



HEATING WATER iH2O PRE-INSULATED PIPING (R>1.5)

SERVICE PIPE/CASING: CARBON STEEL/SPIRAL GALV STEEL

SPECIFICATION: MIXED SCHEDULE

FUNCTIONAL OPERATING TEMP: -30°C TO +85°C (PUR) ; -20 °C TO +120 °C (PIR)

All R-values are calculated based on PUR factors

Service Pipe Material:

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

Insulation Material:

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

Casing Material:

Z275 Galv Steel (k = 50 W/m^oK)

Pipe Diameter (mm)	Equivalent Imperial (in)	Class		NB (mm)	Casing (Z275 Galvanized steel--Spiral Wound) --- Outer Diameter (mm)																						Dry & Wet mass of iH2O insulated pipe* (standard stock items)	
					152		178		203		229		254		305		356		400		450		508		610			
		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 of insulated pipe (kg/m)
60.3	2"	STD	3.91	52.5	45.9	2.90	58.9	3.98																		8.2	10.4	
73.0	2 1/2"	STD	5.16	62.7	39.5	2.30	52.5	3.28																		11.4	14.5	
88.9	3"	STD	5.49	77.9	31.6	1.68	44.6	2.55	57.1	3.46																13.9	18.7	
114.3	4"	STD	6.02	102.3			31.9	1.63	44.4	2.41	57.4	3.29														19.2	27.4	
141.3	5"	STD	6.55	128.2					30.9	1.52	43.9	2.28	56.4	3.08													25.3	38.2
168.3	6"	STD	7.11	154.1							30.4	1.46	42.9	2.16	68.4	3.75											33.1	51.7
219.1	8"	20	6.35	206.4											43.0	2.08	68.5	3.57									39.2	72.6
273.1	10"	20	6.35	260.4													41.5	1.95	63.5	3.15							48.6	101.9
323.9	12"	20	6.35	311.2															38.1	1.74	63.1	3.06					57.3	133.3
355.6	14"	10	6.35	342.9																	47.2	2.19	76.2	3.74			63.7	156.1
406.4	16"	10	6.35	393.7																			50.8	2.34			73.1	194.9
457.0	18"	10	6.35	444.3																					76.5	3.64	85.2	240.2
508.0	20"	10	6.35	495.3																					51.0	2.31	91.3	283.9

RED 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