



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

SERVICE PIPE/CASING: STAINLESS 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/ OD (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		330		400		450		508		610		711			
		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)	PUR_Thk (mm)	R-Val (m²K/W)	Dry Mass of insulated pipe (kg/m)	Wet Mass of insulated pipe (kg/m)
60.3	2"	40s	3.91	52.5	45.9	2.90	58.9	3.98																					8.3	10.5
73.0	2 1/2"	40s	5.16	62.7	39.5	2.30	52.5	3.28																					11.5	14.6
88.9	3"	40s	5.49	77.9	31.6	1.68	44.6	2.55	57.1	3.46																			14.1	18.9
114.3	4"	40s	6.02	102.3			31.9	1.63	44.4	2.41	57.4	3.29																	19.5	27.7
141.3	5"	40s	6.55	128.2					30.9	1.52	43.9	2.28	56.4	3.08															25.7	38.7
168.3	6"	40s	7.11	154.1							30.4	1.46	42.9	2.16	68.4	3.75													33.6	52.3
219.1	8"	40s	8.18	202.7											43.0	2.08	55.5	2.79											49.2	81.5
273.1	10"	40s	9.27	254.6													28.5	1.29	63.5	3.15									70.2	121.1
323.9	12"	40s	9.53	304.8															38.1	1.74	63.1	3.06							82.8	155.8
355.6	14"	STD	9.53	336.5																	47.2	2.19	76.2	3.74					91.9	180.9
406.4	16"	STD	9.53	387.3																			50.8	2.34					105.5	223.4
457	18"	STD	11.13	434.7																					76.5	3.64			139.3	287.8
508.0	20"	STD	12.70	482.6																					51.0	2.31			170.8	353.7
559.0	22"	STD	12.70	533.6																							76.0	3.53	191.5	415.2
610.0	24"	STD	14.27	581.5																							50.5	2.25	228.5	494.0

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

iH²O INSULATED PIPE



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

SERVICE PIPE/CASING: STAINLESS STEEL/SPIRAL OFF WHITE

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:

Stainless Steel (k = 13 W/m⁰K)

Insulation Material:

DPE1783R PUR (k = 0.024 W/m⁰K)

Casing Material:

Painted Steel (k = 50 W/m⁰K)

Pipe Diameter/ OD (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		330		400		450		508		610		711			
		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)	PUR_Thk (mm)	R-Val (m²K/W)	Dry Mass of insulated pipe (kg/m)	Wet Mass of insulated pipe (kg/m)
60.3	2"	40s	3.91	52.5	45.9	2.90	58.9	3.98																				8.3	10.5	
73.0	2 1/2"	40s	5.16	62.7	39.5	2.30	52.5	3.28																				11.5	14.6	
88.9	3"	40s	5.49	77.9	31.6	1.68	44.6	2.55	57.1	3.46																	14.1	18.9		
114.3	4"	40s	6.02	102.3			31.9	1.63	44.4	2.41	57.4	3.29															19.5	27.7		
141.3	5"	40s	6.55	128.2					30.9	1.52	43.9	2.28	56.4	3.08													25.7	38.7		
168.3	6"	40s	7.11	154.1							30.4	1.46	42.9	2.16	68.4	3.75											33.6	52.3		
219.1	8"	40s	8.18	202.7											43.0	2.08	55.5	2.79									49.2	81.5		
273.1	10"	40s	9.27	254.6													28.5	1.29	63.5	3.15							70.2	121.1		
323.9	12"	40s	9.53	304.8															38.1	1.74	63.1	3.06					82.8	155.8		
355.6	14"	STD	9.53	336.5																	47.2	2.19	76.2	3.74			91.9	180.9		
406.4	16"	STD	9.53	387.3																			50.8	2.34			105.5	223.4		
457	18"	STD	11.13	434.7																					76.5	3.64	139.3	287.8		
508.0	20"	STD	12.70	482.6																					51.0	2.31	170.8	353.7		
559.0	22"	STD	12.70	533.6																						76.0	3.53	191.5	415.2	
610.0	24"	STD	14.27	581.5																						50.5	2.25	228.5	494.0	

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

iH²O INSULATED PIPE



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

SERVICE PIPE/CASING: STAINLESS STEEL/SPIRAL HERITAGE RED

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:

Stainless Steel (k = 13 W/m°K)

Insulation Material:

DPE1783R PUR (k = 0.024 W/m°K)

Casing Material:

Painted Steel (k = 50 W/m°K)

Pipe Diameter/ OD (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		330		400		450		508		610		711			
		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)	PUR_Thk (mm)	R-Val (m²K/W)	Dry Mass of insulated pipe (kg/m)	Wet Mass of insulated pipe (kg/m)
60.3	2"	40s	3.91	52.5	45.9	2.90	58.9	3.98																				8.3	10.5	
73.0	2 1/2"	40s	5.16	62.7	39.5	2.30	52.5	3.28																				11.5	14.6	
88.9	3"	40s	5.49	77.9	31.6	1.68	44.6	2.55	57.1	3.46																		14.1	18.9	
114.3	4"	40s	6.02	102.3			31.9	1.63	44.4	2.41	57.4	3.29																19.5	27.7	
141.3	5"	40s	6.55	128.2					30.9	1.52	43.9	2.28	56.4	3.08															25.7	38.7
168.3	6"	40s	7.11	154.1							30.4	1.46	42.9	2.16	68.4	3.75													33.6	52.3
219.1	8"	40s	8.18	202.7											43.0	2.08	55.5	2.79											49.2	81.5
273.1	10"	40s	9.27	254.6													28.5	1.29	63.5	3.15									70.2	121.1
323.9	12"	40s	9.53	304.8															38.1	1.74	63.1	3.06							82.8	155.8
355.6	14"	STD	9.53	336.5																	47.2	2.19	76.2	3.74					91.9	180.9
406.4	16"	STD	9.53	387.3																			50.8	2.34					105.5	223.4
457	18"	STD	11.13	434.7																					76.5	3.64			139.3	287.8
508.0	20"	STD	12.70	482.6																					51.0	2.31			170.8	353.7
559.0	22"	STD	12.70	533.6																							76.0	3.53	191.5	415.2
610.0	24"	STD	14.27	581.5																							50.5	2.25	228.5	494.0

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

iH²O INSULATED PIPE



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

SERVICE PIPE/CASING: STAINLESS STEEL/SPIRAL CAUFIELD GREEN

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:

Stainless Steel (k = 13 W/m⁰K)

Insulation Material:

DPE1783R PUR (k = 0.024 W/m⁰K)

Casing Material:

Painted Steel (k = 50 W/m⁰K)

Pipe Diameter/ OD (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		330		400		450		508		610		711			
		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)	PUR_Thk (mm)	R-Val (m²K/W)	Dry Mass of insulated pipe (kg/m)	Wet Mass of insulated pipe (kg/m)
60.3	2"	40s	3.91	52.5	45.9	2.90	58.9	3.98																			8.3	10.5		
73.0	2 1/2"	40s	5.16	62.7	39.5	2.30	52.5	3.28																			11.5	14.6		
88.9	3"	40s	5.49	77.9	31.6	1.68	44.6	2.55	57.1	3.46																	14.1	18.9		
114.3	4"	40s	6.02	102.3			31.9	1.63	44.4	2.41	57.4	3.29															19.5	27.7		
141.3	5"	40s	6.55	128.2					30.9	1.52	43.9	2.28	56.4	3.08													25.7	38.7		
168.3	6"	40s	7.11	154.1							30.4	1.46	42.9	2.16	68.4	3.75											33.6	52.3		
219.1	8"	40s	8.18	202.7											43.0	2.08	55.5	2.79									49.2	81.5		
273.1	10"	40s	9.27	254.6													28.5	1.29	63.5	3.15							70.2	121.1		
323.9	12"	40s	9.53	304.8															38.1	1.74	63.1	3.06					82.8	155.8		
355.6	14"	STD	9.53	336.5																	47.2	2.19	76.2	3.74			91.9	180.9		
406.4	16"	STD	9.53	387.3																			50.8	2.34			105.5	223.4		
457	18"	STD	11.13	434.7																					76.5	3.64	139.3	287.8		
508.0	20"	STD	12.70	482.6																					51.0	2.31	170.8	353.7		
559.0	22"	STD	12.70	533.6																					76.0	3.53	191.5	415.2		
610.0	24"	STD	14.27	581.5																					50.5	2.25	228.5	494.0		

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

iH²O INSULATED PIPE



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

SERVICE PIPE/CASING: STAINLESS STEEL/SPIRAL EBONY

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:

Stainless Steel (k = 13 W/m°K)

Insulation Material:

DPE1783R PUR (k = 0.024 W/m°K)

Casing Material:

Painted Steel (k = 50 W/m°K)

Casing (Ebony--Spiral Wound) --- Outer Diameter (mm)

Dry & Wet mass of iH2O insulated pipe* (standard stock items)

Pipe Diameter/ OD (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		330		400		450		508		610		711					
		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)	PUR_Thk (mm)	R-Val (m²K/W)	Dry Mass of insulated pipe (kg/m)	Wet Mass of insulated pipe (kg/m)		
60.3	2"	40s	3.91	52.5	45.9	2.90	58.9	3.98																				8.3	10.5			
73.0	2 1/2"	40s	5.16	62.7	39.5	2.30	52.5	3.28																				11.5	14.6			
88.9	3"	40s	5.49	77.9	31.6	1.68	44.6	2.55	57.1	3.46																		14.1	18.9			
114.3	4"	40s	6.02	102.3			31.9	1.63	44.4	2.41	57.4	3.29																19.5	27.7			
141.3	5"	40s	6.55	128.2					30.9	1.52	43.9	2.28	56.4	3.08														25.7	38.7			
168.3	6"	40s	7.11	154.1							30.4	1.46	42.9	2.16	68.4	3.75												33.6	52.3			
219.1	8"	40s	8.18	202.7											43.0	2.08	55.5	2.79										49.2	81.5			
273.1	10"	40s	9.27	254.6													28.5	1.29	63.5	3.15								70.2	121.1			
323.9	12"	40s	9.53	304.8															38.1	1.74	63.1	3.06						82.8	155.8			
355.6	14"	STD	9.53	336.5																	47.2	2.19	76.2	3.74				91.9	180.9			
406.4	16"	STD	9.53	387.3																			50.8	2.34				105.5	223.4			
457	18"	STD	11.13	434.7																						76.5	3.64	139.3	287.8			
508.0	20"	STD	12.70	482.6																						51.0	2.31	170.8	353.7			
559.0	22"	STD	12.70	533.6																							76.0	3.53	191.5	415.2		
610.0	24"	STD	14.27	581.5																							50.5	2.25	228.5	494.0		

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

iH²O INSULATED PIPE



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

SERVICE PIPE/CASING: STAINLESS STEEL/SPIRAL ALUMINUM

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:

Stainless Steel (k = 13 W/m^oK)

Insulation Material:

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

Casing Material:

Aluminum (k = 205 W/m^oK)

Pipe Diameter/ OD (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		330		400		450		508		610		711			
		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)	PUR_Thk (mm)	R-Val (m²K/W)	Dry Mass of insulated pipe (kg/m)	Wet Mass of insulated pipe (kg/m)
60.3	2"	40s	3.91	52.5	45.9	2.90	58.9	3.98																				7.2	9.4	
73.0	2 1/2"	40s	5.16	62.7	39.5	2.30	52.5	3.28																				10.4	13.5	
88.9	3"	40s	5.49	77.9	31.6	1.68	44.6	2.55	57.1	3.46																		13.0	17.8	
114.3	4"	40s	6.02	102.3			31.9	1.63	44.4	2.41	57.4	3.29																18.2	26.4	
141.3	5"	40s	6.55	128.2					30.9	1.52	43.9	2.28	56.4	3.08															24.2	37.1
168.3	6"	40s	7.11	154.1							30.4	1.46	42.9	2.16	68.4	3.75													31.7	50.4
219.1	8"	40s	8.18	202.7											43.0	2.08	55.5	2.79											46.9	79.2
273.1	10"	40s	9.27	254.6													28.5	1.29	63.5	3.15									67.2	118.1
323.9	12"	40s	9.53	304.8															38.1	1.74	63.1	3.06							79.8	152.8
355.6	14"	STD	9.53	336.5																	47.2	2.19	76.2	3.74					88.5	177.5
406.4	16"	STD	9.53	387.3																			50.8	2.34					101.7	219.6
457	18"	STD	11.13	434.7																					76.5	3.64			134.8	283.2
508.0	20"	STD	12.70	482.6																					51.0	2.31			166.2	349.1
559.0	22"	STD	12.70	533.6																							76.0	3.53	186.2	409.8
610.0	24"	STD	14.27	581.5																							50.5	2.25	223.1	488.7

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: STAINLESS STEEL/SPIRAL STAINLESS 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:

Stainless Steel (k = 13 W/m^oK)

Insulation Material:

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

Casing Material:

316L Stainless Steel (k = 13 W/m^oK)

Pipe Diameter/ OD (mm)	Equivalent Imperial (in)	Class		NB (mm)	Casing (316L Stainless Steel--Spiral Wound) --- Outer Diameter (mm)																								Dry & Wet mass of iH2O insulated pipe* (standard stock items)	
					152		178		203		229		254		305		330		400		450		508		610		711			
		Schedule	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)	PUR_Thk (mm)	R-Val (m²K/W)	Dry Mass of insulated pipe (kg/m)	Wet Mass of insulated pipe (kg/m)
60.3	2"	40s	3.91	52.5	45.9	2.90	58.9	3.98																					8.2	10.4
73.0	2 1/2"	40s	5.16	62.7	39.5	2.30	52.5	3.28																					11.4	14.5
88.9	3"	40s	5.49	77.9	31.6	1.68	44.6	2.55	57.1	3.46																			14.0	18.8
114.3	4"	40s	6.02	102.3			31.9	1.63	44.4	2.41	57.4	3.29																	19.3	27.6
141.3	5"	40s	6.55	128.2					30.9	1.52	43.9	2.28	56.4	3.08															25.6	38.5
168.3	6"	40s	7.11	154.1							30.4	1.46	42.9	2.16	68.4	3.75													33.4	52.1
219.1	8"	40s	8.18	202.7											43.0	2.08	55.5	2.79											49.0	81.2
273.1	10"	40s	9.27	254.6													28.5	1.29	63.5	3.15									69.8	120.7
323.9	12"	40s	9.53	304.8															38.1	1.74	63.1	3.06							82.5	155.5
355.6	14"	STD	9.53	336.5																	47.2	2.19	76.2	3.74					91.5	180.5
406.4	16"	STD	9.53	387.3																			50.8	2.34					105.1	222.9
457	18"	STD	11.13	434.7																					76.5	3.64			138.8	287.2
508.0	20"	STD	12.70	482.6																					51.0	2.31			170.2	353.2
559.0	22"	STD	12.70	533.6																							76.0	3.53	190.9	414.5
610.0	24"	STD	14.27	581.5																							50.5	2.25	227.8	493.4

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

iH²O INSULATED PIPE



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

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

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:

Stainless Steel (k = 13 W/m²K)

Insulation Material:

DPE1783R PUR (k = 0.024 W/m²K)

Casing Material:

PE100 S1 HDPE (k = 0.43 W/m²K)

Pipe Diameter/ OD (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	180	169	200	188	225	211	250	235	280	263	315	296	355	338	400	380	450	428	500	476	560	533	630	599	710	675	800	761				
		Schedule	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)	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"	40s	3.91	52.5	45.0	2.85	54.4	3.62																										8.5	10.7			
73.0	2 1/2"	40s	5.16	62.7	38.7	2.25	48.0	2.95	57.4	3.68																								11.7	14.8			
88.9	3"	40s	5.49	77.9	30.7	1.64	40.1	2.26	49.5	2.92	61.2	3.80																						14.3	19.1			
114.3	4"	40s	6.02	102.3			27.4	1.38	36.8	1.94	48.5	2.70	60.3	3.51																				20.8	29.0			
141.3	5"	40s	6.55	128.2							35.0	1.77	46.8	2.48	60.9	3.40																			27.6	40.5		
168.3	6"	40s	7.11	154.1									33.3	1.63	47.4	2.45	63.8	3.47																	35.3	54.0		
219.1	8"	40s	8.18	202.7													38.4	1.86	59.3	3.04															53.6	85.9		
273.1	10"	40s	9.27	254.6															53.7	2.63															72.0	122.9		
323.9	12"	40s	9.53	304.8															28.3	1.29	52.1	2.49													92.8	165.7		
355.6	14"	STD	9.53	336.5																	36.2	1.67	60.0	2.89											99.5	188.5		
406.4	16"	STD	9.53	387.3																			34.6	1.57	63.1	3.01									115.2	233.0		
457.0	18"	STD	11.13	434.7																					37.8	1.72	71.1	3.39								149.9	298.4	
508.0	20"	STD	12.70	482.6																							45.6	2.08	83.7	4.01						190.2	373.2	
559.0	22"	STD	12.70	533.6																									58.2	2.68						215.8	439.4	
610.0	24"	STD	14.27	581.5																										32.7	1.46	75.5	3.52				267.2	532.8

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: STAINLESS STEEL/PE100 S1 HDPE WHITE

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:

Stainless Steel (k = 13 W/m²K)

Insulation Material:

DPE1783R PUR (k = 0.024 W/m²K)

Casing Material:

PE100 S1 HDPE (k = 0.43 W/m²K)

Pipe Diameter/ OD (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	180	169	200	188	225	211	250	235	280	263	315	296	355	338	400	380	450	428	500	476	560	533	630	599	710	675	800	761				
		Schedule	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)	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"	40s	3.91	52.5	45.0	2.85	54.4	3.62																										8.5	10.7			
73.0	2 1/2"	40s	5.16	62.7	38.7	2.25	48.0	2.95	57.4	3.68																								11.7	14.8			
88.9	3"	40s	5.49	77.9	30.7	1.64	40.1	2.26	49.5	2.92	61.2	3.80																						14.3	19.1			
114.3	4"	40s	6.02	102.3			27.4	1.38	36.8	1.94	48.5	2.70	60.3	3.51																				20.8	29.0			
141.3	5"	40s	6.55	128.2							35.0	1.77	46.8	2.48	60.9	3.40																			27.6	40.5		
168.3	6"	40s	7.11	154.1									33.3	1.63	47.4	2.45	63.8	3.47																	35.3	54.0		
219.1	8"	40s	8.18	202.7													38.4	1.86	59.3	3.04															53.6	85.9		
273.1	10"	40s	9.27	254.6															53.7	2.63															72.0	122.9		
323.9	12"	40s	9.53	304.8															28.3	1.29	52.1	2.49													92.8	165.7		
355.6	14"	STD	9.53	336.5																	36.2	1.67	60.0	2.89											99.5	188.5		
406.4	16"	STD	9.53	387.3																			34.6	1.57	63.1	3.01									115.2	233.0		
457.0	18"	STD	11.13	434.7																					37.8	1.72	71.1	3.39								149.9	298.4	
508.0	20"	STD	12.70	482.6																							45.6	2.08	83.7	4.01						190.2	373.2	
559.0	22"	STD	12.70	533.6																									58.2	2.68						215.8	439.4	
610.0	24"	STD	14.27	581.5																										32.7	1.46	75.5	3.52			267.2	532.8	

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