



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

SERVICE PIPE/CASING: CARBON STEEL/SPIRAL GALV STEEL

SPECIFICATION: SCHEDULE STANDARD

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/m²K)

Insulation Material:

DPE1783R PU (k = 0.024 W/m²K)

Casing Material:

Z275 Galv Steel (k = 50 W/m²K)

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"	STD	8.18	202.7											43.0	2.08	68.5	3.57									48.4	80.7
273.1	10"	STD	9.27	254.6													41.5	1.95	63.5	3.15							67.2	118.0
323.9	12"	STD	9.53	304.8															38.1	1.74	63.1	3.06					81.4	154.4
355.6	14"	STD	9.53	336.5																	47.2	2.19	76.2	3.74			90.4	179.3
406.4	16"	STD	9.53	387.3																			50.8	2.34			103.8	221.6
457.0	18"	STD	9.53	437.9																					76.5	3.64	119.8	270.4
508.0	20"	STD	9.53	488.9																					51.0	2.31	129.8	317.6

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



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

SERVICE PIPE/CASING: CARBON STEEL/SPIRAL OFF WHITE

SPECIFICATION: SCHEDULE STANDARD

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°K)

Insulation Material:

DPE1783R PUR (k = 0.024 W/m°K)

Casing Material:

Painted Steel (k = 50 W/m°K)

Pipe Diameter (mm)	Equivalent Imperial (in)	Class		NB (mm)	Casing (Off White--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 or 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"	STD	8.18	202.7											43.0	2.08	68.5	3.57							48.4	80.7		
273.1	10"	STD	9.27	254.6													41.5	1.95	63.5	3.15					67.2	118.0		
323.9	12"	STD	9.53	304.8															38.1	1.74	63.1	3.06			81.4	154.4		
355.6	14"	STD	9.53	336.5																	47.2	2.19	76.2	3.74	90.4	179.3		
406.4	16"	STD	9.53	387.3																			50.8	2.34	103.8	221.6		
457.0	18"	STD	9.53	437.9																					76.5	3.64	119.8	270.4
508.0	20"	STD	9.53	488.9																					51.0	2.31	129.8	317.6

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



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

SERVICE PIPE/CASING: CARBON STEEL/SPIRAL CAUFIELD GREEN

SPECIFICATION: SCHEDULE STANDARD

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°K)

Insulation Material:

DPE1783R PUR (k = 0.024 W/m°K)

Casing Material:

Painted Steel (k = 50 W/m°K)

Pipe Diameter (mm)	Equivalent Imperial (in)	Class		NB (mm)	Casing (Caufield Green--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"	STD	8.18	202.7											43.0	2.08	68.5	3.57							48.4	80.7		
273.1	10"	STD	9.27	254.6													41.5	1.95	63.5	3.15					67.2	118.0		
323.9	12"	STD	9.53	304.8															38.1	1.74	63.1	3.06			81.4	154.4		
355.6	14"	STD	9.53	336.5																	47.2	2.19	76.2	3.74	90.4	179.3		
406.4	16"	STD	9.53	387.3																			50.8	2.34	103.8	221.6		
457.0	18"	STD	9.53	437.9																			76.5	3.64	119.8	270.4		
508.0	20"	STD	9.53	488.9																			51.0	2.31	129.8	317.6		

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



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

SERVICE PIPE/CASING: CARBON STEEL/SPIRAL HERITAGE RED

SPECIFICATION: SCHEDULE STANDARD

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°K)

Insulation Material:

DPE1783R PUR (k = 0.024 W/m°K)

Casing Material:

Painted Steel (k = 50 W/m°K)

Pipe Diameter (mm)	Equivalent Imperial (in)	Class		NB (mm)	Casing (Heritage Red--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 or 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"	STD	8.18	202.7											43.0	2.08	68.5	3.57							48.4	80.7		
273.1	10"	STD	9.27	254.6													41.5	1.95	63.5	3.15					67.2	118.0		
323.9	12"	STD	9.53	304.8															38.1	1.74	63.1	3.06			81.4	154.4		
355.6	14"	STD	9.53	336.5																	47.2	2.19	76.2	3.74	90.4	179.3		
406.4	16"	STD	9.53	387.3																			50.8	2.34	103.8	221.6		
457.0	18"	STD	9.53	437.9																					76.5	3.64	119.8	270.4
508.0	20"	STD	9.53	488.9																					51.0	2.31	129.8	317.6

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



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

SERVICE PIPE/CASING: CARBON STEEL/SPIRAL EBONY

SPECIFICATION: SCHEDULE STANDARD

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°K)

Insulation Material:

DPE1783R PUR (k = 0.024 W/m°K)

Casing Material:

Painted Steel (k = 50 W/m°K)

Pipe Diameter (mm)	Equivalent Imperial (in)	Class		NB (mm)	Casing (Ebony--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 or 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"	STD	8.18	202.7											43.0	2.08	68.5	3.57									48.4	80.7
273.1	10"	STD	9.27	254.6													41.5	1.95	63.5	3.15							67.2	118.0
323.9	12"	STD	9.53	304.8															38.1	1.74	63.1	3.06					81.4	154.4
355.6	14"	STD	9.53	336.5																	47.2	2.19	76.2	3.74			90.4	179.3
406.4	16"	STD	9.53	387.3																			50.8	2.34			103.8	221.6
457.0	18"	STD	9.53	437.9																					76.5	3.64	119.8	270.4
508.0	20"	STD	9.53	488.9																					51.0	2.31	129.8	317.6

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



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

SERVICE PIPE/CASING: CARBON STEEL/SPIRAL ALUMINUM

SPECIFICATION: SCHEDULE STANDARD

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°K)

Insulation Material:

DPE1783R PUR (k = 0.024 W/m°K)

Casing Material:

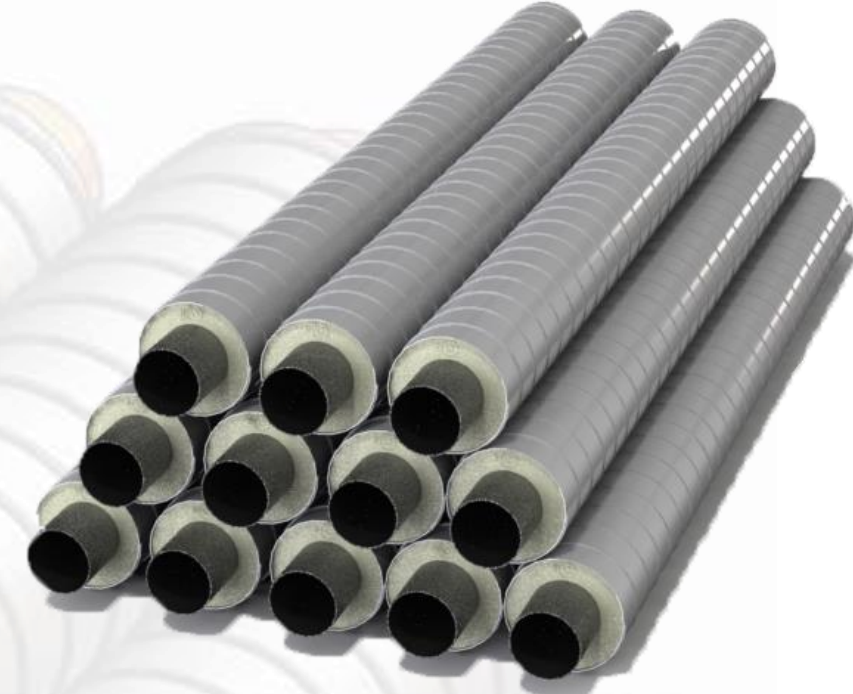
Aluminum (k = 205 W/m°K)

Pipe Diameter (mm)	Equivalent Imperial (in)	Class		NB (mm)	Casing (Aluminum--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 or insulated pipe (kg/m)
60.3	2"	STD	3.91	52.5	45.9	2.90	58.9	3.98																	7.1	9.3		
73.0	2 1/2"	STD	5.16	62.7	39.5	2.30	52.5	3.28																	10.2	13.3		
88.9	3"	STD	5.49	77.9	31.6	1.68	44.6	2.55	57.1	3.46															12.8	17.6		
114.3	4"	STD	6.02	102.3			31.9	1.63	44.4	2.41	57.4	3.29													17.9	26.1		
141.3	5"	STD	6.55	128.2					30.9	1.52	43.9	2.28	56.4	3.08											23.8	36.7		
168.3	6"	STD	7.11	154.1							30.4	1.46	42.9	2.16	68.4	3.75									31.2	49.8		
219.1	8"	STD	8.18	202.7											43.0	2.08	68.5	3.57							46.1	78.4		
273.1	10"	STD	9.27	254.6													41.5	1.95	63.5	3.15					64.5	115.4		
323.9	12"	STD	9.53	304.8															38.1	1.74	63.1	3.06			78.4	151.4		
355.6	14"	STD	9.53	336.5																	47.2	2.19	76.2	3.74	87.0	175.9		
406.4	16"	STD	9.53	387.3																			50.8	2.34	99.9	217.8		
457.0	18"	STD	9.53	437.9																					76.5	3.64	115.2	265.8
508.0	20"	STD	9.53	488.9																					51.0	2.31	125.2	313.0

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



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

SERVICE PIPE/CASING: CARBON STEEL/SPIRAL STAINLESS STEEL

SPECIFICATION: SCHEDULE STANDARD

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°K)

Insulation Material:

DPE1783R PUR (k = 0.024 W/m°K)

Casing Material:

316L Stainless Steel (k = 13 W/m°K)

Pipe Diameter (mm)	Equivalent Imperial (in)	Class		NB (mm)	Casing (Stainless Steel 316L--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																		8.1	10.3	
73.0	2 1/2"	STD	5.16	62.7	39.5	2.30	52.5	3.28																		11.2	14.3	
88.9	3"	STD	5.49	77.9	31.6	1.68	44.6	2.55	57.1	3.46																13.8	18.6	
114.3	4"	STD	6.02	102.3			31.9	1.63	44.4	2.41	57.4	3.29														19.0	27.3	
141.3	5"	STD	6.55	128.2					30.9	1.52	43.9	2.28	56.4	3.08												25.1	38.1	
168.3	6"	STD	7.11	154.1							30.4	1.46	42.9	2.16	68.4	3.75										32.9	51.5	
219.1	8"	STD	8.18	202.7											43.0	2.08	68.5	3.57								48.1	80.4	
273.1	10"	STD	9.27	254.6													41.5	1.95	63.5	3.15						66.8	117.7	
323.9	12"	STD	9.53	304.8															38.1	1.74	63.1	3.06				81.1	154.1	
355.6	14"	STD	9.53	336.5																	47.2	2.19	76.2	3.74		90.0	178.9	
406.4	16"	STD	9.53	387.3																			50.8	2.34		103.3	221.1	
457.0	18"	STD	9.53	437.9																					76.5	3.64	119.2	269.9
508.0	20"	STD	9.53	488.9																					51.0	2.31	129.3	317.0

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



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

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

SPECIFICATION: SCHEDULE STANDARD

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°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 Black) --- OD/ID (mm)																						Dry & Wet mass of iH2O insulated pipe* (standard stock items)	
					160	150	200	188	225	211	250	235	315	296	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 of 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																	11.6	14.6		
88.9	3"	STD	5.49	77.9	30.7	1.64	49.5	2.92	61.2	3.80															14.1	18.9		
114.3	4"	STD	6.02	102.3			36.8	1.94	48.5	2.70	60.3	3.51													20.5	28.7		
141.3	5"	STD	6.55	128.2					35.0	1.77	46.8	2.48	77.3	4.54											27.2	40.1		
168.3	6"	STD	7.11	154.1							33.3	1.63	63.8	3.47											34.8	53.4		
219.1	8"	STD	8.18	202.7									38.4	1.86	59.3	3.04									52.8	85.1		
273.1	10"	STD	9.27	254.6									32.3	1.50	53.7	2.63									74.4	125.3		
323.9	12"	STD	9.53	304.8											28.3	1.29	52.1	2.49							91.3	164.3		
355.6	14"	STD	9.53	336.5													36.2	1.67	60.0	2.89					97.9	186.9		
406.4	16"	STD	9.53	387.3															34.6	1.57	63.1	3.01			113.4	231.3		
457.0	18"	STD	9.53	437.9																	37.8	1.72	71.1	3.39	130.4	281.0		
508.0	20"	STD	9.53	488.9																			45.6	2.08	149.3	337.1		

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



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

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

SPECIFICATION: SCHEDULE STANDARD

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°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	315	296	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																	11.6	14.6				
88.9	3"	STD	5.49	77.9	30.7	1.64	49.5	2.92	61.2	3.80															14.1	18.9				
114.3	4"	STD	6.02	102.3			36.8	1.94	48.5	2.70	60.3	3.51													20.5	28.7				
141.3	5"	STD	6.55	128.2					35.0	1.77	46.8	2.48	77.3	4.54											27.2	40.1				
168.3	6"	STD	7.11	154.1							33.3	1.63	63.8	3.47											34.8	53.4				
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273.1	10"	STD	9.27	254.6											32.3	1.50	53.7	2.63							74.4	125.3				
323.9	12"	STD	9.53	304.8											28.3	1.29	52.1	2.49							91.3	164.3				
355.6	14"	STD	9.53	336.5													36.2	1.67	60.0	2.89					97.9	186.9				
406.4	16"	STD	9.53	387.3															34.6	1.57	63.1	3.01			113.4	231.3				
457.0	18"	STD	9.53	437.9																	37.8	1.72	71.1	3.39	130.4	281.0				
508.0	20"	STD	9.53	488.9																			45.6	2.08	149.3	337.1				

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