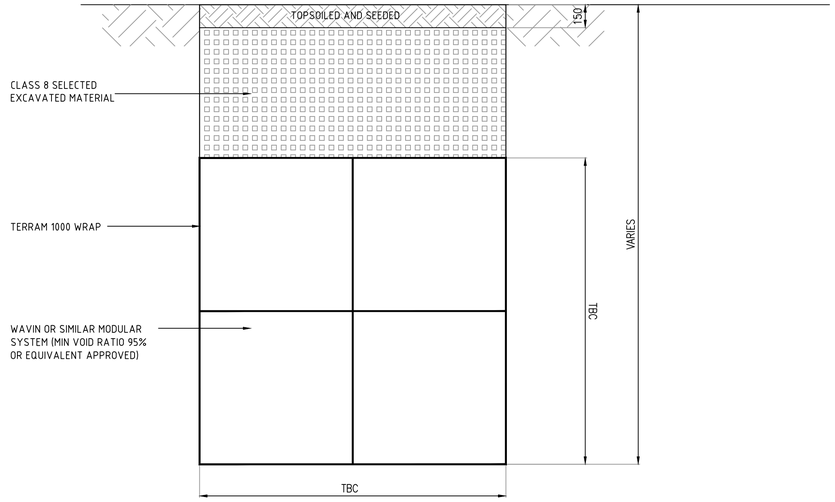
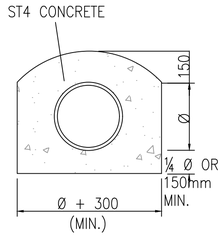
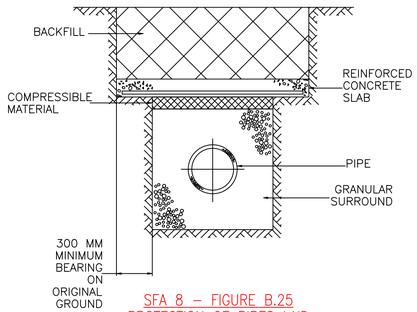


TYPICAL SECTION THROUGH SOAKAWAY (CRATES) (NTS)

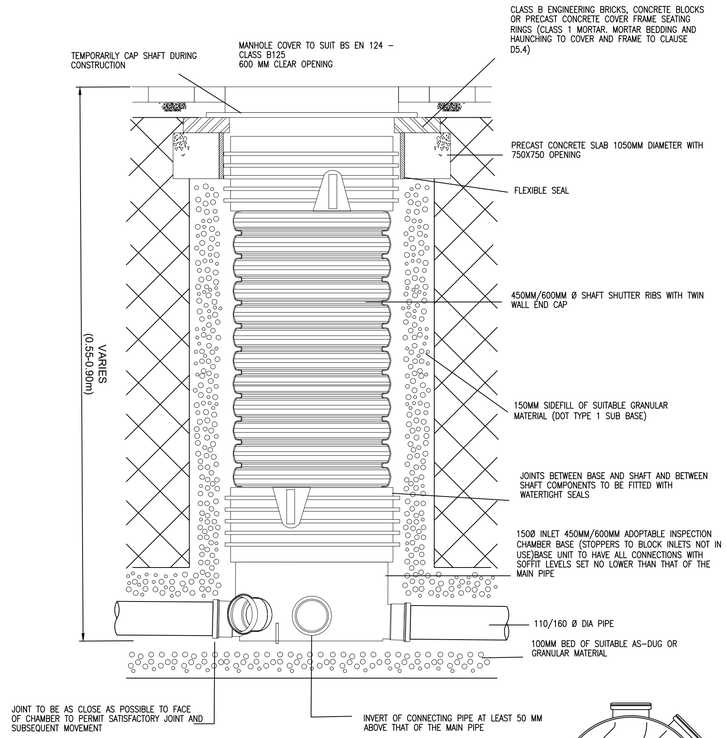
- The soakaway shall be designed to discharge from full to half within a reasonable timeframe so that the risk of not being able to manage a subsequent rainfall event is minimised.
- A minimum distance of 1m shall be maintained between the base of the soakaway and the maximum likely ground water level on the site. It is worth noting that no ground water was encountered during the site infiltration tests.
- Aquacell modular units to be installed to manufacturer's details and specifications.
- As outlined in C753 SuDS manual, some highly permeable soils can be susceptible to smearing during excavation. Exposed surfaces of the soil are to be cleaned of any smearing before geotextile and granular fill surrounding the system is installed. No compaction will be allowed within the area of the proposed soakaway and exclusion zones to be established.
- Proposed Soakaway shall be located at a minimum 5 m away from the building.
- If a traditional soakaway is to be constructed, the sides of the excavation should be lined with a geotextile membrane suitable for preventing the migration of fines into the soakaway. The excavation should then be filled with granular material. The top surface of the granular material should also be covered with the geotextile to prevent the ingress of material during backfilling. Geotextile should not be placed around the outside of the soakaway unit.
- Soakaway excavations shall be backfilled with suitable permeable aggregate material such as Type B filter material, pea gravel or 4/40 aggregate in accordance with BS 7533-13:2009.
- The bottom of the soakaway should be flat to provide uniform ponding and infiltration of the runoff across the surface. The tolerance on the base levels should be a maximum level difference of 10mm in 3m.



TYPICAL TYPE Z BEDDING DETAIL
(TO BE USED WHEN COVER IS LESS THAN 900mm TO PIPE SOFFIT UNDER-TRAFFICKED AREA)
(NTS)



SFA 8 – FIGURE B.25
PROTECTION OF PIPES LAID AT SHALLOW DEPTHS



PPIC INSPECTION CHAMBER
BY WAVIN OR SIMILAR APPROVED
(NTS)

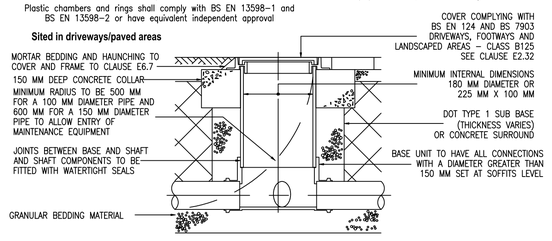
1500 PIPE, 450MM/600MM ø ADOPTABLE INSPECTION CHAMBER BASE (STOPPERS TO BLOCK INLETS NOT IN USE)BASE UNIT TO HAVE ALL CONNECTIONS WITH SOFFIT LEVELS SET NO LOWER THAN THAT OF THE MAIN PIPE

TYPICAL INSPECTION CHAMBER DETAIL – TYPE E (Flexible material detail)

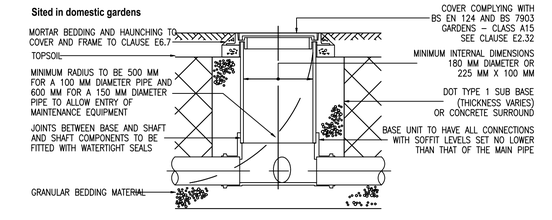
Maximum depth from cover level to soffit of pipe 2 m, non-entry

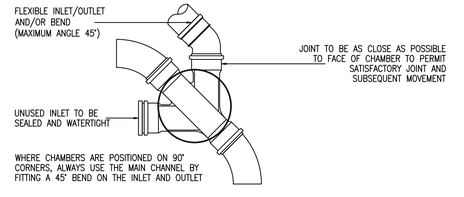
Plastic chambers and rings shall comply with BS EN 13598-1 and BS EN 13598-2 or have equivalent independent approval

Sited in driveways/paved areas



Sited in domestic gardens





NOTE: WHERE THE ACCESS CHAMBER IS IN THE HIGHWAY THE HIGHWAY AUTHORITY CAN HAVE SPECIFIC REQUIREMENTS

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NOTES

1. DO NOT SCALE FROM THIS DRAWING. USE ONLY WRITTEN DIMENSIONS
2. ALL MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY (CESWI) UNLESS STATED OTHERWISE
3. THE LENGTH OF THE NEXT PIPE (ROCKER PIPE) AWAY FROM THE STRUCTURE SHALL BE:

PIPE DIAMETER (mm)	LENGTH (m)
DN150 - DN600	0.6

4. ALL DIMENSIONS ARE IN MILLIMETRES
5. PROPOSED MANHOLES ARE TO BE TO SEWERS FOR ADOPTION 7th EDITION AND THE DESIGN & CONSTRUCTION GUIDANCE.
6. DETAILS SHOWN FOR TYPE E PPIC CHAMBERS ARE TAKEN FROM WAVIN DETAILS. THESE CHAMBERS SHALL BE INSTALLED TO THE MANUFACTURERS SPECIFICATION. IF ALTERNATIVE CHAMBERS ARE PROPOSED THE DETAILS MAY VARY AND SHOULD BE SUBMITTED TO TO THE DESIGNER. ALL PART NUMBERS SHOWN RELATE TO WAVIN PRODUCTS.
7. ALL WORKS TO COMPLY WITH "SEWERS FOR ADOPTION-7th EDITION" AND THE DESIGN & CONSTRUCTION GUIDANCE.
8. A 30mm REDUCTION IN LEVEL HAS BEEN ALLOWED FOR IN THE CALCULATION OF INVERT LEVELS FOR ALL BRANCH CONNECTIONS TO PLASTIC INSPECTION CHAMBERS (AS PER WAVIN DETAILS). INVERT LEVELS REFER TO MAIN CHANNEL.IF ALTERNATIVE CHAMBERS ARE PROPOSED THIS VALUE MAY VARY AND THE DESIGNER SHOULD BE CONSULTED.
9. PIPEWORK TO BE VITRIFIED CLAY OR PLASTIC. VITRIFIED CLAY PIPES SHOULD COMPLY WITH REQUIREMENTS BS EN 295 FOR FOUL PIPES.
10. PLASTIC PIPEWORK IS TO BE INSTALLED (POLYPIPE OR SIMILAR APPROVED) IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION.
11. PLASTIC PIPEWORK IS TO BE INSTALLED (POLYPIPE OR SIMILAR APPROVED) IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION. ALL THERMOPLASTIC PIPEWORK SHALL COMPLY WITH THE REQUIREMENTS OF THE DESIGN & CONSTRUCTION GUIDANCE.
12. THE DEVELOPER MUST SELF-VET AND CERTIFY THAT THE DESIGN CRITERIA, MATERIAL STANDARDS AND WORKMANSHIP SPECIFICATIONS FOR THE PROPOSED DRAINAGE ARE IN ACCORDANCE WITH THOSE SET OUT IN THE DESIGN & CONSTRUCTION GUIDANCE, BUILDING REGULATIONS AND THE REQUIREMENT OF THE STATUTORY SEWERAGE UNDERTAKER.
13. PROPOSED PIPEWORK WITH LESS THAN THE FOLLOWING DEPTHS TO SOFFIT REQUIRES A CONCRETE SURROUND:
- PROPOSED PIPEWORK WITH <1.2m DEPTH TO SOFFIT IN ROADS/SERVICE AREAS.
- OR <0.9m DEPTH TO SOFFIT IN PEDESTRIAN AREAS & DOMESTIC DRIVEWAYS WITH 7.5T VEHICLE WEIGHT LIMIT.
- OR <0.5m DEPTH TO SOFFIT IN PEDESTRIAN AREAS & DOMESTIC DRIVEWAYS WITH NO VEHICLE WEIGHT LIMIT.
- OR <0.35m DEPTH TO SOFFIT IN LANDSCAPED AREAS REQUIRES CLASS Z BEDDING"

REV	DATE	DESCRIPTION	DRN	CHD	APP'D
R1	26/06/26	ORIGINAL ISSUE	BBP	CLS	AJF

DRG. STATUS
FOR INFORMATION

AJF ENGINEERING CONSULTANTS

CLIENT
MRS MEGAN WILLIAMS

PROJECT
LAND AT 10 FFORDD CAERFYDDIN, WREXHAM, LL11 2LD

DRG. TITLE
DRAINAGE DETAILS
SHEET 2 OF 2

DRG.NO. 26175-AJF-ZZ-ZZ-DR-C-504
REV R1

A1