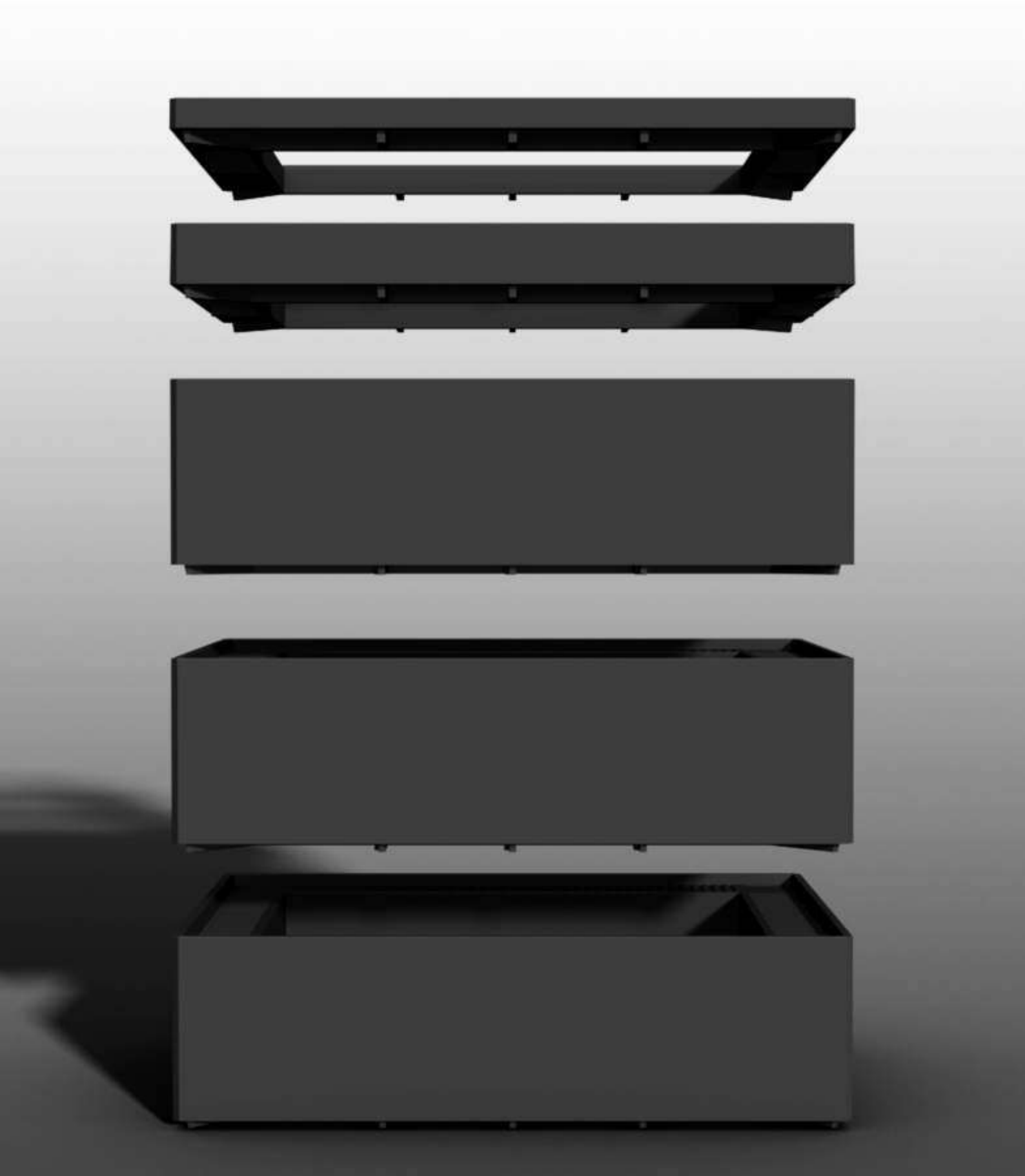
ECOLITE

Speeding up Construction With Versatile Products

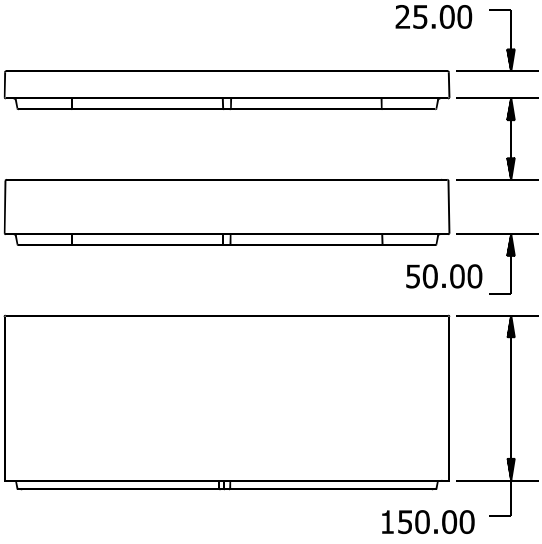


Introduction and features

What is Ecolite?

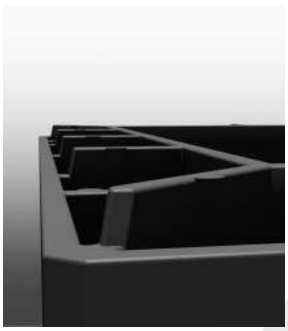
Ecolite is a range of innovative structural access chambers for underground installations. Ideal for water utilities and other ducted network applications where access chambers are required for inspection and maintenance, Ecolite is suitable for all footway and highway projects.

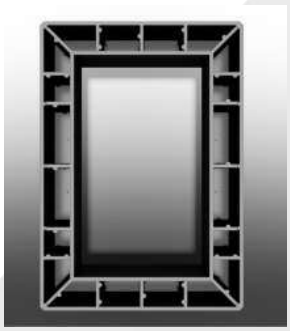
Ecolite chambers are formed by interlocking rectangular rings. Several ring sizes are available and can be placed on some pre-existing concrete chambers.



Ecolite rings come in 150mm deep, with some rings size also available in 50mm and 25mm depth lightweight and easy to install. Ecolite rings are also able to support both B125 upto F900 loadings for some sizes.(see table on next page.

Ecolite parts are manufactured from recycled polypropylene and can be recycled at the end of its life span. All Ecolite 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.





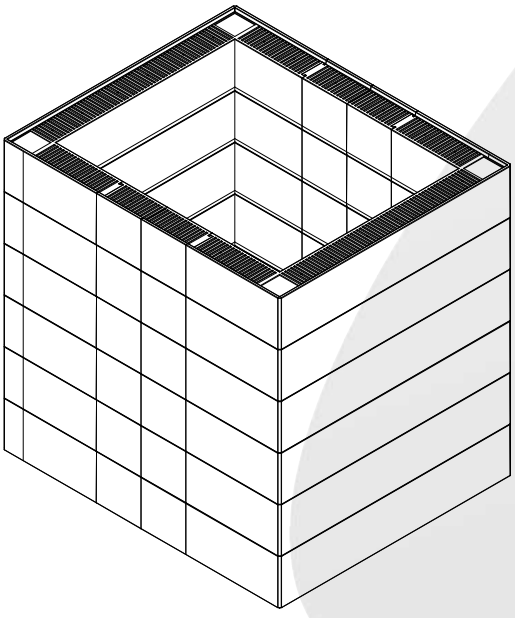
Due to its lightweight plastic construction and reinforcement webs the Ecolite will incur less breakages and can be installed without the use of lifting equipment like conventional concrete chambers.

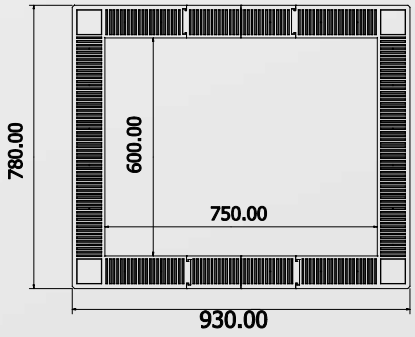
Applications
Ecolite can be used to create meter boxes, hydrant boxes and chamber for many other applications

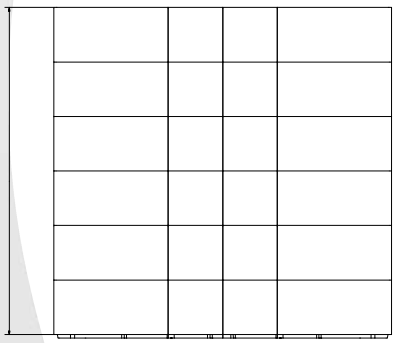
Lightweight chamber construction allows manual handling for rapid on-site installation and eliminate the machine costs associated with traditional concrete chamber construction.

Any depth is available, although greater depths on chambers of large width or breadth may need reinforcing. Please ask for further details.

Code	Product	Load Class	Weight in Kgs	Length in mm	Width in mm	Height in mm	Wall Width in mm
ME151525	150 x 150 x 25mm Ecolite	C250	0.40	230	230	25	40
ME151550	150 x 150 x 50mm Ecolite	C250	0.68	230	230	50	40
ME1515150	150 x 150 x 150mm Ecolite	C250	1.80	230	230	150	40
ME1717100	170 x 170 x 100mm Ecolite	C250	1.95	300	300	100	65
ME1717150	170 x 170 x 150mm Ecolite	C250	2.80	300	300	150	65
ME2323100	230 x 230 x 100mm Ecolite	C250	2.52	360	360	100	65
ME2323150	230 x 230 x 150mm Ecolite	C250	3.73	360	360	150	65
MEBASE	Universal Ecolite Base 170 x 170 & 230 x 230mm	C250	2.30	360	360	40	
MEBASEX	TopHat-225mm / Ecolite Univ.Base+Central Hole	C250	2.00	360	360	40	
ME3823150	380 x 230 x 150mm Ecolite	D400	4.95	510	360	150	65
ME432825	430 x 280 x 25mm Ecolite	D400	1.15	560	410	25	65
ME432850	430 x 280 x 50mm Ecolite	D400	1.93	560	410	50	65
ME432875	430 x 280 x 75mm Ecolite	D400	2.59	560	410	75	65
ME4328100	430 x 280 x 100mm Ecolite	D400	3.57	560	410	100	65
ME4328150	430 x 280 x 150mm Ecolite	D400	5.10	560	410	150	65
ME4328B	430 x 280 x 40mm base	D400	2.50	580	430	40	
ME4328B1	430 x 280 x 40mm base-central hole	D400	2.50	580	430	40	
ME4328B2	430 x 280 x 40mm base-offset hole	D400	2.50	580	430	40	
ME4328B3	430 x 280 x 40mm base-rectangular hole	D400	2.50	580	430	40	
ME3030150	300 x 300 x 150mm Ecolite	C250	4.30	430	430	150	65
ME4530150	450 x 300 x 150mm Ecolite	D400	6.24	580	480	150	65
ME4545150	450 x 450 x 150mm Ecolite	D400	5.90	580	580	150	65
ME6045150	600 x 450 x 150mm Ecolite	D400	8.62	780	630	150	90
ME6060150	600 x 600 x 150mm Ecolite	E600	10.20	780	780	150	90
ME6868150	675 x 675 x 150mm Ecolite	E600	11.48	860	860	150	90
ME7545150	750 x 450 x 150mm Ecolite	E600	9.24	930	630	150	90
ME7560150	750 x 600 x 150mm Ecolite	E600	11.16	780	930	150	90
ME7568150	750 x 675 x 150mm Ecolite	E600	11.80	930	860	150	90
ME7575150	750 x 750 x 150mm Ecolite	E600	12.12	930	930	150	90

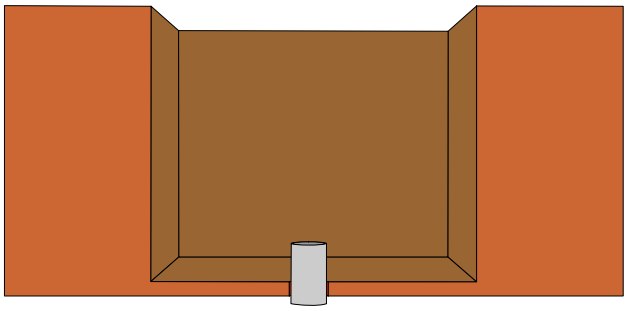






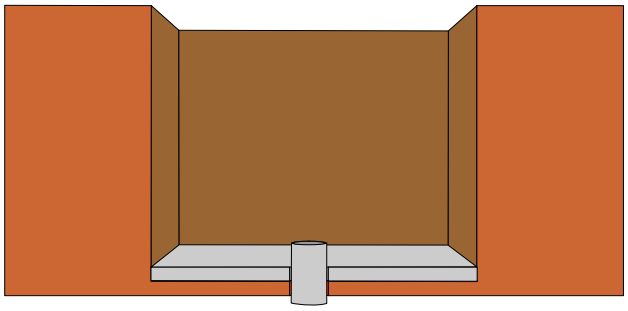
Chamber installation

1



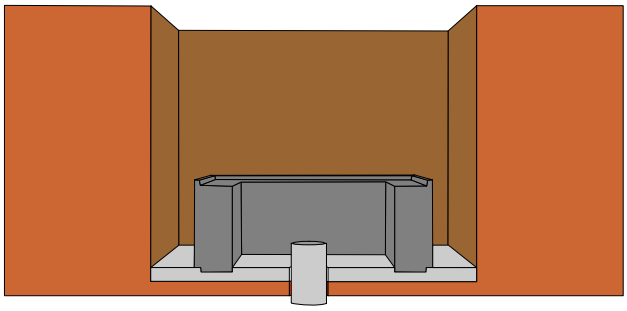
Dimensions of excavation:
Length x Width x Height. Please allow additional depth for cover and frame required plus the mortar bed.

2



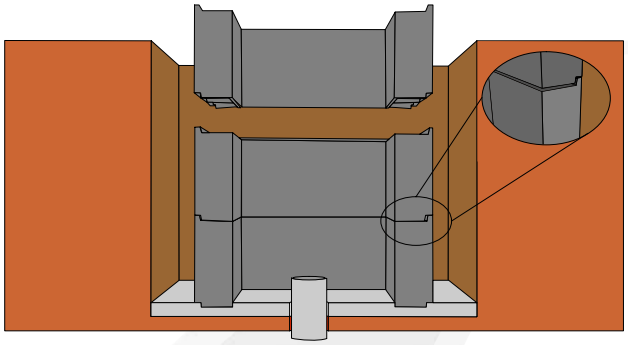
Pour a concrete base to act as the foundation. Alternatively dry mix or compacted stone may be used. Thickness of the base is of the preference of the onsite engineer.

3



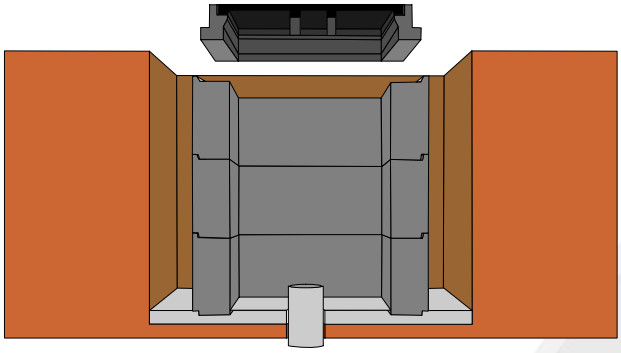
Lower the first section of the chamber into the excavation. Push the first section down into the wet cement making sure it is centered and level.

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 cured. Using mortar or grout as required.

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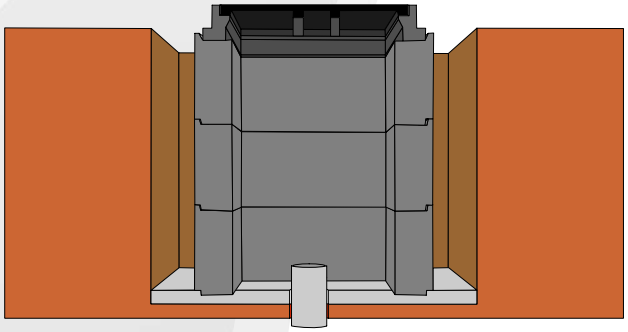
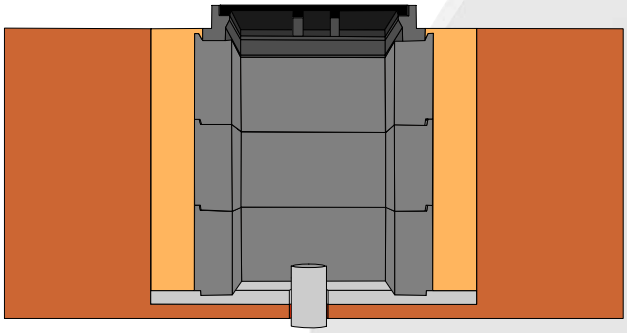


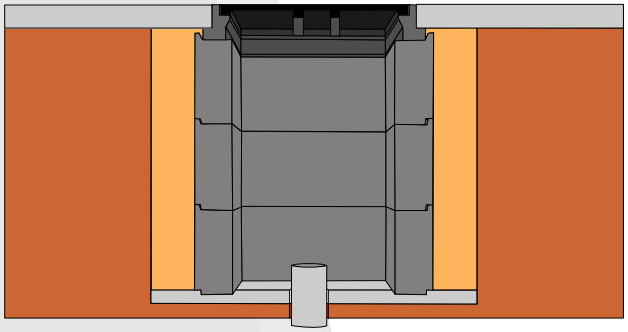
Check the fit of the access cover making sure no debris is stuck in between chamber and frame.

7



Pack the as-dug material from the excavation process into the cavity between chamber and excavation and compact it.

8



To finish off the installation, lay your finishing material up to the access chamber frames edge.