



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

SERVICE PIPE/CASING: CARBON STEEL/SPIRAL GALV STEEL

SPECIFICATION: SCHEDULE 40

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<sup>2</sup>K)

### Insulation Material:

DPE1783R PU (k = 0.024 W/m<sup>2</sup>K)

### Casing Material:

Z275 Galv Steel (k = 50 W/m<sup>2</sup>K)

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"	40	3.91	52.5	45.9	2.90	58.9	3.98																		8.2	10.4	
73.0	2 1/2"	40	5.16	62.7	39.5	2.30	52.5	3.28																		11.4	14.5	
88.9	3"	40	5.49	77.9	31.6	1.68	44.6	2.55	57.1	3.46																13.9	18.7	
114.3	4"	40	6.02	102.3			31.9	1.63	44.4	2.41	57.4	3.29														19.2	27.4	
141.3	5"	40	6.55	128.2					30.9	1.52	43.9	2.28	56.4	3.08												25.3	38.2	
168.3	6"	40	7.11	154.1							30.4	1.46	42.9	2.16	68.4	3.75										33.1	51.7	
219.1	8"	40	8.18	202.7											43.0	2.08	68.5	3.57								48.4	80.7	
273.1	10"	40	9.27	254.6													41.5	1.95	63.5	3.15						67.2	118.0	
323.9	12"	40	10.31	303.3															38.1	1.74	63.1	3.06				87.3	159.5	
355.6	14"	40	11.13	333.3																	47.2	2.19	76.2	3.74		103.6	190.9	
406.4	16"	40	12.70	381.0																			50.8	2.34		133.8	247.8	
457.0	18"	40	14.27	428.5																					76.5	3.64	170.4	314.6
508.0	20"	40	15.09	477.8																					51.0	2.31	196.1	375.4

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 40

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"	40	3.91	52.5	45.9	2.90	58.9	3.98																			8.2	10.4
73.0	2 1/2"	40	5.16	62.7	39.5	2.30	52.5	3.28																			11.4	14.5
88.9	3"	40	5.49	77.9	31.6	1.68	44.6	2.55	57.1	3.46																	13.9	18.7
114.3	4"	40	6.02	102.3			31.9	1.63	44.4	2.41	57.4	3.29															19.2	27.4
141.3	5"	40	6.55	128.2					30.9	1.52	43.9	2.28	56.4	3.08													25.3	38.2
168.3	6"	40	7.11	154.1							30.4	1.46	42.9	2.16	68.4	3.75											33.1	51.7
219.1	8"	40	8.18	202.7											43.0	2.08	68.5	3.57									48.4	80.7
273.1	10"	40	9.27	254.6													41.5	1.95	63.5	3.15							67.2	118.0
323.9	12"	40	10.31	303.3															38.1	1.74	63.1	3.06					87.3	159.5
355.6	14"	40	11.13	333.3																	47.2	2.19	76.2	3.74			103.6	190.9
406.4	16"	40	12.70	381.0																			50.8	2.34			133.8	247.8
457.0	18"	40	14.27	428.5																					76.5	3.64	170.4	314.6
508.0	20"	40	15.09	477.8																					51.0	2.31	196.1	375.4

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 40

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"	40	3.91	52.5	45.9	2.90	58.9	3.98																		8.2	10.4		
73.0	2 1/2"	40	5.16	62.7	39.5	2.30	52.5	3.28																			11.4	14.5	
88.9	3"	40	5.49	77.9	31.6	1.68	44.6	2.55	57.1	3.46																	13.9	18.7	
114.3	4"	40	6.02	102.3			31.9	1.63	44.4	2.41	57.4	3.29															19.2	27.4	
141.3	5"	40	6.55	128.2					30.9	1.52	43.9	2.28	56.4	3.08														25.3	38.2
168.3	6"	40	7.11	154.1							30.4	1.46	42.9	2.16	68.4	3.75												33.1	51.7
219.1	8"	40	8.18	202.7											43.0	2.08	68.5	3.57										48.4	80.7
273.1	10"	40	9.27	254.6													41.5	1.95	63.5	3.15								67.2	118.0
323.9	12"	40	10.31	303.3															38.1	1.74	63.1	3.06						87.3	159.5
355.6	14"	40	11.13	333.3																	47.2	2.19	76.2	3.74				103.6	190.9
406.4	16"	40	12.70	381.0																			50.8	2.34				133.8	247.8
457.0	18"	40	14.27	428.5																					76.5	3.64		170.4	314.6
508.0	20"	40	15.09	477.8																					51.0	2.31		196.1	375.4

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 40

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 of insulated pipe (kg/m)
60.3	2"	40	3.91	52.5	45.9	2.90	58.9	3.98																		8.2	10.4	
73.0	2 1/2"	40	5.16	62.7	39.5	2.30	52.5	3.28																		11.4	14.5	
88.9	3"	40	5.49	77.9	31.6	1.68	44.6	2.55	57.1	3.46																13.9	18.7	
114.3	4"	40	6.02	102.3			31.9	1.63	44.4	2.41	57.4	3.29														19.2	27.4	
141.3	5"	40	6.55	128.2					30.9	1.52	43.9	2.28	56.4	3.08													25.3	38.2
168.3	6"	40	7.11	154.1							30.4	1.46	42.9	2.16	68.4	3.75											33.1	51.7
219.1	8"	40	8.18	202.7											43.0	2.08	68.5	3.57									48.4	80.7
273.1	10"	40	9.27	254.6													41.5	1.95	63.5	3.15							67.2	118.0
323.9	12"	40	10.31	303.3															38.1	1.74	63.1	3.06					87.3	159.5
355.6	14"	40	11.13	333.3																	47.2	2.19	76.2	3.74			103.6	190.9
406.4	16"	40	12.70	381.0																			50.8	2.34			133.8	247.8
457.0	18"	40	14.27	428.5																					76.5	3.64	170.4	314.6
508.0	20"	40	15.09	477.8																					51.0	2.31	196.1	375.4

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 40

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 of insulated pipe (kg/m)
60.3	2"	40	3.91	52.5	45.9	2.90	58.9	3.98																	8.2	10.4		
73.0	2 1/2"	40	5.16	62.7	39.5	2.30	52.5	3.28																	11.4	14.5		
88.9	3"	40	5.49	77.9	31.6	1.68	44.6	2.55	57.1	3.46															13.9	18.7		
114.3	4"	40	6.02	102.3			31.9	1.63	44.4	2.41	57.4	3.29													19.2	27.4		
141.3	5"	40	6.55	128.2					30.9	1.52	43.9	2.28	56.4	3.08											25.3	38.2		
168.3	6"	40	7.11	154.1							30.4	1.46	42.9	2.16	68.4	3.75									33.1	51.7		
219.1	8"	40	8.18	202.7									43.0	2.08	68.5	3.57									48.4	80.7		
273.1	10"	40	9.27	254.6											41.5	1.95	63.5	3.15							67.2	118.0		
323.9	12"	40	10.31	303.3													38.1	1.74	63.1	3.06					87.3	159.5		
355.6	14"	40	11.13	333.3															47.2	2.19	76.2	3.74			103.6	190.9		
406.4	16"	40	12.70	381.0																	50.8	2.34			133.8	247.8		
457.0	18"	40	14.27	428.5																			76.5	3.64	170.4	314.6		
508.0	20"	40	15.09	477.8																			51.0	2.31	196.1	375.4		

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 40

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 of insulated pipe (kg/m)
60.3	2"	40	3.91	52.5	45.9	2.90	58.9	3.98																		7.1	9.3	
73.0	2 1/2"	40	5.16	62.7	39.5	2.30	52.5	3.28																		10.2	13.3	
88.9	3"	40	5.49	77.9	31.6	1.68	44.6	2.55	57.1	3.46																12.8	17.6	
114.3	4"	40	6.02	102.3			31.9	1.63	44.4	2.41	57.4	3.29														17.9	26.1	
141.3	5"	40	6.55	128.2					30.9	1.52	43.9	2.28	56.4	3.08												23.8	36.7	
168.3	6"	40	7.11	154.1							30.4	1.46	42.9	2.16	68.4	3.75										31.2	49.8	
219.1	8"	40	8.18	202.7											43.0	2.08	68.5	3.57								46.1	78.4	
273.1	10"	40	9.27	254.6													41.5	1.95	63.5	3.15						64.5	115.4	
323.9	12"	40	10.31	303.3															38.1	1.74	63.1	3.06				84.3	156.5	
355.6	14"	40	11.13	333.3																	47.2	2.19	76.2	3.74		100.2	187.5	
406.4	16"	40	12.70	381.0																			50.8	2.34		130.0	244.0	
457.0	18"	40	14.27	428.5																					76.5	3.64	165.8	310.0
508.0	20"	40	15.09	477.8																					51.0	2.31	191.5	370.8

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 40

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 or insulated pipe (kg/m)
60.3	2"	40	3.91	52.5	45.9	2.90	58.9	3.98																		8.1	10.3	
73.0	2 1/2"	40	5.16	62.7	39.5	2.30	52.5	3.28																		11.2	14.3	
88.9	3"	40	5.49	77.9	31.6	1.68	44.6	2.55	57.1	3.46																13.8	18.6	
114.3	4"	40	6.02	102.3			31.9	1.63	44.4	2.41	57.4	3.29														19.0	27.3	
141.3	5"	40	6.55	128.2					30.9	1.52	43.9	2.28	56.4	3.08												25.1	38.1	
168.3	6"	40	7.11	154.1							30.4	1.46	42.9	2.16	68.4	3.75										32.9	51.5	
219.1	8"	40	8.18	202.7											43.0	2.08	68.5	3.57								48.1	80.4	
273.1	10"	40	9.27	254.6													41.5	1.95	63.5	3.15						66.8	117.7	
323.9	12"	40	10.31	303.3															38.1	1.74	63.1	3.06				86.9	159.2	
355.6	14"	40	11.13	333.3																	47.2	2.19	76.2	3.74		103.2	190.5	
406.4	16"	40	12.70	381.0																			50.8	2.34		133.3	247.3	
457.0	18"	40	14.27	428.5																					76.5	3.64	169.9	314.1
508.0	20"	40	15.09	477.8																					51.0	2.31	195.6	374.9

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



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

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

SPECIFICATION: SCHEDULE 40

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"	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																	11.6	14.6		
88.9	3"	40	5.49	77.9	30.7	1.64	49.5	2.92	61.2	3.80															14.1	18.9		
114.3	4"	40	6.02	102.3			36.8	1.94	48.5	2.70	60.3	3.51													20.5	28.7		
141.3	5"	40	6.55	128.2					35.0	1.77	46.8	2.48	77.3	4.54											27.2	40.1		
168.3	6"	40	7.11	154.1							33.3	1.63	63.8	3.47											34.8	53.4		
219.1	8"	40	8.18	202.7									38.4	1.86	59.3	3.04									52.8	85.1		
273.1	10"	40	9.27	254.6											32.3	1.50	53.7	2.63							74.4	125.3		
323.9	12"	40	10.31	303.3													28.3	1.29	52.1	2.49					97.2	169.4		
355.6	14"	40	11.13	333.3															36.2	1.67	60.0	2.89			111.2	198.4		
406.4	16"	40	12.70	381.0																	34.6	1.57	63.1	3.01			143.5	257.5
457.0	18"	40	14.27	428.5																			37.8	1.72	71.1	3.39	181.0	325.2
508.0	20"	40	15.09	477.8																					45.6	2.08	215.6	394.9

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





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

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

SPECIFICATION: SCHEDULE 40

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"	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																	11.6	14.6		
88.9	3"	40	5.49	77.9	30.7	1.64	49.5	2.92	61.2	3.80															14.1	18.9		
114.3	4"	40	6.02	102.3			36.8	1.94	48.5	2.70	60.3	3.51													20.5	28.7		
141.3	5"	40	6.55	128.2					35.0	1.77	46.8	2.48	77.3	4.54											27.2	40.1		
168.3	6"	40	7.11	154.1							33.3	1.63	63.8	3.47											34.8	53.4		
219.1	8"	40	8.18	202.7									38.4	1.86	59.3	3.04									52.8	85.1		
273.1	10"	40	9.27	254.6											32.3	1.50	53.7	2.63							74.4	125.3		
323.9	12"	40	10.31	303.3											28.3	1.29	52.1	2.49							97.2	169.4		
355.6	14"	40	11.13	333.3													36.2	1.67	60.0	2.89					111.2	198.4		
406.4	16"	40	12.70	381.0															34.6	1.57	63.1	3.01			143.5	257.5		
457.0	18"	40	14.27	428.5																	37.8	1.72	71.1	3.39	181.0	325.2		
508.0	20"	40	15.09	477.8																			45.6	2.08	215.6	394.9		

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