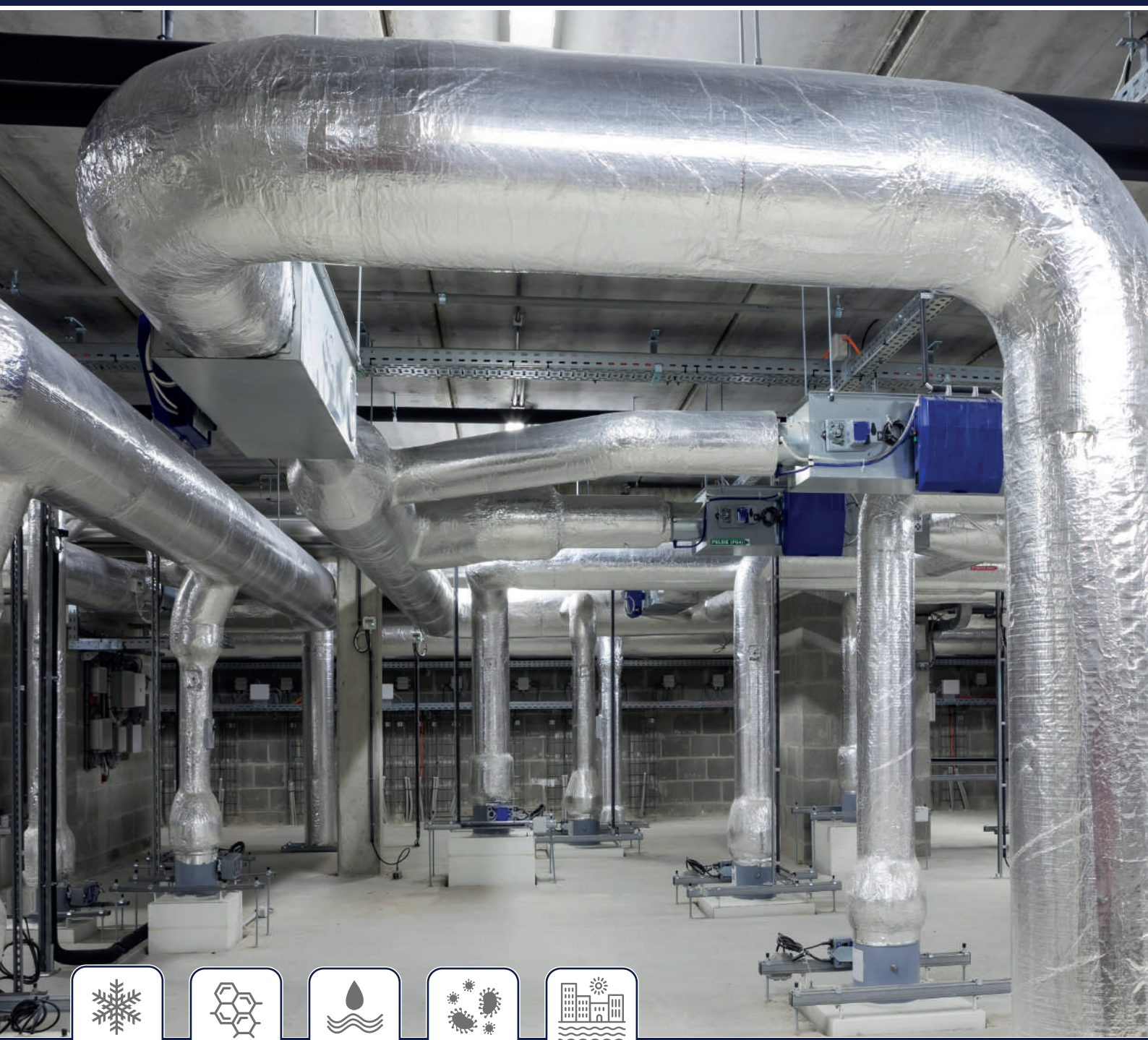


AEROFOAM[®] -XF



Cross-Linked Closed Cell Polyolefin Thermal Insulation Foam



AEROFOAM® XF TUBES, SHEETS & ROLLS

Aerofoam® XF is a cross-linked closed-cell polyolefin thermal insulation foam with factory applied reinforced aluminum foil, designed to control condensation and energy loses. It is suitable for such applications like duct and pipe insulation for air conditioning, cold water, chilled water, hot water and refrigeration.

Designed for indoor and outdoor applications, however outdoor application need additional protection against weather conditions and UV radiation.



FEATURES

- | | | |
|--|--|--|
|  Closed cell structure |  Resistant to bacteria |  Environmentally friendly foam |
|  Prevent condensation |  High mechanical strength |  Ozone Resistant |
|  Excellent thermal efficiency |  Flexible foam easy to install |  Resistant to mold & mildew growth |
|  Suitable for low temperature applications |  Suitable for coastal area applications |  Suitable for cooling & heating systems |

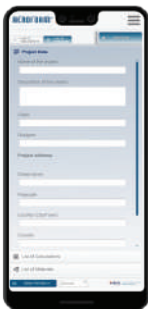
APPLICATIONS



AEROCALC

AEROCALC software is an excellent tool for calculating the optimal thicknesses of insulation. Available as **Desktop**, **iOS** and **Android** applications.

Visit our website: www.aerofoam.ae



Scan the QR code to download the Desktop app.



AEROFOAM® XF TUBES - SIZE RANGE

ID		Thickness									
Inch	mm	10mm (3/8")	12mm (1/2")	15mm (5/8")	20mm (3/4")	25mm (1")	30mm (1-1/6")	32mm (1-1/4")	35mm (1-3/8")	40mm (1-1/2")	50mm (2")
1/4"	6	10x6	12x6	15x6	20x6	25x6	30x6	32x6	35x6	40x6	
3/8"	9	10x9	12x9	15x9	20x9	25x9	30x9	32x9	35x9	40x9	
1/2"	12	10x12	12x12	15x12	20x12	25x12	30x12	32x12	35x12	40x12	50x12
	13	10x13	12x13	15x13	20x13	25x13	30x13	32x13	35x13	40x13	50x13
5/8"	16	10x16	12x16	15x16	20x16	25x16	30x16	32x16	35x16	40x16	50x16
	19	10x19	12x19	15x19	20x19	25x19	30x19	32x19	35x19	40x19	50x19
3/4"	20	10x20	12x20	15x20	20x20	25x20	30x20	32x20	35x20	40x20	50x20
	21	10x21	12x21	15x21	20x21	25x21	30x21	32x21	35x21	40x21	50x21
7/8"	22	10x22	12x22	15x22	20x22	25x22	30x22	32x22	35x22	40x22	50x22
1"	26	10x25	12x25	15x25	20x26	25x26	30x26	32x26	35x26	40x26	50x26
	27	10x27	12x27	15x27	20x27	25x27	30x27	32x27	35x27	40x27	50x27
1-1/8"	28	10x28	12x28	15x28	20x28	25x28	30x28	32x28	35x28	40x28	50x28
1-1/4"	32	10x32	12x32	15x32	20x32	25x32	30x32	32x32	35x32	40x32	50x32
1-1/3"	33	10x33	12x33	15x33	20x33	25x33	30x33	32x33	35x33	40x33	50x33
1-3/8"	36	10x35	12x35	15x35	20x36	25x36	30x36	32x36	35x36	40x36	50x36
	38	10x38	12x38	15x38	20x38	25x38	30x38	32x38	35x38	40x38	50x38
1-1/2"	40	10x40	12x40	15x40	20x40	25x40	30x40	32x40	35x40	40x40	50x40
	42	10x42	12x42	15x42	20x42	25x42	30x42	32x42	35x42	40x42	50x42
1-2/3"	43	10x43	12x43	15x43	20x43	25x43	30x43	32x43	35x43	40x43	50x43
	48	10x48	12x48	15x48	20x48	25x48	30x48	32x48	35x48	40x48	50x48
2"	50	10x50	12x50	15x50	20x50	25x50	30x50	32x50	35x50	40x50	50x50
2-1/8"	54	10x54	12x54	15x54	20x54	25x54	30x54	32x54	35x54	40x54	50x54
2-1/3"	60	10x60	12x60	15x60	20x60	25x60	30x60	32x60	35x60	40x60	50x60
2-1/2"	63	10x63	12x63	15x63	20x63	25x63	30x63	32x63	35x63	40x63	50x63
	65	10x65	12x65	15x65	20x65	25x65	30x65	32x65	35x65	40x65	50x65
3"	75	10x75	12x75	15x75	20x75	25x75	30x75	32x75	35x75	40x75	50x75
	76	10x76	12x76	15x76	20x76	25x76	30x76	32x76	35x76	40x76	50x76
	77	10x77	12x77	15x77	20x77	25x77	30x77	32x77	35x77	40x77	50x77
	80	10x80	12x80	15x80	20x80	25x80	30x80	32x80	35x80	40x80	50x80
3-1/2"	90	10x90	12x90	15x90	20x90	25x90	30x90	32x90	35x90	40x90	50x90
4"	102	10x102	12x102	15x102	20x102	25x102	30x102	32x102	35x102	40x102	50x102
4-1/3"	110	10x110	12x110	15x110	20x110	25x110	30x110	32x110	35x110	40x110	50x110
4-1/2"	115	10x115	12x115	15x115	20x115	25x115	30x115	32x115	35x115	40x115	50x115
5"	125	10x125	12x125	15x125	20x125	25x125	30x125	32x125	35x125	40x125	50x125
	140				20x140	25x140	30x140	32x140	35x140	40x140	50x140
	160				20x160	25x160	30x160	32x160	35x160	40x160	50x160
6-1/2"	166				20x166	25x166	30x166	32x166	35x166	40x166	50x166
	168				20x168	25x168	30x168	32x168	35x168	40x168	50x168
8"	200				20x200	25x200	30x200	32x200	35x200	40x200	50x200
8-3/4"	220				20x220	25x220	30x220	32x220	35x220	40x220	

Length of tubes: 1,5 m for tubes ID <160 mm; 1,2 m for tubes ID >160 mm **Length tolerance:** ±20 mm
ID tolerance: ≤6-50 mm: -1 mm / +1.5 mm; 54-160 mm: -1.5 mm / +2.5 mm; ≥160 mm: -2 mm / +3.5 mm
Thickness tolerance: ≤10-25 mm: ±1.5 mm; 30-50 mm: -2 mm / ±3.5 mm

AEROFOAM® XF SHEETS & ROLLS - SIZE RANGE

Thickness		XF Rolls			XF Sheets		
Inch	mm	WxL m	Without self-adhesive	With self-adhesive	WxL m	Without self-adhesive	With self-adhesive
	3	1.2 mx20 m	3 AL	3 SA-AL	1.2 mx2.4 m	3 AL	3 SA-AL
1/4"	5	1.2 mx20 m	5 AL	5 SA-AL	1.2 mx2.4 m	5 AL	5 SA-AL
3/8"	10	1.2 mx20 m	10 AL	10 SA-AL	1.2 mx2.4 m	10 AL	10 SA-AL
1/2"	12	1.2 mx20 m	12 AL	12 SA-AL	1.2 mx2.4 m	12 AL	12 SA-AL
	15	1.2 mx20 m	15 AL	15 SA-AL	1.2 mx2.4 m	15 AL	15 SA-AL
3/4"	20	1.2 mx20 m	20 AL	20 SA-AL	1.2 mx2.4 m	20 AL	20 SA-AL
1"	25	1.2 mx10 m	25 AL	25 SA-AL	1.2 mx2.4 m	25 AL	25 SA-AL

Thickness tolerance: 3 mm to 5 mm: -1 mm/+1.5 mm; 10 mm to 25 mm: ±1.5 mm
Width tolerance: ±20 mm; **Length tolerance:** Sheets: ±20 mm; Rolls: ±50 mm

CERTIFICATION MARKS

Below material thicknesses had been certified and approved by respective third party certification bodies:

						
Thickness	UL 723		UL 94		FM 4924	
	Tubes	Sheets & Rolls	Tubes	Sheets & Rolls	Tubes	Sheets & Rolls
3 mm		✓	✓	✓	✓	✓
6 mm		✓	✓	✓	✓	✓
13 mm		✓	✓	✓	✓	✓
15 mm			✓	✓	✓	✓
25 mm			✓	✓	✓	✓
30 mm			✓		✓	
40 mm			✓		✓	
50 mm			✓		✓	

ACCESSORIES



TECHNICAL DATA

Description: Aerofoam® XF is a light or dark grey flexible, cross-linked closed-cell polyolefin thermal insulation foam with factory applied reinforced aluminum foil facer for mechanical protection, mainly designed to control condensation and energy losses.

Property	Value/ Assessment	Tested acc. to:
Thermal conductivity at 23 °C	0.032 W/m·K	ASTM C518
Temperature range Max. line temperature <i>Please consult our technical team for applications with temperatures below -40 °C.</i>	+105 °C (+80 °C with PSA*)	ASTM C411
Density of foam core	25 kg/m³ (±3 kg/m³)	
Water vapor diffusion	μ>50000	ASTM E96
Water vapor permeance	0.027 ng/Pa.s.m²	ASTM E96
Water absorption	0.05 kg/m²	BS EN 12087
Reaction to fire	FSI<25 & SDI<50 Class 0 HF-1 Ignitability index: 0 Spread of flame index: 0 Heat evolved index: 0 Smoke developed index: 1	ASTM E84/UL723** BS 476 part 6 & 7 UL94** AS/NZ 1530.3
FM approval	Approved	FM 4924**
Smoke & toxicity	Passed	BS EN 45545
Chemical analysis	<0.05% (water soluble chloride ions) pH - 7.6	ASTM C871
Resistance to fungi	Zero growth	ASTM G21
Resistance to bacteria	Zero growth	ISO 22196
TVOC (Emission rate - 24 hours)	<0.01 mg/m³	CDPH V1.2
Environment friendly Ozone Depletion Potential (ODP) Global Warming Potential (GWP) CFC & HCFC, dust, fibres & asbestos	0 <5 Free	
Note: All outdoor applications of Aerofoam® XF need to be protected by Aerofoam® approved coating or weather resistant cladding. Storage life: <i>Can be stored for 24 months (12 months with PSA*) from manufacturing date in a dry, clean, dust free room at normal humidity and ambient temperature.</i>		

*PSA - Pressure Sensitive Adhesive

** Certificates and classification marks applicable for selected thicknesses only. Please refer to page no. 3 for more details.

Disclaimer: This information on Hira Industries products is presented to the best of our knowledge. All product data is based on average values and is for guidance only. As these products are subject to constant research and development, we reserve the right to update the contents without notice.