## armacell Pipe Insulation Product Selector armacell



Product		Heating & Plumbing pipework	HVAC & commercial pipework	Refrigeration pipework	Outdoor pipework	Pre-fabricated fittings for bends / elbows	Solar thermal hot water applications	Ground source heat pump pipework	Self-Seal closing
Tubolit®	Polyethylene pipe insulation for domestic applications	Close ams with Tubout of the Ams with Tubo				olit quick 90° ello smo			
AF/Armaflex® Class 0	Nitrile rubber tube, sheet & coils range for cold water & HVAC-R applications	with Armaflex co. 250 Appe 0250 Appe 0250	with Armaflet co. New York of the Soliton of the So	with Armaflet co. 200 adher 1200	Astinish 90 paint				
AF/Armaflex® Class 0 Self Seal	Nitrile rubber tube insulation with self-seal closing for easy application	od butt joins with in the order of the order	Salbutt joins wist		A Agrinish oo paint				Solve or solve of the solve of
Armaflex® TuffCoat	PVC outer covering for protection against mechanical impact and bird attack		Solioins With 550	in the oscio, table oscio, tabl	Tivo oat maskic, tabo			with Armaflet 25, and Appe 02, and appearance of the original	
HT/Armaflex®	EPDM rubber for high temperature process applications (up to 150°C)	ontdoor couges			os cing for bild attach		Seting for biso attach		
Arma-Chek® Silver	High surface emissivity silver PVC covering for protection in outdoor areas		ype ozy	520 adhesive 10 /eas	520 adhesive of the solution o	eldelievs eldelievs			ype ozy
Armaflex® DuoSolar	Pre-insulated twin corrugated steel pipes for connecting solar hot water systems						Solar fitting sets		

Thickness to meet the Domestic Building Services Compliance Guide and Part L: Indicative thickness of insulation for domestic heating & hot water systems.

Pipe OD (mm)	Max. permissable heat loss (W/m)	AF/Armaflex Class O Thickness (mm)
10	7.06	13
15	7.23	19
22	7.35	25
28	7.89	25
35	9.12	32
42	10.07	32
54	11.08	32

BS 5422:2009 Table 20 Line temperature: 60°C Ambient temperature: 15°C **Condensation Control:** Insulation thickness for chilled & cold water copper pipes for condensation control.

Pipe OD	Temperature of content				
(mm)	10°C	5°C	0°C		
(111111)	AF/Armaflex Class O Thickness (mm)				
10	9	13	13		
12	9	13	19		
15	9	13	19		
22	13	13	19		
28	13	13	19		
35	13	19	19		
42	13	19	19		
54	13	19	19		
76.1	13	19	19		
108	13	19	25		

BS 5422:2009 Table 7 Ambient temperatue: 25°C Relative humidity: 80%



Water Regulations 1999 - Frost Protection: Minimum insulation thickness to prevent freezing - selected domestic cold water systems.

Dina OD (mm)	Min. AF/Armaflex Class O (mm)				
Pipe OD (mm)	Normal Conditions	Extreme Conditions			
Copper:					
15	25*	32*			
22	19	19			
28	13	13			
35	13	13			
42	13	13			
54	13	13			
76.1	13	13			
	•				

MDPE:		
20	25*	25*
25	19	19
32	13	13
40	9	9
50	9	9
63	9	9
75	9	9

**Normal conditions:** Inside the building & within the envelope of the insulation where heat is normally provided. Line temperature: 7°C Ambient temperature: -6°C

Evaluation period: 12 hours (\*8 hours) Permitted ice formation: 50%

**Extreme conditions:** 

Inside the building but outside the envelope of the insulation, i.e. above the thermal insulation in a loft space, under a suspended ground floor or areas without heating services inside the structure of the building. Line temperature: 2°C Ambient temperature: -6°C

Evaluation period: 12 hours (\*8 hours) Permitted ice formation: 50%