



Established 1906

WT KNOWLES & SONS LIMITED

Dished Channel Blocks FITTING INSTRUCTIONS

Introduction

Clay dished drainage channels are intended to be used to provide surface water drainage on footpaths, walkways, domestic driveways and areas used by light commercial vehicles.

These instructions are for guidance only and if there is a consultant's specification covering the work for the project then this takes precedence over the method of laying channel sections detailed in these instructions.

It is important that sufficient gullies are installed in the drainage system and that the channels are fitted with adequate fall to ensure satisfactory drainage.

Handling and Storage

All clay products should be handled with care and must not be dropped, dragged or impacted. The channels have flat bottoms and are easily stacked during storage and transportation.

All channels and accessories should be lifted in accordance with standard site Health and Safety Guidelines.

Excavation

Excavate the trench approximately 435mm wide at a sufficient depth to provide flatbed ground work for the concrete and mortar bed and surround.

The bottom of the trench must be flat and have reached solid ground.

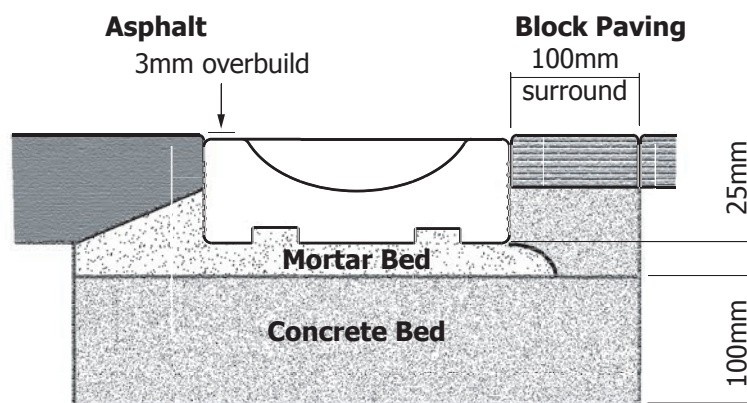
The depth of the concrete bed should be approximately 100mm

Lay out the channels and set levels along the side the trench, always starting at the outlet point.

Ensure the outlet point will connect to the underground drainage system.

Pouring the Bed

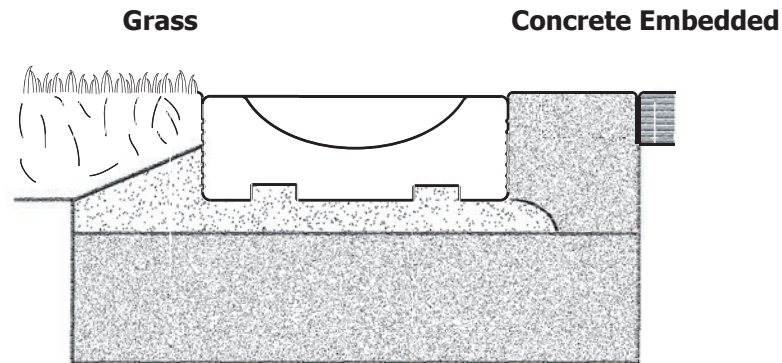
Beginning at the outlet position, pour a good quality concrete, such as GEN3, to the required depth and leave to set.





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Laying the channels

Lay a 25mm thick bed using Class 1 mortar onto the concrete and start laying the channels, bends, T junctions and ends to the required level.

Tap down with a soft mallet to ensure the mortar is in the locating grooves and the top face of the channel has approximately 3mm overbuild below the adjacent edges.

When used with asphalt surfaces and grassed areas the mortar bed can be extended to form the surround and additional support for the channel as shown.

Where two concrete surfaces join, it is important that both should be laid within a reasonable timescale to ensure adequate adhesion between the 2 layers.

Concreting

For applications with a concrete surround or block paving the concrete surround can now be poured into the trench, taking care not to disturb the laid channels. The concrete surround should finish 3mm above the channel to provide protection for the top surface of the channel.

For blocked paved areas the first row of blocks must be set into the concrete surround as shown.

Clean Up and Handover

Remove any debris from the channel including any excess mortar which may be visible between the joints.

Hose with clean water to restore the appearance of the channel.

Warning

Clay channels must not be subjected to;

- Vibrating and heavy rollers running over the edge, for example when laying asphalt surfaces.
- Grass cutting machinery running over the edge.
- Impact from heavy falling objects.
- Commercial / heavy vehicle traffic or equipment.

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