Drexus Driveline Drain

Installation Guidelines



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1. Excavation

- a. Sufficient material should be excavated to accommodate the drainage channel, ancillaries, concrete bedding and haunching.
- **b.** Any 'soft spots' or poorly compacted formation should be made good.

2. Setting Out

- **a.** The top of the Drexus Driveline Drain channel should be 5mm below the finished pavement surface.
- **b.** Setting out pins should be accurately located with a string line level and the upper edge of the channel set to the desired long fall.
- c. The line should be located to the rear of the channel to avoid having to lift the channel over the string line.
- **d.** The top of the Drexus Driveline Drain channel may be installed flush with the finished surface level of the adjacent pavement on Pedestrian (Class A15) applications only.

3. Outfalls general

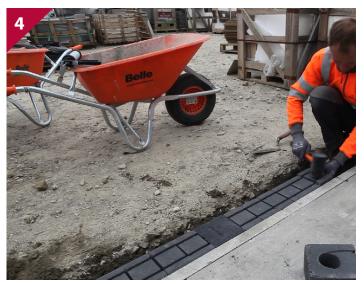
- a. Starting at the downstream end, outfalls should be installed first. Consideration should be given to the installation of the outlet pipe and if water is required to outfall through the base of the unit, the outlet pipe may need to be installed first.
- **b.** Sufficient material should be excavated to accommodate the outfall units and the outfall shall be bedded on concrete or mortar as per the standard detail.
- c. The outlet pipe shall be connected to the outfall chamber and cast into the concrete surround to form concrete 'collar' and a watertight seal.
- **d.** The top of the outfall unit should be 5mm below the finished pavement surface, but may be installed flush to the adjacent pavement for (Class A15) Pedestrian applications.

4. Installation

- a. Working away from the outfall chamber i.e., uphill; lay a bedding concrete of the appropriate thickness and depth as shown on typical installation drawings.
- b. Channels shall be laid onto the freshly mixed bedding concrete and the channel ends should abut together as tightly as possible to minimise the joint. Alternatively, the channels may be bedded on to a layer of 10 to 40mm cement mortar (M12 mortar to BS EN 998-2) on a previously prepared concrete foundation.







Guidelines continued overleaf...

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Installation Guidelines Continued...

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- c. The blocks are laid one at a time and tapped in to place with a soft face mallet or similar, using the string line as a guide and a small spirit level can be used to adjust the level across the channel block.
- d. Changes in direction should be made at preformed junction access points, but where cutting is necessary, channels shall be cut so that no single unit is less than 100mm in length or cut in half on the diagonal from corner to corner. The units should be secured with a mechanical jaw mechanism and cut with an abrasive wheel (concrete saw or disc cutter) in accordance with manufacturer's instructions.
- e. All channels should terminate in an access or rodding box. The access shall be installed as per above and the last channel block shall be cut to suit the required channel length.
- f. Should the cut channel be less than the recommended length, the 'make up' length shall be achieved using multiple cut channel blocks. These may be spread evenly on the approach to the termination point.

5. Channel Joint Sealant

- a. To maintain a small joint, a thin coat of M-Fix approx 20mm wide and 2mm thick or 3mm bead of M Flex sealant should be applied to the joint face of one block.
- **b.** This is then placed next to the previously installed channel block as described above.
- c. In both situations the sealant shall be place centrally between the outside edge and internal channel orifice and shall extend as a minimum 10mm above the top of the channel orifice.
- **d.** Any surplus sealant shall be removed from the inner surface of the channel units as work proceeds.
- e. The inlet from the channel in to an outfall/rodding shall be formed using the same techniques.

6. Drexus Driveline Drain End Caps

- **a.** Where the Drexus Driveline Drain run does not terminate at an outfall, the base unit shall be sealed using the correct sized Drexus Driveline Drain End Cap.
- **b.** The End Cap shall be sealed as detailed above and securely placed against the vertical end of the base unit and haunched with concrete. Channels which do not terminate in an access point may be difficult to cleanse or maintain.





In accordance with the Health and Safety at Work etc Act 1974, the Manual Handling Operation Regulations 1992 (as amended 2004) and the Construction (Design and Management) Regulations 2007, risk assessments should be carried out to protect workers from risks associated with musculoskeletal disorders and work related upper limb disorders.

This may require the use of lifting aids to assist installation.