

480º Polypropylene Inspection chamber code supersleve PPIC100 or equivalent approved by the engineer.

BSEN 124 Class A 15 Light Duty cover where chamber is located in private drives and pedestrian areas.

MH Location	Cover grade
Non-trafficked/ Pedestrian areas	A15
Private drives	B125

Where inspection chamber is located in areas of block paving it shall be fitted with a recessed cover to accommodate paving blocks.

100mm bed of selected as-dug material (well compacted) or granular material or 150mm of GEN3 concrete. If concrete is used place chamber in position whilst concrete is wet in order that it takes the shape of the chamber base.

SECTION

PLAN OF PPIC100

Inlets not required are to be blanked with stoppers.

0.6m short rocker pipe.

Depth to invert of less than 930mm. Depth to invert with concrete collar of less than 1.0m.

Prefabricated polypropylene cellular cells (AquaCell by Wavin) or equal approved installed in strict accordance with manufacturers instructions located a minimum 5.0m from any foundation or structure

"As dug" material with light compaction. First 300mm of backfill to have no vibratory or mechanical compaction

110mm x 150mm UR Reducer

Incoming storm drainage connected to top of AquaCell Unit with adaptor

Wavin AquaCell Eco to be wrapped in Non woven Geotextile Layer or equivalent approved product

Storm Soakaway Detail

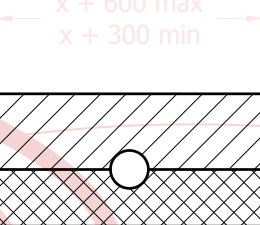
Design based on site percolation test in 28th April 2021.
Filtration Rate 3.495 x 10-5 m/sec (FOS of 2.0)

LIMITS OF COVER FOR STANDARD STRENGTH RIGID PIPE IN ANY WIDTH OF TRENCH

PIPE BORE	BEDDING CLASS	Fields and gardens		Light traffic roads	
		MIN	MAX	MIN	MAX
100mm	D or N	0.4	4.2	0.7	4.1
	F	0.3	5.8	0.5	5.8
	B	0.3	7.4	0.4	7.4
150mm	D or N	0.6	2.7	1.1	2.5
	F	0.6	3.9	0.7	3.8
	B	0.6	5.0	0.6	5.0

CLASS B PIPE BEDDING

x/2+150



Generally suitable in all soil conditions granular fill to half depth of pipe.

LEGEND:

- Selected fill: free from stones larger than 40mm, lumps of clay over 100mm, timber frozen material and vegetable matter
- Granular material: should conform to BS 882:1983 table 4 or BS8301:1985 Appendix D. Compaction fraction > 0.3 for class N > 0.2 for class F and B.

'x' - Denotes external pipe diameter.

Rodding point (aluminium) with sealing plate and safety valve.

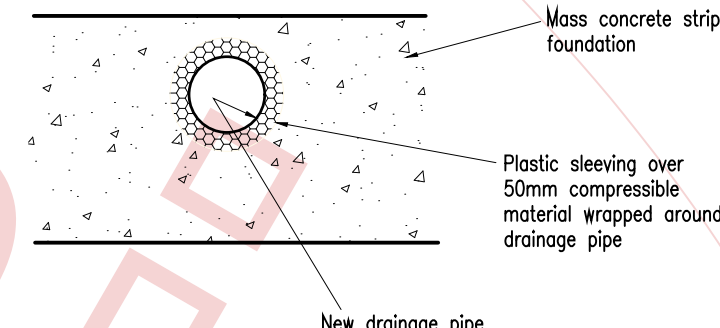
Safety valve.

Finished ground level.

Pipe bedding to suit location and loading.

Set in GEN1 concrete.

45° bend.



PIPE SLEEVE DETAIL

DETAIL OF RODDING EYE

Cover & Frame See Drg 17-1179-PL401

Ground level (grass)

150mm side fill as dug material with no particle sizes larger than 40mm

Silt Trap Shaft 500mm ø

100mm ø Drain

Silt Trap Removable Basket

100mm ø Drain

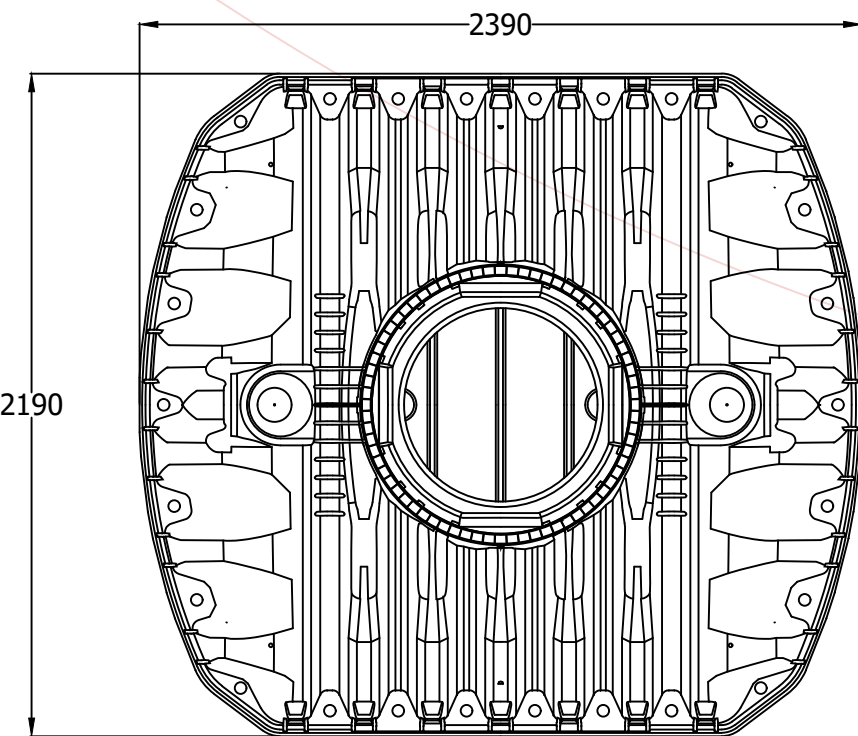
450mm

100mm bed as per pipe bedding specification

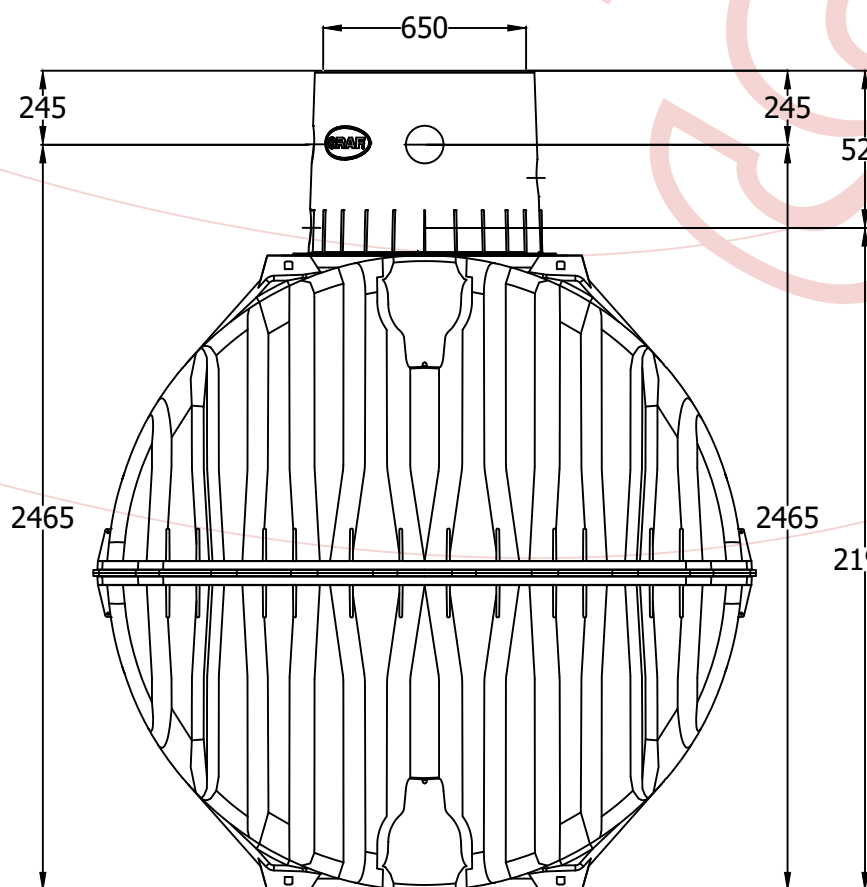
Typical Detail for Silt Trap Non Trafficked areas

Silt trap design may vary depending upon manufacturer
Required at SW05 & SW06 Locations

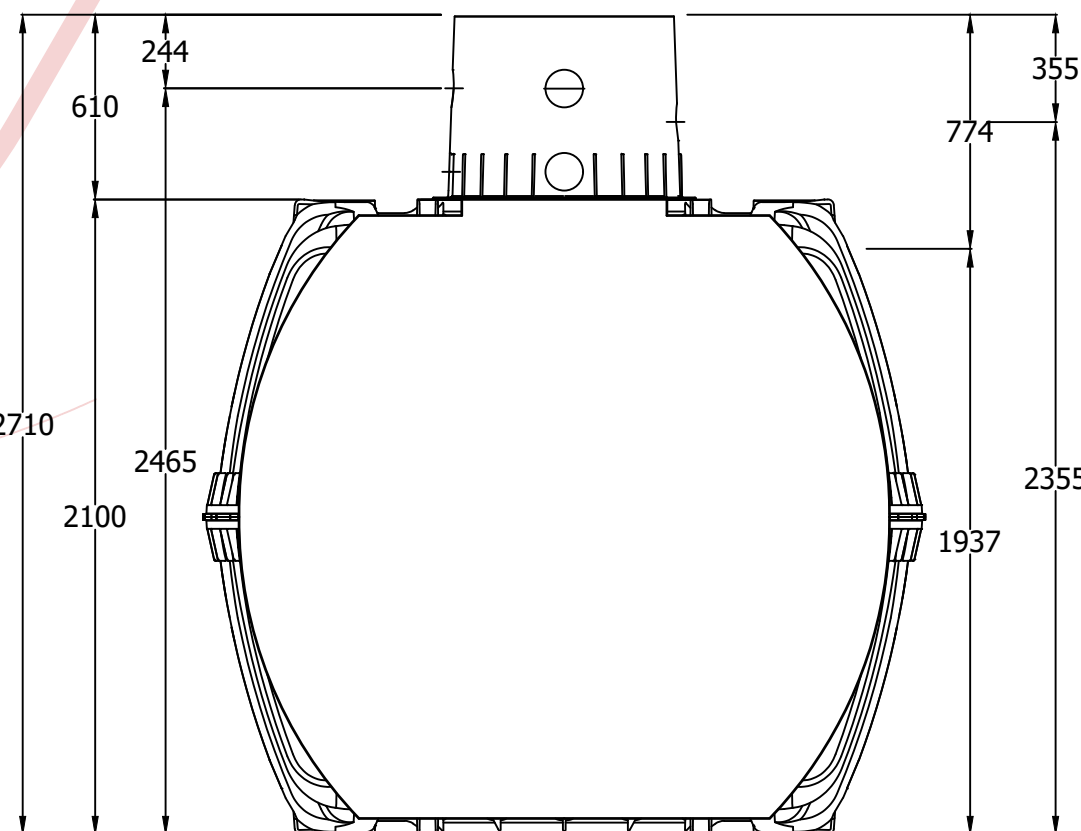
GRAF Carat 6500 Litre Rain Water Harvesting Tank
Installed in strict accordance with manufacturers recommendations (1:25)



Plan



End Elevation



Section

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Do not scale this drawing. Use written dimensions only. All dimensions shall be checked on site prior to commencement of work.

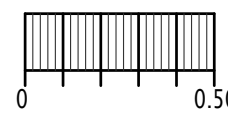
IF IN DOUBT ASK

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Typical Installation Procedure

- Excavate the trench to the required depth ensuring that the plan area is slightly greater than that of the AquaCell units.
- Lay 100mm bed of coarse sand or non angular granular material, level and compact.
- Lay the geotextile* over the base and up the sides of the trench.
- Lay the AquaCell units parallel with each other. In multiple layer applications, wherever possible, continuous vertical joints should be avoided. AquaCell units can be laid in a 'brick bonded' formation (i.e. to overlap the joints below). For single layer applications use the AquaCell Clips and for multi layers use the AquaCell Clips and the AquaCell Shear Connectors.
- Fix the Adaptors to the AquaCell units as required and connect pipework.
- In order to prevent silt from entering the tank, clogging inlet pipework and reducing storage capacity, it is recommended that a Silt Trap is installed prior to the inlet pipework.
- Wrap and overlap the geotextile covering the entire AquaCell structure.
- Lay 100mm of coarse sand or non angular granular material between the trench walls and the AquaCell structure and compact.
- Lay 100mm of coarse sand or non angular granular material over the geotextile and compact.
- Backfill with suitable material



1:20 scale bar (Metres)

A 27 May 21 Issued in support of Full Planning Application
- 26 Feb 21 Issued in support of Discharge of Condition 3

REV	DATE	DESCRIPTION	BY
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Suite A Second Floor
Trinity Court 2-4 West Street
Fareham, Hampshire. PO16 0BH
Telephone: 01329 288684, Email: office@hjconcepts.co.uk

Mr & Mrs Brooks
Land South of Sundown
Littleheath Road Fontwell BN18 0SR

Proposed Details
Storm Drainage

ENGINEER	PH	CHECKED
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DATE	Feb 21	SCALE	1:20, 25
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PROJECT and DRAWING NO.

17-1197 — DR 501

REVISIONS	A1	A				
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