

Aluminium Shower Floor Outlets - Connection & Maintenance

The Harmer Shower Drain is highly versatile and can be connected to most types of pipework. The cap, clamp and trap have been designed to optimise efficient flow performance for self-cleaning and reduced maintenance.

Pipe Connection

Harmer Aluminium Shower Drain bodies have a nominal 56mm diameter spigot. They connect to lightweight cast iron, HDPE, PVC and Polypropylene pipe materials.



Connecting to 56mm (2") lightweight cast iron. Use Stainless Steel Harmer Duo Coupling.



Connecting to 56mm (2") ABS, HDPE, PVC-U or Polypropylene. Use proprietary compression coupling.



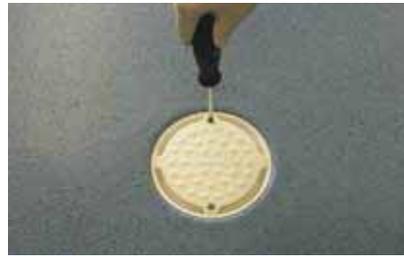
Connecting to 43mm (1 1/2") ABS or Polypropylene. Use proprietary reducing, compression coupling.



Connecting to 110mm HDPE/PVC-U (Vertical Drain Body only). Use ring seal pipe socket.

Drain Access

For tiled or flexible sheet flooring. The Harmer Shower Drain's removable trap is top accessible for ease of access and maintenance.



Remove 2 no. cap retaining screws. Do not remove clamp screws.



Lift aside Cap taking care not to lose screws. Do not remove Clamp.



Lift out Trap using cross bar and rinse thoroughly.



Wash internal surfaces with diluted disinfectant and soft sponge. Reverse process to re-assemble.

Care and Maintenance

The Harmer Shower Drain bodies are manufactured in corrosion resistant LM6 aluminium alloy with polyester powder coating to assist self-cleansing and smooth flow. A choice of Caps, Grates, Clamps and Tile Frames are manufactured in a variety of materials and finishes.

During site handling, installation and maintenance avoid damage to the coated surfaces. Any contamination arising from construction, such as concrete or cement, should be removed from surfaces using a soft cloth or sponge.

Cleaning solutions, such as those used to clean masonry and tiling must never be used with metals. If this happens, the acid solution must be diluted and rinsed away with clean water. When cleaning or wiping always use a soft cloth or sponge - do not use scourers or abrasive compounds.

Modern cleaning processes use sterilizers for hygiene purposes. Proprietary solutions, when used in accordance with the manufacturer's instructions, should be safe but if used incorrectly (e.g warm or concentrated), may cause discolouration or corrosion. NEVER USE BLEACH, CAUSTIC AGENTS OR SOLVENTS.

Cleaning Methods

Provide for the following items:

- Latex protective gloves
- Pozidrive screwdriver
- Bucket of clean water
- Sponge
- Household disinfectant

For polyester powder coated aluminium, mirror finish, stainless steel and nickel bronze caps, grates, clamps and tile frames, wash with soap or mild detergent applied with a clean sponge or soft clean cloth and rinse off with clean water.

Watermarks can be removed by lightly buffing with a soft clean cloth. For stainless steel, a soft-fibre brush may be used. NEVER USE STEEL WOOL.

Aluminium Shower Floor Outlets - Specification & Installation

Standard specification guidelines for the Harmer Aluminium Shower Drain are set out below. Full NBS format specifications (R11 Above-Ground Foul Drainage systems) are available for download from the Harmer Drainage website.

NBS Specification

Standards:

To BS EN 12056-1:2000 and BS EN 12056-2:2000, in accordance with BS EN 12056-2:2000 National Annexes NA-NG.

Harmer Shower Drain Products

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Aluminium Drain Bodies:

Horizontal Outlet or Vertical Outlet

Caps and Grates - Flexible Sheet Flooring

For use on a timber or suspended concrete floor, choose one of the following:

- White Polyester Powder Coated Aluminium - Pebble Cap
- Mirror Finish - Plain Cap
- Stainless Steel - Plain Cap; Concentric Ring Grate; Star Grate
- Nickel Bronze - Plain Cap; Concentric Ring Grate; Star Grate

Caps and Grates - Tiled Flooring

For use on a timber or suspended concrete floor, choose one of the following:

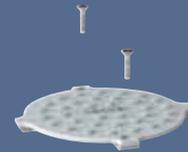
- 150 x 150mm or 200 x 200mm Tile Frame
- White Polyester Powder Coated Aluminium - Pebble Cap
- Mirror Finish - Plain Cap
- Stainless Steel - Plain Cap; Concentric Ring Grate; Star Grate; Anti-Ligature
- Nickel Bronze - Plain Cap; Concentric Ring Grate; Star Grate; Anti-Ligature

Installation

Installation notes for each component of the Harmer Aluminium Shower Drain are detailed below (not shown in the actual installation sequence that would be undertaken on site). Additional, explanatory isometric illustrations and sectional drawings are given on pages 136 to 139.

Caps/Grates

Fix into the tile frame or clamp using two stainless steel screws (provided).



Tile Frames

For tiled floor applications, bed the 150mm x 150mm or 200mm x 200mm tile frame into tile adhesive. Apply flexible sealant around edge to prevent cracking.



Clamp Ring

Fix using two M5 x 25mm stainless steel screws (provided) to secure flexible sheet flooring and undertile waterproofing membranes to the drain body.



Foul Air Trap

Push fit the trap with 50mm seal into the drain body. The cross bar allows easy removal.



Vertical Drain Body

Install into plywood flooring or concrete deck construction.

Fix through the 4 no. countersunk holes in the top flange of the body.



Horizontal Drain Body

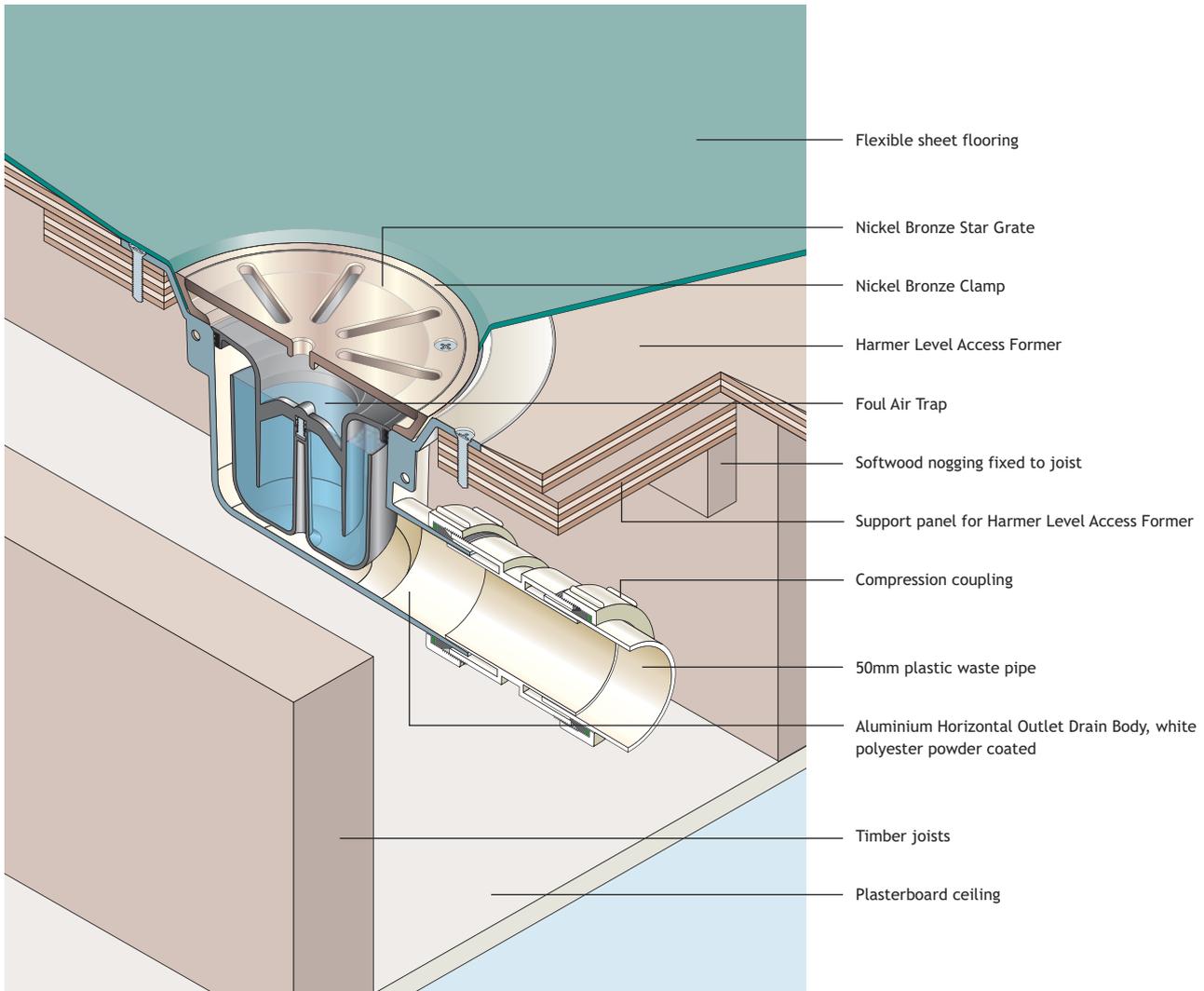
Install into concrete and joisted timber floor construction.

Fix through the 4 no. countersunk holes in the top flange of the body.



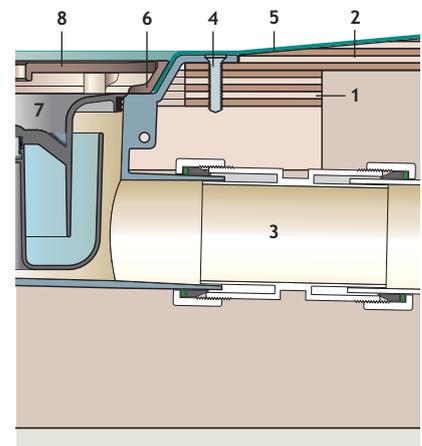
Aluminium Shower Floor Outlets - Application Details

Shower Drain with Horizontal Outlet in timber floor with flexible sheet flooring



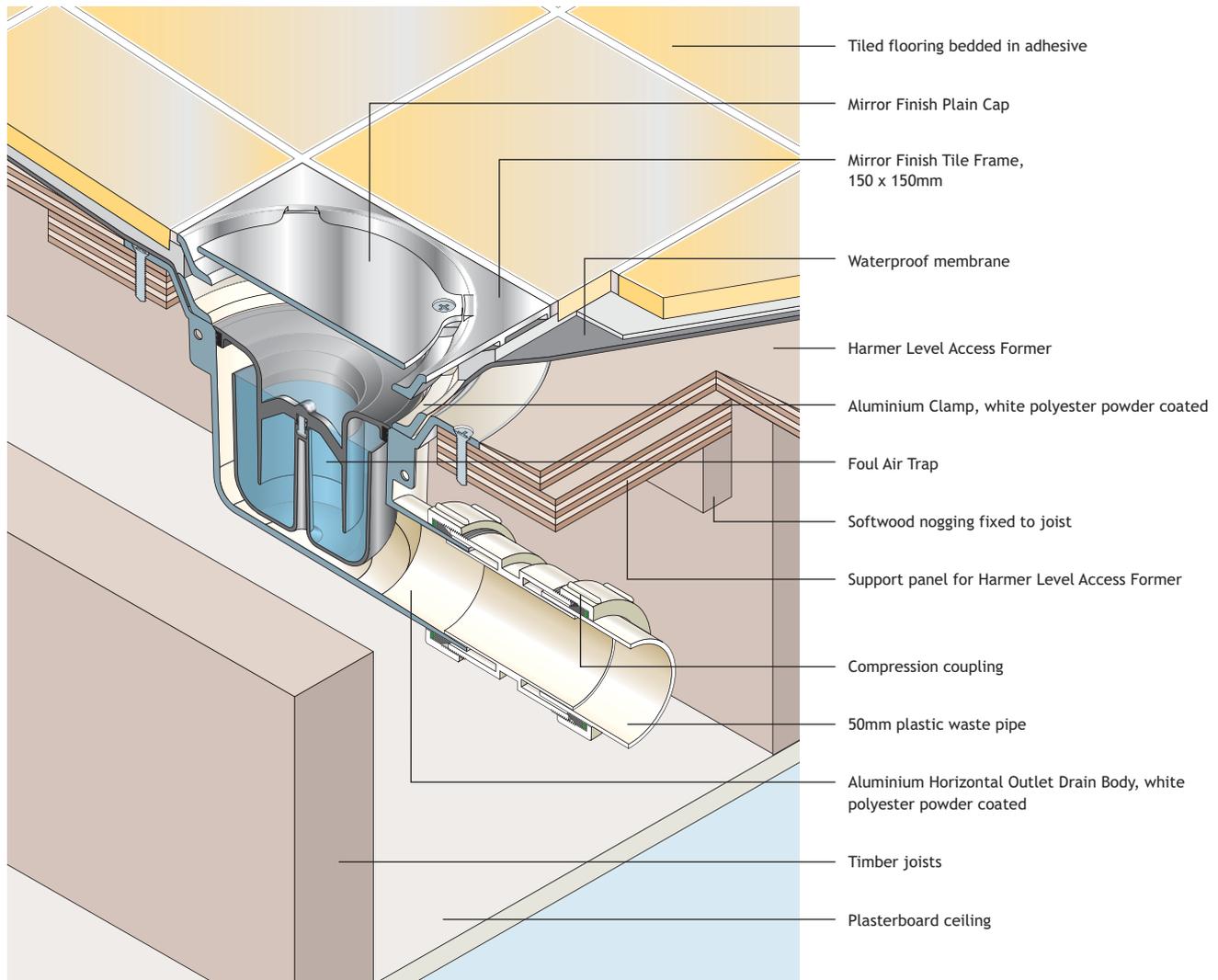
Sitework (using Harmer Level Access Former)

1. Fabricate 18mm (minimum) thick support panel (complete with hole for Drain Body) and softwood noggings, and fit flush with top of joists.
2. Fit Harmer Level Access Former (complete with integral falls and hole for Drain Body) over the ply support panel. Secure the Harmer Level Access Former to the joists using 50mm x No.8 countersunk screws at 225mm centres. Fill screw heads with filler flush to plywood surface.
Note: Harmer Level Access Former is available in various perimeter sizes and drain outlet positions to suit joist layout and site conditions.
3. Connect Drain Body to waste pipe using compression coupling.
4. Screw-fix Drain Body to Harmer Level Access Former using 25mm x No.8 countersunk screws. Then lay marine ply decking to remainder of floor, butting up to Harmer Level Access Former.
5. Lay the flexible sheet flooring and dress over and seal to rim of Drain Body. Trim flooring to edge of screw pockets (optimum hole diameter is 122mm).
Do not cut into protective Drain Body coating.
6. Screw Clamp firmly in position to secure sheet flooring.
7. Insert Foul Air Trap into Drain Body and prime.
8. Screw Star Grate onto Clamp.



Aluminium Shower Floor Outlets - Application Details

Shower Drain with Horizontal Outlet in timber floor with tiled flooring



Sitework (using Harmer Level Access Former)

1. Fabricate 18mm (minimum) thick support panel (complete with hole for Outlet Drain Body) and softwood noggings, and fit flush with top of joists.
2. Fit Harmer Level Access Former (complete with integral falls and hole for Drain Body) over the ply support panel. Secure the Harmer Level Access Former to the joists using 50mm x No.8 countersunk screws at 225mm centres. Fill screw heads with filler flush to plywood surface.
Note: Harmer Level Access Former is available in various perimeter sizes and drain outlet positions to suit joist layout and site conditions.
3. Connect Drain Body to waste pipe using compression coupling.
4. Screw-fix Drain Body to Harmer Level Access Former using 25mm x No.8 countersunk screws. Then lay marine ply decking to remainder of floor, butting up to Harmer Level Access Former.
5. Apply waterproof membrane to manufacturers' instructions. Dress membrane over and seal to rim of Drain Body. Trim to edge of screw pockets (optimum hole diameter is 122mm). **Do not cut into protective Drain Body coating.**
6. Screw Clamp firmly in position to secure waterproof membrane.
7. Bed the Tile Frame over the Drain Body to the required level, using tile adhesive.
8. Bed tiles with tile adhesive, working away from the Tile Frame.
9. Insert Foul Air Trap into Drain Body and prime.
10. Screw Plain Cap onto Tile Frame.
11. Apply flexible sealant between tile and edge of Tile Frame, then apply grout conventionally to remainder of tile joints.

