

INSUduct 63 – Frost Protection Details and Access Method Statement.

INSUduct 63 is a bespoke water service pipe protection and insulation system, designed to protect water pipes in an atmosphere of minus 12 degrees Celsius for a minimum 86 hours when correctly installed as seen in the table below.

Table to calculate the Total Hours Protection against Freezing		
1/ Select Pipe material		MDPE 80
2/ External Dia. (mm)		63
3/ Internal Dia. (Mm)		50
4/ Wall thickness of insulation mm		40
5/ Thermal conductivity of Insulation W/Mk		0.025
6/ Ambient temp Deg C.		-12
7/ Line temperature	Standard temperature	7
Hours protection with insulation.	%frost	100
Total Hours Protection	86.54	
Table based on BS 5422:2001		

- Each section of INSUduct 63 is 2m long and comprises of two interlocking sections held together by (short) self tapping screws, each section connects to its neighbour by means of a “slip joint” also held in place by self tapping screws.
- The system is held in place on the wall by means of short angle brackets, also secured into the U shaped section of INSUduct.
- Should access be required, the method statement is as follows:-
- Carefully remove any self tapping screws, setting them aside for future use, and remove the outer U Shaped section of INSUduct 63, carefully setting it aside.
- Carefully remove the insulation covering the pipe and set it aside.
- Should full access to the pipe be required, the rear U shaped section can also be removed by unscrewing the angle brackets holding it to the wall.
- Work may be carried out on the pipework as required, to re-instate the INSUduct 63, simply reverse the process noted above.

Further information can be obtained from Groundbreaker Systems.