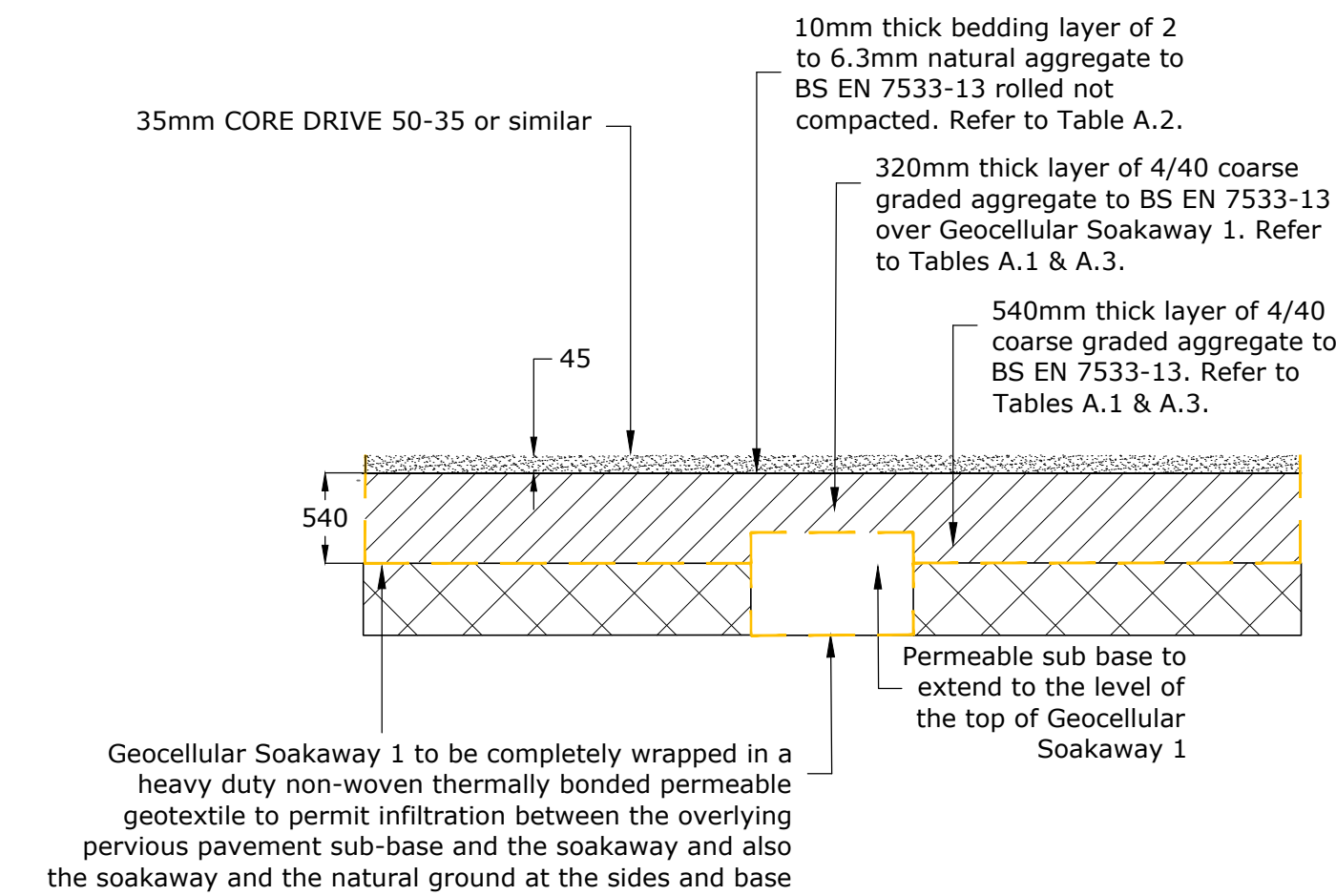




Pervious Pavement Construction Overlying Geocellular Soakaway

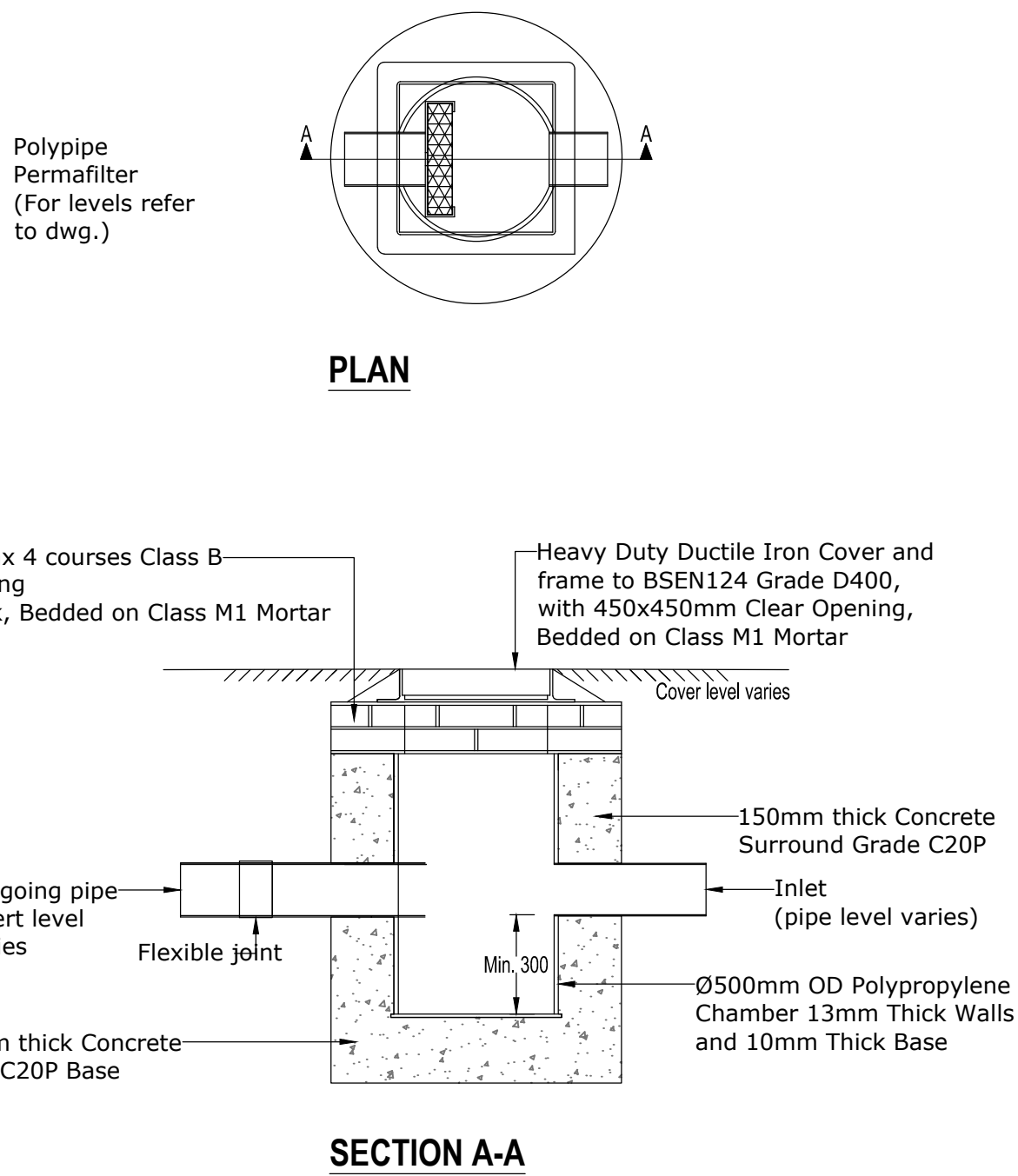
Notes with reference to Motion Drawing 2403090-0501-P07 [Detailed Drainage Strategy]:

- Geocellular Soakaway to be suitable for minimum 385mm trafficked and landscaped cover.
- Geocellular Soakaway 1 to be suitable for minimum 365mm trafficked cover.
- Geocellular Soakaway to be completely wrapped in a heavy duty non-woven thermally bonded permeable geotextile and to also have 100mm Type 2/6mm Sharp Grit or Clean Sand surround external to the geotextile.
- Geocellular Soakaway 1 to be completely wrapped in a heavy duty non-woven thermally bonded permeable geotextile to permit infiltration between the overlying and adjacent pervious pavement sub-base and the natural ground at the sides and base. Geocellular Soakaway 1 to also have 100mm Type 2/6mm Sharp Grit or Clean Sand at the sides and base external to the geotextile where interacting with the natural ground.
- Geocellular Storage 2, 3 and 4 to be suitable for minimum 300mm cover in trafficked or landscaped location as appropriate and to be completely wrapped in an impermeable separating geomembrane.
- Geocellular Storage 2, 3 and 4 to also have as-dug backfill (Figure 21.4 of the CIRIA SuDS Manual) at the sides and a 'Sand blinding / bedding layer' (Figure 21.4 of the CIRIA SuDS Manual) at the base external to the impermeable separating geomembrane.

CBR Table 2	
CBR (%)	Capping Thickness (mm)
≤2.0	Subgrade improvement
2.0-3.0	Subgrade improvement layer (may be incorporated into capping layer to provide a total layer thickness of 350 mm)
3.0-4.0	225mm capping
4.0-5.0	150mm capping

Notes:

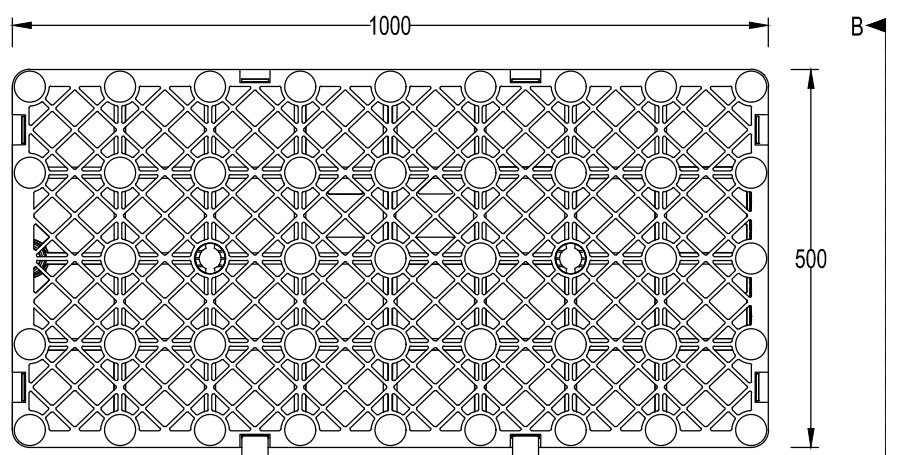
- The contractor is to carry out CBR testing at formation levels. The results are to be issued to the Engineer in order to determine capping requirements.
- For frost susceptible subgrade materials the minimum depth of construction shall be 450mm.
- Table 2 is based on Interpave's design & construction of concrete block permeable pavements - 8.8 Adjustment for low CBR



Ø500mm POLYPIPE CATCHPIT INSPECTION CHAMBER

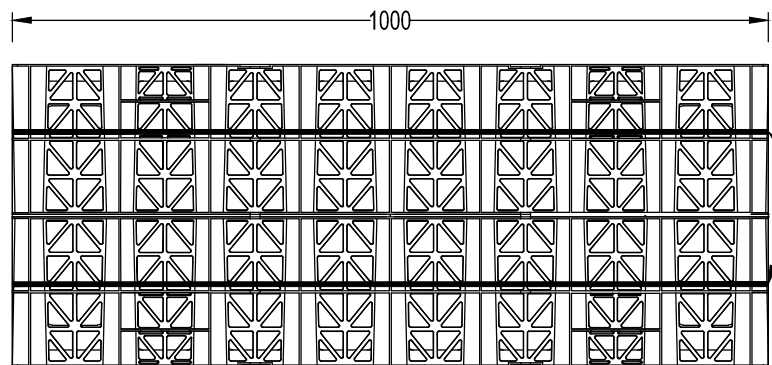
PERMAVOID MEDIUM DUTY BIOMAT UNIT

Product Code: (PSM1ABM)



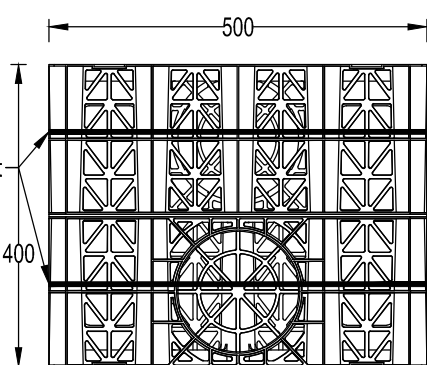
PLAN

Scale (1:10)



ELEVATION A-A

Scale (1:10)



ELEVATION B-B

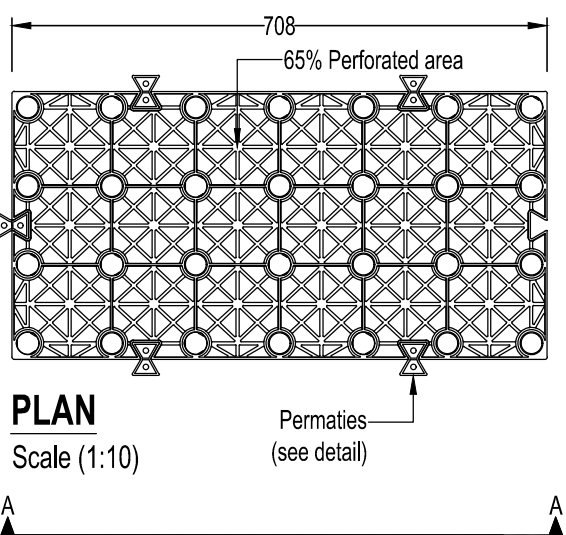
Scale (1:10)

Notes with reference to Motion Drawing 2403090-0501-P07 [Detailed Drainage Strategy]:

- Permavoid medium duty biomat 400mm units are understood to be compatible for use with Permavoid 150mm units to provide 550mm thickness for Geocellular Storage 2. However, the biomat layers are not required. Request Polypipe provide Permavoid medium duty biomat 400mm units without biomat layers, or request Polypipe provide appropriate alternative compatible 400mm units if available.

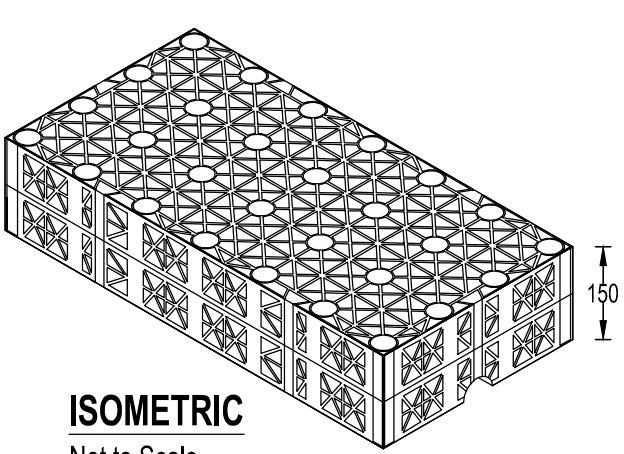
PERMAVOID 150mm UNIT

Product Code: (PVPP150)



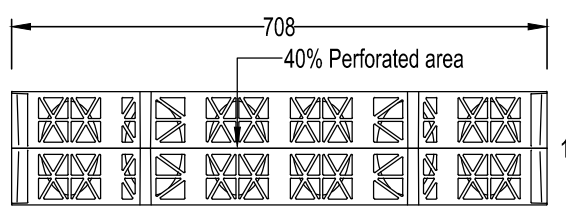
PLAN

Scale (1:10)



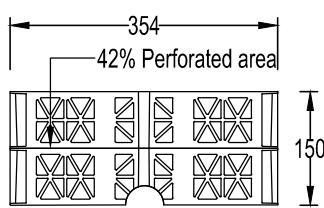
ISOMETRIC

Not to Scale



ELEVATION A-A

Scale (1:10)



ELEVATION B-B

Scale (1:10)

PERMATIE DETAIL

Scale (1:5)



Scale (1:5)

Scale (1:5)

Scale (1:5)

Scale (1:5)

Scale (1:5)

Scale (1:5)

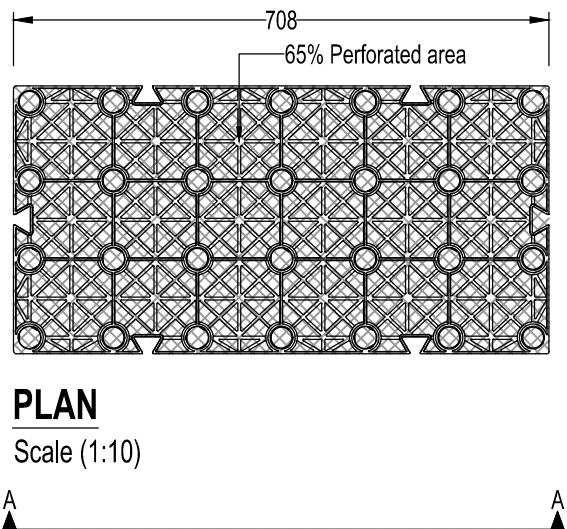
Scale (1:5)

Scale (1:5)

Scale (1:5)

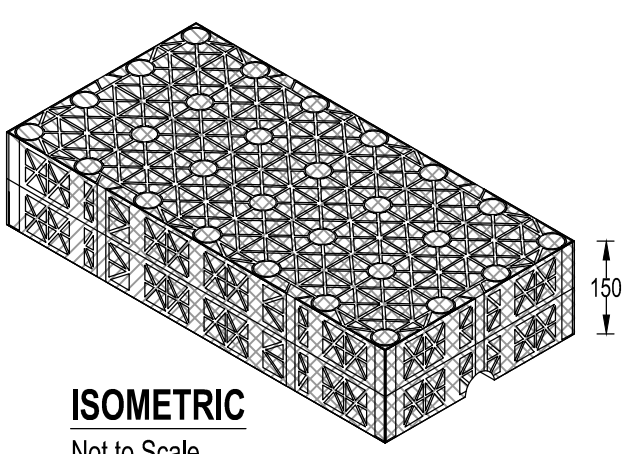
PERMAVOID DIFFUSER UNIT

Product Code: (on application)



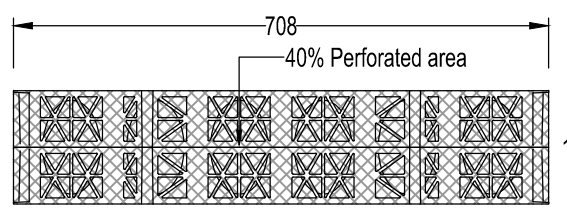
PLAN

Scale (1:10)



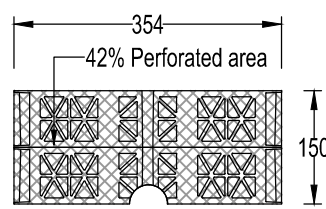
ISOMETRIC

Not to Scale



ELEVATION A-A

Scale (1:10)



ELEVATION B-B

Scale (1:10)

PERMAVOID DIFFUSER CONFIGURATION OPTIONS

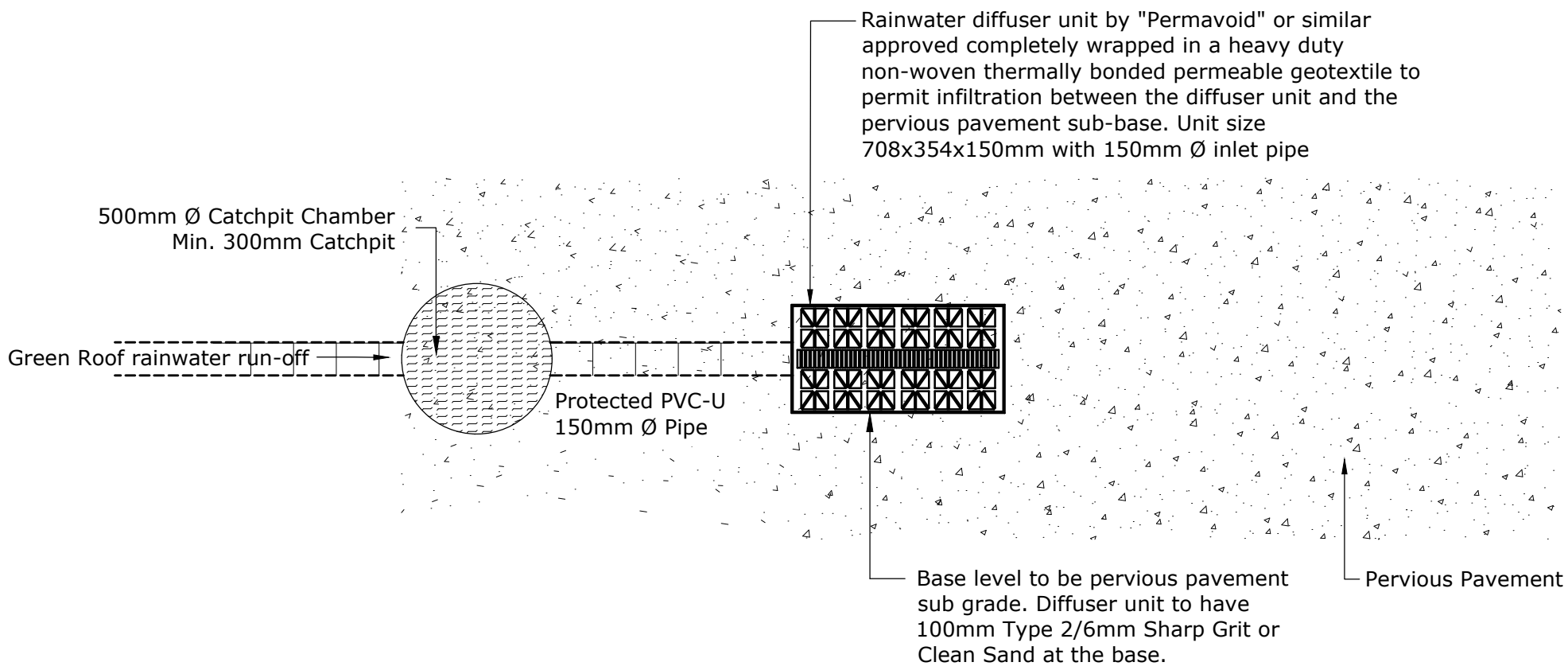
(The below sizes are available)

Width (mm)	354	708	1062	1416	2124
Length (mm)					
708	✓	✓	✓	✓	✓
1062	✓	✓	✗	✓	✓
1416	✓	✓	✓	✓	✓
2124	✓	✓	✓	✓	✓

NOTE:

Depths available are either 150mm or 300mm.

Connections available are either Ø110mm or Ø160mm.



Permavoid Diffuser Unit Connection Detail

Notes

- All levels and dimensions to be checked on site before any work commences. All dimensions in metres unless stated otherwise.
-
- Any discrepancies should be reported to the engineer immediately, so that clarification can be sought prior to the commencement of works.
- This drawing should be read in conjunction with all other relevant engineering details, drawings and specification.

P04	Fourth Issue	ST	CG	JM	29/06/2026
P03	Third Issue	ST	CG	JM	28/04/2026
P02	Second Issue	ST	CG	JM	27/04/2026
P01	First Issue	ST	CG	JM	06/03/2026
Rev.	Description	Drm	Chk	App	Date

Drawing Status:

FOR PLANNING
NOT FOR CONSTRUCTION

motion

Guildford - Reading - London
www.motion.co.uk

Client:

Remmus Designer Homes Ltd

Project:

Hilgay Cottage, Birdwood Grove Road, Burgess Hill
RH15 0DL

Title:

Detailed Drainage Strategy Standard Details

Scale:

NTS (@ A1)

Drawing:

2403090-0801

Revision:

P04