

Pennine

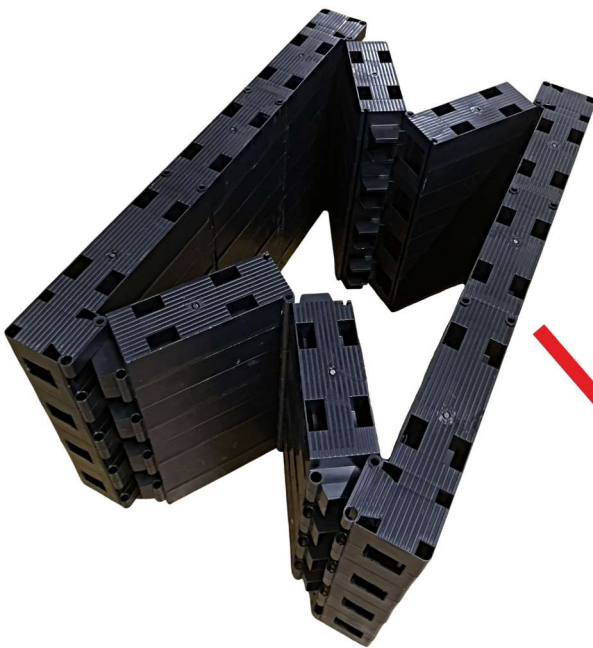
SupaStack

Modular Duct Access Chamber

- * Large savings in transport & storage cost
- * Corresponding reduction in carbon footprint
- * Onsite conversion from folded form to ready to use in less than 2 minutes per 150mm deep ring
- * Installers have less trips back to depot to collect more chambers
- * Can be laterally reinforced using steel within the walls



**Made from recycled polypropylene
& can be recycled at end of use**



- * Wide range of sizes
- * Suitable for a wide range of uses including fibre optics, railway applications, motorway communications, street & airport lighting, electric, gas & water utilities
- * Easy to fit cable bearers, step irons & ladders

MADE IN UK TO ISO9001 QUALITY STANDARDS

Pennine Manufacturing Ltd

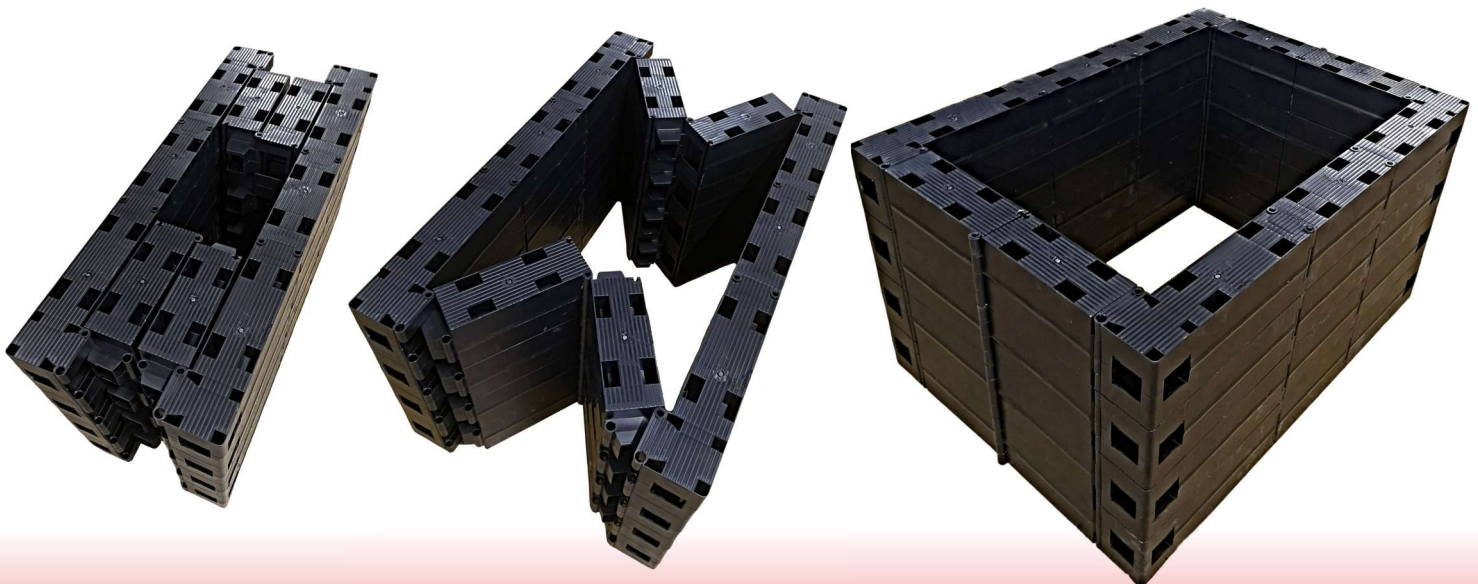
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Modular Duct Access Chamber

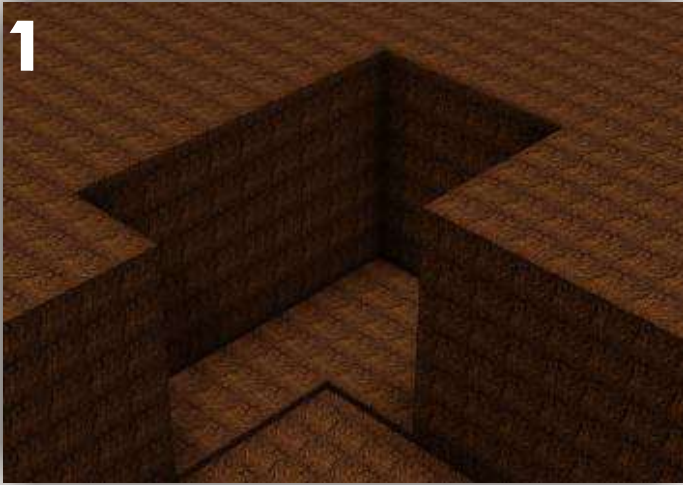
Code	Product	Load	Weight	Length	Pack	Height	Length	Pallet	Height	Number
		Class	in Kgs	in mm	Width	in mm	in mm	Width	in mm	
	SupaStack Chamber System									
MSU6060	600 x 600 x 150mm SupaStack	D400	8.2	800	420	154	1260	1000	2070	42
MSU7560	750 x 600 x 150mm SupaStack	D400	9.3	950	420	154	1260	1000	2070	36
MSU7568	750 x 675 x 150mm SupaStack	D400	10.0	950	420	154	1260	1000	2070	36
MSU7575	750 x 750 x 150mm SupaStack	D400	10.7	950	420	154	1260	1000	2070	36
MSU9060	900 x 600 x 150mm SupaStack	D400	10.0	1100	420	154	1260	1100	2070	36
MSU9068	900 x 675 x 150mm SupaStack	D400	10.7	1100	420	154	1260	1100	2070	36
MSU9075	900 x 750 x 150mm SupaStack	D400	11.5	1100	420	154	1260	1100	2070	36
MSU9090	900 x 900 x 150mm SupaStack	D400	12.2	1100	420	154	1260	1100	2070	36
MSU10068	1000 x 675 x 150mm SupaStack	D400	11.7	1200	420	154	1260	1200	2070	36
MSU100100	1000 x 1000 x 150mm SupaStack	D400	13.8	1200	420	154	1260	1200	2070	36
MSU105105	1050 x 1050 x 150mm SupaStack	E600	14.0	1250	420	154	1260	1250	2070	36
MSU12060	1200 x 600 x 150mm SupaStack	D400	11.4	1400	420	154	1260	1400	2070	36
MSU12075	1200 x 750 x 150mm SupaStack	D400	12.9	1400	420	154	1260	1400	2070	36
MSU12090	1200 x 900 x 150mm SupaStack	E600	13.5	1400	420	154	1260	1400	2070	36
MSU120120	1200 x 1200 x 150mm SupaStack	E600	15.0	1400	420	154	1260	1400	2070	36
MSU13060	1300 x 600 x 150mm SupaStack	E600	12.7	1500	420	154	1260	1500	2070	36
MSU13085	1300 x 850 x 150mm SupaStack	E600	14.4	1500	420	154	1260	1500	2070	36
MSU13590	1350 x 900 x 150mm SupaStack	E600	14.6	1550	420	154	1260	1550	2070	36
MSU15090	1500 x 900 x 150mm SupaStack	E600	15.4	1700	420	154	1260	1700	2070	36
MSU150120	1500 x 1200 x 150mm SupaStack	E600	16.9	1700	420	154	1260	1700	2070	36
MSU150150	1500 x 1500 x 150mm SupaStack	E600	19.0	1700	420	154	1260	1700	2070	36
MSU180180	1800 x 1800 x 150mm SupaStack	E600	21.1	2000	420	154	1260	2000	2070	36
MSU200200	2000 x 2000 x 150mm SupaStack	E600	25.7	2200	420	154	1260	2200	2070	36
	Many other sizes available									



Installation Instructions

First a hole must be excavated from the ground.

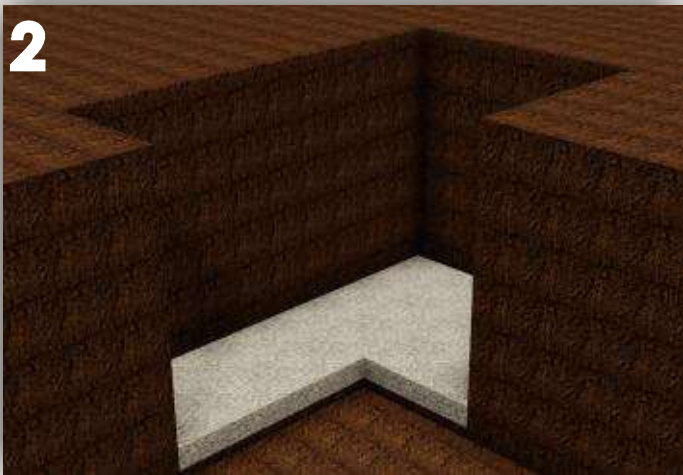
1



Dimensions of hole :

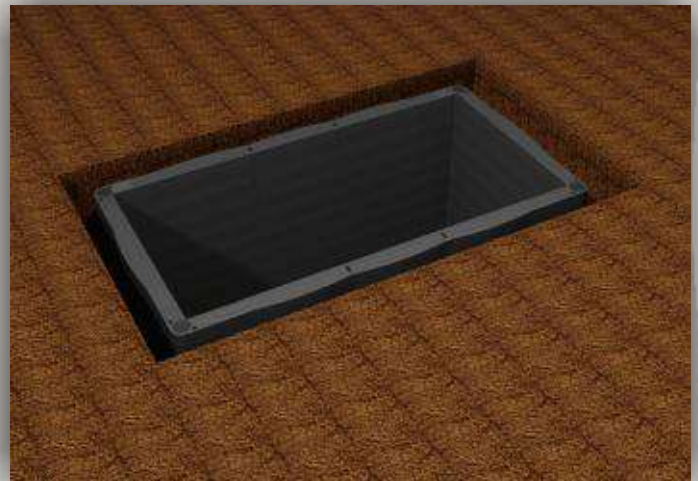
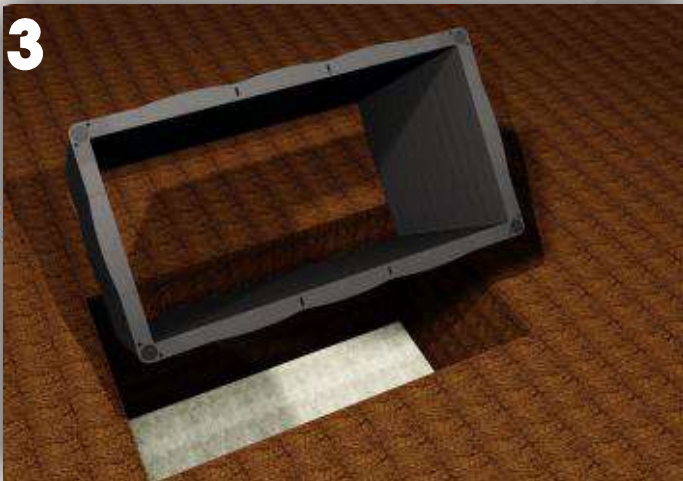
Length x Width x Height. Please allow 200-220mm for the chamber wall thickness and additional depth for cover and frame required for the mortar bed.

2



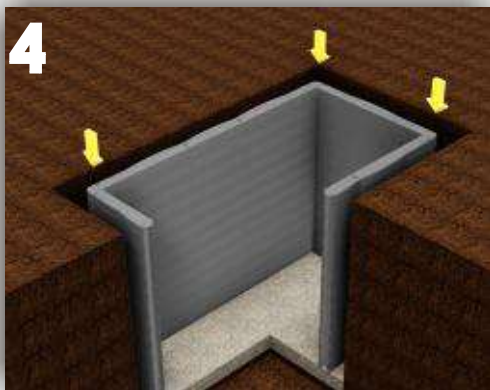
When the hole is excavated, a concrete base is poured or alternatively a dry lean mix concrete can be used. We recommend 100mm for pedestrian & cars only. For heavier vehicle areas we recommend 150mm

3



Lower the chamber into the excavation making sure that it is centred. You may use the steps to lift chamber and position in excavation, if required.

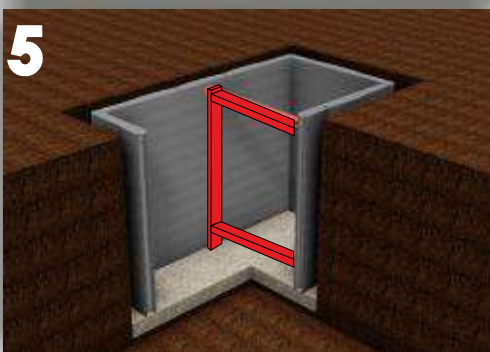
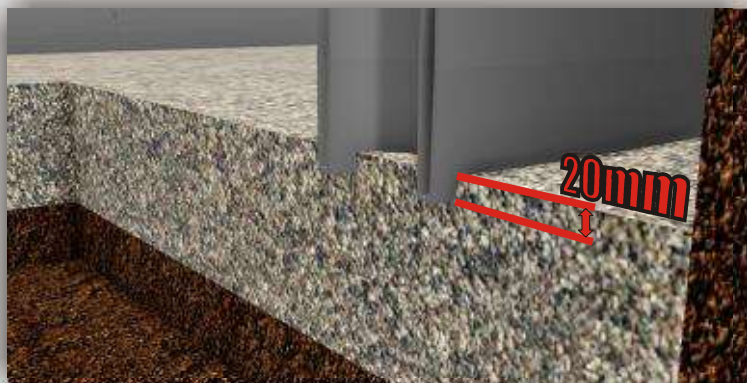
Installation Instructions



Important:

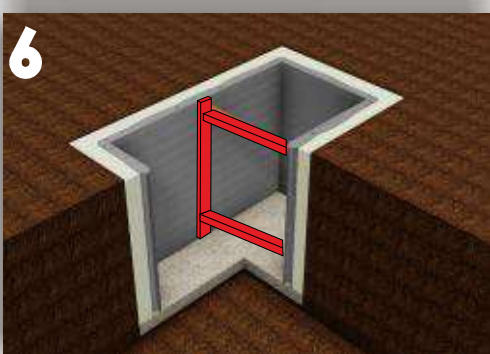
If the access chamber is being installed onto wet concrete then ensure that it sinks in to this concrete by a minimum of 20mm. The weight of the structure itself may accomplish this sinkage but, if not, the weight of a man standing at various points on the rim will suffice.

If it is being installed onto set concrete then a layer of concrete must be poured inside the inspection chamber, to fill its base to a depth of 20mm minimum.



Once positioned and top caps put in place, the chamber must be braced by a strut/struts to prevent the backfilling process to cause side wall deflection.

Please Note. Strutting is only required for chamber wall lengths of 1000mm and above. For larger chamber wall lengths of 1800mm and above 2/3 sets of struts may be required..



When the chamber is braced, backfilling can take place at 300mm deep sections at a time. When the hole is excavated, a concrete base is poured or alternatively a dry lean mix concrete can be used. We recommend 100mm for pedestrian & cars only. For heavier vehicle areas we recommend 150mm

Backfill with a minimum of 100mm granular material (type 1 or clean crushed concrete) well compacted
For walls with length over 1200mm in areas with HGVS, we recommend 100mm minimum C30



Frame of cover can be fixed to chamber and after curing has taken place the central bracing can be removed and cover can be installed in frame.

We recommend resin mortar to be used between chamber and frame on D400 loadings.

Reinforcement-Where Traffic has Axle Loads upto 13 tonnes

Ring Depth-mm			Longest Wall Length in mm												
No.	From	To	1000	1050	1200	1250	1300	1350	1500	1650	1800	1950	2000	2100	2500
Top	0	150										Use External Reinforcing - Tel 01204 361547 for further information	Use External Reinforcing - Tel 01204 361547 for further information	Use External Reinforcing - Tel 01204 361547 for further information	Use External Reinforcing - Tel 01204 361547 for further information
2	150	300	R	R	R	R	R	R	R	R	R				
3	300	450			R	R	R	R	R	R	R				
4	450	600		R			R	R		R	R				
5	600	750	R			R			R						
6	750	900			R			R			R				
7	900	1050					R			R					
8	1050	1200				R		R	R		R				
9	1200	1350		R	R		R			R					
10	1350	1500	R												
11	1500	1650				R		R	R		R				
12	1650	1800			R		R			R					
13	1800	1950				R		R	R		R				
14	1950	2100		R			R			R					
15	2100	2250			R			R			R				
16	2250	2400	R			R			R						
17	2400	2550					R	R		R	R				
18	2550	2700		R	R	R	R		R	R					
19	2700	2850						R			R				
20	2850	3000			R	R	R		R	R					

Reinforcement- Where Traffic has Axle Loads upto 2 tonnes

Ring Depth-mm			Longest Wall Length in mm												
No.	From	To	1000	1050	1200	1250	1300	1350	1500	1650	1800	1950	2000	2100	2500
Top	0	150													Use External Reinforcing - Tel 01204 361547 for further information
2	150	300			R	R	R	R	R	R	R	R	R	R	
3	300	450													
4	450	600												R	
5	600	750										R	R		
6	750	900		R							R				
7	900	1050						R		R			R	R	
8	1050	1200	R				R		R			R			
9	1200	1350				R					R		R	R	
10	1350	1500						R		R		R		R	
11	1500	1650					R				R		R		
12	1650	1800			R	R			R			R		R	
13	1800	1950						R		R	R	R	R	R	
14	1950	2100					R						R		
15	2100	2250		R		R		R	R	R	R	R		R	
16	2250	2400	R		R							R	R	R	
17	2400	2550					R	R		R	R		R	R	
18	2550	2700			R	R			R		R	R	R	R	
19	2700	2850		R			R	R		R		R		R	
20	2850	3000			R	R	R		R		R	R	R	R	

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

For concrete surrounded chambers-less reinforcement is needed

- but it is recommended that the 2nd ring down be reinforced

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