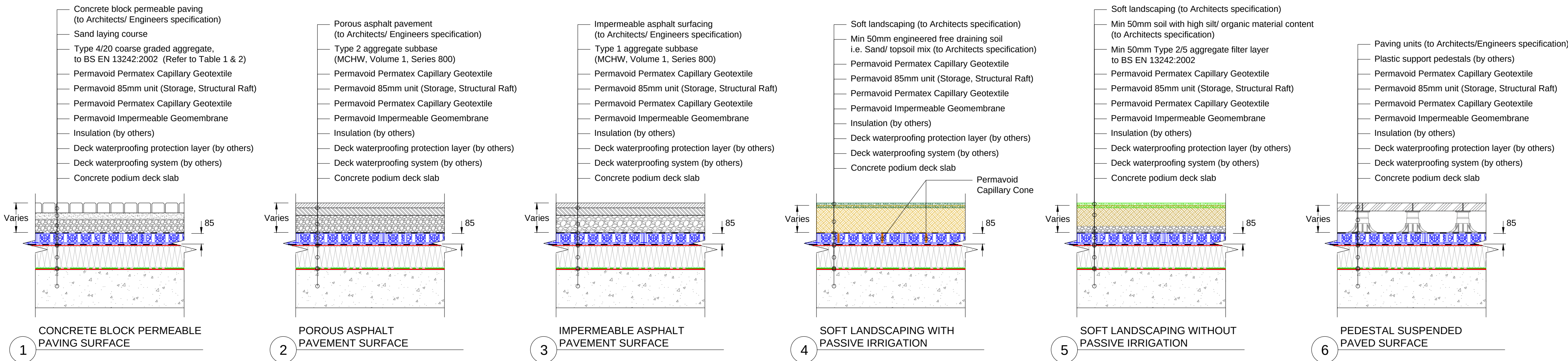
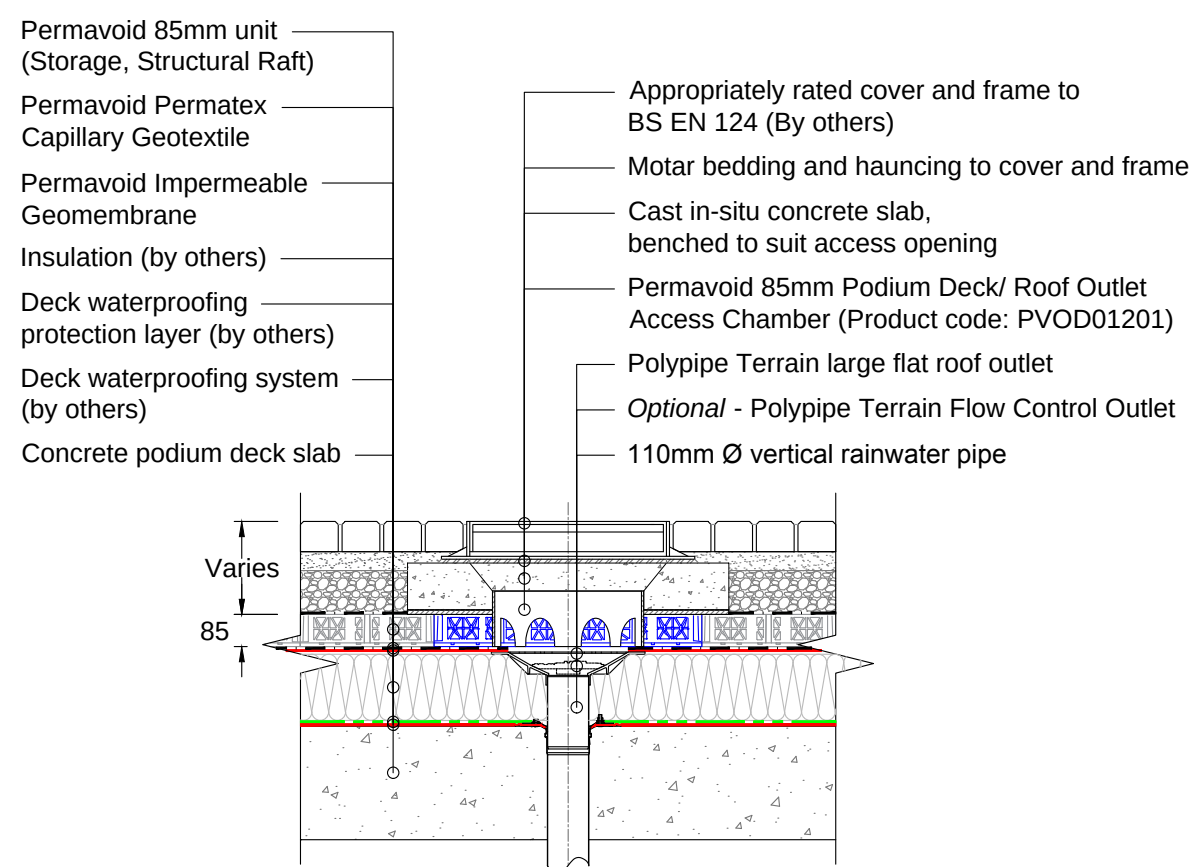
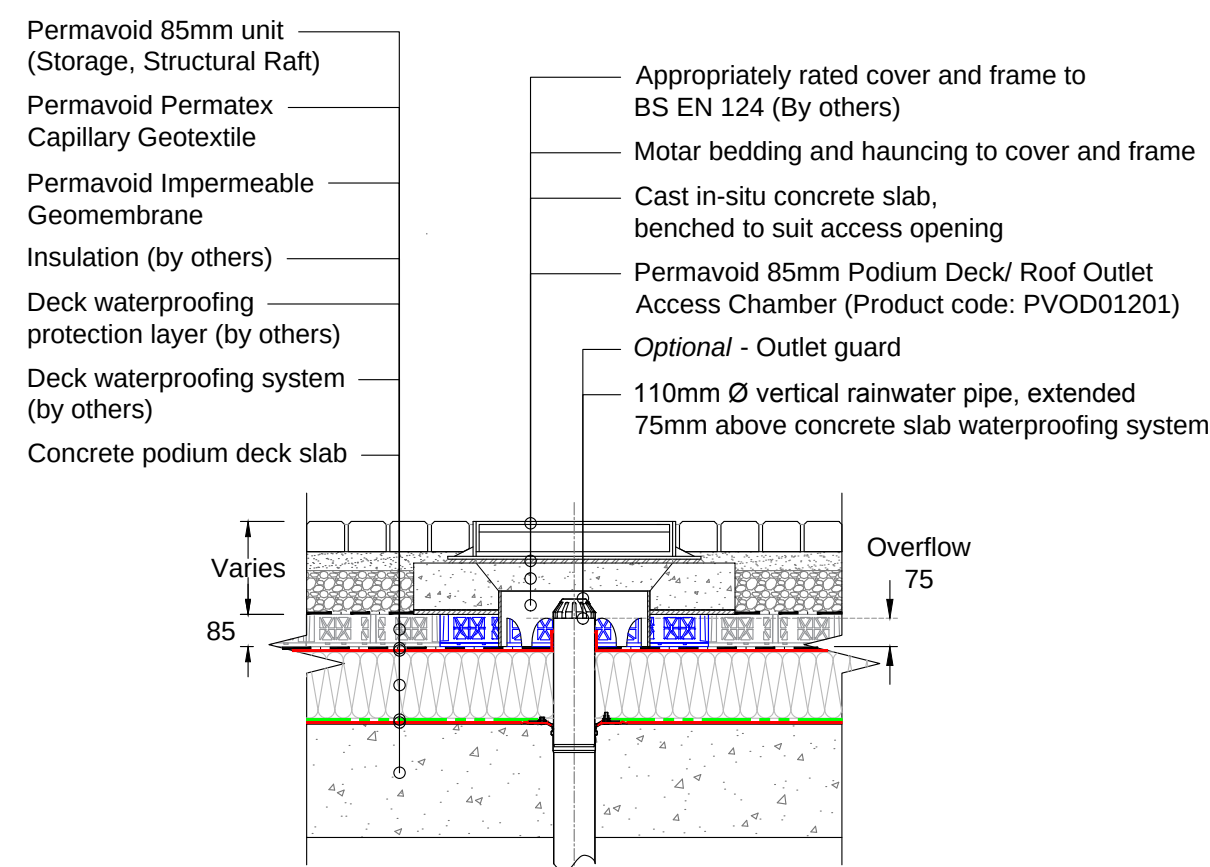




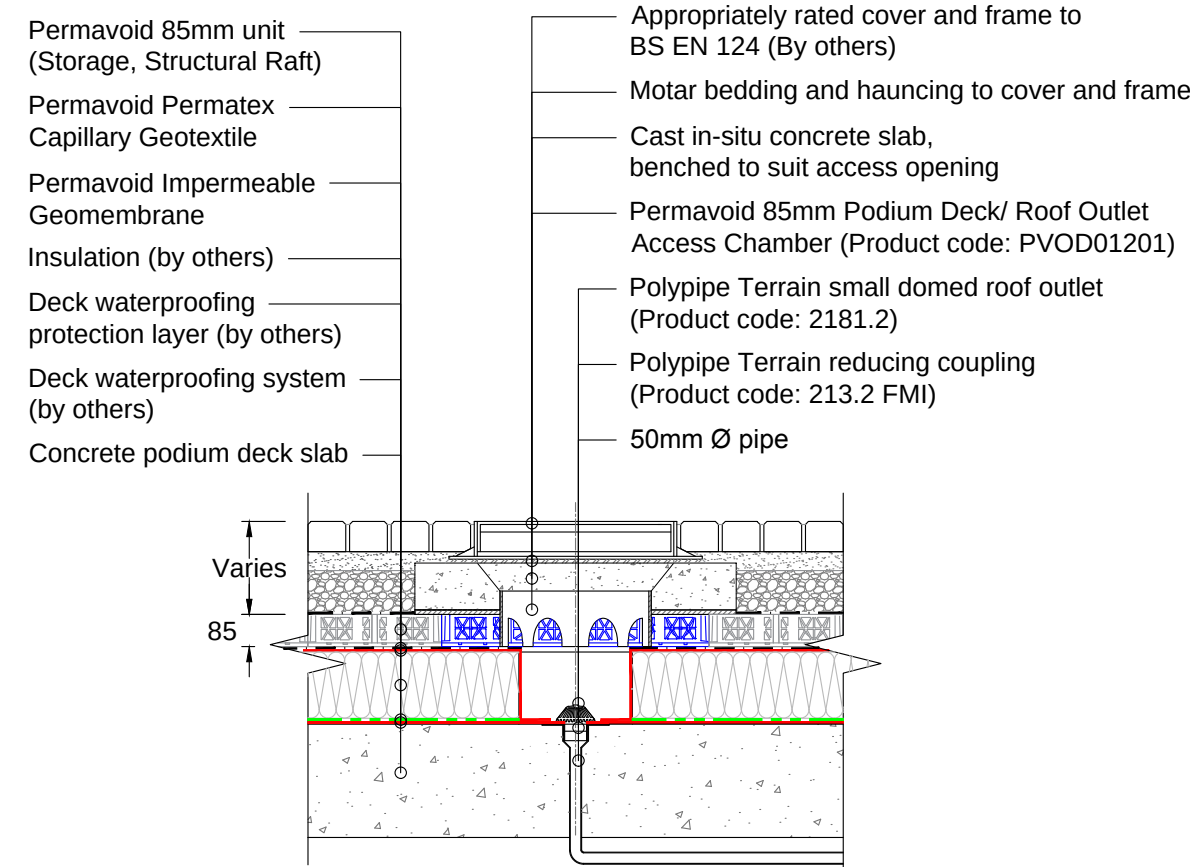
TYPICAL PERMAVOID 85mm ATTENUATION STORAGE



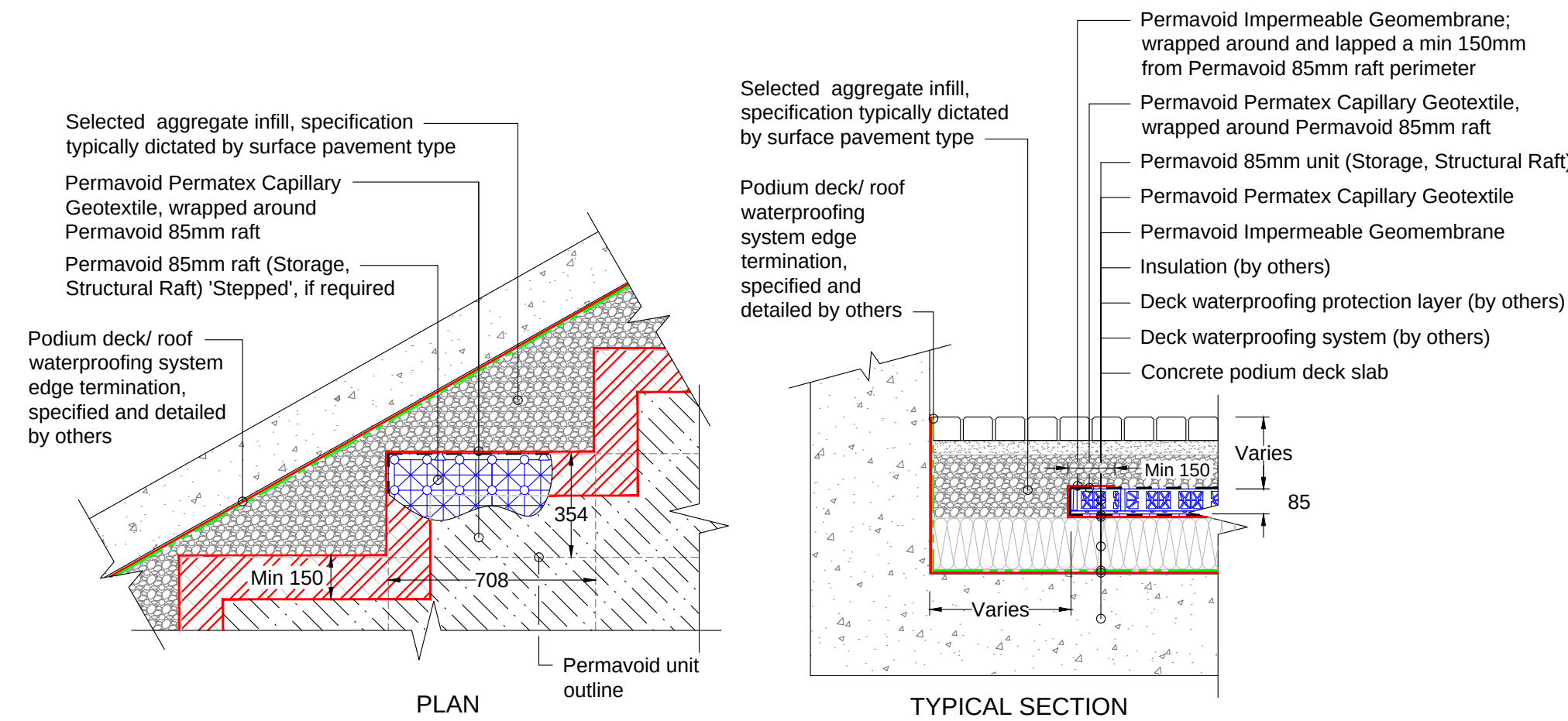
PERMAVOID 85mm PODIUM DECK/ ROOF ACCESS CHAMBER - TYPICAL VERTICAL OUTLET



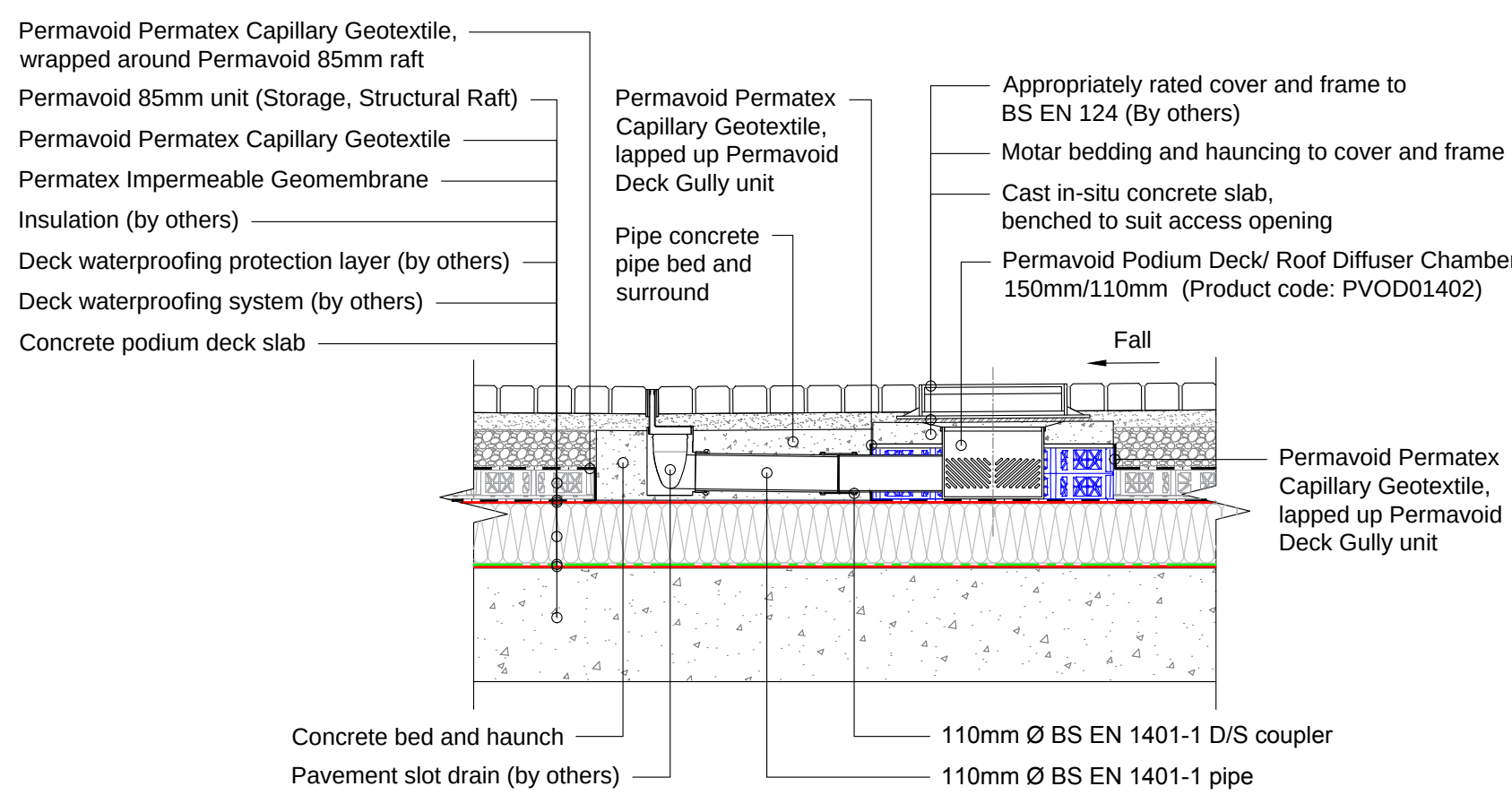
PERMAVOID 85mm PODIUM DECK/ ROOF ACCESS CHAMBER - TYPICAL VERTICAL OVERFLOW OUTLET



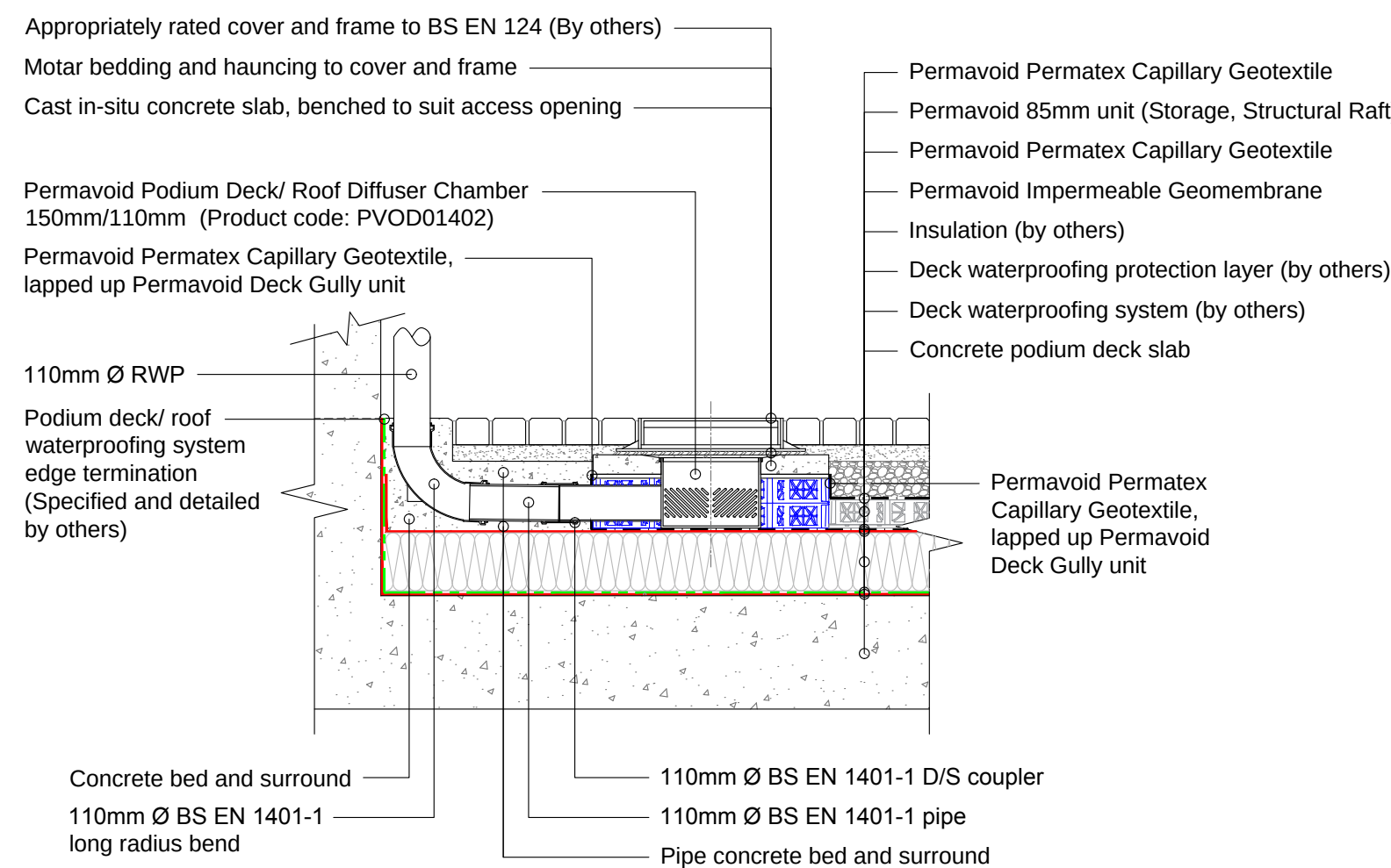
PERMAVOID 85mm PODIUM DECK/ ROOF ACCESS CHAMBER - TYPICAL RAINWATER RECOVERY SYSTEM INLET



TYPICAL PERMAVOID 85mm RAFT EDGE DETAIL



TYPICAL PERMAVOID 85mm PODIUM DECK/ ROOF DIFFUSER CHAMBER - SLOT CHANNEL



TYPICAL PERMAVOID 85mm PODIUM DECK/ ROOF DIFFUSER CHAMBER - 110mm Ø RWP

Table 1

Coarse Graded Aggregate - Grading Limits

[Referencing BS EN 7533-13:2009, Annex A]

Summary grading size distribution

Standard	BS EN 13242		
Grading (Size) [mm]	4 / 40	4 / 20 ¹⁾	
Sieve size, mm	Percentage by mass passing		
80	100	-	-
63	98 - 100	-	-
40	90 - 99	100	-
31.5	-	98 - 100	-
20	25 - 70	90 - 99	-
10	-	25 - 70	-
4	0 - 15	0 - 15	-
2	0 - 5	0 - 5	-
1	-	-	-

Notes
 1. Typically 4/20 is the preferred material grading.

Table 2
Coarse Graded Aggregate - Physical Property Requirements
[Referencing BS EN 7533-13:2009, Annex A]

Property	Category to BS EN 13242 or BS 12630
Grading and oversize categories	G _C 85 - 15
Category for tolerances at mid-size sieves	GT _C 20 / 17.5
Category for maximum fines content	f _d
Shape	FI ₃₀
Resistance to fragmentation	LA ₃₀
Durability:	
- Water absorption	WA _A 2
- Magnesium sulphate soundness	MS ₁₈
Resistance to wear	M _{DE} 20
Acid-soluble sulphate content:	
- Other than air-cooled blast-furnace slag	AS _{0.2}
- air-cooled blast-furnace slag	AS _{3.0}
Total sulfur:	
- Other than air-cooled blast-furnace slag	≤ 1% by mass
- air-cooled blast-furnace slag	≤ 2% by mass
Volume stability of slag:	
- air-cooled blast-furnace slag	Free from dicalcium silicate and iron disintegration
- steel slag	V _s

Notes
1. Blast furnace slag and other recycled materials should meet the requirements of the Environment Agency Waste Acceptance Criteria (given in Guidance for waste destined for disposal in landfills) for inert waste when tested in accordance with BS EN 12457-3:2002

KEY

—	Deck waterproofing system/ Impermeable geomembrane
---	Deck waterproofing system protective layer
---	Permavoid Permatex Capillary Geotextile.

- NOTES**
- All dimensions in millimetres, unless otherwise stated.
 - All dimensions are nominal and may vary within manufacturing or construction tolerances.
 - All site temporary and enabling works by others.
 - Polypipe products to be installed in accordance with Polypipe Civils recommendations, giving due consideration to the requirements of the approving organisation(s) and the ultimate owner of the installation.
 - This drawing is intended for guidance only. All proposed installations should be assessed in the context of the site and expected operational conditions, in addition to the overall site drainage scheme, prior to commencement of final design or construction activities.
 - All construction activities shall be executed by competent personnel, in accordance with all relevant legislation, regulations, standards or codes of practice.