PIPE SIZE (mm)		TEMPERATURE OF WATER (°C)			
		TABLE 1 +0 °C TABLE 2 +5 °C TABLE		TABLE 3 10 °C	
		THICKNESS OF INSULATION (mm)			
NB	OD	MINERAL WOOL	MINERAL WOOL	MINERAL WOOL	
15	21	30	25	20	
20	27	40	30	25	
25	34	40	30	25	
32	42	50	30	25	
40	48	50	30	30	
50	60	50	40	30	
65	76	50	40	30	
80	89	50	40	30	
100	114	50	40	30	
125	140	60	50	40	
150	168	60	50	40	
200	219	60	50	40	
250	273	65	50	40	
300	324	65	60	40	
Vessels and flat surfaces		80	65	50	

Tables A, B, & C thickness are for condensation control as B.S.5422:2009 which exceeds thickness for Part L heat gains.

2) Environmental thickness of insulation for non-domestic hot water services. (BS 5422:2009 - Table 1)

TABLE 4 STEEL PIPE SIZE WATER TEMPERATURE OF 60°C (mm) THICKNESS OF INSULATION (mm) NB OD MINERAL WOOL Vessels and flat

3) Environmental thickness of insulation for non-domestic heating installations to control heat loss. (BS 5422:2009- Table 15)

STEEL PIPE SIZE	HOT FACE TEMPERATURE OF INSTALLATION (°C)
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(mm)		TABLE 5 +75 °C	TABLE 6 +100 °C	TABLE 7 +150 °C	
		THICKNESS OF INSULATION (mm)			
NB	OD	MINERAL WOOL	MINERAL WOOL	MINERAL WOOL	
15	21	30	40	60	
20	27	35	40	60	
25	34	35	40	70	
32	42	35	50	70	
40	48	40	50	70	
50	60	40	50	70	
65	76	40	50	80	
80	89	40	60	80	
100	114	50	60	80	
125	140	50	60	80	
150	168	50	60	90	
200	219	50	60	90	
250	273	50	60	90	
300	324	50	60	90	
Vessels and flat		50	70	90	

4) Minimum thickness of insulation required to give protection against freezing under specified commercial and institutional conditions. (Reference BS 5422:2009 - Table 23)

Initial water temperature; 2°C
Permitted ice formation; 50%
Evaluation period; 12 hours

PIPE SIZE (mm)		INDOOR UNHEATED AREAS (-6°C)	OUTDOOR (-10°C)
NB	OD	0.11.12.11.12.711.12.10 (0 0)	(20 0)
15	21	25	50
20	27	20	25
25	34	15	20
32	42	15	20
40	48	15	20
50	60	15	20
65	76	15	20
80	89	15	20
100	114	15	20
125	140	15	20
150	168	15	20

