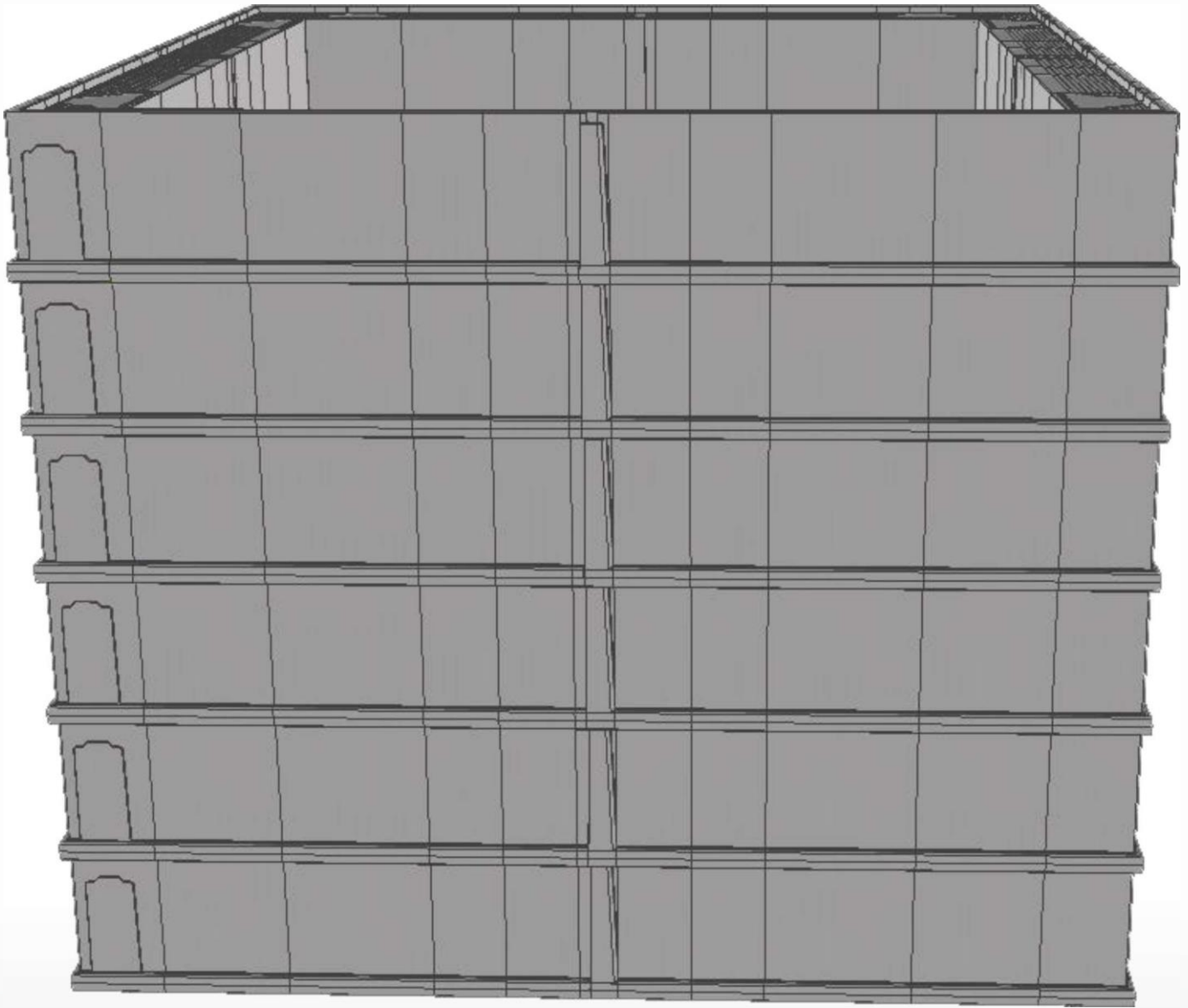




EcoPlus

Speeding up Construction With Versatile Products



EcoPlus parts are manufactured from recycled polymers and can be recycled at the end of their life.

All EcoPlus parts are highly resistant to attack from most acids and alkalis and other forms of chemical erosion unlike concrete.

They do not contain PVC or POPs (persistent organic pollutants)

They are able to withstand high loading forces which means that a

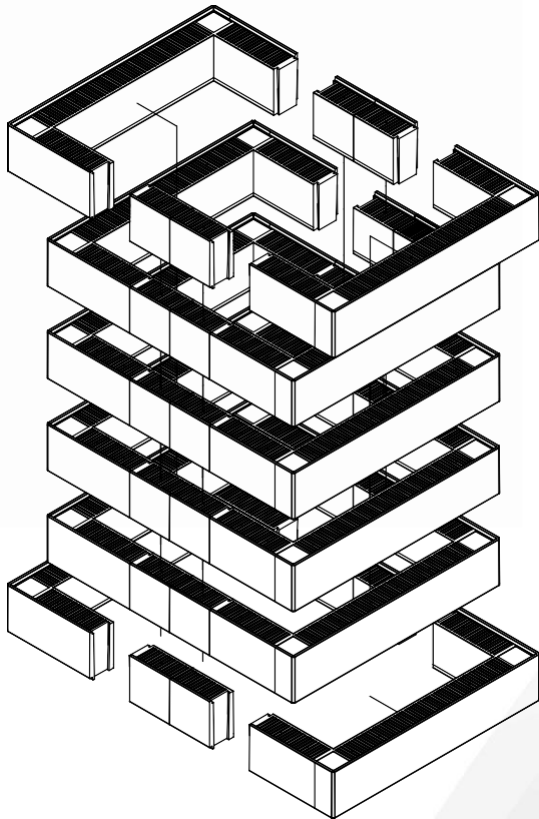
Made in UK

Introduction and features

What is EcoPlus ?

EcoPlus is a range of innovative structural access chambers for underground installations. Ideal for water utilities and other ducted network applications where access chambers are required for inspection and maintenance.

EcoPlus is suitable for all footway and highway projects.
EcoPlus chambers are formed by interlocking rectangular rings.
Several ring sizes are available - see page 4



EcoPlus rings are 150mm deep, are lightweight and easy to install.

EcoPlus rings are also able to support D400 loads upto F900 for some sizes. (see table on page 4)

EcoPlus parts are manufactured from recycled polymers and can be recycled at the end of their life.

All **EcoPlus** parts are highly resistant to attack from most acids and alkalis and other forms of chemical erosion unlike cement.

They are able to withstand high loading forces which means that a concrete backfill is not required.

Due to its lightweight plastic construction and reinforcement webs the **EcoPlus** will incur less breakages and can be installed without the use of lifting equipment like conventional concrete chambers.

EcoPlus can be fitted with ladders, step irons, bearer bars & other chamber furniture



Lightweight chamber construction allows manual handling for rapid on-site installation and eliminates the machine costs associated with traditional concrete chamber construction.

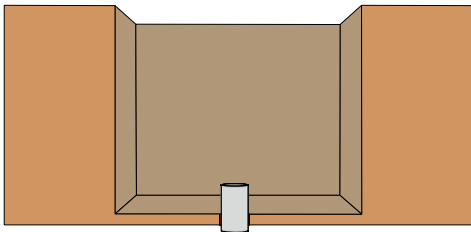
Chamber installation

PLEASE NOTE

If the chamber is not to be concrete surrounded it may need some of the rings to be reinforced (see page 5)

The chamber must be braced by struts to prevent the backfilling process causing side wall deflection, for chamber wall lengths of 600mm and above. When the chamber is braced, backfilling can take place at 300mm deep sections at a time. Leave the bracing in position until the lid & Frame are fitted and the mortar/resin is set

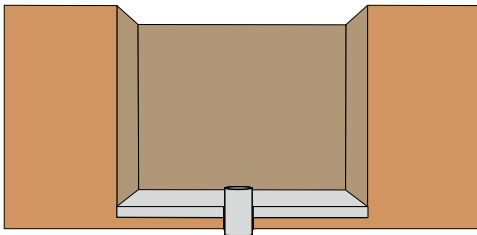
1



Dimensions of excavation:

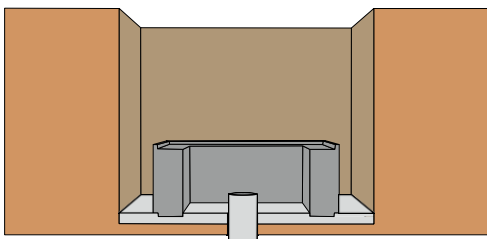
Length x Width x Height. Please allow additional depth for cover and frame required plus the mortar bed.

2



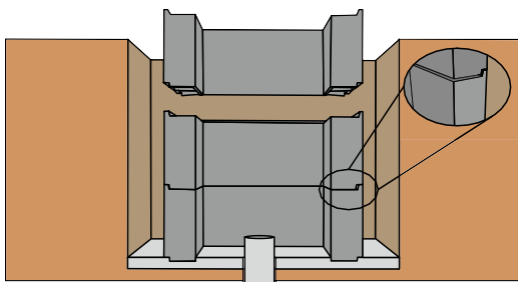
Pour a concrete base to act as the foundation. Alternatively dry mix or compacted stone may be used. Thickness of the base is of the preference of the onsite engineer.

3



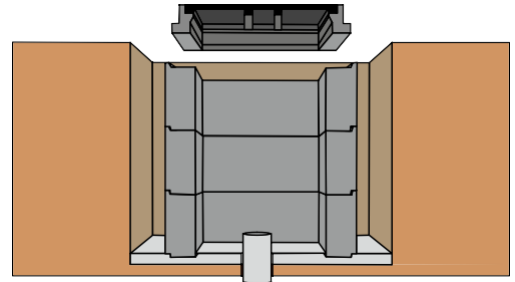
Lower the first section of the chamber into the excavation. Push the first section down into the wet cement making sure it is centered and level.

4



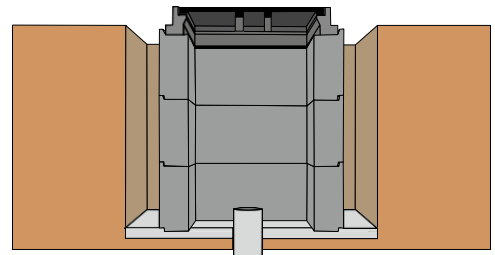
Insert the remaining sections making sure they are correctly aligned.

5



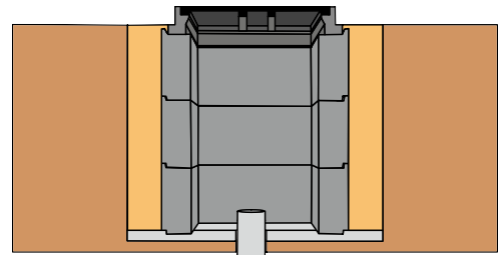
Lower the access cover on to the chamber once the concrete base has set, using mortar, grout or resin as per the lid manufacturer's instructions

6



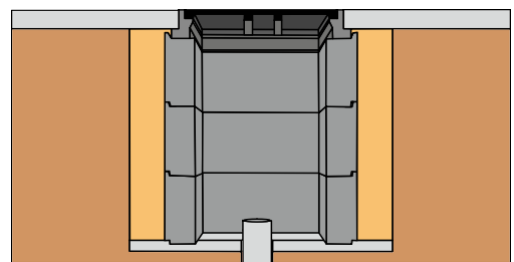
Check the fit of the access cover making sure no debris is stuck in between chamber and frame.

7



Pack the as-dug material from the excavation process into the cavity between chamber and excavation and compact it or backfill with concrete

8



To finish off the installation, lay your finishing material up to the access cover frame edges.

				External	External	External	Wall
		Load	Weight	Length	Width	Height	Thickness
Code	Product	Class	in Kgs	in mm	in mm	in mm	in mm
	EcoPlus						
MEP9045150	900x450x150mm EcoPlus	D400	10.29	1100	650	150	90
MEP9060150	900x600x150mm EcoPlus	D400	10.84	1100	800	150	90
MEP9068150	900x675x150mm EcoPlus	D400	11.57	875	1100	150	90
MEP9075150	900x750x150mm EcoPlus	D400	11.23	950	1100	150	90
MEP9090150	900x900x150mm EcoPlus	D400	11.76	1100	1100	150	90
MEP10068150	1000x675x150mm EcoPlus	D400	12.02	875	1200	150	90
MEP100100150	1000x1000x150mm EcoPlus	D400	13.12	1200	1200	150	90
MEP12045150	1200x450x150mm EcoPlus	D400	11.80	1400	650	150	90
MEP12060150	1200x600x150mm EcoPlus	D400	12.74	1400	800	150	90
MEP12068150	1200x675x150mm EcoPlus	D400	13.39	875	1400	150	90
MEP12075150	1200x750x150mm EcoPlus	D400	13.05	950	1400	150	90
MEP12090150	1200x900x150mm EcoPlus	D400	14.04	1400	1100	150	90
MEP13060150	1300x600x150mm EcoPlus	E600	13.19	800	1500	150	90
MEP13085150	1300x850x150mm EcoPlus	E600	14.63	1050	1500	150	90
MEP13590150	1350x900x150mm EcoPlus	E600	14.57	1100	1550	150	90
	EcoPlus with Reinforcing						
MEP9045S	900x450x150mm EcoPlus+Steel Reinforcing	D400	20.59	1100	650	150	90
MEP9060S	900x600x150mm EcoPlus+Steel Reinforcing	D400	22.22	1100	800	150	90
MEP9068S	900x675x150mm EcoPlus+Steel Reinforcing	D400	22.94	875	1100	150	90
MEP9075S	900x750x150mm EcoPlus+Steel Reinforcing	D400	23.69	950	1100	150	90
MEP9090S	900x900x150mm EcoPlus+Steel Reinforcing	D400	25.30	1100	1100	150	90
MEP10068S	1000x675x150mm EcoPlus+Steel Reinforcing	D400	24.11	875	1200	150	90
MEP100100S	1000x1000x150mm EcoPlus+Steel Reinforcing	D400	28.10	1200	1200	150	90
MEP12045S	1200x450x150mm EcoPlus+Steel Reinforcing	D400	24.26	1400	650	150	90
MEP12060S	1200x600x150mm EcoPlus+Steel Reinforcing	D400	26.28	1400	800	150	90
MEP12068S	1200x675x150mm EcoPlus+Steel Reinforcing	D400	26.92	875	1400	150	90
MEP12075S	1200x750x150mm EcoPlus+Steel Reinforcing	D400	27.67	950	1400	150	90
MEP12090S	1200x900x150mm EcoPlus+Steel Reinforcing	D400	29.74	1400	1100	150	90
MEP13060S	1300x600x150mm EcoPlus+Steel Reinforcing	E600	27.45	800	1500	150	90
MEP13085S	1300x850x150mm EcoPlus+Steel Reinforcing	E600	30.69	1050	1500	150	90
MEP13590S	1350x900x150mm EcoPlus+Steel Reinforcing	E600	31.35	1100	1550	150	90

Reinforcement for Areas with up to 13 tonne Axle Load

Ring No.	Depth in mm		Longest Wall Length in mm						
	From	To	10IX)	1050	12IX)	1250	1300	1350	14IX)
Top	0	150							
2	150	300	R	R	R	R	R	R	R
3	300	450			R	R	R	R	R
4	450	600		R			R	R	R
5	600	750	R			R			R
6	750	900			R			R	
7	900	1050					R		R
8	1050	1200				R		R	
9	1200	1350		R	R		R		
10	1350	1500	R						R
11	1500	1650				R		R	
12	1650	1800			R		R		R
13	1800	1950				R		R	
14	1950	2100		R			R		R
15	2100	2250			R			R	
16	2250	2400	R			R			R
17	2400	2550					R	R	R
18	2550	2700		R	R	R	R		
19	2700	2850						R	R
20	2850	3000			R	R	R		R

Reinforcement for Areas with up to 2 tonne Axle Load

Ring No.	Depth in mm		Longest Wall Length in mm						
	From	To	10IX)	1050	12IX)	1250	1300	1350	14IX)
Top	0	150						R	R
2	150	300				R	R		
3	300	450			R				
4	450	600							
5	600	750							
6	750	900		R					R
7	900	1050						R	
8	1050	1200	R				R		
9	1200	1350				R			
10	1350	1500						R	R
11	1500	1650					R		
12	1650	1800			R	R			R
13	1800	1950						R	
14	1950	2100					R		R
15	2100	2250		R		R		R	
16	2250	2400	R		R				R
17	2400	2550					R	R	
18	2550	2700			R	R			R
19	2700	2850		R			R	R	
20	2850	3000			R	R	R		R

If with concrete base then no reinforcing is needed in the bottom 3 rings

With concrete surrounded chambers, fewer reinforced rings are needed but we recommend that the 2nd ring down be reinforced

Reinforced rings can be moved up or down 150mm to accommodate duct entry