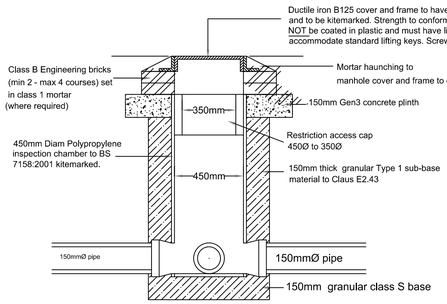
# Yorkshire Water Ref: S104-2025-081

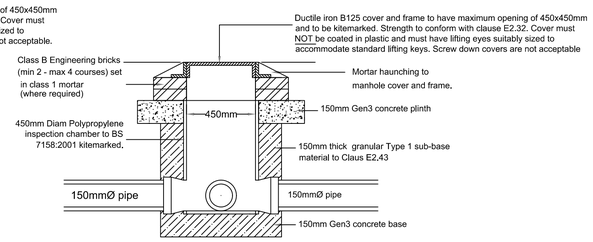
## DEMARCATION CHAMBER LOCATED IN GARDENS

For depth of chamber greater than 1200mm maximum depth 3000mm



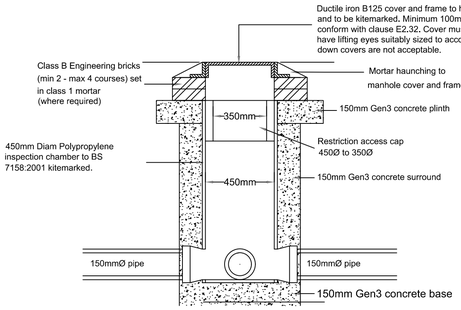

## DEMARCATION CHAMBER LOCATED IN GARDENS

Depth from cover level to invert level of pipe chamber less than 1200mm.



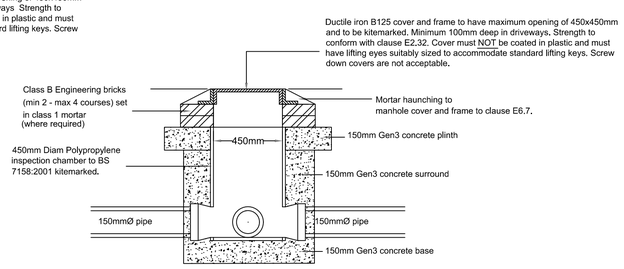

## DEMARCATION CHAMBER LOCATED IN DRIVEWAY

For depth of chamber greater than 1200mm maximum depth 3000mm




## DEMARCATION CHAMBER LOCATED IN DRIVEWAY

Depth from cover level to invert level of pipe chamber less than 1200mm.




Pipes

| Diameter (mm) | Gradient | |
|---|---|---|
| | Foul | S.W. |
| 100 | 1:80 | - |
| 150 | 1:80 | 1:80 |

Vitrified clay pipes to BS EN 295 kitemarked.
Unplasticised PVC pipes to BS 4660:200 & BS EN 1401-1 kitemarked.
Structured Wall Unplasticisd PVC pipes to WIS 4-35-01 kitemarked.

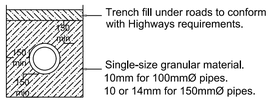
Demarcation chamber covers & frames

| Surface | Class (Loading in kN) | Loading |
|---|---|---|
| Road | D400 | Vehicle Impact |
| Footway & Driveway | B125 | Occasional vehicle loading |
| Gardens | B125 | Pedestrian/cyclist |

## LATERAL DRAIN BEDDING DETAIL

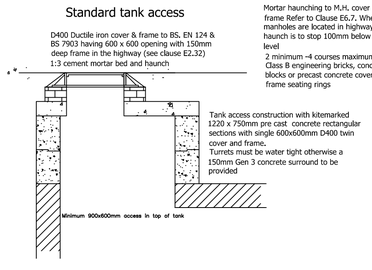
Minimum depth of Lateral drains

| Location | Minimum Depth (m) |
|---|---|
| Gardens | 0.9 |
| Agricultural/Open spaces | 0.9 |
| Driveways (trafficked areas) | 1.2 (see detail) |

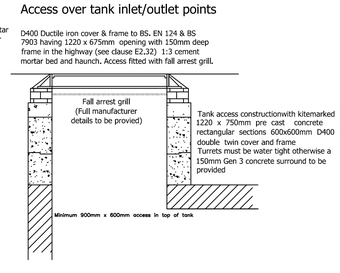


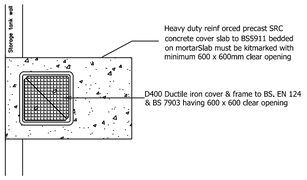

## Tank access detail details

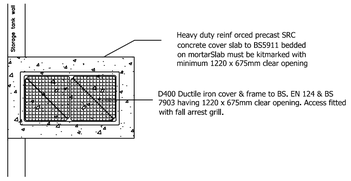
### Standard tank access



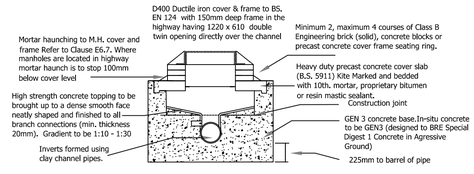

### Access over tank inlet/outlet points



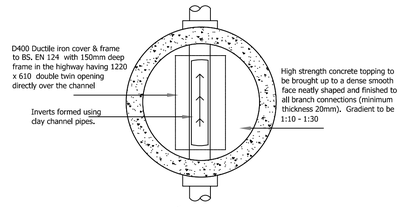




## Shallow Manhole detail




Section View




Plan View

## Brickwork detail

All brickwork to be minimum 2 - maximum 4 courses of Class B engineering bricks constructed in English Bond

English Bond

Brickwork plan view

## General Notes

1. Do not scale this drawing.
2. All dimensions are in millimeters unless stated otherwise.
3. This drawing is to be read in conjunction with all other relevant drawings & specifications.
4. All proprietary items to be installed in strict compliance with manufacturers instructions and recommendations.
5. No works shall commence on site until approval has been obtained from all relevant Agencies / Authorities.
6. All dimensions referred to in this drawing must be verified.

## Yorkshire Water Notes

1. All adoptable sewer works and material to be in accordance with "Design and Construction Guidance (DCG)/Code for Adoption". The Relevant British/European and Yorkshire Water's Standards/Requirements/Addendum to the Mechanical and Electrical Specification and must be Kitemarked.
2. Manhole covers shall/must have a clear opening of 600mm and shall be Class D400 to BS EN 124 with 150mm deep frames in highways.
3. Filled ground must be filled and consolidated under the supervision and to the satisfaction of Yorkshire Water before any sewer works are carried out.
4. Yorkshire Water is not obliged to accept filter drain/land drainage run-off into the public sewer network or adoptable drainage system (directly or in-directly). An alternative method of disposal of the land drainage run-off will therefore be required and you will have to liaise with the Local Authority, Land Drainage Section regarding the disposal of the filter drain/land drainage run-off.
5. The adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
6. Sewers must have 5 metres clearance from trees and hedges or the width of the canopy at mature height (**also refer Design and Construction Guidance for restrictions on tree planting adjacent to sewers**).
7. Sewers to be laid in Class "S" Bedding (150mm granular bed and surround). Where depth of cover to top of the sewer is less than 1.2m in highways and verges (or less than 900mm in nonvehicular access areas) then a concrete slab should be provided above granular bed and surround.
8. Bedding and backfill material to conform to the requirement of Water Industry Specification 4-08-02 (**Table A1**).
9. Yorkshire Water policy is that brick manholes and 1050mm dia. manhole rings are not preferred. Instead, it is preferred that you use a type "B" manhole with 1200mm dia, 1350mm dia. or 1500mm dia rings, with the opening sited over the channel where depth of cover to pipe soffit is 1 - 1.5m.
10. Adoptable plastic sewer pipes to be BSI Kitemarked (certified to WIS 4-35-01 and BS/EN13476). Adoptable plastic sewer pipes to be laid in maximum 3 metre lengths unless there is a specific operational need to lay longer lengths. Plastic channel sections in manholes are not acceptable and Yorkshire Water would require clay ware channel in manholes.
11. The minimum crushing strength for clay pipes should be as follows: 100mm dia. 40KN/m, 150mm dia. 40KN/m, 225mm dia. 45KN/m and 300mm dia. 72KN/m. The minimum crushing strength for concrete pipes should be - (Class 120 to EN 1916/BS5911-1 2002). Plastic pipes should conform to WIS 4-35-01 and BS EN13476.
12. Where a B125 cover and frame has been approved, this must not be coated in plastic and must have lifting eyes suitably sized to accommodate standard lifting keys. Screw down covers are not acceptable.
13. There must be enough clearance at crossovers to accommodate bedding to both pipes, approx. 300mm: if crossover is near the rocker then the clearance needed may need to be increased".

| rev | description | drawn | date |
|---|---|---|---|
| P01 | First Issue | SG | 22.07.26 |

Preliminary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HARRON HOMES

project:

Land off Roslyn Avenue, Netherton, Huddersfield

drawing title:

Section 104 Construction Details
Sheet 2

| Drawing Number: | | Drawn by: | Checked by: |
|---|---|---|---|
| EE100008-222 | | SG | SG |
| **Project ref:** | **scale:** | **date:** | **original paper size:** |
| EE100008 | As Shown | 22.07.2026 | A1 |


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