Inverted or Bell Trap

Should it be necessary to access the drain for maintenance or rodding purposes, the trap must first be removed.

Equipment required:

- Latex rubber gloves
- Bucket of clean water
- Sponge
- Household disinfectant

Procedure:

- Put on protective latex gloves
- Remove grate
- Dry all surfaces
- Remove basket
- Remove trap

Refitting trap:

- Apply silicone lubricant to seal rim of funnel
- Push fit the trap into the drain body
- Replace basket
- Refit grate
- Reprime the trap with clean water
- Dispose of dirty water

Installation of Typical Channel

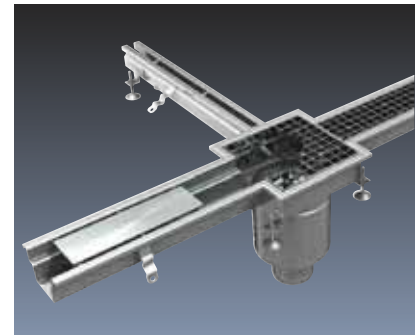
1. Before installing the channel, bolt all its parts constituent parts to ensure tightness of all flange connections (flange-gasket--flange).
2. Install the channel prepared as above in the sewer service pipe's spigot.
3. The next step involves placing of the channel on the required level. The channel edge should be 1-1.5 [mm] below the floor level.
4. When the channel is stabilized, we recommend to secure it against displacement during concrete pouring.
5. Pour concrete on the leveling legs and anchoring elements.
6. In hard to access areas subjected to highest loads, insert the concrete with a spatula.
7. Make sure the elements are clean, free of dirt.
8. Fit gratings, waste baskets and traps.

Channel Depth

Regarding channels made with the bottom fall, the depth of the channels increases with its length. The channel depth at the outlet depends on the initial height, length and the channel fall.

Design Considerations

The placement of floor drains and the channel route depends on the needs and the amount of water to be drained from the floor. The two systems we offer are standard and slot. Channels can be combined as shown below:



Specifying/Ordering

Example 1: Channels in Kitchens

Item: Harmer Stainless.

Floor Construction:

150mm ceramic tiles over insulated solid ground floor slab.

Manufacturer:

Alumasc Exterior Building Products Ltd, White House Works, Bold Road, Sutton, St Helens, Merseyside WA9 4JG.

Body /grate type & material:

Standard Channel with adjustable feet and Standard trapped vertical sump with mesh anti-slip grating manufactured from Stainless Steel.

Example 2: Channel Drain in Changing Rooms

Item: Harmer Stainless.

Floor Construction:

150mm ceramic tiles over suspended concrete floor.

Manufacturer:

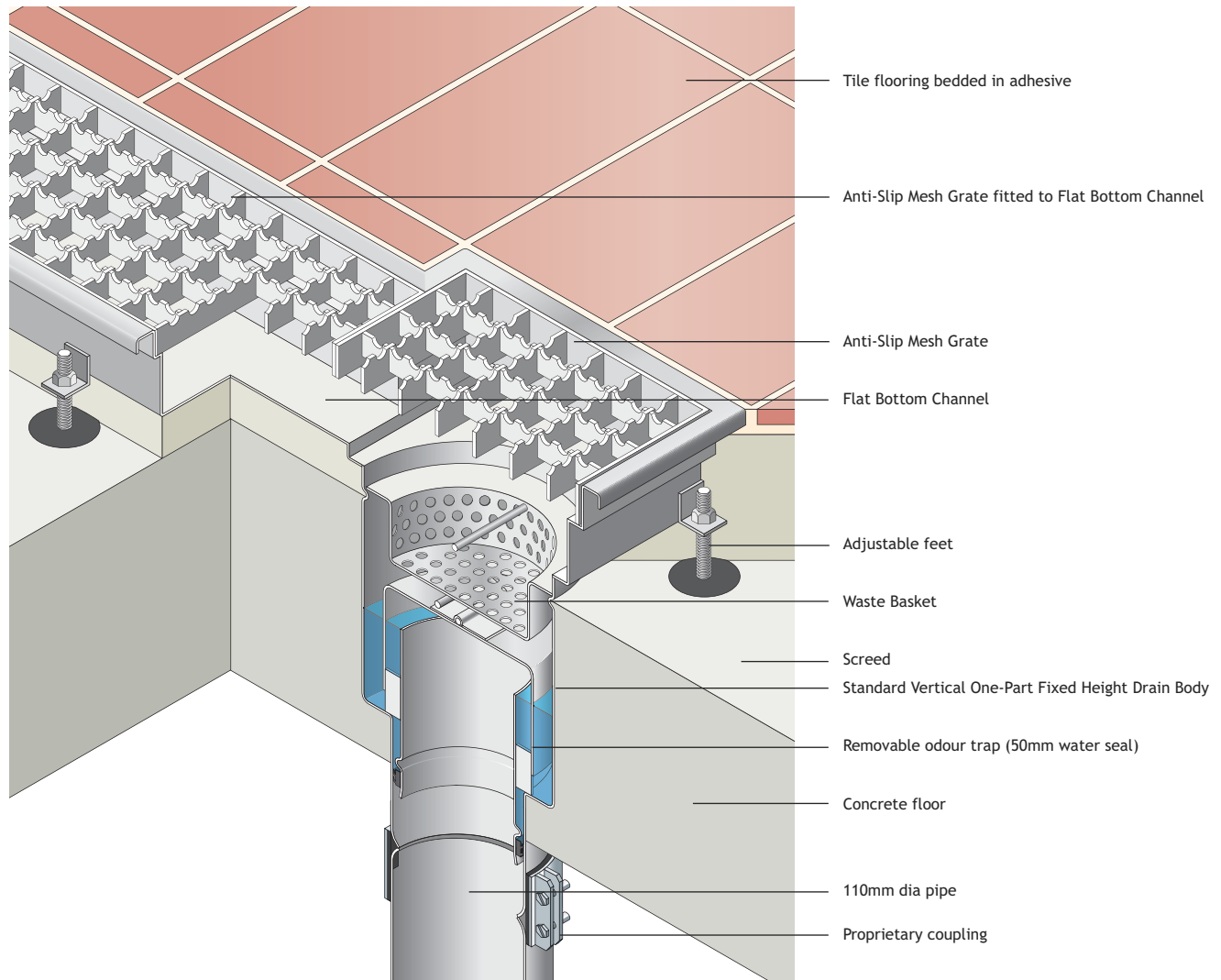
Alumasc Exterior Building Products Ltd, White House Works, Bold Road, Sutton, St Helens, Merseyside WA9 4JG.

Body/grate type & material:

Mini Slot Channel with adjustable feet and Compact two part adjustable height trapped horizontal sump with perforated grating manufactured from Stainless Steel.

Stainless Steel Floor Channels - Application Details

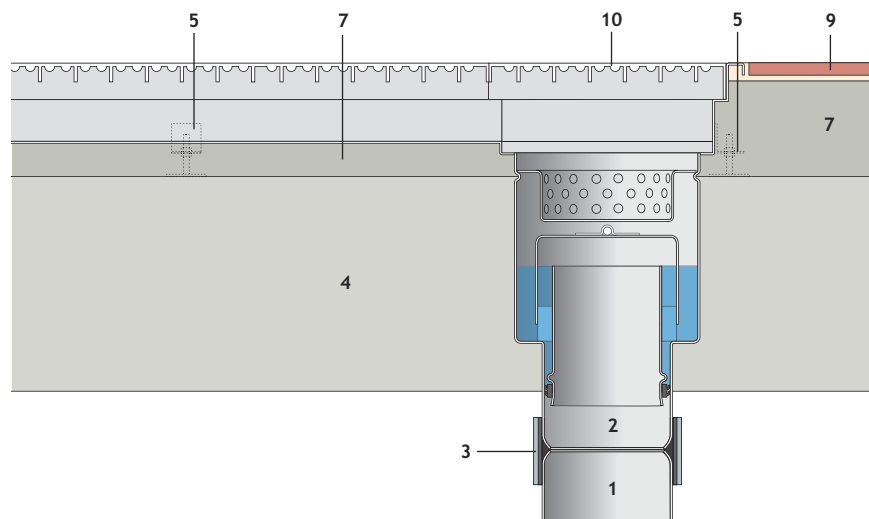
Flat Bottom Channel with Anti-Slip Mesh Grate



Note: Before installing channel, bolt constituent parts to ensure watertight seal of all flange connections

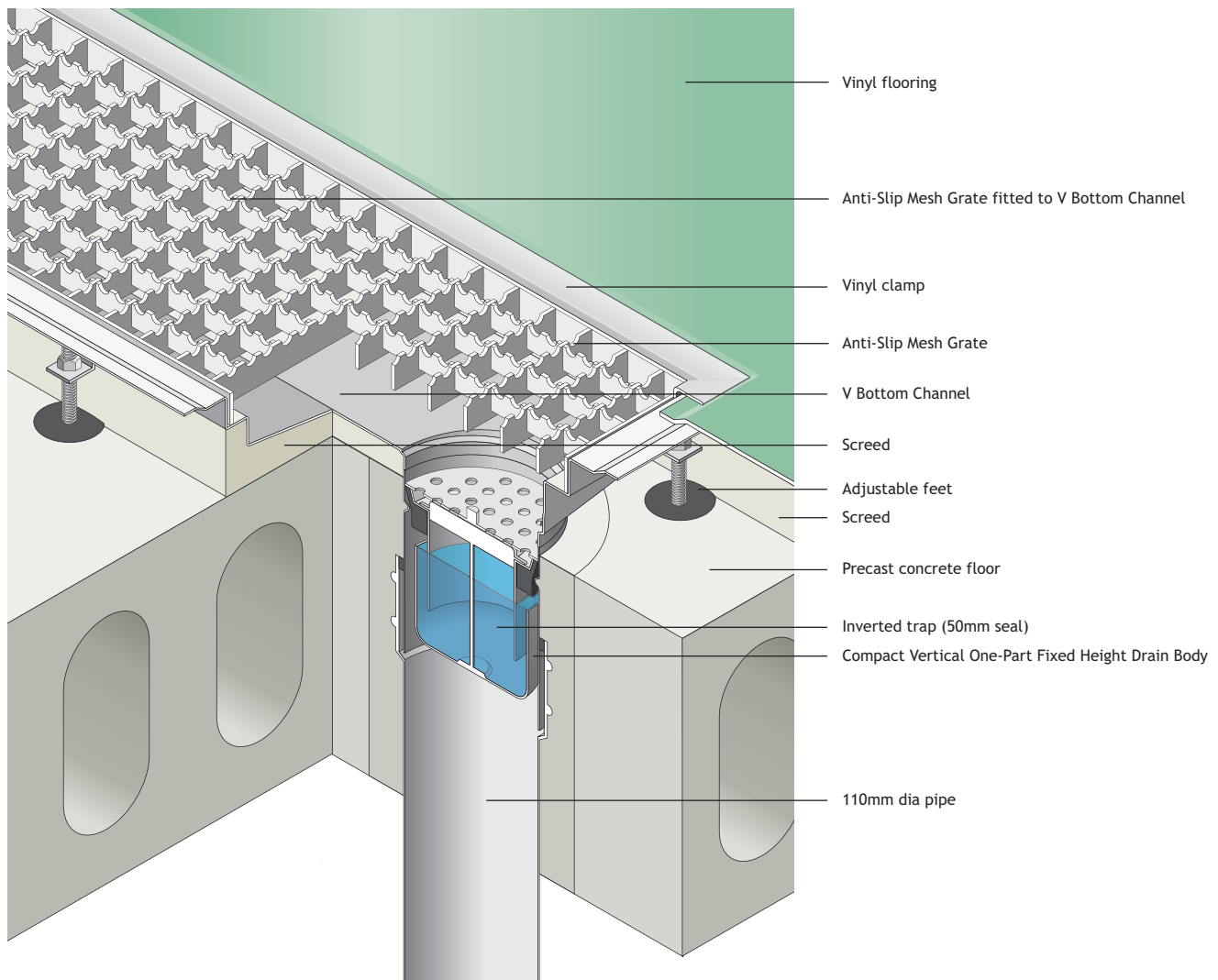
Sitework

1. Position drain pipe to required location.
2. Align outlet of channel over drain pipe.
3. Set outlet to required height (1 to 15mm below FFL) and secure to drain pipe with proprietary coupling.
4. Lay concrete mix to cast drain gully into floor.
5. Set channel falls using adjustable feet fittings.
6. Once channel is stabilised, fix bracing inside channel to prevent distortion.
7. Lay screed to falls.
8. Remove temporary bracing.
9. Apply adhesive and lay tiles.
10. Fit gratings.



Stainless Steel Floor Channels - Application Details

V Bottom Channel with Anti-Slip Mesh Grate



Note: Before installing channel, bolt constituent parts to ensure watertight seal of all flange connections

Sitework

1. Form hole in precast concrete floor to receive drain body.
2. Position channel and drain outlet to the required location.
3. Align outlet with drain pipe.
4. PVC socketed pipe to be pushed and sealed onto socket.
5. Using adjustable feet, set channel to the required FFL.
6. Once channel is stabilised, fix temporary bracing to prevent channel distortion while preparing the floor.
7. Lay screed to falls.
8. Remove temporary bracing.
9. Dress vinyl floor into channel and secure with clamp.
10. Fit trap, strainer and grating.

