



Linear Screed Floor / Wall Drain

INSTALLATION GUIDE



CCL
WETROOMS

LINEAR SCREED FLOOR / WALL DRAIN INSTALLATION GUIDE



I. USES

The Linear Screed Floor / Wall Drain has been developed specifically for screeded floors.

The drain incorporates a unique waterless trap which has a Lifetime Guarantee and has been granted BBA approval.

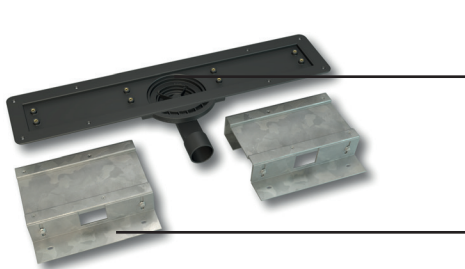
The key feature of the Linear Screed Floor / Wall Drain is its height - the minimum height from the base to the top of the trough being only 55mm making it perfect for today's modern construction methods.

Key Features

- Minimum height 55mm including trap
- BBA approved
- Lifetime Guarantee
- 360° rotatable waste position
- Waterless trap
- Flow rate up to 29 L/min single trap, 56 L/min double trap, 70 L/min triple trap
- Height adjustable drain body
- Height adjustable grill
- Easy to clean and replace trap

2. ELEMENTS

The Linear Screed Floor / Wall Drain consists of the following:



Drain Body

Number of Traps

- Single Trap - Flow rate up to 29 L/min
- Double Trap - Flow rate up to 56 L/min
- Triple Trap - Flow rates up to 70 L/min

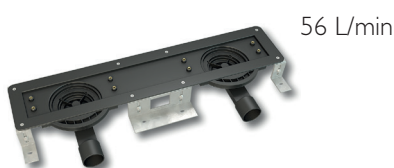
Bracket Type

- Standard Height - Adjustment 55mm - 88mm
- Extra Shallow Height - Adjustment 38mm-57mm [‡]

[‡] Extension brackets are available for floor depths above 88mm



29 L/min



56 L/min



70 L/min



Grill

Grill Type - Wall or Floor

- Floor Grill - For installation off the wall
- Wall Grill - Positioned neatly up against the wall

Grill Length

- 15 Standard lengths
- Bespoke lengths from 600mm - 2000mm
- **FAST TRACK** Bespoke service - delivered in 3 - 4 days

Grill Length

- 5 Stylish grill finishes

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3. APPLICATION - A STEP BY STEP GUIDE

Drain positioned against the wall (use Wall Grill)

- 1 Set aside the stainless steel grill & frame for later use.

Consider the position of the drain within the floor and mark accordingly - see page 9 for typical layouts and fig i below.

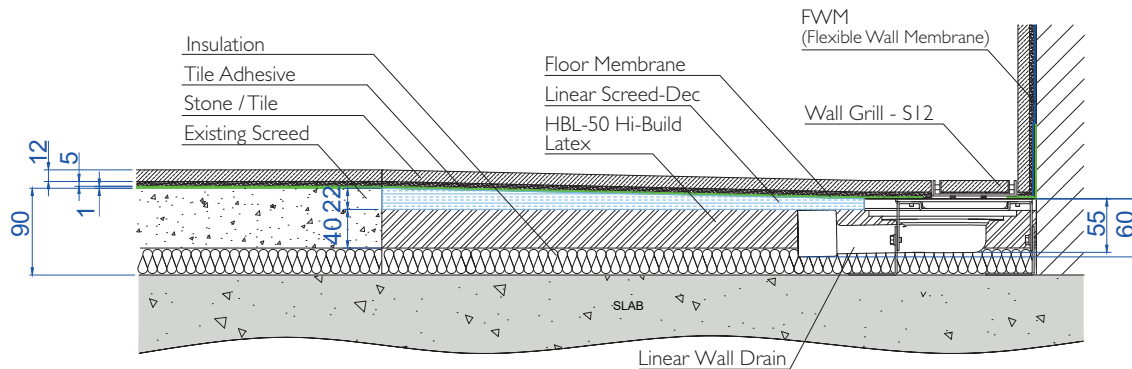


fig i

- 2 Adjust the rotatable outlet to the required position - fig ii.

NOTE: The drain is fitted with a temporary Installation Support Plate. This is for use only during the installation and should be **REMOVED & REPLACED WITH THE RELEVANT GRILL PRIOR TO TILING.**

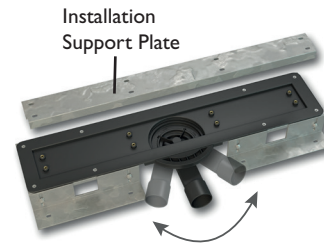


fig ii

- 3 When the drain is in the correct position, secure the brackets to the sub-floor with appropriate fixings. Use the additional Wall Bracket Clamps to secure the rear brackets - fig iii & iv.

- 4 Loosen the 6 bolts and set the height of the drain approximately 12mm lower than the height of the existing screed level, to allow for the gradient within the shower. The gradient can be formed using CCL Wetrooms HBL-50/Linear Screed-Dec - see fig vi below and pages 5-6.

Alternatively the gradient can be formed using screed, laid to a 12mm fall towards the drain - see page 7.

NOTE: The Installation Support Plate has been designed to assist installers in forming the 12mm fall. See drawing below - fig v.

Once the height is set, tighten the 6 bolts, ensuring that the drain is set level from left to right and back to front - fig vi.

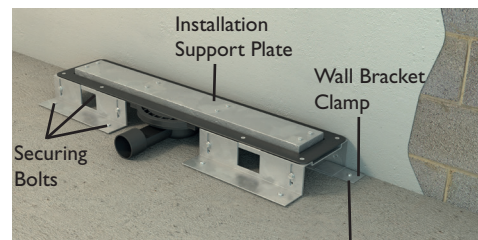


fig iii

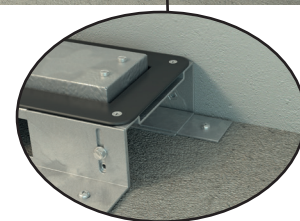


fig iv

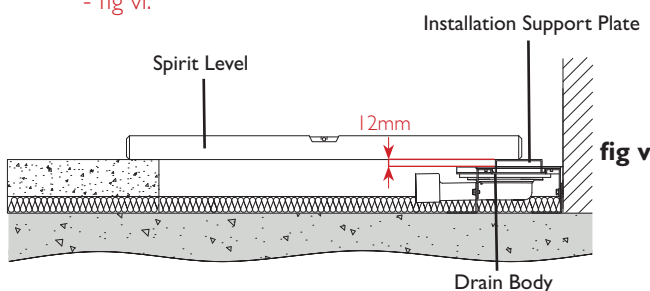


fig v



fig vi



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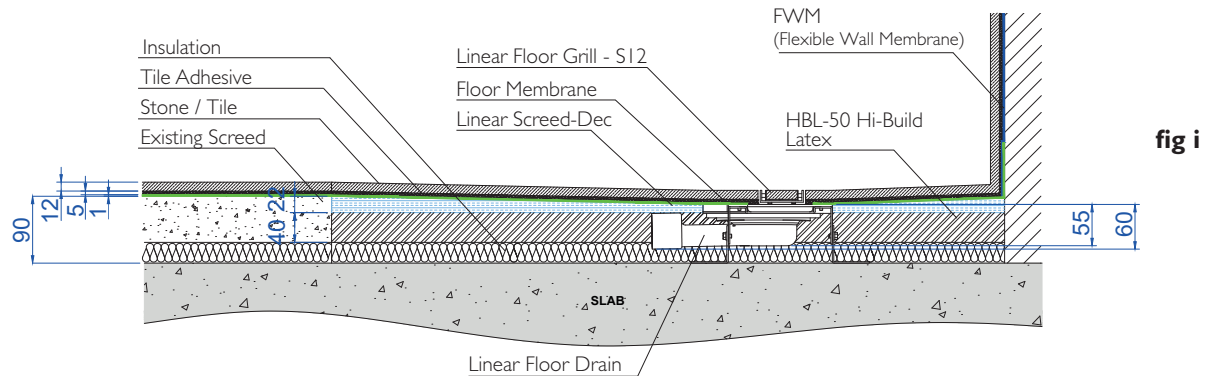
3. APPLICATION - A STEP BY STEP GUIDE

Drain positioned off the wall (use Floor Grill)

1

Set aside the stainless steel grill & frame for later use.

Consider the position of the drain within the floor and mark accordingly - see page 9 for typical layouts and fig i below.



2

Adjust the rotatable outlet to the required position - fig ii.

NOTE: The drain is fitted with a temporary Installation Support Plate. This is for use only during the installation and should be **REMOVED & REPLACED WITH THE RELEVANT GRILL PRIOR TO TILING.**

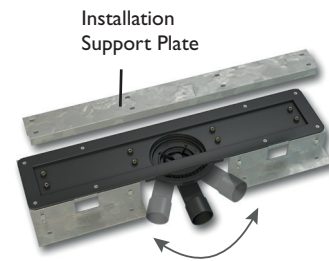


fig ii

3

When the drain is in the correct position, secure the brackets to the sub-floor with appropriate fixings.

4

Loosen the 8 bolts and set the height of the drain approximately 12mm lower than the height of the existing screed level, to allow for the gradient within the shower. The gradient can be formed using CCL Wetrooms HBL-50/Linear Screed-Dec - see fig vi below and pages 5-6.

Alternatively the gradient can be formed using screed, laid to a 12mm fall towards the drain - see page 7.

NOTE: The Installation Support Plate has been designed to assist installers in forming the 12mm fall. See drawing below - fig v.

Once the height is set, tighten the 8 bolts, ensuring that the drain is set level from left to right and back to front - fig vi.

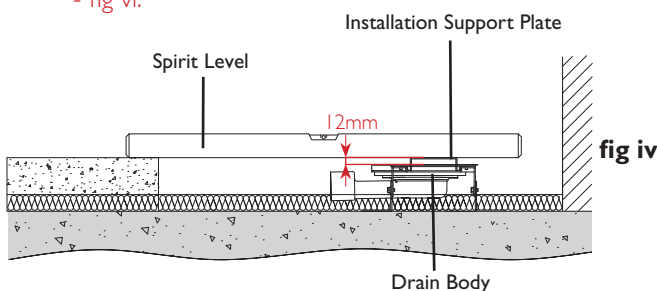


fig iv

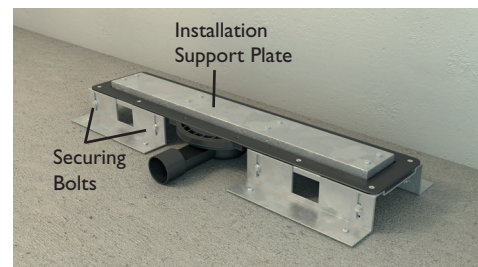


fig iii



fig v



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HBL-50 WETROOM LEVELLING COMPOUND & LINEAR SCREED-DEC (OPTION 1)

5

Connect the trap(s) to the waste pipe using the solvent weld method.
Ensure the Installation Support Plate remains in place to prevent debris from entering the trap.

Where insulation is used below the HBL-50 levelling compound, ensure it is mechanically fixed down to prevent it from floating. Use relevant fixings - fig vi

NOTE: Strap & pack the waste pipe to maintain the correct drainage fall as per the below image - fig vii

fig vi

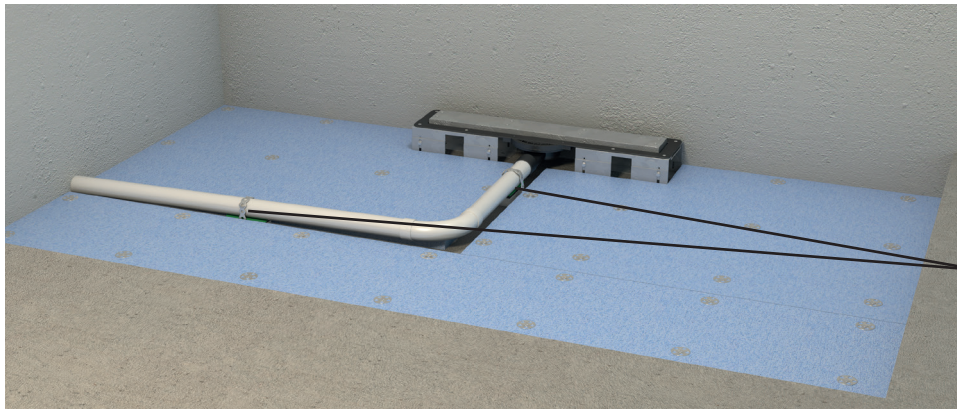
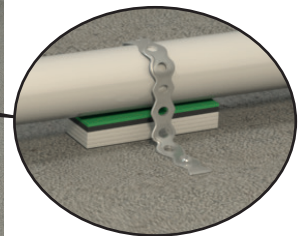


fig vii



6

The latex can now be poured within the shower area to the required depth of 22mm lower than the finished floor level as per fig viii, to allow the Linear Screed-Dec to be positioned correctly.

NOTE: The latex should be poured to a minimum of 30mm and a maximum of 50mm thick. Clearly mark the outline of the waste pipe run to ensure you don't pierce it when fixing your Linear Screed-Dec into position with fixings - fig ix

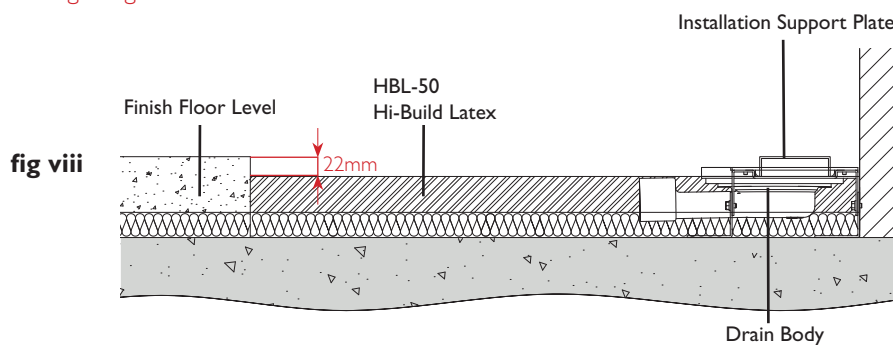
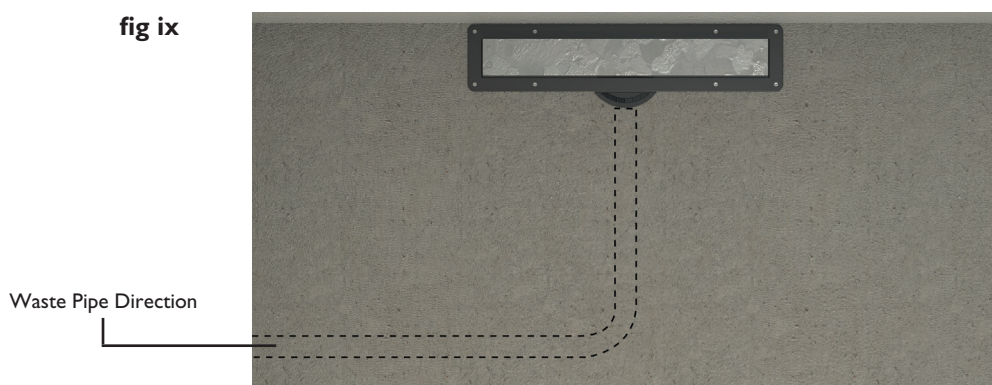


fig ix



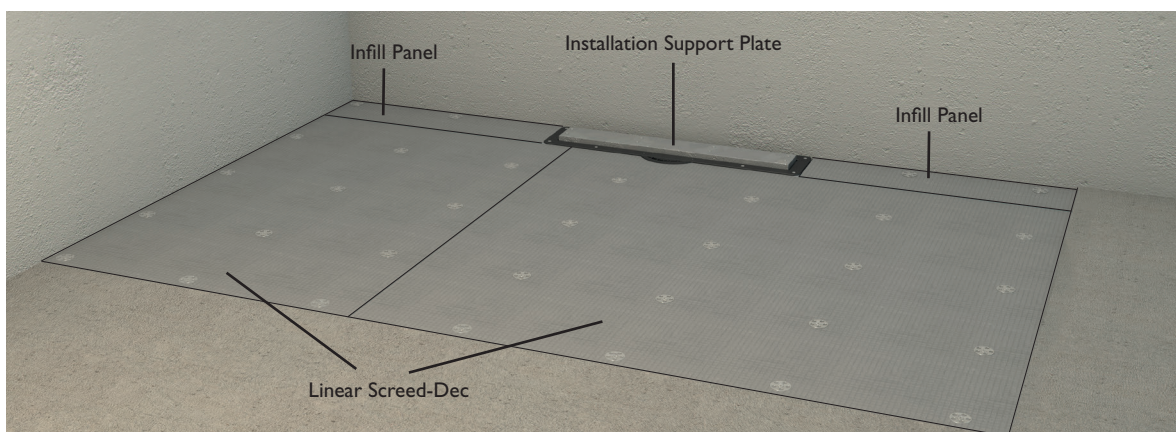
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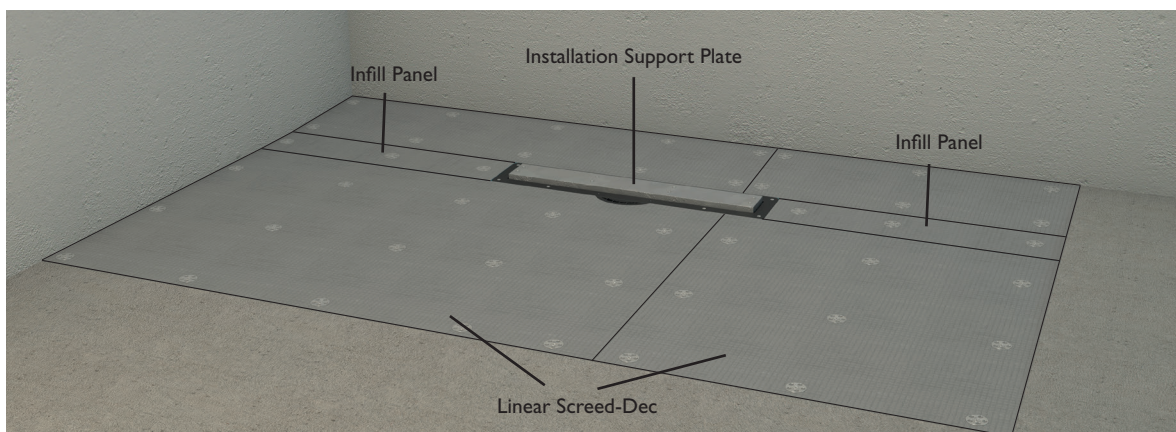
HBL-50 WETROOM LEVELLING COMPOUND & LINEAR SCREED-DEC (OPTION 1)

- 7** Once the HBL-50 latex is dry (24 hours), the area is now ready for the Linear Screed-Dec to be installed. Cut & install Infill Panels - fig x or xi (depending on drain position). Cut & install Linear Screed-Dec to size & secure with relevant fixings & washers every 300mm, ensuring not to pierce your waste pipe as per fig ix on page 5

Drain positioned against the Wall - fig x

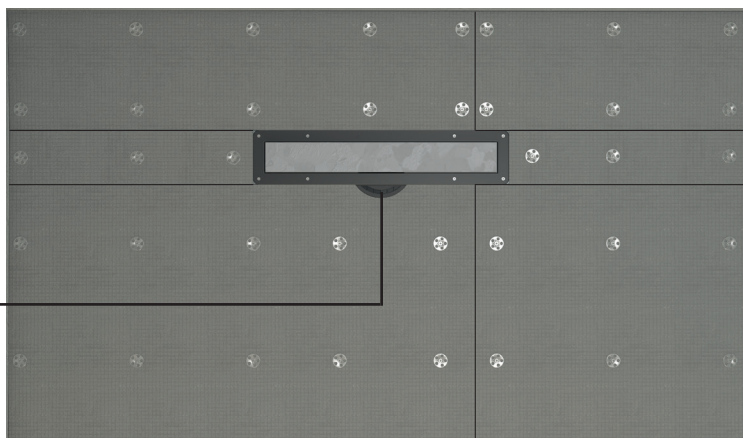


Drain positioned off the Wall - fig xi



NOTE: Mark profile of the semi-circle perturbation onto the Linear Screed-Dec and carefully cut to size.

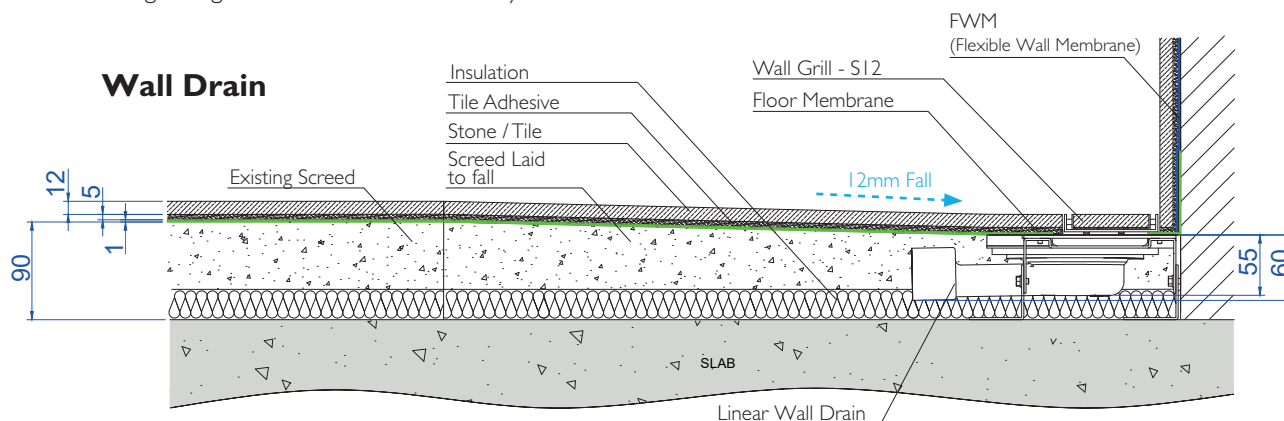
Semi-circle perturbation



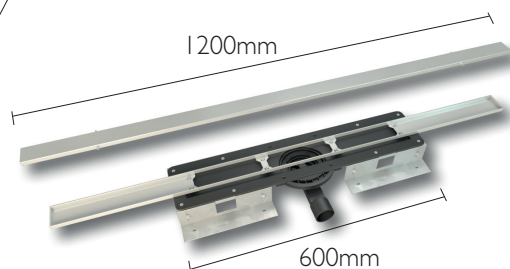
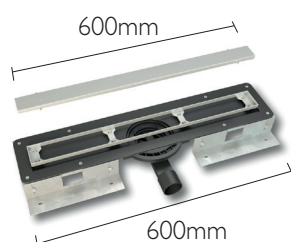
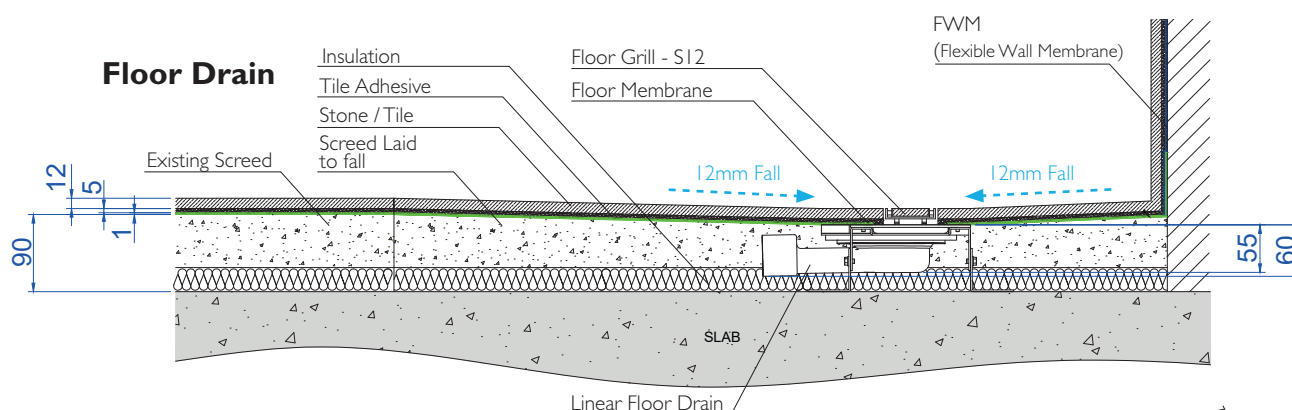
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SCREED LAID TO FALL (OPTION 2)

- 8a** **NOTE:** Follow steps on page 3 for the Drain positioning and steps on page 5 for the waste pipe fall
- Install insulation as per fig vi (no requirement for mechanically fixing) then lay the screed to fall and use a straight edged item to create a one way fall.



- 8b** **NOTE:** Follow steps on page 4 for the Drain positioning and steps on page 5 for the waste pipe fall
- Install insulation as per fig vi (no requirement for mechanically fixing) then lay the screed to fall and use a straight edged item to create a two way fall.



- 9** Remember to clean the trough with the alcohol wipe supplied, prior to installing the floor membrane / wall membrane.

NOTE: For full details see separate installation instructions.

After the Floor / Wall membrane has been installed, fit the relevant Floor or Wall Grill and adjust as necessary, following separate instructions supplied.

For Grill lengths over 600mm - ensure the solid ends of the frame are fully supported with tile adhesive. If the overhanging frame is not supported it may distort and need to be replaced.

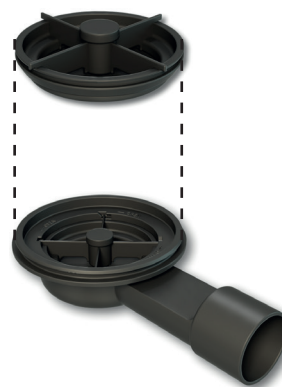
Tiling - Always tile using a water resistant S1 or C2 cementitious tile adhesive, meeting the requirements of BS EN 12004. Tile grout should be water resistant, meeting the requirements of BS EN 13888.





4. IMPORTANT NOTES

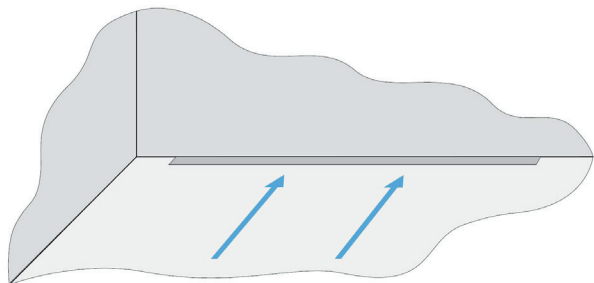
- Ensure that the HBL-50 latex / screed is packed under and around the drain body taking care that there are no voids and that the drain is fully supported.
- Always use the alcohol cleaning wipe to de-grease and clean the drain body prior to the installation of the membrane.
- Ensure that the flow rate of the shower does not exceed 29 L/min for the single trap, 56 L/min for the double trap drain or 70 L/min for the triple trap.
- Ensure all waste pipes run independently to the S.V.P. not shared with other services.
- The waterproof membrane should cover the entire shower area and a minimum of one metre beyond in either direction.
- Ensure the correct length bolts are used to secure the stainless steel frame to the drain body. Only use the longer bolts when using the larger spacing washers.
- Do not over tighten the fixing bolts as this may damage the trough.
- The waterless trap can be removed by twisting, then carefully lifting it out of the drain body.
- When replacing the valve, make sure the lugs align with the corresponding slots, then twist in a clockwise motion to re-seat it correctly back into the drain body.
- Always tile using a water resistant S1 or C2 cementitious tile adhesive, meeting the requirements of BS EN 12004. Tile grout should be water resistant, meeting the requirements of BS EN 13888.
- Tiles in wetrooms should be fixed using the solid bed method, i.e. ensuring that there are no voids beneath the tiles.



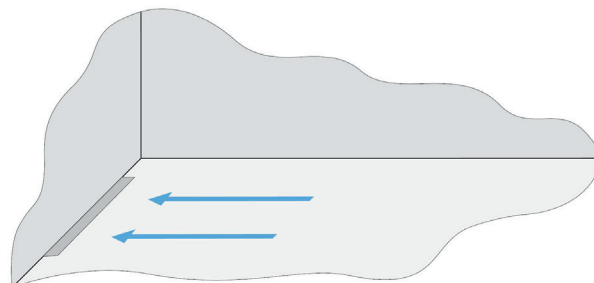
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5. LAYOUTS

ONE WAY GRADIENT - Use Wall Grill

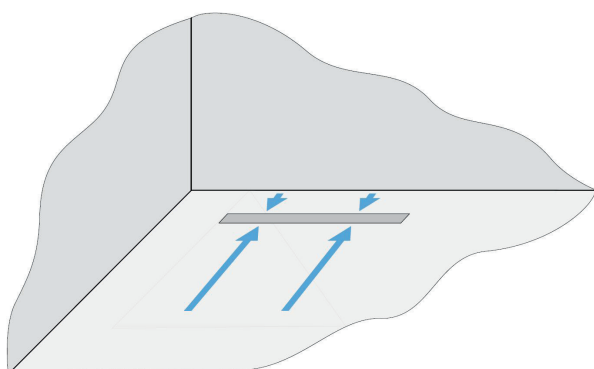


Drain positioned against the long wall

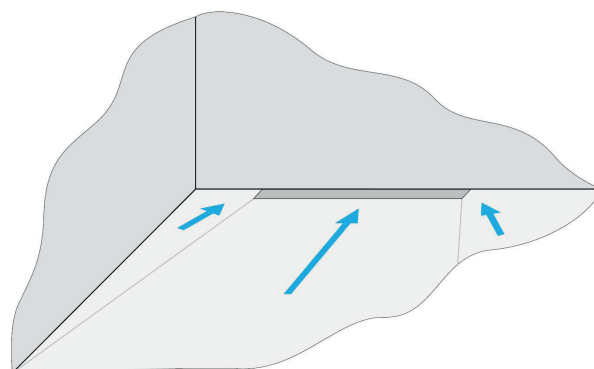


Drain positioned against the short wall

TWO WAY GRADIENT - Use Floor Grill



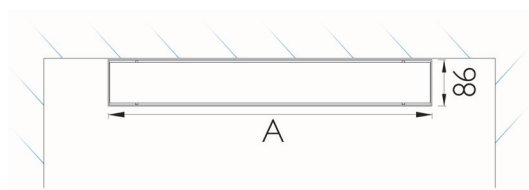
THREE WAY GRADIENT - Use Wall Grill



WALL GRILL

The Wall Grill is positioned neatly up against the wall, to create a one-way fall within the shower.

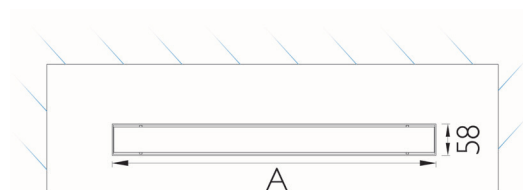
Grill width 86mm.



FLOOR GRILL

The centre point of the Floor Grill is typically positioned 150mm from the wall, to create a two-way fall within the shower.

Grill width 58mm.



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