

iH²O INSULATED PIPE



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

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

SPECIFICATION: SCHEDULE 40

Service Pipe Material:

Carbon Steel (k = 46.7 W/m°K)

Insulation Material:

DPE1783R PUR (k = 0.024 W/m°K)

Casing Material:

PE100 S1 HDPE (k = 0.43 W/m°K)

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
		Schedule Number	Thickness (mm)		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 of insulated pipe (kg/m)
60.3	2"	40	3.91	52.5	45.0	3.24	63.8	4.43																	8.4	10.6		
73.0	2 1/2"	40	5.16	62.7	38.7	2.25	57.4	3.68	69.2	4.64															11.6	14.6		
88.9	3"	40	5.49	77.9			49.5	2.92	61.2	3.80															15.9	20.6		
114.3	4"	40	6.02	102.3			36.8	1.94	48.5	2.70	60.3	3.51													21.8	30.0		
141.3	5"	40	6.55	128.2					35.0	1.77	46.8	2.48	60.9	3.40											28.6	41.5		
168.3	6"	40	7.11	154.1									47.4	2.45	84.7	4.88									36.7	55.4		
219.1	8"	40	8.18	202.7											59.3	3.04	80.7	4.36							54.1	86.4		
273.1	10"	40	9.27	254.6													53.7	2.63	77.5	4.00					74.4	125.3		
323.9	12"	40	10.31	303.3															52.1	2.49	75.9	3.80			97.2	169.4		
355.6	14"	40	11.13	333.3																	60.0	2.89	88.5	4.48			116.2	203.5
406.4	16"	40	12.70	381.0																			63.1	3.01	96.4	4.85	150.2	264.2
457.0	18"	40	14.27	428.5																			37.8	1.72	71.1	3.39	189.9	334.1
508.0	20"	40	15.09	477.8																					45.6	2.08	215.6	394.9

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