

iH²O INSULATED PIPE



CHILLED WATER iH₂O PRE-INSULATED PIPING (R>2.2)

SERVICE PIPE/CASING: CARBON STEEL/PE100 S1 HDPE WHITE

SPECIFICATION: MIXED SCHEDULE

Service Pipe Material:

Carbon Steel (k = 46.7 W/m^oK)

Insulation Material:

DPE1783R PUR (k = 0.024 W/m^oK)

Casing Material:

PE100 S1 HDPE (k = 0.43 W/m^oK)

Pipe Diameter (mm)	Equivalent Imperial (in)	Class		NB (mm)	Casing (PE100 S1 HDPE White) --- OD/ID (mm)																						Dry & Wet mass of iH2O insulated pipe* (standard stock items)	
					160	150	200	188	225	211	250	235	280	263	355	338	400	380	450	428	500	476	560	533	630	599		
		PUR_Thk (mm)	R-Val (m²K/W)		PUR_Thk (mm)	R-Val (m²K/W)	PUR_Thk (mm)	R-Val (m²K/W)	PUR_Thk (mm)	R-Val (m²K/W)	PUR_Thk (mm)	R-Val (m²K/W)	PUR_Thk (mm)	R-Val (m²K/W)	PUR_Thk (mm)	R-Val (m²K/W)	PUR_Thk (mm)	R-Val (m²K/W)	PUR_Thk (mm)	R-Val (m²K/W)	PUR_Thk (mm)	R-Val (m²K/W)	PUR_Thk (mm)	R-Val (m²K/W)	PUR_Thk (mm)	R-Val (m²K/W)	Dry Mass of insulated pipe (kg/m)	Wet Mass or insulated pipe (kg/m)
60.3	2"	STD	3.91	52.5	45.0	3.24	63.8	4.43																	8.4	10.6		
73.0	2 1/2"	STD	5.16	62.7	38.7	2.25	57.4	3.68	69.2	4.64															11.6	14.6		
88.9	3"	STD	5.49	77.9			49.5	2.92	61.2	3.80															15.9	20.6		
114.3	4"	STD	6.02	102.3			36.8	1.94	48.5	2.70	60.3	3.51													21.8	30.0		
141.3	5"	STD	6.55	128.2					35.0	1.77	46.8	2.48	60.9	3.40											28.6	41.5		
168.3	6"	STD	7.11	154.1									47.4	2.45	84.7	4.88									36.7	55.4		
219.1	8"	20	6.35	206.4											59.3	3.04	80.7	4.36							44.9	78.3		
273.1	10"	20	6.35	260.4													53.7	2.63	77.5	4.00					55.9	109.1		
323.9	12"	20	6.35	311.2															52.1	2.49	75.9	3.80			67.2	143.2		
355.6	14"	10	6.35	342.9																	60.0	2.89	88.5	4.48			76.4	168.7
406.4	16"	10	6.35	393.7																			63.1	3.01	96.4	4.85	89.6	211.3
457.0	18"	10	6.35	444.3																			37.8	1.72	71.1	3.39	104.7	259.7
508.0	20"	10	6.35	495.3																					45.6	2.08	110.7	303.4

BLUE BLOCKS DENOTE STANDARD STOCK ITEMS

*Dry mass of insulated pipe = Service pipe mass + PUR insulation mass + Casing mass,

Wet mass of insulated pipe = Dry mass of insulated pipe + Service fluid (water) mass