

## The lightweight plenum solution designed to save you time and money.

See inside back page for more information.



**STERLING THERMAL**

PROUDLY CELEBRATING 22 YEARS OF STERLING SERVICE

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SUPPLY AND INSTALLATION

# Price list

## Summer 2009



**STERLING THERMAL**

Specification:  
**Bright Class 0 Foil Faced Mineral Fibre Sections**

Pipework insulation costs

Sizes		Insulation thickness					
Steel pipe	Copper pipe	20	25	30	40	50	60
-	15	6.48	6.97	8.13	9.51	9.93	19.08
15	22	6.73	7.11	8.37	9.93	12.66	19.57
20	28	6.97	7.43	8.76	10.12	13.18	20.32
25	35	7.29	7.97	9.09	10.68	13.83	21.00
32	42	7.78	8.41	9.67	11.19	14.32	22.03
40	-	8.13	8.81	10.05	11.63	14.90	22.84
-	54	8.49	9.44	10.68	12.29	15.72	23.43
50	-	8.88	9.68	11.08	12.78	16.37	23.92
-	67		10.00	11.52	13.32	17.00	24.69
65	76		10.65	12.17	13.97	17.63	25.53
80	-		11.38	12.99	14.93	18.68	27.02
-	108		14.21	16.14	18.59	23.28	31.55
100	-		14.67	16.61	18.43	23.68	32.05
125	-		16.43	18.57	21.18	26.16	38.09
150	-		18.92	21.21	24.15	29.66	38.56
200	-		26.05	29.06	32.82	40.00	51.31
250	-		31.28	34.64	38.63	46.41	56.80
300	-		34.77	37.94	42.49	53.02	61.76

## Cheaper. Lighter. Easier. Sterling plenum boxes are the perfect solution.

Sterling pre-insulated plenum boxes are made from Kingspan KoolDuct® Plenum panels. These boxes replace the traditional lagged sheet metal plenums and have many advantages.

Offering a lightweight solution for air distribution, they come in the form of pre-assembled units, requiring only one person to install.

These plenum boxes generally need no other support, sitting immediately upon the available ceiling grid, thanks to their exceptionally light weight.

Combined with their ease of installation, and excellent insulation properties, savings in both cost and installation time can be expected.

### Lightweight

- Approximately 15% of the weight of traditional galvanised steel boxes and insulation

### Pre-insulated

- Kingspan KoolDuct® Plenum panels are available in Foil/Foil (faced on both sides with a 7.6 micron aluminium foil vapour barrier reinforced with a 5mm glass scrim) or Foil/Black (one side is faced with a 7.6 micron aluminium foil vapour barrier with a 5mm glass scrim, with a 23 micron black-coated aluminium foil vapour barrier reinforced with a 5mm glass scrim on the opposite side)
- Manufactured without the use of CFCs / HCFCs and has zero Ozone Depletion Potential (ODP)
- Thermal conductivity: 0.021 W/mK at 10°C mean temperature
- 40kg/m<sup>3</sup> density
- 120kPa compressive strength
- Fabricated from 20mm rigid phenolic insulation panels
- Achieves a Class 0 fire rating to the Building Regulations and Low Risk rating for the Technical Standards in Scotland

### Labour saving

- Single application, no second fix of insulation required
- Single-handed installation

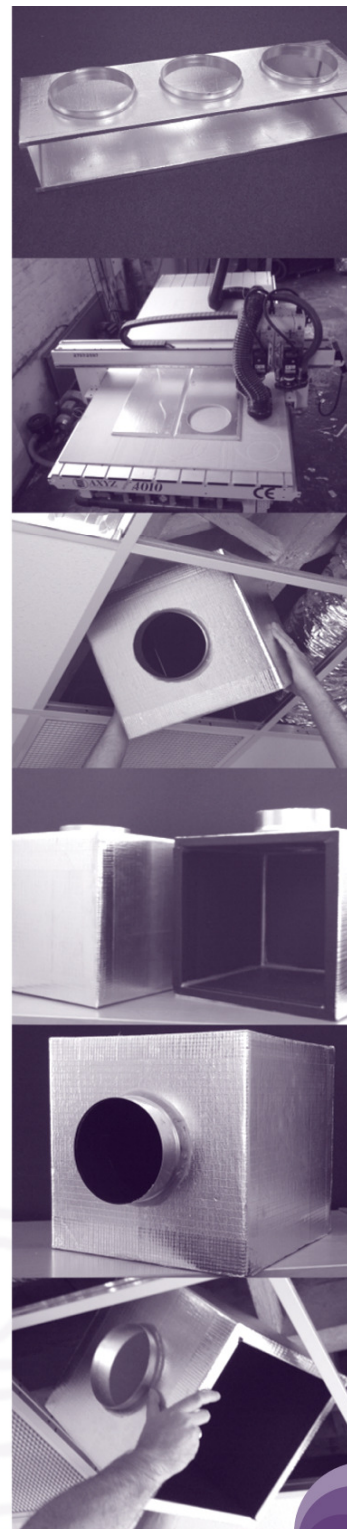
### Cost saving

- Price comparable to traditional galvanised box - no insulation required
- Installation quick and easier
- Additional supporting generally not required

### Easy to integrate

- Boxes pre-assembled complete with spigot connection
- Non standard and bespoke boxes available to order
- Precision engineered by computerised machinery and hand assembled
- Compatible with any grille, diffuser, fan coil or VRF unit
- Can be supplied with integral balancing dampers

 Kingspan



## Ductwork insulation

<b>Plant Rooms</b>	Ductwork insulated with 50mm thick mineral fibre slab, class 0 aluminium foil faced, secured, joints taped, encased in 0.8mm stucco aluminium cladding	£59.07 / m <sup>2</sup>
<b>Concealed</b>	Ductwork insulated with 40mm thick mineral fibre mattress, class 0 aluminium foil faced, joints taped, secured with lacing wire ties	£17.72/m <sup>2</sup>
<b>External</b>	Ductwork insulated with 50mm thick mineral fibre slab, class 0 aluminium foil faced, secured, joints taped, covered with 0.8mm polyisobutylene sheeting	£51.57/m <sup>2</sup>

Ductwork rates are based upon area measured over finished surface area.



## Trace heating and leak detection

The following trace heating rates are intended for use as a guide for day-to-day pricing on small projects, and are therefore not our most competitive.

Rates include cable 1no thermostat, junction boxes and fittings required to complete the installation, including

Description	Rate 1	Rate 2	Rate 3
Raychem WinterGard	£14.34	£17.08	£36.86
Raychem HWAT-M	£15.34	£17.55	£33.16

labour, testing and commissioning.

**Rate 1** Per metre, minimum of 100 metres of cable, and a maximum of 4no tees & 1no Thermostat/Power Connection

**Rate 2** Per metre, minimum of 50 metres of cable, and a maximum of 2no tees & 1no Thermostat/Power Connection

**Rate 3** Per metre, minimum of 10 metres of cable, and 1no Thermostat/Power Connection

### Additional notes about trace heating

- Prices are fluctuating and based upon a minimum order value of £420.00
- Power and BMS wiring by others
- Frost protection prices are for chilled and cold water pipework only
- Prices for other systems are available on request
- Leak detection details and prices are also available on request

## KoolDuct®

We are authorised manufactures and suppliers of the KoolDuct® pre-insulated ductwork system.

Supply-only prices are available upon request and online.

Please note that it is no longer necessary for the KoolDuct® system to be installed by solely by Kingspan approved contractors. Simple basic training is provided to any ductwork contractor wishing to install this product.

### Insulation notes

- Prices are for work within the boundary of the M25 motorway
- Prices are not our most competitive, but are intended for use as a guide for day-to-day pricing on small projects
- Prices are fluctuating and based upon a minimum order value of £1000.00
- Rates for ductwork, and other pipe specifications, together with suggested fixed-price uplifts, and discounts for large projects, would be advised on request
- All prices are in pounds sterling (£/GBP) per metre, and are subject to change without notice
- This price list supersedes all previous price lists

Specification:

## Bright Class 0 Foil Faced Mineral Fibre Sections

Rates to comply with Part L of Building Regulations 2006

Sizes		Building service (see key below table)			
Steel pipe	Copper pipe	HTG	CHW	HWS	CWS
-	15	8.13	6.97	6.97	6.48
15	22	8.37	7.11	7.11	6.73
20	28	10.12	8.76	8.76	7.43
25	35	10.68	9.09	9.09	7.97
32	42	11.19	9.67	9.67	8.41
40	-	11.63	10.05	11.63	10.05
-	54	12.29	10.68	12.29	10.68
50	-	12.78	12.78	12.78	11.08
-	67	13.32	13.32	13.32	11.52
65	76	13.97	13.97	13.97	12.17
80	-	18.68	14.93	14.93	12.99
-	108	23.28	18.59	18.59	16.14
100	-	23.68	18.43	18.43	16.61
125	-	26.16	21.18	21.18	18.57
150	-	29.66	29.66	29.66	24.15
200	-	40.00	40.00	40.00	32.82
250	-	46.41	46.41	46.41	38.63
300	-	53.02	61.76	53.02	42.49

### Key to building services in table above

HTG	Heating (75 deg C)
CHW	Chilled Water (5 deg C)
HWS	Hot Water Service (60 deg C)
CWS	Cold Water Service (10 deg C)

Specification:

## Bright Class 0 Foil Faced Phenolic Foam Sections

Pipework insulation costs

Sizes		Insulation thickness						
Steel pipe	Copper pipe	15	20	25	30	35	40	50
-	15	5.92	6.38	7.20	8.63	9.46	10.73	12.03
15	22	6.18	6.83	7.41	9.07	9.86	11.36	12.87
20	28	6.67	7.18	7.92	9.46	10.68	11.70	13.57
25	35	6.95	7.88	8.86	10.73	12.19	13.64	16.00
32	42	7.58	8.41	9.61	11.52	13.53	15.56	18.21
40	-	7.79	8.95	9.89	12.19	14.18	16.18	19.83
-	54	8.91	9.86	11.35	12.61	14.69	16.77	20.48
50	-	9.56	10.14	12.24	12.97	15.42	17.91	21.18
-	67	9.72	11.24	12.76	14.36	16.60	18.82	21.76
65	76	10.12	12.12	13.94	14.71	17.52	19.83	22.72
80	-	11.29	12.68	14.67	15.84	18.77	20.92	24.75
-	108	12.55	14.04	16.10	18.92	21.81	24.17	28.95
100	-		15.21	17.66	19.99	22.93	25.94	29.45
125	-		18.32	21.42	25.59	28.91	32.01	36.77
150	-		23.73	25.24	31.92	34.28	37.77	42.81
200	-			35.64	39.44	44.06	47.66	55.35
250	-			49.84	50.74	55.29	60.62	69.74
300	-			60.58	65.61	72.97	78.17	82.51

Specification:

## Bright Class 0 Foil Faced Phenolic Sections & 0.6mm Hammerclad

Rates to comply with Part L of Building Regulations 2006

Sizes		Building service (see key below table)			
Steel pipe	Copper pipe	HTG	CHW	HWS	CWS
-	15	14.77	14.77	14.30	14.30
15	22	15.43	15.43	14.79	14.79
20	28	16.03	16.03	15.50	15.50
25	35	16.97	16.97	16.97	16.05
32	42	17.80	17.80	17.80	16.97
40	-	18.55	18.55	18.55	17.39
-	54	19.67	19.67	19.67	18.71
50	-	20.16	20.16	20.16	19.58
-	67	21.51	21.51	21.51	19.97
65	76	24.97	24.97	24.97	22.80
80	-	26.16	26.16	26.16	23.82
-	108	29.42	29.42	29.42	26.98
100	-	31.17	31.17	31.17	28.37
125	-	35.84	35.84	35.84	32.39
150	-	40.63	47.67	47.67	38.78
200	-	58.32	58.32	58.32	
250	-	73.17	73.17	73.17	71.91
300	-	91.90	99.95	91.90	86.53

Key to building services in table above

HTG Heating (75 deg C)  
 CHW Chilled Water (5 deg C)  
 HWS Hot Water Service (60 deg C)  
 CWS Cold Water Service (10 deg C)

Specification:

## Bright Class 0 Foil Faced Phenolic Sections & 0.6mm Hammerclad

Pipework insulation costs

Sizes		Insulation thickness						
Steel pipe	Copper pipe	15	20	25	30	35	40	50
-	15	14.30	14.77	15.94	17.73	19.28	20.58	22.68
15	22	14.79	15.43	16.36	18.37	19.91	21.42	23.73
20	28	15.50	16.03	17.11	19.06	20.96	22.00	24.67
25	35	16.05	16.97	18.34	20.58	22.84	24.29	27.35
32	42	16.97	17.80	19.35	21.61	24.43	26.46	29.80
40	-	17.39	18.55	19.83	22.49	25.29	27.28	31.64
-	54	18.71	19.67	21.51	23.22	25.99	28.09	32.50
50	-	19.58	20.16	22.59	23.80	26.95	29.43	33.41
-	67	19.97	21.51	23.48	25.43	28.35	30.59	34.23
65	76	20.81	22.80	24.97	26.09	29.61	31.92	35.49
80	-	22.43	23.82	26.16	27.68	31.31	33.46	37.97
-	108	25.50	26.98	29.42	32.57	36.15	38.52	43.99
100	-		28.37	31.17	33.84	37.50	40.49	44.71
125	-		32.39	35.84	40.35	44.40	47.48	52.92
150	-		38.78	40.63	47.67	50.73	54.20	59.94
200	-			54.18	58.32	63.64	67.25	75.63
250	-			71.91	73.17	78.42	83.74	93.68
300	-			86.53	91.90	99.95	105.16	110.19

Additional notes about this product

**Bends** charged at 1.0 times metre rate extra over.  
**Tees** charged at 0.5 times metre rate extra over.  
**Valves** charged at 2.0 times metre rate extra over.  
**Flanges** charged at 1.5 times metre rate extra over.

Specification:

## Bright Class 0 Foil Faced Phenolic Foam Sections

Rates to comply with Part L of Building Regulations 2006

Sizes		Building service (see key below table)			
Steel pipe	Copper pipe	HTG	CHW	HWS	CWS
-	15	6.38	6.38	5.92	5.92
15	22	6.83	6.83	6.18	6.18
20	28	7.18	7.18	6.67	6.67
25	35	7.88	7.88	7.88	6.95
32	42	8.41	8.41	8.41	7.58
40	-	8.95	8.95	8.95	7.79
-	54	9.86	9.86	9.86	8.91
50	-	10.14	10.14	10.14	9.56
-	67	11.24	11.24	11.24	9.72
65	76	13.94	13.94	13.94	12.12
80	-	14.67	14.67	14.67	12.68
-	108	16.10	16.10	16.10	14.04
100	-	17.66	17.66	17.66	15.21
125	-	21.42	21.42	21.42	18.32
150	-	25.24	31.92	31.92	23.73
200	-	39.44	39.44	39.44	
250	-	50.74	50.74	50.74	49.84
300	-	65.61	72.97	65.61	60.58

Key to building services in table above

**HTG** Heating (75 deg C)  
**CHW** Chilled Water (5 deg C)  
**HWS** Hot Water Service (60 deg C)  
**CWS** Cold Water Service (10 deg C)

Specification:

## Bright Class 0 Foil Faced Mineral Fibre Sections & Isogopak

Sizes		Insulation thickness					
Steel pipe	Copper pipe	20	25	30	40	50	60
-	15	14.86	15.56	16.93	18.77	19.61	30.55
15	22	15.25	15.86	17.35	19.33	22.49	31.20
20	28	15.63	16.30	17.86	19.66	23.14	32.08
25	35	16.09	17.00	18.35	20.36	23.95	32.92
32	42	16.75	17.59	19.06	21.02	24.59	34.09
40	-	17.23	18.12	19.59	21.58	25.29	35.03
-	54	17.72	18.89	20.34	22.39	26.24	35.75
50	-	18.22	19.24	20.88	23.00	27.03	36.38
-	67		19.73	21.46	23.70	27.80	37.29
65	76		20.57	22.32	24.54	28.62	38.34
80	-		21.58	23.42	25.78	29.95	40.11
-	108		26.20	28.33	31.20	36.33	46.69
100	-		26.77	28.93	31.18	36.85	47.32
125	-		29.10	31.45	34.49	39.92	53.92
150	-		32.20	34.70	38.08	44.01	55.01
200	-		42.09	45.31	49.49	57.12	70.81
250	-		50.42	54.01	58.42	66.66	79.84
300	-		57.40	60.78	65.77	76.72	88.74

### Additional notes about this product

**Bends** charged at 1.0 times metre rate extra over.  
**Tees** charged at 0.5 times metre rate extra over.

Specification:

## Bright Class 0 Foil Mineral Fibre Sections & 0.6mm Hammerclad

Rates to comply with Part L of Building Regulations 2006

Sizes		Building service (see key below table)			
Steel pipe	Copper pipe	HTG	CHW	HWS	CWS
-	15	17.22	15.71	15.71	14.87
15	22	17.67	16.06	16.06	15.33
20	28	20.42	18.36	18.36	16.62
25	35	21.33	18.93	18.93	17.45
32	42	22.08	19.76	19.76	18.15
40	-	22.73	20.35	22.73	20.35
-	54	23.61	21.30	23.61	21.30
50	-	24.31	24.31	24.31	21.91
-	67	25.09	25.09	25.09	22.59
65	76	26.06	26.06	26.06	23.55
80	-	31.90	27.47	27.47	24.83
-	108	38.32	32.93	32.93	29.78
100	-	38.94	32.99	32.99	30.47
125	-	42.31	36.64	36.64	33.34
150	-	46.79	46.79	46.79	40.58
200	-	60.28	60.28	60.28	52.41
250	-	70.36	70.36	70.36	61.75
300	-	80.70	92.52	80.70	69.48

### Key to building services in table above

**HTG** Heating (75 deg C)  
**CHW** Chilled Water (5 deg C)  
**HWS** Hot Water Service (60 deg C)  
**CWS** Cold Water Service (10 deg C)

Specification:

## Bright Class 0 Foil Faced Mineral Fibre Sections & 0.6mm Hammerclad

Pipework insulation costs

Sizes		Insulation thickness					
Steel pipe	Copper pipe	20	25	30	40	50	60
-	15	14.87	15.71	17.22	19.35	20.58	31.57
15	22	15.33	16.06	17.67	19.98	23.52	32.27
20	28	15.82	16.62	18.36	20.42	24.29	33.27
25	35	16.38	17.45	18.93	21.33	25.18	34.19
32	42	17.17	18.15	19.76	22.08	25.92	35.47
40	-	17.73	18.74	20.35	22.73	26.70	36.49
-	54	18.30	19.60	21.30	23.61	27.74	37.29
50	-	18.90	20.04	21.91	24.31	28.59	37.99
-	67		20.72	22.59	25.09	29.47	39.01
65	76		21.68	23.55	26.06	30.40	40.16
80	-		22.87	24.83	27.47	31.90	42.10
-	108		27.53	29.78	32.93	38.32	48.66
100	-		28.17	30.47	32.99	38.94	49.38
125	-		30.85	33.34	36.64	42.31	56.31
150	-		34.32	36.96	40.58	46.79	57.76
200	-		44.59	47.95	52.41	60.28	73.94
250	-		53.35	57.07	61.75	70.36	83.39
300	-		60.71	64.23	69.48	80.70	92.52

Additional notes about this product

**Bends** charged at 1.0 times metre rate extra over.  
**Tees** charged at 0.5 times metre rate extra over.  
**Valves** charged at 2.0 times metre rate extra over.  
**Flanges** charged at 1.5 times metre rate extra over.

Specification:

## Bright Class 0 Foil Faced Mineral Fibre Sections & Isogenopak

Rates to comply with Part L of Building Regulations 2006

Sizes		Building service (see key below table)			
Steel pipe	Copper pipe	HTG	CHW	HWS	CWS
-	15	16.93	15.56	15.56	14.86
15	22	17.35	15.86	15.86	15.25
20	28	19.66	17.86	17.86	16.30
25	35	20.36	18.35	18.35	17.00
32	42	21.02	19.06	19.06	17.59
40	-	21.58	19.59	21.58	19.59
-	54	22.39	20.34	22.39	20.34
50	-	23.00	23.00	23.00	20.88
-	67	23.70	23.70	23.70	21.46
65	76	24.54	24.54	24.54	22.32
80	-	29.95	25.78	25.78	23.42
-	108	36.33	31.20	31.20	28.33
100	-	36.85	31.18	31.18	28.93
125	-	39.92	34.49	34.49	31.45
150	-	44.01	44.01	44.01	38.08
200	-	57.12	57.12	57.12	49.49
250	-	66.66	66.66	66.66	58.42
300	-	76.72	88.74	76.72	65.77

Key to building services in table above

**HTG** Heating (75 deg C)  
**CHW** Chilled Water (5 deg C)  
**HWS** Hot Water Service (60 deg C)  
**CWS** Cold Water Service (10 deg C)

Additional notes about this product

**Bends** charged at 0.5 x metre rate  
**Tees** charged at 0.5 x metre rate

Specification:

## Bright Class 0 Foil Faced Phenolic Foam Sections & Isogopak

Pipework insulation costs

Sizes		Insulation thickness						
Steel pipe	Copper pipe	15	20	25	30	35	40	50
-	15	14.08	14.76	15.79	17.44	18.49	19.99	21.71
15	22	14.50	15.35	16.16	18.05	19.05	20.76	22.70
20	28	15.11	15.84	16.79	18.56	19.99	21.23	23.53
25	35	15.55	16.68	17.89	19.99	21.65	23.32	26.12
32	42	16.33	17.38	18.80	20.92	23.14	25.40	28.48
40	-	16.67	18.05	19.20	21.72	23.93	26.13	30.23
-	54	17.91	19.08	20.80	22.27	24.56	26.87	31.00
50	-	18.70	19.48	21.79	22.77	25.43	28.13	31.84
-	67	18.99	20.76	22.49	24.30	26.75	29.20	32.56
65	76	19.61	21.81	23.86	24.86	27.88	30.40	33.71
80	-	21.06	22.65	24.87	26.27	29.41	31.77	36.02
-	108	24.08	25.79	28.09	31.11	34.21	36.78	42.00
100	-		27.09	29.77	32.30	35.47	38.69	42.63
125	-		30.78	34.09	38.46	42.02	45.32	50.52
150	-		36.78	38.52	45.41	48.00	51.69	57.15
200	-			51.68	55.69	60.52	64.33	72.47
250	-			68.99	70.11	74.87	80.42	89.99
300	-			83.22	88.45	96.03	101.45	106.21

Additional notes about this product

**Bends** charged at 1.0 times metre rate extra over.  
**Tees** charged at 0.5 times metre rate extra over.

Specification:

## Class 1 / Class 0 Armaflex Tube & Armafinish Paint

Rates to comply with 'Armocell UK Ltd Insulation Product Selector - 112'

Sizes		Building service (see key below table)			
Steel pipe	Copper pipe	HTG	CHW	HWS	CWS
-	15	15.38	15.38	15.38	14.35
15	22	18.30	16.13	18.30	15.12
20	28	22.87	17.01	22.87	15.69
25	35	27.03	17.74	27.03	17.74
32	42		18.76		18.76
40	-		19.91		19.91
-	54		20.87		20.87
50	-		21.85		21.85
-	67		23.76		23.76
65	76		25.06		25.06
80	-		27.94		27.94
-	108		33.40		33.40
100	-		34.43		34.43

Key to building services in table above

**HTG** Heating—Energy Conservation  
**CHW** Chilled Water (2 deg C - Condensation Control)  
**HWS** Hot Water Service—Energy Conservation  
**CWS** Cold Water Service (7 deg C - Condensation Control)

Specification:

## Class 1 / Class 0 Armaflex Tube & Armafinish Paint

Pipework insulation costs

Sizes		Insulation thickness					
Steel pipe	Copper pipe	6	9	13	19	25	32
-	15	13.79	14.35	15.38	17.20	20.51	23.01
15	22	14.56	15.12	16.13	18.30	21.66	24.69
20	28	15.41	15.69	17.01	19.88	22.87	26.37
25	35		16.50	17.74	21.15	24.09	27.03
32	42		17.34	18.76	22.57	25.11	28.99
40	-		18.55	19.91	23.87	26.70	30.85
-	54		19.40	20.87	25.09	27.37	32.23
50	-		20.37	21.85	26.32	28.45	35.68
-	67			23.76	27.54	31.11	
65	76			25.06	29.57	33.23	42.40
80	-			27.94	32.42	35.59	44.92
-	108			33.40	39.35		
100	-			34.43	40.19		

Specification:

## Bright Class 0 Foil Faced Phenolic Foam Sections & Isogenopak

Rates to comply with Part L of Building Regulations 2006

Sizes		Building service (see key below table)			
Steel pipe	Copper pipe	HTG	CHW	HWS	CWS
-	15	14.76	14.76	14.08	14.08
15	22	15.35	15.35	14.50	14.50
20	28	15.84	15.84	15.11	15.11
25	35	16.68	16.68	16.68	15.55
32	42	17.38	17.38	17.38	16.33
40	-	18.05	18.05	18.05	16.67
-	54	19.08	19.08	19.08	17.91
50	-	19.48	19.48	19.48	18.70
-	67	20.76	20.76	20.76	18.99
65	76	23.86	23.86	23.86	21.81
80	-	24.87	24.87	24.87	22.65
-	108	28.09	28.09	28.09	25.79
100	-	29.77	29.77	29.77	27.09
125	-	34.09	34.09	34.09	30.78
150	-	38.52	45.41	45.41	36.78
200	-	55.69	55.69	55.69	
250	-	70.11	70.11	70.11	68.99
300	-	88.45	96.03	88.45	83.22

Key to building services in table above

HTG	Heating (75 deg C)
CHW	Chilled Water (5 deg C)
HWS	Hot Water Service (60 deg C)
CWS	Cold Water Service (10 deg C)

Additional notes about this product

Bends charged at 0.5 x metre rate  
Tees charged at 0.5 x metre rate

Specification:

## Bright Class 0 Foil Faced Mineral Fibre Sections covered with Polyisobutylene Sheeting

Pipework insulation costs

Sizes		Insulation thickness					
Steel pipe	Copper pipe	20	25	30	40	50	60
-	15	14.95	15.70	17.14	19.06	20.01	31.01
15	22	15.39	16.04	17.58	19.66	22.93	31.70
20	28	15.79	16.51	18.10	20.01	23.60	32.61
25	35	16.30	17.24	18.64	20.76	24.45	33.48
32	42	16.98	17.87	19.40	21.46	25.12	34.69
40	-	17.47	18.42	19.94	22.04	25.85	35.67
-	54	18.01	19.22	20.73	22.88	26.83	36.40
50	-	18.56	19.62	21.30	23.53	27.66	37.07
-	67		20.13	21.92	24.26	28.46	38.01
65	76		21.01	22.81	25.14	29.32	39.10
80	-		22.09	23.98	26.45	30.72	40.94
-	108		26.78	28.97	31.94	37.17	47.53
100	-		27.37	29.58	31.94	37.72	48.20
125	-		29.84	32.24	35.39	40.90	54.94
150	-		33.08	35.63	39.12	45.15	56.14
200	-		43.14	46.41	50.70	58.42	72.14
250	-		51.67	55.31	59.82	68.15	81.34
300	-		58.80	62.23	67.33	78.39	90.40

Specification:

## Class 1 / Class 0 Armaflex Tube

Rates to comply with 'Armocell UK Ltd Insulation Product Selector - 112'

Sizes		Building service (see key below table)			
Steel pipe	Copper pipe	HTG	CHW	HWS	CWS
-	15	6.00	6.00	6.00	5.58
15	22	7.40	6.19	7.40	5.80
20	28	10.55	6.59	10.55	5.91
25	35	13.05	6.77	13.05	6.77
32	42		7.22		7.22
40	-		7.90		7.90
-	54		8.39		8.39
50	-		8.90		8.90
-	67		10.25		10.25
65	76		10.84		10.84
80	-		12.70		12.70
-	108		15.43		15.43
100	-		15.99		15.99

Key to building services in table above

- HTG Heating—Energy Conservation
- CHW Chilled Water (2 deg C - Condensation Control)
- HWS Hot Water Service—Energy Conservation
- CWS Cold Water Service (7 deg C - Condensation Control)

Specification:

## Class 1 / Class 0 Armaflex Tube

Pipework insulation costs

Sizes		Insulation thickness					
Steel pipe	Copper pipe	6	9	13	19	25	32
-	15	5.51	5.58	6.00	6.85	9.22	10.62
15	22	5.72	5.80	6.19	7.40	9.81	11.74
20	28	6.10	5.91	6.59	8.52	10.55	12.94
25	35		6.15	6.77	9.22	11.21	13.05
32	42		6.43	7.22	10.09	11.68	14.47
40	-		7.19	7.90	10.91	12.79	15.83
-	54		7.55	8.39	11.67	13.00	16.74
50	-		8.04	8.90	12.40	13.59	19.72
-	67			10.25	13.08	15.71	
65	76			10.84	14.41	17.11	25.16
80	-			12.70	16.22	18.44	26.65
-	108			15.43	20.41		
100	-			15.99	20.78		

Specification:

## Bright Class 0 Foil Faced Mineral Fibre Sections covered with Polyisobutylene Sheeting

Rates to comply with Part L of Building Regulations 2006

Sizes		Building service (see key below table)			
Steel pipe	Copper pipe	HTG	CHW	HWS	CWS
-	15	17.14	15.70	15.70	14.95
15	22	17.58	16.04	16.04	15.39
20	28	20.01	18.10	18.10	16.51
25	35	20.76	18.64	18.64	17.24
32	42	21.46	19.40	19.40	17.87
40	-	22.04	19.94	22.04	19.94
-	54	22.88	20.73	22.88	20.73
50	-	23.53	23.53	23.53	21.30
-	67	24.26	24.26	24.26	21.92
65	76	25.14	25.14	25.14	22.81
80	-	30.72	26.45	26.45	23.98
-	108	37.17	31.94	31.94	28.97
100	-	37.72	31.94	31.94	29.58
125	-	40.90	35.39	35.39	32.24
150	-	45.15	45.15	45.15	39.12
200	-	58.42	58.42	58.42	50.70
250	-	68.15	68.15	68.15	59.82
300	-	78.39	90.40	78.39	67.33

Key to building services in table above

HTG	Heating (75 deg C)
CHW	Chilled Water (5 deg C)
HWS	Hot Water Service (60 deg C)
CWS	Cold Water Service (10 deg C)

Specification:

## Bright Class 0 Foil Faced Phenolic Sections covered with Polyisobutylene Sheeting

Pipework insulation costs

Sizes		Insulation thickness						
Steel pipe	Copper pipe	15	20	25	30	35	40	50
-	15	14.11	14.85	15.93	17.65	18.73	20.29	22.11
15	22	14.58	15.49	16.33	18.28	19.33	21.09	23.14
20	28	15.21	16.00	17.00	18.80	20.29	21.58	23.98
25	35	15.69	16.89	18.14	20.29	22.00	23.72	26.62
32	42	16.51	17.61	19.08	21.25	23.53	25.84	29.00
40	-	16.88	18.29	19.50	22.07	24.33	26.59	30.79
-	54	18.15	19.38	21.13	22.65	25.00	27.36	31.59
50	-	18.98	19.82	22.18	23.19	25.91	28.65	32.47
-	67	19.31	21.11	22.90	24.75	27.25	29.76	33.22
65	76	19.96	22.21	24.30	25.35	28.43	31.00	34.41
80	-	21.48	23.12	25.38	26.83	30.02	32.43	36.79
-	108	24.57	26.32	28.67	31.75	34.90	37.52	42.84
100	-		27.65	30.37	32.96	36.18	39.45	43.49
125	-		31.47	34.83	39.26	42.86	46.22	51.51
150	-		37.63	39.40	46.34	48.99	52.73	58.30
200	-			52.73	56.79	61.67	65.54	73.77
250	-			70.23	71.41	76.22	81.82	91.48
300	-			84.62	89.90	97.53	103.01	107.87

Specification:

## Bright Class 0 Foil Faced Phenolic Section covered with Polyisobutylene Sheeting

Rates to comply with Part L of Building Regulations 2006

Sizes		Building service (see key below table)			
Steel pipe	Copper pipe	HTG	CHW	HWS	CWS
-	15	14.85	14.85	14.11	14.11
15	22	15.49	15.49	14.58	14.58
20	28	16.00	16.00	15.21	15.21
25	35	16.89	16.89	16.89	15.69
32	42	17.61	17.61	17.61	16.51
40	-	18.29	18.29	18.29	16.88
-	54	19.38	19.38	19.38	18.15
50	-	19.82	19.82	19.82	18.98
-	67	21.11	21.11	21.11	19.31
65	76	24.30	24.30	24.30	22.21
80	-	25.38	25.38	25.38	23.12
-	108	28.67	28.67	28.67	26.32
100	-	30.37	30.37	30.37	27.65
125	-	34.83	34.83	34.83	31.47
150	-	39.40	46.34	46.34	37.63
200	-	56.79	56.79	56.79	
250	-	71.41	71.41	71.41	70.23
300	-	89.90	97.53	89.90	84.62

Key to building services in table above

HTG Heating (75 deg C)  
 CHW Chilled Water (5 deg C)  
 HWS Hot Water Service (60 deg C)  
 CWS Cold Water Service (10 deg C)