

Aluminium Floor Outlets - Materials Care, Maintenance, Installation & Specifying/Ordering

Maintenance

The bodies of Harmer Floor Drains have a smooth polyester coating which prevents adherence of foreign matter. During handling, installation and maintenance avoid chipping this protective coating.

The high quality Grates and Bezels are maintenance free but should be inspected periodically and cleared 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.

Should it be necessary to access the drain for maintenance or rodding purposes THE TRAP MUST FIRST BE REMOVED. The foul air trap is a factory assembled unit consisting of three parts and is located within the Grate assembly.

Equipment

- Phillips posidrive screwdriver.
- Latex rubber gloves.
- Paper towels.
- Bucket of warm disinfected water.

To Remove the Trap

- Put on protective latex gloves.
- Remove the two grate securing screws.
- Dry all surfaces.
- Remove the black funnel by pulling integral handle.

The Trap Cup unscrews from the funnel and both components should be cleaned in disinfected water.

Periodic Usage

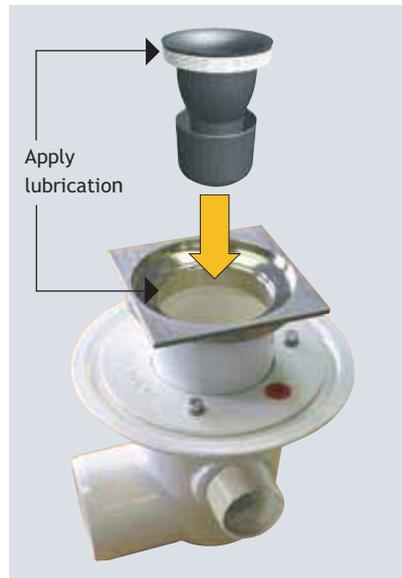
If drains are not used for long periods of time or only intermittently, it is recommended that a Solid Plate Cover be installed instead of the standard grate.

Security

Generally, grates are secured by two Phillips screws but special security fixing options are available from Alumasc. These screws can only be loosened by means of a special screwdriver attachment.

To Replace the Trap

- Apply silicone lubricant to the Funnel Seal.
- Apply silicone lubricant to the matching surface of the Bezel Throat.
- Push fit the Trap into the Bezel Throat.
- Replace the two grate securing screws.
- Reprime the Trap with clean water.
- Dispose of dirty water.
- **Now wash your hands.**



Installation

1. Offer drain body to the required position.
2. Align waste pipe and secure accordingly whilst maintaining the rim of the floor drain is set to the required finished slab level.
3. Lay concrete ground slab.
4. Lay DPM. Cut hole in membrane and clamp firmly to the floor drain with bolts as provided.
5. Lay insulation if required.
6. Remove dirt cover.
7. Slide the grate and bezel in position through "O" ring of clamp to the required FFL.
8. Install funnel trap inside bezel and cover with grating.
9. Lay screed to falls.
10. Lay floor tiles or vinyl depending on floor finished required.

Specifying/Ordering

Floor Drains in Showers

Item: Harmer Floor Drains

Floor Construction: Sheet vinyl over insulated solid ground floor slab.

Manufacturer:

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

Tel: 01744 648400, Fax: 01744 648401.

Email: info@alumasc-exteriors.co.uk

Web: www.harmerdrainage.co.uk

Reference: Harmer Floor Drains

Body type/material: Vertical spigot with side inlets manufactured from LM6 grade aluminium ref: BVS100/A

Grate finish/material: Satin finish stainless steel complete with Trap Assembly ref: VCA20/SS/B/T

Floor Drains in Changing Rooms

Item: Harmer Floor Drains

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.

Tel: 01744 648400, Fax: 01744 648401.

Email: info@alumasc-exteriors.co.uk

Web: www.harmerdrainage.co.uk

Reference: Harmer Floor Drains

Body type/material: Horizontal spigot with side inlets manufactured from LM6 grade aluminium ref: BHS100/A

Grate finish/material: Machine finish nickel bronze complete with Trap Assembly ref: TCA15/NB/B/T

Aluminium Floor Outlets - NBS Specification

A typical NBS Specification for Harmer Aluminium Floor Outlets. A full range of NBS specifications and floor drainage calculators are available via the Harmer online NBS Specification Builder at www.harmerdrainage.co.uk. For project specific specification advice, contact Harmer Technical Services.

NBSPlus

R11 Above Ground Foul Drainage Systems

To be read with Preliminaries/General Conditions

GENERAL

- 115 ABOVE GROUND FOUL DRAINAGE SYSTEMS
- Sanitary and floor drainage outlets: As per detail sections below
 - Waste pipework: As per detail sections below
 - Discharge stack and branch pipework: As per detail sections below
 - Separate ventilating pipework: As per detail sections below
 - Accessories: As per detail sections below
 - Disposal: As per detail sections below

SYSTEM PERFORMANCE

- 210 DESIGN
- Complete the design of the above ground foul drainage system
 - Standard: To BS EN 12056-1:2000 and BS EN 12056-2:2000, and in accordance with BS EN 12056-2:2000, National Annexes NA-NG
 - Proposals: Submit drawings, technical information, calculations and manufacture's literature
- 220 COLLECTION AND DISTRIBUTION OF FOUL WATER
- General: Complete, and without leakage or noise nuisance
- 230 DESIGN PARAMETERS - GENERAL
- Quick, quiet and complete, self-cleansing in normal use, without blockage, cross-flow, back-fall, leakage, odours, noise nuisance or risk to health
 - Pressure fluctuations in pipework (maximum): ± 38 mm water gauge
 - Water seal retained in traps (minimum): 25mm

PRODUCTS

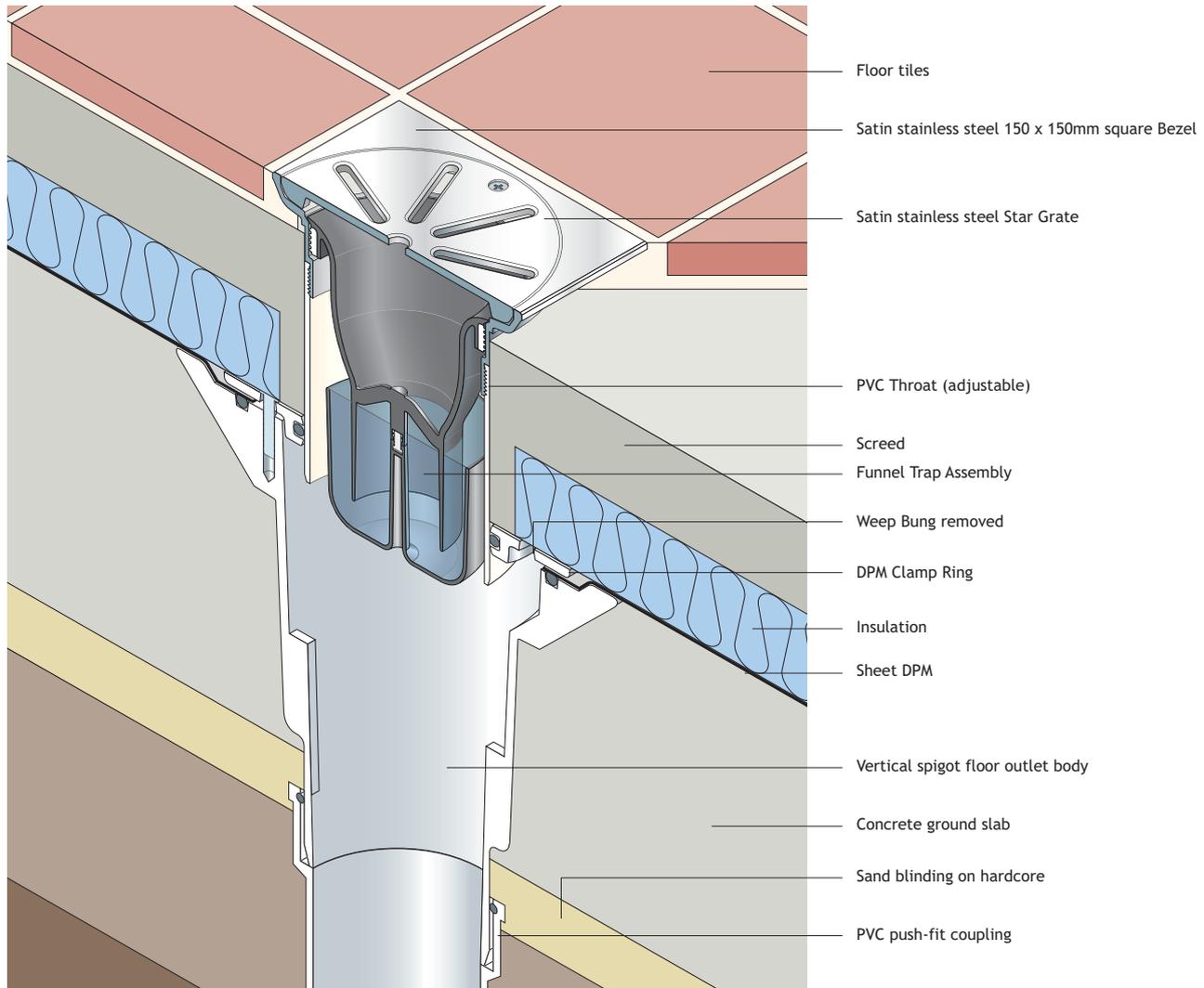
- 310 HARMER FLOOR DRAINAGE
- Floor Finish: Sheet Vinyl/Tile/Resin/Concrete
Manufacturer: Alumasc Exterior Building Products Ltd,
White House Works, Bold Road, Sutton, St Helens, Merseyside WA9 4JG
Tel: 01744 648400, Fax: 01744 648401.
Email: harmer@alumasc-exteriors.co.uk
- Reference: Harmer Aluminium Floor Drain
- Material: LM6 Grade Aluminium
- Outlet Type: Vertical/Horizontal
Spigot
Trapped/Un-Trapped
With Inlet/Without Inlet
- Grate/Bezel Assembly: 150/200mm Dia
150 x 150/200 x 200mm
Trapped/Un-trapped
Vinyl Clamp
- Grate Type: Plain Cap/Star/Concentric Ring/Compact Ring/Anti-Ligature/
Solid Plate/Square/Quattro
- Grate Material: Machined Nickel Bronze/Satin Stainless Steel
- Product Code: Refer to tables
- Accessories: Foul Air Trap/Pipe Adaptor



Create Harmer Drainage NBS specifications by selecting the required product range, profile, size and finish by visiting: www.harmerdrainage.co.uk

Aluminium Floor Outlets - Application Details

Trapped Vertical Floor Outlet Body (BVS100) with TSA15/SS/B/T trapped grating assembly in insulated tiled ground floor with sheet DPM



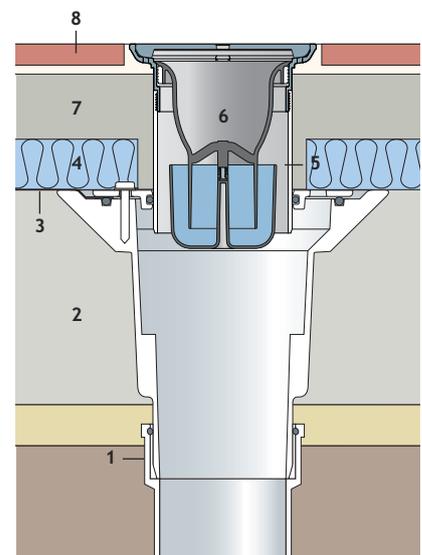
Sitework

1. Connect the floor drain body to pipework. Secure the pipework in position so that the rim of the floor drain body will be level with the finished slab.
2. Lay concrete ground slab.
3. Lay the DPM. Cut a hole in the membrane and clamp firmly to the floor drain body by bolting the DPM Clamp Ring in position.
4. Lay the insulation.
5. Remove the Dirt Cover and push the sliding Throat of the Grate and Bezel Assembly into the DPM Clamp Ring. Adjust for height by sliding up or down against the Throat Seal so that height of Grate above the DPM is equal to the minimum screed thickness.
6. Connect the Funnel Trap Assembly. Push the assembly into the Throat. Connect Grate to Bezel.
7. Lay screed to falls.
8. Lay floor tiles and make any required further fine adjustment to Grate prior to grouting.

Weep Bung

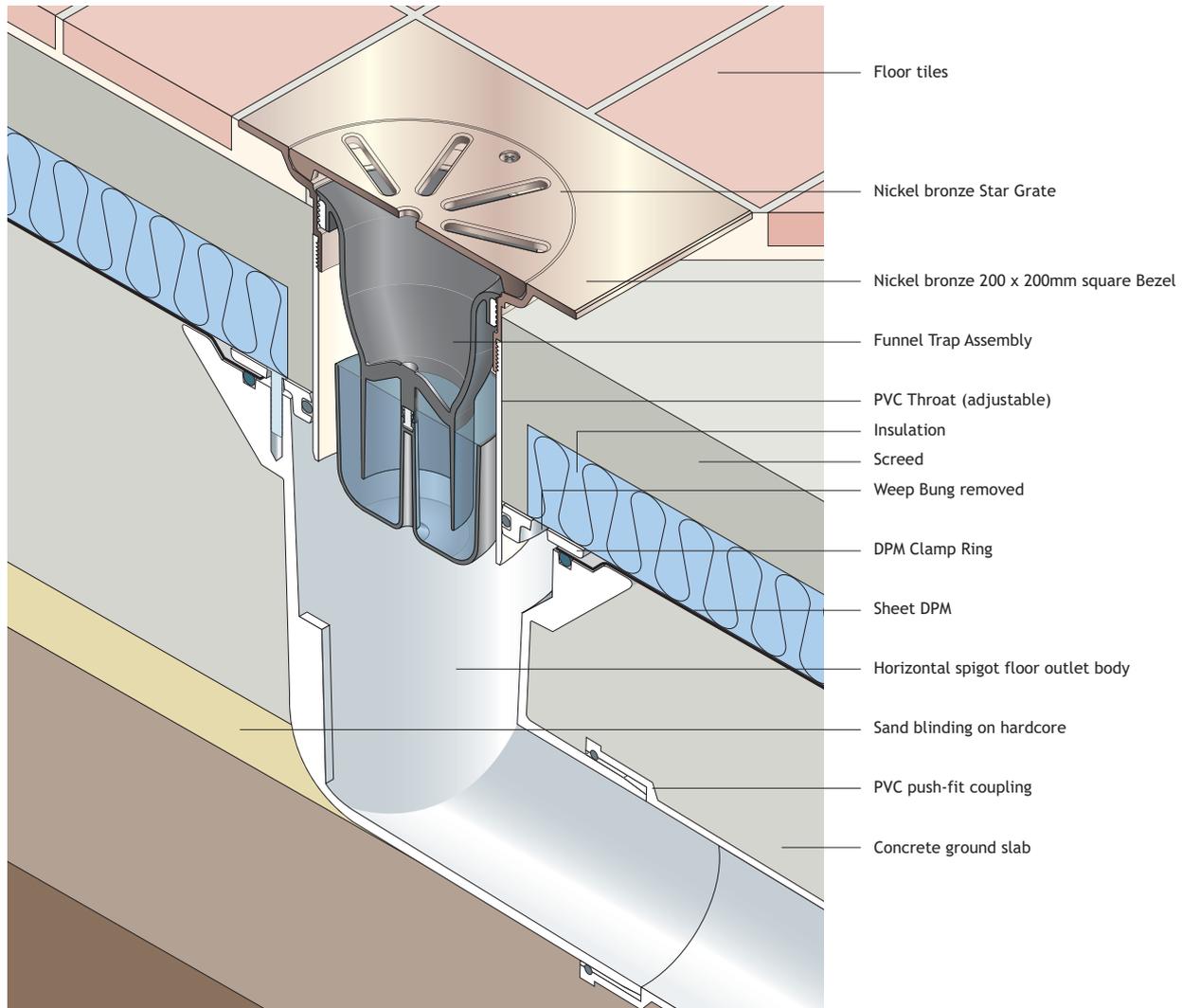
The DPM Clamp Ring has a red Weep Bung to relieve the build-up of vapour pressure where appropriate.

- For tiled floor finish applications, the Weep Bung should be removed.
- For sheet vinyl floor finish applications, the Weep Bung should be left in.
- Pressure test drains before installation.



Aluminium Floor Outlets - Application Details

Trapped Horizontal Floor Outlet Body (BHS100) with TSA20/NB/B/T trapped grating assembly in insulated tiled ground floor with sheet DPM



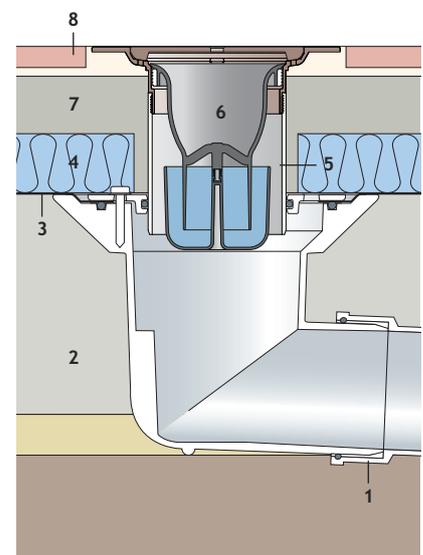
Sitework

1. Connect the floor drain body to pipework. Secure the pipework in position so that the rim of the floor drain body will be level with the finished slab.
2. Lay concrete ground slab.
3. Lay the DPM. Cut a hole in the membrane and clamp firmly to the floor drain body by bolting the DPM Clamp Ring in position.
4. Lay the insulation.
5. Remove the Dirt Cover and push the sliding Throat of the Grate and Bezel Assembly into the DPM Clamp Ring. Adjust for height by sliding up or down against the Throat Seal, so that height of Grate above the DPM is equal to the minimum screed thickness.
6. Connect the Funnel Trap Assembly. Push the assembly into the Throat. Connect Grate to Bezel.
7. Lay screed to falls.
8. Lay floor tiles and make any required further fine adjustment to Grate prior to grouting.

Weep Bung

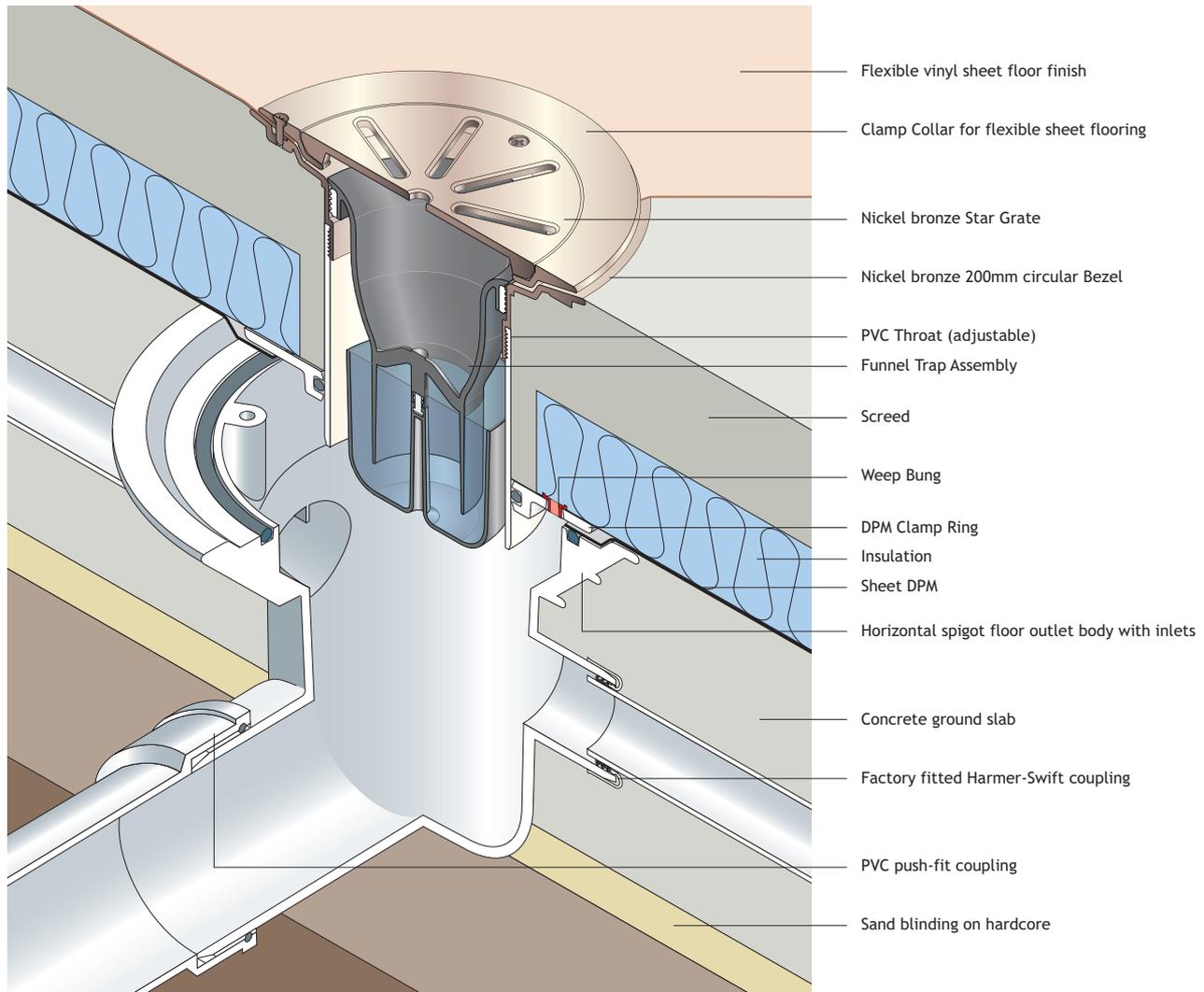
The DPM Clamp Ring has a red Weep Bung to relieve the build-up of vapour pressure where appropriate.

- For tiled floor finish applications, the Weep Bung should be removed.
- For sheet vinyl floor finish applications, the Weep Bung should be left in.
- Pressure test drains before installation.



Aluminium Floor Outlets - Application Details

Trapped Horizontal Floor Outlet Body with Inlets (BHS100A) with VSA20/NB/B/T trapped grating assembly in insulated vinyl covered ground floor with sheet DPM



Sitework

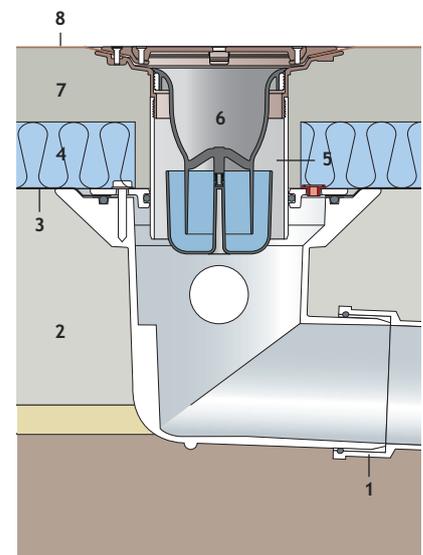
1. Connect the floor drain body to pipework. Secure the pipework in position so that the rim of the floor drain body will be level with the finished slab.
2. Lay concrete ground slab.
3. Lay the DPM. Cut a hole in the membrane and clamp firmly to the floor drain body by bolting the DPM Clamp Ring in position.
4. Lay the insulation.
5. Remove the Dirt Cover and push the sliding Throat of the Grate and Bezel Assembly into the DPM Clamp Ring. Adjust for height by sliding up or down against the Throat Seal, so that height of Grate above the DPM is equal to the minimum screed thickness.
6. Connect the Funnel Trap Assembly. Push the assembly into the Throat. Connect Grate to Bezel.

7. Lay screed to falls.
8. Lay the flexible sheet flooring and screw the Clamp Collar into position to secure the sheet flooring firmly against the Bezel.

Weep Bung

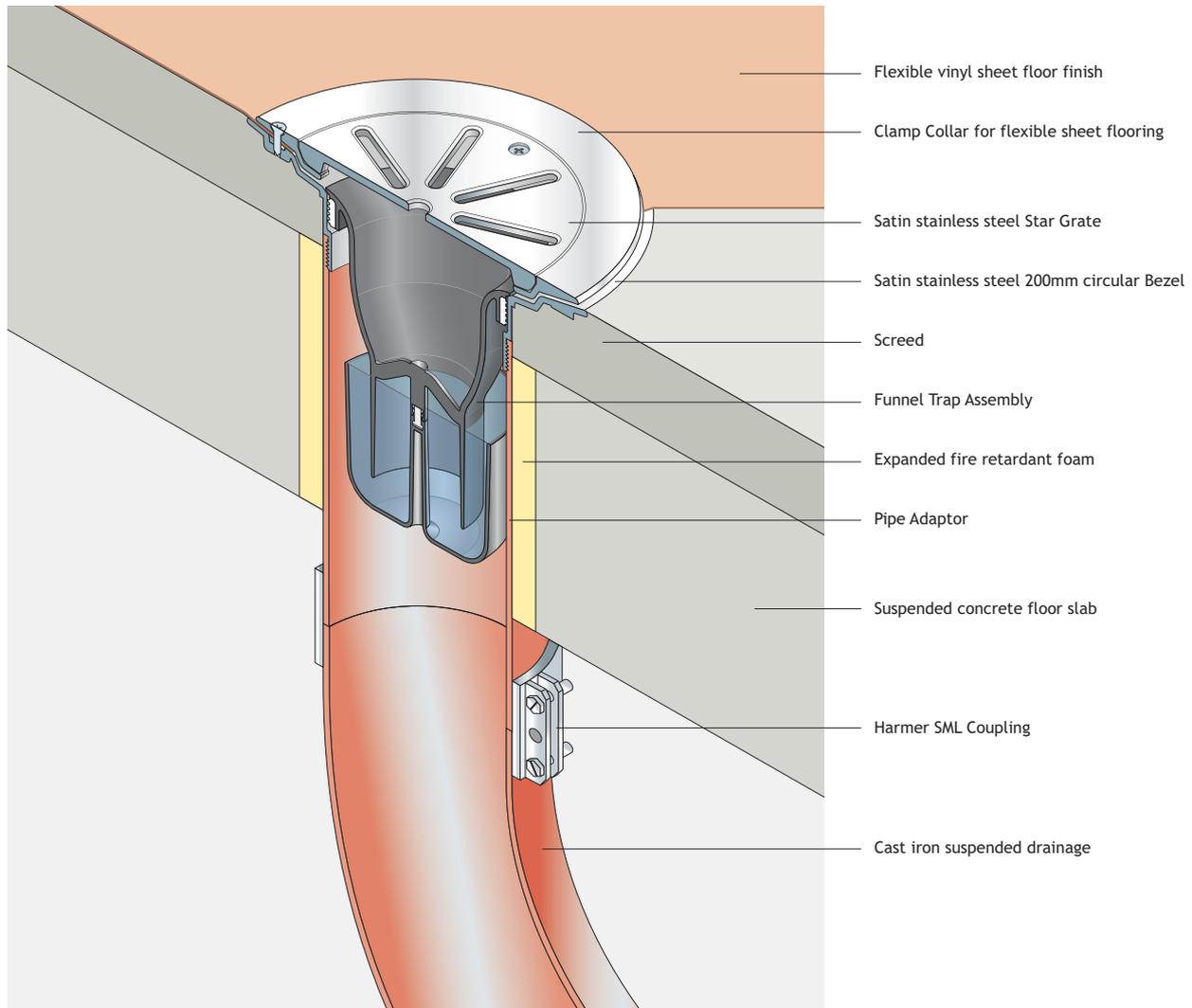
The DPM Clamp Ring has a red Weep Bung to relieve the build-up of vapour pressure where appropriate.

- For tiled floor finish applications, the Weep Bung should be removed.
- For sheet vinyl floor finish applications, the Weep Bung should be left in.
- Pressure test drains before installation.



Aluminium Floor Outlets - Application Details

Floor Outlet with cast iron Pipe Adaptor (ADP100/SML) and VSA20/SS/B/T trapped grating assembly in vinyl covered suspended floor



Sitework

1. Erect suspended floor slab and form hole to receive drainage.
2. Connect Bezel to Pipe Adaptor, locate assembly in hole, and temporarily support so that height of Grate above slab is equal to the minimum screed thickness.
3. Connect Pipe Adaptor to pipework with Harmer SML Coupling.
4. Fill space between Pipe Adaptor and concrete with expanded fire retardant foam.
5. Connect the Funnel Trap Assembly. Push the assembly into the Pipe Adaptor. Connect Grate to Bezel.
6. Lay screed to falls.
7. Lay the flexible sheet flooring and screw the Clamp Collar into position to secure the sheet flooring firmly against the Bezel.

