

شركة تيسير الخدمات للتجارة Taysseer Services Trading Co.

INDEX

SL.NO.	DESCRIPTION
1	COMPANY PROFILE
2	PRODUCT CAYALOGUE
3	AUTHORIZATION LETTER
4	APPROVAL
5	COUNTRY OF ORIGIN
6	LEGAL DOCUMENTS





COMPANY PROFILE





شركة تيسير الخدمات للتجارة Taysseer Services Trading Co.

INTRODUCTION

About Taysseer Trading

Established in 2009 along way in providing quality Products and Services has emerged as a strong supplier in the phenomenal growth of the KSA. Our collaboration with European American and Asian Companies reflects The initiative of the company to adapt to the ever increasing demands of its local clients which has provided the company with its competitive advantage

The company's headquarter is located in Riyadh a showroom in Riyadh and Dammam and sales office in Riyadh and Dammam Due to is wide market reach it caters extensively to the needs of Air conditioning Refrigeration plumbing contractors of the region

The company has been able to establish a strong and powerful presence in this region with a very good working relationship with most of the reputable HVAC/R consulting and contracting companies in the KSA

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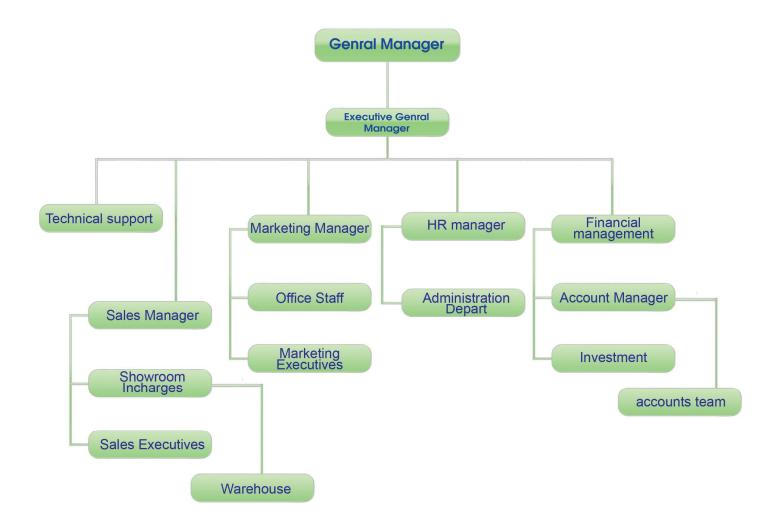
Moreover the company is supported by a team of experienced dedicated Professionals who are well versed with the Air Conditioning Refrigeration business the is displayed in the company's involvement in some of the most Prestigious Projects in KSA

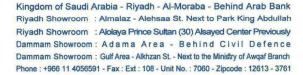
We have storage of quality products like INTERPIPE -NKK seamless pipes . SSP- JAZEERA STEEL welded pipes . HITACHI threded fitting . BENKAN welded fitting . KOFCO flange type HATTER SELY - ECONOSTO - WATTS - SIEMENS valves . DUCTWRAP - DUCT LINER BORD - DUCT LINER PIPE Afico fiber glass insulation . ABRO TAPE U.S.A - ASPEN TAPE U.A.E - CLEAR TAPE Duct accories. FOSTER U.S.A - CRY COAT U.A.E - STAR U.A.E Duct sealant . PABCO Aluminium jackting cladding . FLEXABLE DUCT CONNECTOR - FLEXABLE DUCT -DUCT FLANG - SELF ADHESIVE PINS -DAMPERA ACCESSORIES - GASKET TAPE CRAY FLEX . CLIVIS HANGER -SWIVEL HANGER - CLAMP WITH RUBBER - CLAMP WITH OUT RUBBER - RISER CLAMP - THREDED ROD - NUTS - WASHER - DROP IN ANCHOR - RUBBER SUPPORT - U STRAP TST (TAYSSEER SERVICES TRADING)MADE I N INDIA





ORGANIZATION CHART









		ITEM	2101	
.no.	Item Description	Size		Brand
	FIBERGLASS INSULATION		Afico,Kimmco	A
1	Fiberglass Duct Wrap Insulation FRK			OSE JAFO KIMMO
2	Fiberglass Duct Board Insulation FRK		"	ALIA Media significant
3	Fiberglass Duct LinerBoard AQL		"	
4	Fiberglass Pipe Insulation FRK		" -	
	DUCT & ACCESSORY			
6	Aluminium Jacketing		itw pabco	
6	Insulated Flexible Duct 25Feet long / box	4"-14"Dia	Aeroduct, Caryflex, Isoflex	CDAVELEY
6	Un Insulated Flexible Duct 25Feet long / box	4"-14"Dia	Aeroduct, Caryflex, Isoflex	CHAILFEV
7	Flexible Duct Connector		Durodyne, Aeroduct	BURE
9	Rubber Insulation tube		Gulfoflex, Aeroduct	
10	Copper Pipe (5.8Mtrs length)	5/8" to 4-1/8"Dia	Mueller, China	GULF O FLEX
11	Copper Coil / Refrigeration tube (15Mtrs length)	1/4" to 1"Dia	Mueller, China	MUELLER INDUSTRIES, INC.
12	ADHESIVE		Foster, Starfix	
	81 - 10	5Gal/Pail		CANTAL ES
	30 - 60	5Gal/Pail		
13	Acrylic Duct Sealant (Tube) 32 - 17	24 Pcs/ Box	Foster, Asmaco	STAF
14	Acrylic Duct Sealant (Gallon) 32 - 17	1 Gal.	Foster	ADHESIVE
15	Self Adhesive Pin IF-114 (500Pcs/Box)	1-3/4", 2-1/2"	Durodyne, Aeroduct	DYNE (RAYFLE)
16	Plain Aluminium Tape	2" & 3"	Abro, aspen ,Asmaco	ABRO MIVI SV Asinac
17	Reinforced AluminiumTape/FSK	2" & 3"	Abro, aspen ,Asmaco	INDUSTRIES, INC.
18	PVC pipe wrapping Tape 40ft (54 roll/ Box)	48mm	taiwan	QFRNNIII I
19	Gasket Tape (50Roll/Box)10 Mtrs	6mm x 20mm	cryflex	ILLIUDUCI
20	Self adhesive clear Tape (36Roll/Box)	2", 3" Width	blue bird ,asmaco	GULF O FLEX
21	Volume damper regulator set KS-195	3/8",1/4",1/2"	Durodyne ,raha	BURE
22	Galv. Threaded rod 3mtr length	6mm - 12mm	india ,china	Deuble Regulating
23	Galv. Plain washer	6mm - 12mm	india ,china	
24	Galv.Hex Nut	6mm - 12mm	india ,china	T trum
25	Drop in Anchor	6mm - 12mm	india ,china	
26		25mm - 35mm	cry flange	GROOVED & THREADED FITTINGS & ACCESSOR
27	Duct corner	25mm - 35mm	cry flange	UI., PN, LPCB, VdS Red Paint and galvanised finish Higid and Plexible couplings Fittings include elibows, tees, mechani cornidor tees, reducers, end cays, flar
28			aljazeera	adaptors Grooving machine available UL / YM Galvanized Vinish
1 -0		المالكلمات لا		25 Har Working Pressure Swivel Hangers / Beam Clamps UL / FM - Galvanized Finish

	T T		
30 Pipe Clamp without rubber Liner	1/2" - 8"Dia	seven star ,leader	1
31 Pipe Clamp with rubber liner	1/2" - 8"Dia	seven star ,leader	MA MI MI
32 Galvanized clevis Pipe Hanger	1/2" - 8"Dia	seven star ,leader	THE STATE OF THE PARTY AND ADDRESS OF THE PART
33 Galvanized swivel Hanger	1/2" - 8"Dia	seven star ,leader	
34 Black Steel Seamless Pipe (ASTM- A53)	1/2" - 20"Dia	NKK, Interpipe	@ Hitachi Metals
Black Steel Seamless Fittings, Threaded		Hitachi	— WHICACHI MELAIS
35 Elbow 90° Banded Equal	1/2" - 2"		
36 Elbow 45° Banded Equal	1/2" - 2"		ana /
37 Tee Banded Equal	1/2" - 2"		
38 Tee Banded Reducing	3/4 x1/2" to 2 x 1-1/2"		THE
39 Shoket Banded Equal with Ribs	3/4" - 2"		INDUSTRIES
40 Shoket Banded Reducing	3/4 x1/2" to 2 x 1-1/2"		A Division of Watts Water Technologies In
41 Bushing	3/4 x 1/2" to 2 x 1-1/2"		BENKAN PIPE PITTINGS
42 Nipples Banded	1/2" to 2"		
43 Union	1/2" to 2"		BENKAN
Black Steel Welded Fittings		Benkan	DARLOW STATE OF STATE
44 Elbow 90° L/R Sch.40	1" to 16"		Constitution of the Consti
45 Elbow 45° L/R Sch.40	1' to 16"		
46 Tee Equal, Sch. 40	2-1/2 to 12"		
47 Tee Banded Reducing Sch.40	2-1/2 x 1" to 12" x 10"		
48 CONC. Reducer Sch.40	2 x 1-1/4" to 12" x 10"		Separate designation of the se
49 Flanges S/O. PN 16 RF DIN.	2" to 16"		The continue and the state of t
50 Blind 150Lbs RF	2-1/2" to 12"		The state of the s
51 Blind PN 16 DIN	4" to 12"		Professional and the control of the

* Please ignore the missing sizes

mohamed talaat attia **Taysseer Services Trading Co.**Riyadh
Saudi Arabia.

M:+966 540503256





PRODUCT CATALOGUE









AFICO Complete Thermal & Acoustical Insulation

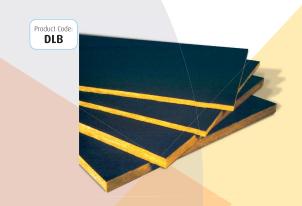
AFICO Complete Thermal & Acoustical Insulation



Product Code DL







AFICO Mechanical Board Insulation

Thickness inches	R-Value ft².hr.°F/Btu
1.0	4.35
1.5	6.52
2.0	8.70
3.0	13.04
4.0	17.39

 Std Density
 : 48 kg/m³ (3.0 lb/ft³)

 Std Size
 : 1.2 m x 1.0 m

 Facing
 : Foil Reinforced Kraft (FRK)
 0.033 w/m.°C at 24°C (0.23 Btu.in/ft².hr.°F at 75°F) K-Value

APPLICATION AREAS

 Heating Ductwork Air-conditioning
 Machine Rooms · Boiler Rooms

AFICO Duct Liner

ACOUSTICAL PERFORMANCE						
Density Kg/m³	Thickness mm	NRC				
	25	0.65				
16	38	0.75				
	50	0.80				
	25	0.75				
24	38	0.90				
	50	0.95				
	25	0.85				
48	38	0.95				
	50	1.05				

Density K-Value (at 24°C)					
16	0.039				
24	0.035				
48	0.031				

Facing: Black Glass Tissue (BGT)

APPLICATION AREAS

- · HVAC work
- Perforated Suspended
 Ceilings Studios
 Auditorium Rooms

- · Generators Rooms

AFICO Faced Duct Wrap

	Density Kg/m³ (lb/ft³)		kness (inch)	K-V w/m.°C	alue (at 24 °C)		alue °C/w
12	(.75)	25	(1)	0.04	(0.28)	.625	(3.57)
12	(.75)	50	(2)	0.04	(0.28)	1.25	(7.14)
16	(1.0)	25	(1)	0.039	(0.27)	.64	(3.7)
16	(1.0)	50	(2)	0.039	(0.27)	1.28	(7.4)
24	(1.5)	25	(1)	0.035	(0.24)	.714	(4.167)
24	(1.5)	50	(2)	0.035	(0.24)	1.282	(8.33)
48	(3)	25	(1)	0.031	(0.22)	0.758	(4.35)
48	(3)	50	(2)	0.031	(0.22)	1.515	(8.696)

CONVERSION

Density : $1 \text{ lb/ft}^3 = 16 \text{ kg/m}^3$ **Thickness** : 1 in = 25.4 mm

: Btu.in/ft².hr.°F = 0.14286 w/m.°C K-value : 1 ft².hr.°F/Btu = 0.175 m².°C/w

APPLICATION AREAS

- Air-conditioning
 Heating ductwork
- Containers

AFICO Duct Liner Board

Acoustical Performance							
Density Kg/m³	Thick in	NRC					
	1/2	15	0.50				
48	1	25	0.85				
	1 ½	38	0.95				
	2	50	1.05				

48 kg/m³ (3.0 lb/ft³) Std Size 1.2 m x 1.0 m Facing

K-value

Black Glass Tissue (BGT) 0.031 w/m.°C at 10°C (0.21 Btu.in/ft².hr.°F at 50°F)

APPLICATION AREAS

· Perforated Suspended HVAC work

· Ceilings Studios · Auditorium Rooms · Generators Rooms · Conference Rooms



Product Code: Ы

Product Code: **ACP**

AFICO Residential Cavity Wall Insulation

Mean Tem	peratures	W/m.°C	Btu.in/ft².hr.°F
10°C	50°F	0.034	0.24
24°C	75°F	0.035	0.24
50°C	122°F	0.042	0.29
75°€	167°F	0.047	0.33
100°C	212°F	0.052	0.36

Std.Normal Density : $26\text{-}27 \text{ kg/m}^3$ – 1.6 – 1.7 lb/ft^3 Nominal Thermal Conductivity : (BS 874) (ASTM C 518)

APPLICATION AREAS

- Poultry Farms
- · Prefabricated Houses
- · New Residential Villa
- Precast Structures
- · Partial or Fully Cavity Wall

AFICO Heavy Density Pipe Insulation

Piping System Types	Fluid Temperature Range °C	Runouts up to 50	25 & under	32 to 50	64 to 100	125 to 150	200 & over	
Heating Systems Steam and Hot Water: High Pressure/	Minimum Insulation (mm) for pipe sizes							
Temperature Medium Pressure/	152-151	40	64	64	75	89	89	
Temperature Low Pressure/	122-151	40	50	64	64	75	75	
Temperature	94-121	25	40	40	50	50	50	
Low Temperature Steam Condensate	49-93	13	25	25	40	40	40	
For Feed Water Cooling Systems	Any	25	25	40	50	50	50	
Chilled Water Refrigerant, or Brine	4.5-13 Below 4.5	13 25	13 25	25 40	25 40	25 40	25 40	

: Foil Reinforced Kraft (FRK) Facing

All Service Jacket (ASJ) : 64-128 kg/m³ (4-8 lb/ft³) Density

Temperature

Tolerance : -18°C to +450°C 0 to +850°F

Std length : 1 m Normal Pipe sizes from $1\!\!/2''$ to 26"

APPLICATION AREAS

Industrial Pipes (Hot)Chiller Pipes (cold)

· Commercial/Domestic Projects

· Steel/pipes & plastic piping and copper pipes

AFICO Acoustic Ceiling Panels

AFICO Pipe Wrap Insulation

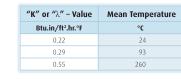
Thermal & Acoustic Performances							
R-Value m³.°C/w	STC						
0.45	50						
0.61	52						
0.76	54						
1.15	56						
1.52	64						
	R-Value m³.°c/w 0.45 0.61 0.76 1.15						

Std. Density: 56 kg/m³ (3.5 lb/ft³) **Facing**: PVC film – various Design (Random Fissured, Shasta, Woven Mat, Vinta) Standard Sizes

610 x 1220 mm 600 x 1200 mm 600 x 600 mm 610 x 610 mm

APPLICATION AREAS

- · Schools Open officesBoard Rooms Stores
- · Shopping Centers · Show Rooms

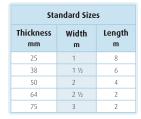


 $\textbf{Density}: 48 \text{ and } 64 \text{ kg/m}^3$



- · Valves
- Pipe FlangesGroup of Pipes • Tanks
- · Round Ducts · Large Diameter Pipes

Product Code:			
1			
			2
	11/1/		







TIW

Product Code: BD





*Nominal Manufacturing Specifications. Check for availability of other dimensions and densities. *The facings are also available with UL fire resistant rating.

AFICO Blanket Insulation

Thic	kness	Thermal Resistance(R)	
mm	in	m².°C/W	hr .ft².°F/Btu
25	1	0.63	4
38	1 ½	0.95	5
50	2	1.25	7
64	2 ½	1.60	9
75	3	1.88	11
89	3 ½	2.23	13
100	4	2.50	14
150	6	3.75	21

Density From 12 up to 56 kg/m³ From 0.04 – 0.033 w/m.°C Available unfaced or K-Value Facing with (FRK facing) or

A**l**uminum Foil Ğlass R-Values (for K-Values=0.04)

APPLICATION AREAS

- Prefabricated HousesCavity Walls
- Partitions
- · Poultry Farms
- · Backloading of Ceiling
- Sandwich Panels

AFICO Thermal Insulating Wool Insulation

Mean Temperature	"Κ" or "λ' W/N	
	Type I	Type II
24°C 75°C	0.039	0.033
93°C 200°F	0.058	0.043
149°C 300°F	0.079	0.055

Available unfaced in two types

: 16-24 kg/m³ density : 38 kg/m³ density TIW Type I TIW Type III Temperature Tolerance: up to +540°C (+1000°F)

APPLICATION AREAS

- Water HeatersChimney StacksPetrochemical Storage Tanks · Boilers
- · Ovens

AFICO Board Insulation

PRODUCT TYPE BD	Thickn	CON		THERMAL CONDUCTIVITY (K-VALUE)		ERMAL ISTANCE VALUE)
	mm	in	W/m.°C	Btu.in/ft².hr.°F	m².°C/W	hr.ft².°F/Btu.
480 (48 kg/m³)	25 38 50	1 1 ½ 2	0.033 0.033 0.033	0.023 0.023 0.023	0.758 1.152 1.515	4.35(4) 6.52(7) 8.70(9)
640 (64 kg/m³)	25 38 50	1 1 ½ 2	0.032 0.032 0.032	0.022 0.022 0.022	0.781 1.188 1.563	4.55(5) 6.82(7) 9.09(9)
960 (96 kg/m³)	25 38 50	1 1 ½ 2	0.032 0.032 0.032	0.022 0.022 0.022	0.781 1.188 1.563	4.55(5) 6.82(7) 9.09(9)

Density: From 24 kg/m³ up to 112 kg/m³ Available unfaced as standard and faced upon request **R-Values of Standard Products**

*24°C/75°F mean temperature

APPLICATION AREAS

- Precast Structures
 Internal partitions
 Roof (112 kg/m³)
 Residential Cavity Walls (26 kg/m³)

AFICO Quiet Liner

Acoustic Performance					
Thickness mm	NRC				
25	0.60				
50	0.85				
25	0.75				
50	0.95				
15	0.40				
25	0.80				
50	1.00				
	Thickness mm 25 50 25 50 15 25				

Density Kg/m³	K-value at 24°C w/m.°C
16	0.039
24	0.035
48	0.031

APPLICATION AREAS

- Sound Absorption Treatment of Walls
- Studios Theatres
 Auditoriums
- · Cei**l**ing Generator Rooms

Product Code: MBI

AFICO Pre-Engineered Metal **Building Insulation**

• R-Values

Thic	kness	K-Value		R-V	alue
mm	in	m².°C/W	hr .ft².°F/Btu	mm	m
25	1	0.63	4	900-1100	10-36
38	1 ½	0.95	5	in	ft
50	2	1.25	7	36-44	30-120
64	2 1/2	1.60	9		(depending
75	3	1.88	11		on thickness)
89	3 ½	2.23	13		
100	4	2.50	14		
150	6	3.75	21		

White Metalized Scrim Kraft (WMSK)

APPLICATION AREAS

- · Metal Building
- · Poultry Farms

AFICO Roof Deck Insulation

PRODUCT TYPE BD	Thickn	CON		THERMAL CONDUCTIVITY (K-VALUE)		ERMAL ISTANCE VALUE)
	mm	in	W/m.°C	Btu.in/ft².hr.°F	m².°C/W	hr.ft².°F/Btu.
480 (48 kg/m³)	25 38 50	1 1 ½ 2	0.031 0.031 0.031	0.022 0.022 0.022	0.758 1.152 1.515	4.35(4) 6.52(7) 8.70(9)
640 (64 kg/m³)	25 38 50	1 1 ½ 2	0.032 0.032 0.032	0.022 0.022 0.022	0.781 1.188 1.563	4.55(5) 6.82(7) 9.09(9)
960 (96 kg/m³)	25 38 50	1 1 ½ 2	0.032 0.032 0.032	0.022 0.022 0.022	0.781 1.188 1.563	4.55(5) 6.82(7) 9.09(9)

Density Temperature : 112 kg/m³ - 7.0 lb/ft³

Tolerance Std length -18°C to +450°C 0 to +850°F : 1m

APPLICATION AREAS

- Roof DecksPoultry FarmsPrefabricated Houses

AFICO Woven Facing

Piping System Types	Fluid Temperature Range °C	Runouts up to 50	25 & under	32 to 50	64 to 100	125 to 150	200 & over
Heating Systems Steam and Hot Water: High Pressure/	٨	Minimum Insulation (mm) for pipe sizes					
Temperature Medium Pressure/	152-238	40	64	64	75	89	89
Temperature Low Pressure/	122-151	40	50	64	64	75	75
Temperature	94-121	25	40	40	50	50	50
Low Temperature Steam Condensate	49-93	13	25	25	40	40	40
For Feed Water Cooling Systems	Any	25	25	40	50	50	50
Chilled Water Refrigerant, or Brine	4.5-13 Below 4.5	13 25	13 25	25 40	25 40	25 40	25 40

: Foil Reinforced Kraft (FRK) Facing All Service Jacket (ASJ) 64-128 kg/m³ (4-8 lb/ft³)

Temperature Tolerance

: -18°C to +450°C 0 to +850°F : 1 m

Std length

Normal Pipe sizes from $1/2^{\prime\prime}$ to 26 $^{\prime\prime}$



- Industrial Pipes (Hot)Chiller Pipes (cold)Commercial/Domestic Projects



"Nominal Manufacturing Specifications. Check for availability of other dimensions and densities.

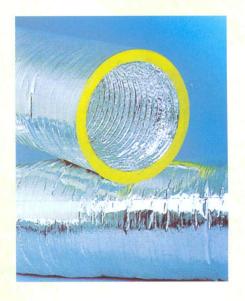
The facings are also available with UL fire resistant rating.

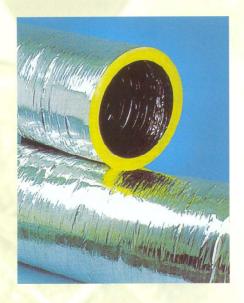
Product Code:

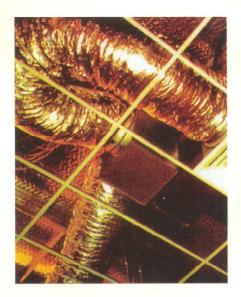
CRAYFLEX

The Leader in Flexible Air Ducting









Manufactured Under License & Technical Collaboration of

M/s BJC Enterprises Pty Ltd

(Formerly C&C Manufacturing Pty Ltd.)

Owners of SUPAFLEX Trademark in AUSTRALIA

20 fisher street, (P.O. Box: 122), Belmont western Australia 6104 www.bjcenterprises.com.au



PRODUCT DESCRIPTION

CRAYFLEX® is a very strong fully flexible, compressible light weight duct which is widely used in Air Conditioning and Ventilation

Systems for Commercial, Industrial and Residential applications.

CRAYFLEX® is extremely durable and will maintain dimensional stability when fully extended. Highly efficient when correctly installed, CRAYFLEX® provides a maintenance free service life under normal operating conditions.

Attention is drawn to the requirement that flexible duct must always be fully extended and bends made with adequate radius to prevent corrugation of the interior with consequent excessive resistance to airflow.



APPLICATIONS AND BENEFITS

- Ideal for all Air Conditioning / Ventilating Systems including Hospitals, Hotels, Commercial and office Buildings and many other Industrial and Residential applications.
- Available bare or pre-insulated with fiberglass insulation.
- Offers a high degree of flexibility, which allows it to be easily connected to any desired position.
- A quick and economical means of correcting misalignment between system components.
- Allows ducting around obstacles where fabricated and fitted ducts would be difficult and costly to install.

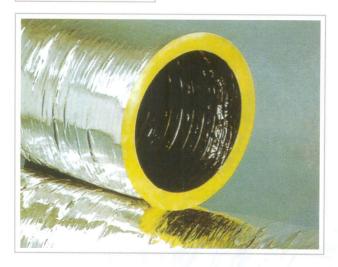
FEATURES AND CHARACTERISTICS

- Tear and puncture resistant construction.
- CRAYFLEX® offers a smooth inner core when correctly installed which provides low friction loss.
- Highly resistant to corrosion and micro organisms.
- Able to withstand medium air pressure.
- Low operating cost.
- Compressed ducts reduces freight and storage costs.
- No air leakage.
- Fire rated to confirm British and Australian Fire Standards.
- Spring steel wire helix assures dimensional stability, resists mechanical abuse and provides more efficient air distribution.

CRAYFLEX® INSULATED AND NON-INSULATED PRODUCTS & PERFORMANCE DATA

CRAYFLEX®

M₁B



CRAYFLEX M1B is made of tough polyester, permanently bonded to a spring steel wire helix and coloured black. Thermal efficiency is provided by wrapping the exterior with a blanket of fiberglass insulation. The strong outer insulation jacket/vapour barrier is made of metallized polyester film laminate.

Standard length Standard diameters Velocity Fire Rating

Puncture test
Temperature Range
Pressure
Insulation Thickness available
Insulation Density available
Insulation R Value
Packing

25 Ft
4" to 18"
5,000 fpm maximum
Complies with AS 4254 - 1995
and amendments.
Complies with UL 181 Part 14
32 - 200°F (0°C to 93°C)
max 8"w.g positive and 3¼"negative
25mm (1"), 38mm (1.5"), 50mm(2")
16 Kg/m³ / 24Kg/m³ /32 Kg/m³
4.2 (oF-Ft2-hr/BTU)/6.0/8.0
1 piece (25 ft) per carton

CRAYFLEX®

M₁A

CRAYFLEX M1A is made of double laminate of a tough clear Polyester and a metallized polyester film and aluminium coloured core. Thermal efficiency is provided by wrapping the exterior with a blanket of fiberglass insulation. The strong outer insulation jacket/vapour barrier is made of metallized polyester film laminate.

Standard length Standard diameters Velocity Fire Rating

Puncture test
Temperature Range
Pressure
Insulation Thickness available
Insulation Density available
Insulation R Value
Packing

25 Ft
4" to 18"
5,000 fpm maximum
Complies with AS 4254 - 1995
and amendments.
Complies with UL 181 Part 14
32 - 200°F (0°c to 93°c)
max 8"w.g positive and 3/4"negative
25mm (1"), 38mm (1.5"), 50mm(2")
16 Kg/m³ / 24Kg/m³ / 32 Kg/m³
4.2 (oF-Ft2-hr/BTU)/6.0/8.0
1 piece (25 ft) per carton



CRAYFLEX®

13APM



CRAYFLEX 13APM is made of triple lamination of aluminium foil, polyester and metallized polyester film permanently bonded to a coated spring steel wire helix. Thermal efficiency is provided by wrapping the exterior with a blanket of fiberglass insulation. The strong outer insulation jacket / vapour barrier is made of metallized polyester film laminate.

Standard length
Standard diameters
Velocity
Fire Rating
Puncture test
Temperature Range
Pressure
Insulation Thickness available
Insulation R Value
Packina

25 Ft
4" to 18"
5,000 fpm maximum
Certified to BS 476 parts 5,6 and 7
Complies with UL 181 Part 14
32 - 200°F (0°c to 93°c)
max 10"w.g positive and 3/4"negative
25mm(1"), 38 mm(1.5"), 50mm(2")
16 Kg/m³, 24kg/m³ / 32 Kg/m³
4.2 (oF-Ft2-hr/BTU)/ 6.0/8.0
1 piece (25 ft) per carton

Designed to meet BS 5588 part 9

CRAYFLEX®



CRAYFLEX 16APM is made of six laminate of double aluminium foil, double polyester and double metallized polyester film permanently bonded to a coated spring steel wire helix. Thermal efficiency is provided by wrapping the exterior with a blanket of fiberglass insulation. The strong outer insulation jacket / vapour barrier is made of metallized polyester film laminate.

Standard length 25 Ft Standard diameters 4" to 18" Velocity 5,000 fpm maximum Fire Rating

Certified to BS 476 parts 5,6 and 7

Puncture test Temperature Range

32 - 200°F (0°C to 93°C) max 10"w.g positive

Pressure

and 3/4" negative

Complies with UL 181 Part 14

Insulation Thickness available

25mm(1"), 38 mm(1.5"), 50mm(2")

Insulation Density available Insulation R Value Packing

16 Kg/m³ / 24kg/m³ / 32 Kg/m³

4.2 (oF-Ft2-hr/BTU)/6.0/8.0 1 piece (25 ft) per carton

Designed to meet BS 5588 part 9

CRAYFLEX®

13APM-D

CRAYFLEX 13APM-D is an uninsulated duct made of a triple lamination of aluminium foil, polyester and metallized polyester films permanently bonded to a coated spring steel wire helix.

Standard length

25 Ft

Standard diameters Velocity

4" to 20"

5,000 fpm maximum

Fire Rating

Certified to BS 476 parts 5,6 and 7

Recommended Operating

Pressure

6" w.g. Pos, all Dia. 1/2" w.g.

neg all dia.

Packing

1 piece (25 ft) per carton

Designed to meet BS 5588 part 9



CRAYFLEX®

CRAYFLEX 16APM-D is an uninsulated duct made of a six laminate of double aluminium foil, double polyester and double metallized polyester films permanently bonded to a coated spring steel wire helix.

Standard length

25 Ft

Standard diameters

4" to 20"

Velocity

5,000 fpm maximum

Fire Rating

Certified to BS 476 parts 5,6 and 7

Recommended Operating

Pressure

6" w.g. Pos, all Dia. 1/2" w.g.

neg all dia

Packing

1 piece (25 ft) per carton

Designed to meet BS 5588 part 9



CRAYFLEX®





CRAYFLEX M1A-D is an uninsulated duct made of a triple lamination of aluminium foil, polyester and metallized polyester films permanently bonded to a coated spring steel wire helix.

Standard length

25 Ft

Standard diameters

4" to 20"

Velocity

5,000 fpm maximum

Fire Rating

Complies with AS 4254 - 1995

and amendments.

Recommended Operating

Pressure

6" w.g. Pos, all Dia. 1/2" w.g.

neg all dia.

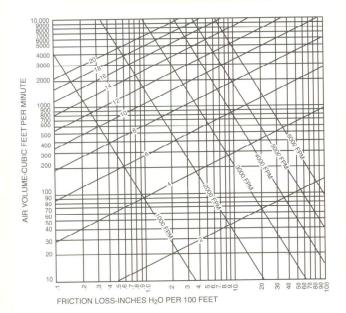
Packing

1 piece (25 ft) per carton

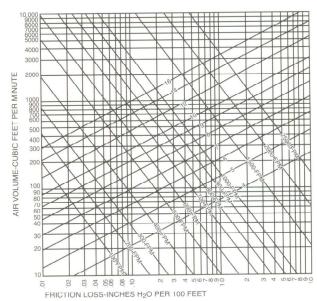
For Specific application the Combination of various densities and thickness of fiberglass Insulation can be used for Manufacturing flexible duct.

FLEXIBLE DUCT - FRICTION LOSS DIAGRAM

FLEXIBLE DUCT - STRAIGHT RUN FRICTION LOSS PER 100 FT



FLEXIBLE DUCT - STRAIGHT RUN FRICTION LOSS PER 100 FT



DISTRIBUTER



Manufactured by

FOCUS AIR CONDITIONING INDUSTRIES LLC

An ISO 9001: 2008 Certified Company

P.O.Box 37945, Dubai, U.A.E., Website: www.focusaircon.net

SPEN SPEN TAPES

















Technical Data (Aspen-30 Aluminum Foil Tape)



ASPEN - 30 APS

Plain Aluminum Foil Tape application is for sealing and seaming plain foil/FSK faced fiberglass duct/pipe insulation surface. Protection against moisture combined with superior sealing and strength makes Aspen range of Aluminum Foil Tapes an ideal choice for contractors and engineers. Acrylic adhesive coating on superior polycoated liner gives it strong adherence over a wide temperature range.

Substrate	Soft Aluminum	Specification	PSTC / ASTM
Adhesive	Proprietory Formulated Acrylic	Temp Resistance	30°F to 250°F
Foil Thickness	25/30 Microns	Rolling Tack	4" (7/16" ball)
Colour	Metalic Silver	Elongation	4%
Peel Adhesion	83oz / inch width	Tensile Strength	17lbs / inch width
Global warming Potential	0(Zero)	Ozone Depletion	5
Nominal widths available	2" (48 mm), 3" (72 mm) & 4" (96 mm)	Lengths available	25, 30, 40, 50 yard

ASPEN - 30 APS

TEST FOR	TESTING AUTHORITY	TEST METHOD
Tensile Strength	Al-Futtaim EXOVA	ASTM D 882
Fire Rating	Exova Warringtonfire	BS 476: Part 6, Part 7; Class "O"

Aluminum FSK (Foil/Serim/Krafi) Tape

Technical Data (Aspen-FSK Tape)



ASPEN - 30 AFS

A High Quality tape, having an Aluminum-reinforced substrate gives it exceptional tensile strength, and higher rolling tack. Due to its superior engineering construction, contractors and engineers prefer it for very high quality seaming and sealing of fiberglass duct insulation and pipe insulation. Acrylic adhesive selection gives a strong bond over a wide temperature range in addition to a good vapour barrier and an aesthetic appeal.

Substrate	Aluminum Foil/Scrim/Kraft	Specification	PSTC / ASTM
Adhesive	Proprietory Formulated Acrylic	Temp. Resistance	30°F to 250°F
Foil Thickness	195-200 Microns Excluding Liner	Rolling Tack	7-7/8" (7/16" ball)
Colour	Metalic Silver	Adhesion to liner	1.8oz / inch width
Peel Adhesion	83oz / inch width	Tensile Strength	22lbs / inch width
Global warming Potential	O(Zero)	Ozone Depletion	5
Nominal widths available	2" (48 mm), 3" (72 mm) & 4" (96 mm)	Lengths available	25, 30, 40, 50 yard

ASPEN - 30AFS

TEST FOR	TESTING AUTHORITY	TEST METHOD
Tensile Strength	Al-Futtaim EXOVA	ASTM D 638 : 03
Water Vapour Permeability	Al-Futtaim EXOVA	ASTM E 96
Fire Rating	Exova Warringtonfire	BS 476: Part 6, Part 7; Class "O"



High Shear Quality

Technical Data (Aspen-30 Aluminum Foil Tape)

ASPEN - 30 APHS

Plain Aluminum Foil Tape application is for sealing and seaming plain foil/FSK faced fiberglass duct/pipe insulation surface. Protection against moisture combined with superior sealing and strength makes Aspen range of Aluminum Foil Tapes an ideal choice for contractors and engineers. Acrylic adhesive coating on superior polycoated liner gives it strong adherence over a wide temperature range and particularly perform well in hot climatic conditions.

Substrate	Soft Aluminum	Specification	PSTC / ASTM
Adhesive	Solvent Acrylic Adhesive	Temp Resistance	30°c to 120°c
Foil Thickness	25/30 Microns	Rolling Tack	4" (7/16" ball)
Colour	Metalic Silver	Elongation	3%
Peel Adhesion	20 N/25mm	Tensile Strength	45 N/25mm
Global warming Potential	O(Zero)	Ozone Depletion	5
Nominal widths available	2" (48 mm), 3" (72 mm) & 4" (96 mm)	Lengths available	25, 30, 40, 50 yard

ASPEN - 30 APS

TEST FOR	TESTING AUTHORITY	TEST METHOD
Tensile Strength	Al-Futtaim EXOVA	ASTM D 882
Fire Rating	Exova Warringtonfire	BS 476: Part 6, Part 7; Class "O"

Aluminum FSK (Foil/Serim/Kraft) Tapə

High Shear Quality

Technical Data (Aspen-FSK Tape)

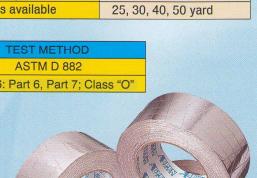
ASPEN - 30 AFHS

A High Quality tape, having an Aluminum-reinforced substrate gives it exceptional tensile strength, and higher rolling tack. Due to its superior engineering construction, contractors and engineers prefer it for very high quality seaming and sealing of fiberglass duct insulation and pipe insulation. Acrylic adhesive selection gives a strong bond over a wide temperature range in addition to a good vapour barrier and an aesthetic appeal and particularly perform well in hot climatic conditions.

Substrate	Aluminum Foil/Scrim/Kraft	Specification	PSTC / ASTM
Adhesive	Solvent Acrylic Adhesive	Temp. Resistance	30°c to 80°c
Foil Thickness	195-200 Microns Excluding Liner	Rolling Tack	7-7/8" (7/16" ball)
Colour	Metalic Silver	Adhesion to liner	1.8oz / inch width
Peel Adhesion	20 N/25mm	Tensile Strength	120 N/25mm
Global warming Potential	0(Zero)	Ozone Depletion	5
Nominal widths available	2" (48 mm), 3" (72 mm) & 4" (96 mm)	Lengths available	25, 30, 40, 50 yard

ASPEN - 30AFS

TEST FOR	TESTING AUTHORITY	TEST METHOD
Tensile Strength	Al-Futtaim EXOVA	ASTM D 638 : 03
Water Vapour Permeability	Al-Futtaim EXOVA	ASTM E 96
Fire Rating	Exova Warringtonfire	BS 476: Part 6, Part 7; Class "O"

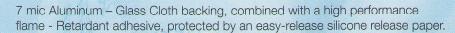




Alu Class Cloth Tape Flame Retardant/ Non flame Retardant

MODEL NO: 30 AGF / 30 AGN

PRODUCT DESCRIPTION





- Aluminum Glass Cloth backing provides excellent reflection of both heat and light
- High quality adhesive with super strong adhesive and holding power offers reliable and durable Aluminum Glass Cloth Facing joints and seams sealing in industrial pipe thermal insulation application
- It is Excellent Vapor barrier due to Low moisture vapor transmission rate
- Service Temperature range from ~20~ + 120°C (~4~ + 248°F)

TYPICAL PHYSICAL PROPERTIES					
PROPERTIES	METRIC	ENGLISH	TEST METHOD		
Alum. Foil Thickness	7 Micron	0.28 Mil	PSTC-33		
AlumGlass Cloth Backing	120 Micron	5.2 Mil	PSTC-33		
Total Thickness (Backing+Adhesive)	170 Micron	7.4 Mil	PSTC-33		
Peel Adhesive to Stainless Steel	25 N/25 mm	90 Oz. / In.	PSTC-1		
Peel Adhesive of Backing	25 N/25 mm	90 Oz. / In.	PSTC-1		
Rolling tack (11 mm ball)	20 cm	8.0 ln	PSTC-6		
Holding Power	5,000 + Min	5,000 + Min.	PSTC-7		
Service temperature Ranger	~20~ + 120°C	~4~ + 248°F			
Fire Rating	Class	Class "0"	BS476Pt.6 & Pt.7		

ASPEN - ALUGLASS

TEST FOR	TESTING AUTHORITY	TEST METHOD
Tensile Strength	Al-Futtaim Bodycote	ASTM D 638
Fungal Resistance	Al-Futtaim Exova	ASTM G 21 – 96 (Reapproved 2002)

TYPICAL APPLICATIONS

HVAC industry for joining and sealing Alum.-Glass Facing laminated fiberglass blanket / duct board joints and seams; joining and sealing industrial pipe insulation' seams and connections. May also be used for other industrial uses requires characteristics and benefits.

PRODUCT FORM & SIZE AVAILABLE				
Nominal Width (mm)	48	72	96	
Length (Yds)	25/30/40	25/30/40	25/30/40	
Rolls / Carton	24	16	12	

STORAGE & SHELF LIFE: ONE YEAR WHEN STORED AT 21° c (70°F) /50% relative humidity out of direct sunlight.

SURFACE PREPARATION: It is essential, as with all pressure – sensitive tapes, that the surface to which the tape is applied must be clean, dry, free of grease, oil or other contaminates.

PRODUCT USE: It is essential that the user evaluate the FOCUS product to whether it is fit for a particular purpose and user's method of application. Good result will be obtained when

applied to a clean, dry surface with a suitable pressure on FOCUS product between + 10 +40°C (+50 +105°F)

Always ensure that the surface of application of type is clean and free from dust and oil.

All statements, technical information, recommendations are based on test conducted by us. These should not be taken to frame specification. Before using, user shall determine the suitability of the product for his intended use FOCUS cannot be responsible for the misuse of it's product, nor for responsible for the misuse of it's product, nor for the consequence of the usage for non recommended applications.

FOCUS offers limited guarantees for the replacement of product found defective against manufacturing defects only if any and do not agree for covering consequential claims.



EVA FOAM TAPE

SINGLE SIDE FOAM TAPE

Soft EVA foam of 3 min thickness coated with aggressive Acrylic based pressure sensitive adhesive, which has good Shear resistance, High peel Adhesion and suitable for duct insulation. It is backed with Silicone paper. The Adhesive has very good adhesive to Aluminum, glass surface.



APPLICATIONS

The Tape has excellent conformability and is suitable for

- Duct Insulation as in refrigeration and Air Conditioning
- As heat Insulator
- For Sealing purpose
- Sealing of Double-glazing units

SPECIFICATIONS

Thickness of foam : 3 MM / 4MM / 5MM / 6MM

Type of Adhesive : Acrylic based
Temperature Resistance : 70 deg C

Tensile strength : 1 kg / 25 mm width

Elongation : 10%

Adhesive : 700 gm / 25 mm

Core ID : 76 MM

Release Liner : Silicone Paper

VOC tested & certified as per test method : CHEM 4051

STANDAI	STANDARD SIZES AND PACKING				
Width (mm)	24	48			
Length	7.5	7.5			
Roll / Carton	60	30			

Always ensure that the surface of application of type is clean and free from dust oil. All statement, technical information, recommendation are based on tests conducted by us, These should not be taken to frame specifications.

Before using, user shall determine the suitability of the product for this intended use FOCUS cannot be responsible for the misuse of it's product, nor the for the consequences of the usage for the non recommended applications.

FOCUS offers guarantees for the replacement of product found defective against manufacturing defects only and do not agree for covering consequential claims.



DUCT TAPE SILVER GREY CLOTH

PRODUCT DESCRIPTION

Cloth Duct Tape adopts PE-coated cloth as backing with rubber-resin adhesive coated. It enjoys high tensile strength, excellent moisture resistant, easy tear. It conforms well to irregular surface.

It is good choice for bundling, heavy carton packing, general maintenance, pipe wrapping, carpet fixing, air-conditioning duct's seam and joint sealing etc.



TYPICAL PHYSICAL PROPERTIES

	CLOTH DUCT TAPE WITH RUBBER-RESIN ADHESIVE						
Product	Mesh	Color	Thickness Range in Microns	Adhesion N/25mm	Tensile N/25mm	Elongation %	Service Temp. 0C °
CT 1503	27	Silver Grey	150~250	25	100	15	-20~+60

PRODUCT FORM & SIZE AVAILABLE

Nominal Widths: 2", 3", 4" Nominal Length: 30 Yards

IMPORTANT NOTE

The data above are typical values only, and should not be used for specifications purpose. Tolerance: Weight and Thickness: ±10%; Width: ±3mm; Length: Cut Roll: ±0.3m, Jumbo Roll: ±0.5%

STORAGE & SHELF LIFE

12 months when stored at 21° C (70° F) / 50% relative humidity out of direct sunlight.

PRODUCT USE

It is essential that the user evaluate the ASPEN Tape to determine whether it is fit for a particular purpose and user's method of application. Good results will be obtained when applied to a clean, dry surface with a suitable pressure on ASPEN Tape between $+10 \sim +40^{\circ} \text{ C}$ ($+50 \sim +105^{\circ} \text{ F}$)



Manufactured by

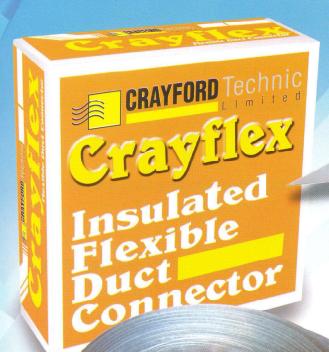
FOCUS AIR CONDITIONING INDUSTRIES LLC

An ISO 9001: 2008 Certified Company

P.O.Box 37945, Dubai, U.A.E., Website: www.focusaircon.net

Crayflex

INSULATED FLEXIBLE DUCT CONNECTOR



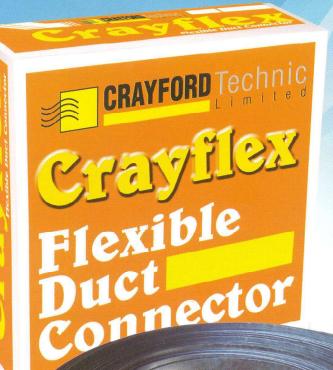


- Insulation 4.2 R Value Quick and Economical
- Fabric with Double UV Protection
- Unnmatched Durability and Strength
- O Available in various widths
- **Description Z27** (G90) coated steel giving added corrosion resistance





CTAY Elexible Duct Connector



- Quick and economical
- Strong Airtight Lock Seams
- Fabric with Double UV Protection
- Unmatched Durability and Strength
- Available in various widths

Crayflex®

Flexible Duct Connector uses 24 gauge or 28 gauge galvanized steel sheet complying

ASTM A 653(Formerly ASTM 525) & ASTM A 924 with zinc coating of Z 27 (G90) to give added corrosion resistance

Corrosion resistance.

Crayflex Fabrics are complying to UL 214 and BS 476 Part 7 (Class 1). Design to meet NFPA 701(formerly UL214)

Crayford Flexible Duct connector Standard roll length available in 100 feet and 150 feet.



PRODUCT

Crayflex® is a very strong, fully flexible duct connector and is widely used in Air Conditioning Systems for Commercial, Industrial and Residential applications.

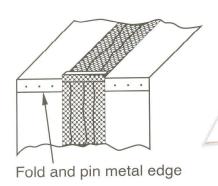
Ready carton dispensing completes the fabrication quicker, more efficiently, and more economically than conventional method.

APPLICATION

Isolation of sound and vibration from the source, double lock seam jointed duct flexible connector fabric is used which is fixed to galvanized steel sheet metal is anchored with the equipment and the other end is anchored with the ductwork.

It is recommended that larger fabric widths be used for better results in vibration isolation thereby preventing metal to metal contact. Crayflex® offers flexibility in fabric and metal width, mostly available ex-stock.

Crayflex® flexible duct connector fabric complying BS3424 & BS5438. All Crayflex® flexible duct connector are designed to meet UL 214 and are airtight and waterproof.



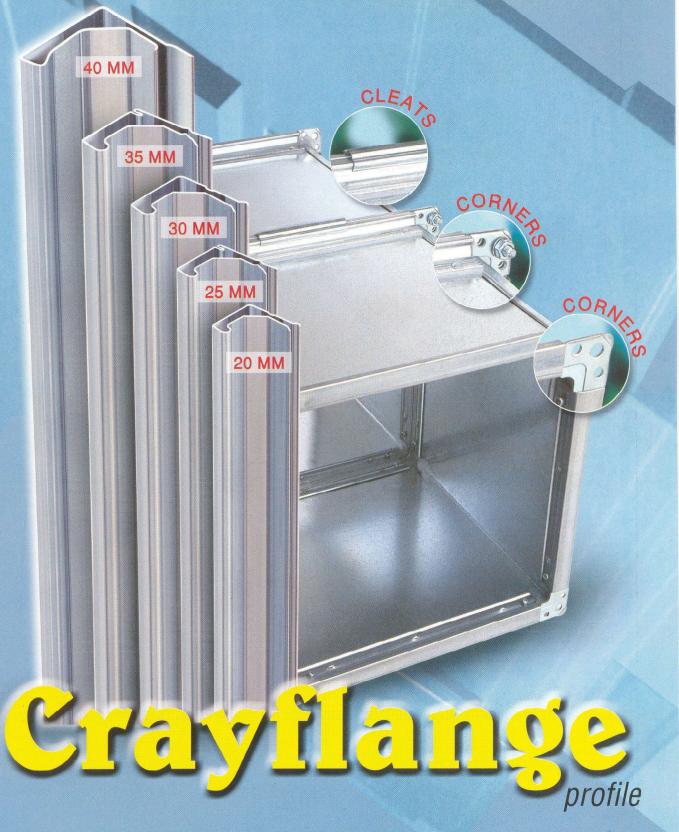


Metal

Crayfiex Flexible Duct Connector

BASE FABRIC / COATING	CODE	METAL WIDTH	FABRIC WIDTH	METAL WIDTH	PACKING
Canvas	CF-CV-3-134	1 3/4"	3"	1 3/4"	100'/150'
	CF-CV-4-300	3"	4"	3"	100'/150'
	CF-CV-4-400	4"	4"	4"	100'/150'
	CF-CV-6-300	3"	6"	3"	100'/150'
	CF-CV-3-300	3"	3"	3"	100'/150'
Polyester / Vinyl	CF-PV-3-134	1 3/4"	3"	1 3/4"	100'/150'
,	CF-PV-4-300	3"	4"	3"	1007150
	CF-PV-4-400	4"	4"	4"	1007150
	CF-PV-6-300	3"	6"	3"	1007150
	CF-PV-3-300	3"	3"	3"	1007150
Glassfibre / Neoprene	CF-GN-3-134	1 3/4"	3"	1 3/4"	100'/150'
	CF-GN-4-300	3"	4"	3"	1007150
	CF-GN-4-400	4"	4"	4"	1007150
	CF-GN-6-300	3"	6"	3"	1007150
	CF-GN-3-300	3"	3"	3"	1007150
Glassfibre / Hypalon	CF-GH-3-134	1 3/4"	3"	1 3/4"	100'/150'
Glaconord / Hyparon	CF-GH-4-300	3"	4"	3"	1007150
	CF-GH-4-400	4"	4"	4"	1007150
	CF-GH-6-300	3"	6"	3"	1007150
	CF-GH-3-300	3"	3"	3"	1007150
Ola 61 / O'1'	05.00.4.000				
Glassfibre / Silicon	CF-GS-4-300	3"	4"	3"	100'/150'
	CF-GS-4-400	4"	4"	4"	100'/150'
	CF-GS-6-300	3"	6"	3"	100'/150'
	CF-GS-3-300	3"	3"	3"	100'/150'
Glassfibre / Neoprene	CF-NCA-4-300	3"	4"	3"	100'/150'
	CF-NCA-6-300	3"	6"	3"	100'/150'
	CF-NCA-4-400	4"	4"	4"	100'/150'
Glassfibre / Silicone	CF-SCF-4-300	3"	4"	3"	100//150
C.COORDIO / ORROUTE	CF-SCF-6-300	3"	6"	3"	100'/150'
		4"			100'/150'
	CF-SCF-4-400	4	4"	4"	100'/150'





- Manufactured by precision roll-forming operation
- Designed to comply according to International Industry Standards
- Zinc coating of G90 to Z27 (275 gms. /sq. metre) for added corrosion protection
- Automated Non Drying Sealing Compound injection in flange

Crayflange

4 BOLT SLIDE ON FLANGE SYSTEM

Crayford Flanges (Crayflange) 4 Bolt Slide On Flange system is available in five sizes:

Crayflange 20

Crayflange 25

Crayflange 30

Crayflange 35

- Crayflange is manufactured by precision roll-forming operation, out of hot dipped cold reduced galvanized steel slit coils.
- Crayflange is complying to International Industry Standards
- Crayflange is available as normal flange and for special applications with integral sealent for better results on all pressure class applications.

Crayflange 40

- Crayflange uses Galvanized Steel Sheet as per ASTM A 653 CSB & ASTM A924 Corresponding to BS2989 (Z2) Corresponding Euronorm EN10142 & EN10143
- . Comply to DW144
- Galvanized Steel Sheet used for Crayflange has zinc coating of G90 corresponding to Z27 (275 gms. / sq. metre) for added corrosion protection.
 (Formerly ASTM - 525)

System Code	Descriptions*	Material Type	Nominal Material Thickness (mm)	Weight** (Kg/m)
CF20GS	Crayflange	Galvanized Steel	0.70	0.485
CF30GS	Crayflange	Galvanized Steel	0.80	0.735
CF40GS	Crayflange	Galvanized Steel	1.00~1.20	1.500
CF25GS	Crayflange	Galvanized Steel	0.70~0.80	0.626
CF35GS	Crayflange	Galvanized Steel	0.80~0.90	0.910
CF20AS	Crayflange	Aluminum	0.70	0.175
CF30AS	Crayflange	Aluminum	0.80	0.250
CF40AS	Crayflange	Aluminum	1.20	0.530
CF25AS	Crayflange	Aluminum	0.70~0.80	0.220
CF35AS	Crayflange	Aluminum	0.90~1.00	0.321

^{*}S - All Systems of Crayflange have an Automated Non Drying Sealing Compound Injection.

^{**}Weight - All weights are theoretical and for indicative Purpose only.





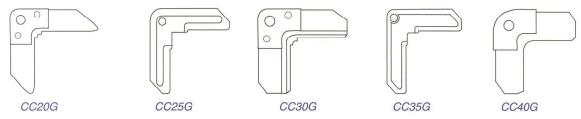






Crayflange CORNER

Crayford 4 Bolt Slide on Flange System corners are available in five sizes suiting the respective flange profiles. Crayford Flange Corners (Cray-Corner) are manufactured out of cold rolled mild steel and galvanized after the manufacturing

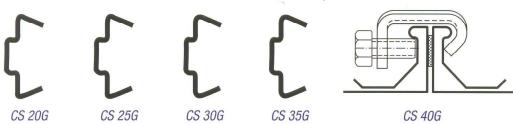


Crayflange Corners are available in 250 pcs/box, 300 pcs/box, 150 pcs/box, 200 pcs/box and 100 pcs/box for sizes 20, 25, 30, 35 and 40 respectively.

System Code	Description	Material Type	Nominal Material Thickness (mm)
CC20G	Craycorner	Galvanized Steel	2.50
CC30G	Craycorner	Galvanized Steel	2.50
CC40G	Craycorner	Galvanized Steel	3.50
CC25G	Craycorner	Galvanized Steel	1.20
CC35G	Craycorner	Galvanized Steel	1.50
CC20A	Craycorner	Aluminum	2.50
CC30A	Craycorner	Aluminum	4.00
CC40A	Craycorner	Aluminum	5.00
CC25A	Craycorner	Aluminum	1.20
CC35A	Craycorner	Aluminum	1.50

Crayflange





- Crayflange 4 bolt slide on flange system slide cleats are available in four sizes suiting the size 20, size 30, size 25 & size 35 flange profiles
- crayflange Slide Cleats (Cray-slides) are manufactured out of hot dipped cold reduced galvanized steel slit coils.
- crayclamps are available in packing of 100 pieces per box.

System Code	Description	Material Type	Nominal Material Thickness (mm)	Length (mm)	
CS20G	Crayslide	Galvanized Steel	1.20	2000	
CS30G	Crayslide	Galvanized Steel	1.20	2000	
CS20A	Crayslide	Aluminum	1.20	2000	
CS30A	Crayslide	Aluminum	1.20	2000	
CS40G	Crayclamp	Galvanized Steel	4.00	NA	
CS25G	Crayslide	Galvanized Steel	1.20	2000	
CS35G	Crayslide	Galvanized Steel	1.20	2000	
CS25A	Crayslide	Aluminum	1.20	2000	
CS35A	Crayslide	Aluminum	1.20	2000	

Rectangular Duct Construction

TRANSVERSE JOINT Crayflange 25mm or 35mm @ MAXIMUM SPACING INTERMEDIATE REINFORCEMENT AS PER TABLE 1 - 10

DUCT SIZE	SHEET THICKNESS						
	16 GA.	18 GA.	20 GA.	22 GA.	24 GA.	26 GA.	
200mm DN						25 @ 3000mm	
225mm to 250mm						25 @ 3000mm	
275mm to 300mm					25 @ 3000mm	25 @ 2400mm	
325mm to 350mm					25 @ 3000mm	25 @ 2400mm	
375mm to 400mm					25 @ 3000mm	25 @ 2400mm	
425mm to 450mm	(- Table 1				25 @ 3000mm	25 @ 2400mm	
475mm to 500mm				25 @ 3000mm	25 @ 2400mm	25 @ 1500mm	
525mm to 550mm				25 @ 3000mm	25 @ 2400mm	25 @ 1500mm	
575mm to 600mm				25 @ 3000mm	25 @ 2400mm	25 @ 1500mm	
625mm to 650mm				25 @ 3000mm	25 @ 2400mm	25 @ 1500mm	
675mm to 700mm		1222000	25 @ 3000mm	25 @ 2400mm	25 @ 1500mm	25 @ 1200mm	
725mm to 750mm			25 @ 3000mm	25 @ 2400mm	25 @ 1500mm	25 @ 1200mm	
775mm to 900mm			-	25 @ 1500mm	25 @ 1200mm	25 @ 1500mm C @ 750 mm	
925mm to 1050mm			I	25 @ 1500mm	25 @ 1200mm	25 @ 1500mm C @ 750 mm	
1075mm to 1200mm			25 @ 1500mm	25 @ 1200mm	25 @ 1500mm E @ 750 mm	25 @ 1500mm E @ 750 mm	
1225mm to 1350mm			35 @ 1200mm	35 @ 1500mm	35 @ 1200mm	35 @ 1500mm F @ 750mm	
1375mm to 1500mm			35 @ 1200mm	35 @ 1500mm	35 @ 1200mm	35 @ 1500mn G @ 750mm	
1525mm to 1800mm	35 @ 1500mm	35 @ 1500mm	35 @ 1200mm	35 @ 1200mm H @ 600mm	35 @ 1500mm H @ 750mm	35 @ 1200mm H @ 600mm	
1825mm to 2100mm	35 @ 1500mm	35 @ 1500mm	35 @ 1200mm	35 @ 1200mm H @ 600mm	-	_	
2125mm to 2400mm	35 @ 1500mm	35 @ 1500mm	35 @ 1200mm	35 @ 1200mm J @ 600mm	-	_	
OVER 2400 mm	35 @ 1500mm	35 @ 1500mm	-	35 @ 1200mm J @ 600mm	-	-	

75 MM Static Pressure

Rectangular Duct Construction

TRANSVERSE JOINT Crayflange 25mm or 35mm @ MAXIMUM SPACING INTERMEDIATE REINFORCEMENT AS PER TABLE 1 – 10

DUCT SIZE	SHEET THICKNESS						
	16 GA.	18 GA.	20 GA.	22 GA.	24 GA.	26 GA.	
200mm DN						25 @ 1500mi	
225mm to 250mm					25 @ 2400mm	25 @ 1500m	
275mm to 300mm					25 @ 2400mm	25 @ 1500m	
325mm to 350mm				25 @ 3000mm	25 @ 2400mm	25 @ 1500m	
375mm to 400mm				25 @ 3000mm	25 @ 2400mm	25 @ 1500m	
425mm to 450mm				25 @ 3000mm	25 @ 2400mm	25 @ 1500m	
475mm to 500mm			25 @ 3000mm	-	25 @ 2400mm	25 @ 1500m	
525mm to 550mm			25 @ 3000mm	-	25 @ 2400mm	25 @ 1500m	
575mm to 600mm			-	25 @ 2400mm	-	25 @ 1500m	
625mm to 650mm			-	25 @ 2400mm		25 @ 1500m	
675mm to 700mm			25 @ 2400mm	-	25 @ 1500mm	25 @ 1200m	
725mm to 750mm			25 @ 2400mm		25 @ 1500mm	-	
775mm to 900mm			-	25 @ 1500mm	25 @ 1200mm	-	
925mm to 1050mm				25 @ 1500mm	25 @ 1200mm	-	
1075mm to 1200mm			25 @ 1200mm	35 @ 1500mm	35 @ 1200mm	35 @ 1500m E @ 750mm	
1225mm to 1350mm		35 @ 1500mm	35 @ 1200mm	-	35 @ 1500mm E @ 750 mm	35 @ 1200m E @ 600mm	
1375mm to 1500mm		35 @ 1500mm	35 @ 1200mm	-	35 @ 1500mm G @ 750 mm	35 @ 1200m F @ 600mm	
1525mm to 1800mm	35 @ 1200mm	-	-	35 @ 1500mm H @ 750mm	35 @ 1200mm H @ 600mm	-	
1825mm to 2100mm		-	35 @ 1500mm J @ 750 mm	35 @ 1200mm I @ 600mm	-	-	
2125mm to 2400mm	-	35 @ 1500mm G @ 750 mm	35 @ 1200mm J @ 600 mm	-	-	-	
OVER 2400 mm		35 @ 1500mm H @ 750 mm	35 @ 1200mm J @ 600 mm		-	-	

Rectangular Duct Construction

TRANSVERSE JOINT Crayflange 25mm or 35mm @ MAXIMUM SPACING INTERMEDIATE REINFORCEMENT AS PER TABLE 1 – 10

DUCT SIZE	SHEET THICKNESS						
	16 GA.	18 GA.	20 GA.	22 GA.	24 GA.	26 GA.	
200mm DN						25 @ 1500mm	
225mm to 250mm					25 @ 2400mm	25 @ 1500mm	
275mm to 300mm					25 @ 2400mm	25 @ 1500mm	
325mm to 350mm			25 @ 3000mm	-	25 @ 2400mm	25 @ 1500mm	
375mm to 400mm			25@ 3000mm		25 @ 2400mm	25 @ 1500mm	
425mm to 450mm				25 @ 2400mm	-	25 @ 1500mm	
475mm to 500mm				25 @ 2400mm	25 @ 1500mm	25 @ 1200mm	
525mm to 550mm			25 @ 2400mm	-	25 @ 1500mm	25 @ 1200mm	
575mm to 600mm			25 @ 2400mm	-	25 @ 1500mm	25 @ 1200mn	
625mm to 650mm			25 @ 2400mm	-	25 @ 1500mm	25 @ 1200mn	
675mm to 700mm				25 @ 1500mm	25 @ 1200mm	25 @ 1500mn	
Or Ottimi to 1 commi						D @ 750 mm	
725mm to 750mm				25 @ 1500mm	25 @ 1200mm	25 @ 1500mn D @ 750 mm	
775mm to 900mm			25 @ 1500mm	25 @ 1200mm	25 @ 1500mm D @ 750mm	25 @ 1500mn E @ 750mm	
925mm to 1050mm			25 @ 1200mm	35 @ 1500mm	-	25 @ 1500mn E @ 750mm	
1075mm to 1200mm			35 @ 1500mm	35 @ 1200mm	35 @ 1500mm F @ 750mm	35 @ 1200mn E @ 750mm	
1225mm to 1350mm		35 @ 1500mm	35 @ 1200mm	-	35 @ 1500mm G @ 750 mm	35 @ 1200mn F @ 750mm	
1375mm to 1500mm	35 @ 1500mm	35 @ 1200mm	35 @ 1500mm F @ 750mm	-	35 @ 1500mm G @ 750 mm	35 @ 1200mm G @ 600mm	
1525mm to 1800mm			35 @ 1500mm G @ 750mm	35 @ 1200mm H @ 600mm	-	-	
1825mm to 2100mm		35 @ 1500mm J @ 750mm	35 @ 1200mm J @ 600mm	-	-	-	
2125mm to 2400mm		35 @ 1500mm H @ 750 mm	35 @ 1200mm G @ 600 mm	-	-	-	
OVER 2400 mm		35 @ 1500mm H @ 750 mm	35 @ 1200mm J @ 600 mm	-		-	

150 MM Static Pressure

Rectangular Duct Construction

TRANSVERSE JOINT Crayflange 25mm or 35mm @ MAXIMUM SPACING INTERMEDIATE REINFORCEMENT AS PER TABLE 1 – 10

DUCT SIZE		SHEET THICKNESS					
	16 GA.	18 GA.	20 GA.	22 GA.	24 GA.	26 GA.	
200mm DN					25 @ 1500mm	25 @ 1200mm	
225mm to 250mm					25 @ 1500mm	25 @ 1200mn	
275mm to 300mm			25 @ 3000mm	-	25 @ 1500mm	-	
325mm to 350mm			25 @ 2400mm	25 @ 1500mm	25 @ 1200mm	-	
375mm to 400mm				25 @ 1500mm	25 @ 1200mm	-	
425mm to 450mm				25 @ 1500mm	25 @ 1200mm	-	
475mm to 500mm				25 @ 1500mm	25 @ 1200mm	-	
525mm to 550mm				25 @ 1500mm	25 @ 1200mm	en e	
575mm to 600mm				25 @ 1500mm	25 @ 1200mm	-	
625mm to 650mm				25 @ 1500mm	25 @ 1200mm	-	
675mm to 700mm				25 @ 1500mm	25 @ 1200mm	25 @ 1500mr	
						E @ 750 mm	
725mm to 750mm				25 @ 1500mm	25 @ 1200mm	25 @ 1500mr	
						E @ 750 mm	
775mm to 900mm			25 @ 1500mm	25 @ 1200mm	-	25 @ 1500mr	
						E @ 750mm	
925mm to 1050mm		35 @ 1500mm		35 @ 1200mm	35 @ 1500mm	35 @ 1200mr	
					G @ 750mm	E @ 600mm	
1075mm to 1200mm		35 @ 1500mm	-	35 @ 1200mm	35 @ 1500mm	35 @ 1200mi	
					G @ 750mm	E @ 600mm	
1225mm to 1350mm	35 @ 1200mm	35 @ 1200mm	-	35 @ 1500mm	35 @ 1200mm	-	
				H @ 750mm	G @ 600 mm		
1375mm to 1500mm	35 @ 1500mm	-	-	35 @ 1500mm	35 @ 1200mm	-	
				J @ 750mm	H @ 600 mm		
1525mm to 1800mm		35 @ 1500mm	35 @ 1200mm		-	-	
		J @ 750mm	J @ 600mm		-	-	
1825mm to 2100mm		35 @ 1500mm	35 @ 1200mm		_	-	
2125mm to 2400mm	35 @ 1500mm	35 @ 1200mm	-	-	-	-	
OVER 2400 mm		35 @ 1500mm	35 @ 1200mm		-		
		J @ 750 mm	J @ 600 mm				

CTAYTIALES TURNING VANE SYSTEM

Product Details and Specification

MATERIAL SPECIFICATION

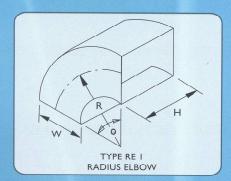
Model No. Standard Length

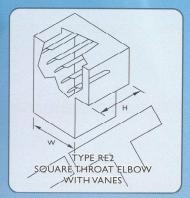
CFV 3.00m CFT 2.44m

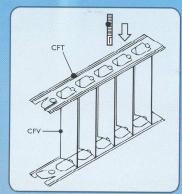
Coating: Hot Dipped Galvanized Steel

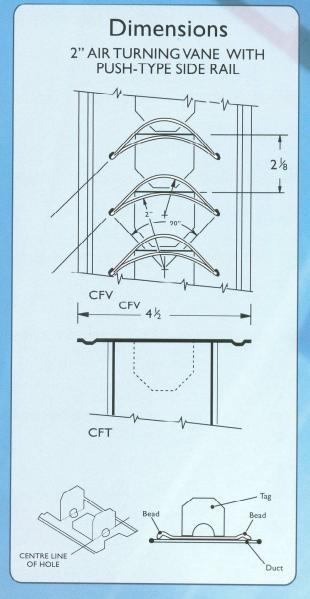
Meet: ASTM-A653&ASTMA 924-Z27 (G-90) Zinc Coating

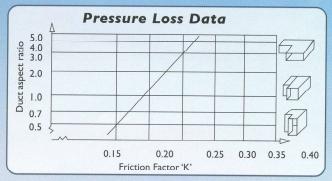
Aerofoil turning vane and fixing track can also be supplied, manufactured from type AAI 100H14 aluminium sheet.





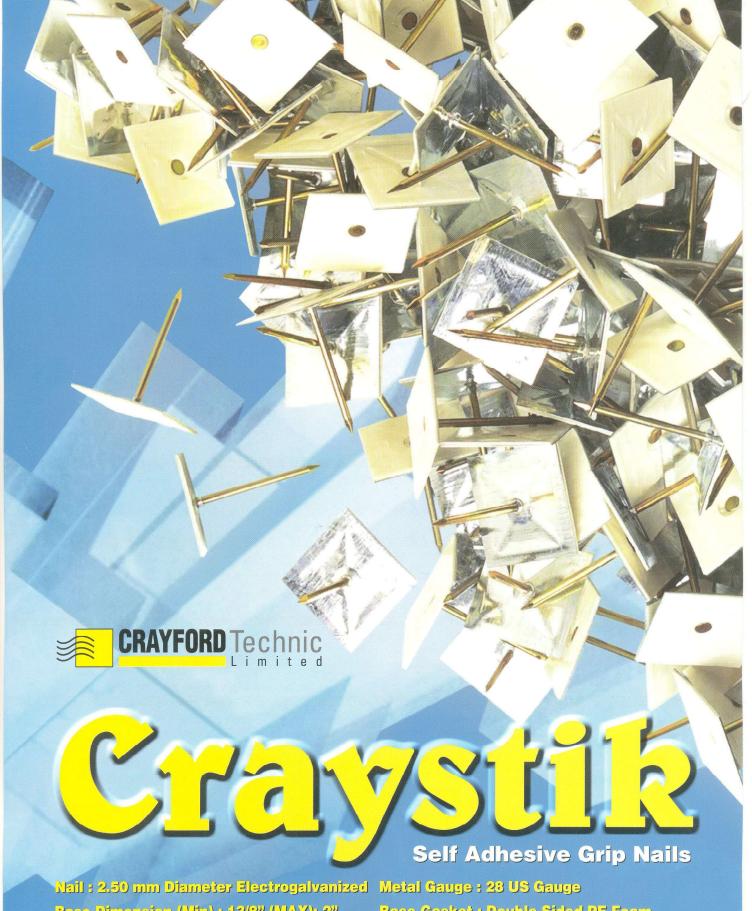






Dimension Specification

Square bends shall be fitted with turning vanes, with a maximum spacing between the vanes of 60mm. They shall have an inner radius of 50mm and the maximum length of unsupported vane shall be 1250mm. The completed turning vane assembly shall be fitted into the duct by mechanically closed rivets or bolts.



Base Dimension (Min): 13/8" (MAX): 2"

Base Metal: Hot Galvanized Steel Sheet

Base Gasket: Double Sided PE Foam

Gasket Adhesive: Rubber Based Adhesive

Designed to meet SMACNA Standards ASTM-A 591

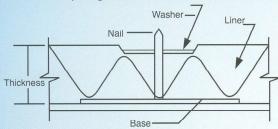
Craystik

PRODUCT & APPLICATION

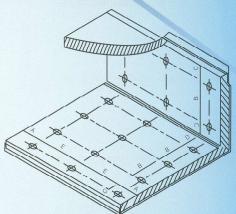
Grip Nails are Self Adhesive Fasteners.
They are widely used in Heating, Ventilation, and Air Conditioning Systems, primarly for fixing external thermal insulation and internal acoustic liner onto the duct surface.

APPLICATION

Grip nails are self adhesive fasteners used to fix thermal insulation or acoustic liner onto the duct surface, internally or externally. Together with duct insulation adhesive, these



grip nails hold the insulation firmly, not allowing any sagging and thereby preventing any condensation. However care needs to be taken for a proper insulation selection in line with the local climatic conditions.



INSTRUCTIONS FOR USE

Following instructions need to be complied to achieve optimum performance from the Crayford Insulation Grip Nails.

- Clean the surface, which will receive the insulation grip nail.
- Comply as per the figure the spacing of the grip nails to have maximum and uniform adherence over the duct surface.
- Fix the washer tightly over the insulation after the insulation roll / boards are laid out.
- For external insulation application. it is recommended that the bottom and side surfaces of duct use grip nails to prevent sagging of the insulation blanket.

Peel Adhesion: 30N/25mm

Velocity*	Dimensions				
relocity	A	В	С	D	E
0 - 2500 FPM	3"	12"	4"	6"	18"
(0 - 12.7 MPS)	(76.2)	(305)	(102)	(152)	(457)
2501 - 6000 FPM (12.7 - 30.5 MPS)	3" (76.2)	6" (152)	4" (102)	6" (152)	16" (406)

Product Code	Base Dimension	Nail Length	Quantity (pieces/box)	Insulation Thickness
SAGN 1 - 112	13/8"	11/2"	1000	1"
SAGN 1 - 134	13/8"	13/4"	1000	11/2"
SAGN 1 - 200	13/8"	2"	1000	11/2"
SAGN 1 - 212	13/8"	21/2"	1000	2"
SAGN 2 - 034	2"	3/4"	500	1/2"
SAGN 2 - 114	2"	11/4"	500	1"
SAGN 2 - 134	2"	13/4"	500	11/2"
SAGN 2 - 200	2"	2"	500	11/2"
SAGN 2 - 212	2"	21/2"	500	2"
SAGN 2 - 412	2"	41/2"	500	4"

All specification are subject to change without notice.



Registered Office: No. 15, 1st Floor, Princeton Mews, 167 London Road, Kingston Upon Thames, Surrey Kt2 6PT, Tel: +44 208 541 4746

Fax: +44 208 541 3874, Email: sales@crayfordtechnic.co.uk Website: www.crayfordetechnic.co.uk

Contact your nearest crayford technic Agent / Distributor for more information

Authorized Distributor

موسمه فاجي معمد الفرابلي N. M. Al-Gharably Est. ادا 4744394 - Fax : 4785673



Manufactured under Technical license by

FOCUS AIR CONDITIONING INDUSTRIES LLC

An ISO 9001: 2008 Certified Company

P.O.Box: 37945, Dubai, U.A.E., Website: www.focusaircon.net



CraYcoat 81-10

Description:

CraYglue 81 - 10 is premium quality, single component, synthetic rubber based adhesive with special additives and tackyfier. It is specially formulated for porous and non-porous surfaces in humid and hot climatic conditions. It has excellent water and alkali resistance and is inflammable.

Application:

CraYglue 81 - 10 highly recommended in applications where fibrous glass and other type of insulation are bonded to the interior or exterior of metal duct system.

Features

CraYglue 81 - 10 has following features:

- * Excellent bonding to most of porous and non-porous surfaces.
- * Water resistant.
- * Chemical resistant.
- * Suitable to middle east climatic conditions.
- * Very easy to apply.
- * Economical.

Surface Preparations:

The surface should be structurally sound, clean, dry, leveled and free from dust curing compound grease and other loose debris according to **BS 8203.**

Application Procedure:

Apply **CraYglue 81 - 10** with brush, roller or pressure feeding equipment evenly on both surfaces, wait until solvent is fully evaporated. After the evaporation of solvent in adhesive, assemble the surface by applying normal hand pressure.

In case of fibrous wool, apply **CraYglue 81 - 10** evenly by brush or any suitable equipment over the GI sheet and wait for 5 to 10 minutes before bonding the glass wool.

Exposure Time

10 to 20 minutes depending upon applied film thickness and substrate.

Coverage

The wet coverage of **CraYglue 81 - 10** is 6 to 8 m2/kg subjected to type of surface and nature of material being bonded. To get proper coverage, always keep the container's spout closed to prevent the solvent evaporation.

Technical Data Sheet



Caution

Adequate ventilation must be maintained, particularly in confined spaces. due to volatile nature of solvent, keep away from source of ignition such as pilot lights or sparks. Prohibition of smoking must be rigidly enforced in the vicinity of use. To prevent and minimize the evaporation of solvent, use spout only instead of opening the lid of container.

Typical Physical Properties

Base Synthetic modified rubber

No. of component Single

Color Green / Transparent Yellow and Amber Red

Solid % 28 ± 5

Consistency Flow able liquid

Viscosity (Brook field) @ 25°C, S6, rpm 20 1000 to 8000 cps

 $\begin{array}{lll} \text{Density} & 0.85 \pm 0.10 \\ \text{Service Temp.} & -25 \text{ C to} + 90 \text{C} \\ \text{Flash Point} & \text{Below } 10^{\circ} \text{C} \\ \text{Water Resistance} & \text{Excellent} \\ \text{Chemical resistance} & \text{Good} \\ \end{array}$

Solubility Hydro Carbon

Storage

Store under cover, protect from direct sunlight and high temperature (.25C). Shelf life is up to 12 months in an unopened container when stored as directed.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. Please follow the petroleum regulation and law of the land.

Health & Safety

As with all chemicals, caution should always be exercised.

Protective clothing such as gloves and goggles should be worn.

Inhalation: Inhalation of vapor or mist should be avoided. If inhaled symptoms include coughing, wheezing, laryngitis, and shortness of breath, headache, nausea, and vomiting. Immediately shift victim to fresh air and if needed immediately start artificial respiration. Give oxygen if breathing is labored. Get emergency medical help.

Eye contact: Flush eyes with water for 15 minutes and call for medical help. Ingestion: Causes nausea, vomiting, and loss of consciousness. If accidentally swallowed do not induce vomiting rather call for medical help immediately.

Skin contact: Flush with water or soap and water until all traces have been removed. Seek medical attention if required.

Precaution: Please refer to the appropriate material data sheet

(MSDS) prior to using this product. FOR INDUSTRIAL USE ONLY.

Marketed by:

FOCUS AIR CONDITIONING INDUSTRIES LLC

An ISO 9001: 2008 Certified Company

(Under Technical License Collaboration with M/s. CRAYFORD TECHNIC LIMITED, U.K.) P.O. Box: 37945, Dubai, U.A.E., Tel: +971 4 3405516, Fax: +971 4 3405540, E-mail: focusair@emirates,net.ae, Website: www.focusaircon.net









GMP Certified

DESCRIPTION

STAR ACRYSEAL is a aqua based, vapor barrier sealant for low, medium and high pressure or high velocity – metal, fiberglass and flexible heating and air conditioning air ducts, forming a durable seal against air leakage.

APPLICATION

- HVAC Application
- It is also used as an adhesive to metal, aluminum, Ceramic, Concrete, mild steel, etc.
- Conforms to ASTM C-411 (Hot Surface Performance of High Temperature Thermal Insulation)
- Conforms to ASTM C-732 (Aging Effects of Artificial Weathering on Latex Sealants)
- Conforms to ASTM D-2202 (Slump Test)
- It does not contain Asbestos, Lead, Mercury or Mercury compounds
- It can be applied using a wide variety of power extrusion equipment suitable for use with water base sealant.

ADVANTAGES

- Non-Flammable
- Excellent adhesion & High strength
- Highly resistance to extreme temperature changes and aging.
- Suitable to Middle East climatic condition
- Highly resistance to mold & mildew
- Highly Elastic
- · Resistance to oil or grease
- · Mildly resistance to diluted alkalis and acids

DIRECTIONS FOR USE

The surface should be clean, dry, oil-free and sounded (To clean surface use power blower). Apply by power extrusion or trowel uniformly a 2" wide coat over the joint @ 2 to 2.2 gal/100 ft². Total coverage 40-55 ft²/gal. Allow the completed joint to dry at least 24 hours above 25°C before pressure testing. High humidity (70%) and or cooler temp. may retard drying. Total WFT to be 30-35 mils.

STORAGE:

- Store under cover, protect from direct sunlight and high temperature (> 30°C).
- Shelf life is up to 12 months in unopened container when stored as directed.

TECHNICAL SPECIFICATION

Base	Synthetic resin		
Dasc	Cynanous room		
Color	White / Grey		
Appearance	Smooth paste		
Density, kg/L	1.65 -1.75		
Viscosity Flow (ASTM C 639)	Non- Sag		
Service Temperature, °C	+ 5 °C - +85°C		
Bead Consistency	Non-Sag bead free of air bubbles		
Cleaning	Clean all tools with warm water & soap when wet. Mineral spirit when dry.		

HEALTH & SAFETY:

As with all chemicals, caution should always be exercised. Protective clothing such as gloves and goggles should be worn.

INHALATION: Inhalation of vapor or mist should be avoided. If inhaled symptoms include coughing, wheezing, laryngitis, and shortness of breath, headache, nausea, and vomiting. Immediately shift victim to fresh air, and, if needed immediately start artificial respiration. Give oxygen if breathing is labored. Get emergency medical help.

EYE CONTACT: Flush eyes with water for 15 minutes and call for medical help.

INGESTION: Causes nausea, vomiting, and loss of consciousness. If accidentally swallowed do not induce vomiting rather call for medical help immediately.

SKIN CONTACT: Flush with water or soap and water until all traces have been removed. Seek medical attention if required.

WARRANTY

The information given is based on our knowledge and performance of the material. Every precaution is taken in the manufacture of the product and responsibility is limited to the quality of supplies with no guarantee of results in the field, as manufacturer has no control over site conditions or execution of work.



STAR ADHESIVE & RESIN IND. FACTORY

P.O.Box: 7558, Umm Al Quwain - U.A.E. Tel.: +971 6 767 3033, Fax: +971 6 767 3022 P.O. Box 8091, Jeddah, 21482, K.S.A. Tel: +966 1267 77073, Fax: +966 1269 26417

Product Data Sheet







DESCRIPTION

STARFIX DG-81-10 is inflammable, one component adhesive based on synthetic modified rubber with special tackyfier and additives.

APPLICATION

- Ideal for use in application where fibrous glass wool or similar insulation are bonded to the interior or exterior of metal duct systems.
- It can be use for most porous & non-porous surface.
- It can be applied easily by brush, roller & pressure feeding equipment evenly on both surfaces.

ADVANTAGES

- Economical.
- Excellent Cohesive & Bonding strength.
- Water Resistance
- Chemical Resistance
- Good wet tack
- Suitable to Middle East climatic condition.

DIRECTIONS FOR USE

The surface should be clean, dry, and free from oil, grease and loose particle. For fibrous wool & GI sheet, apply adhesive evenly with any suitable equipment and wait for 5 to 10 minutes before bonding the glass wool. For other substrates, after applying the adhesive wait until solvent is fully evaporated and assemble the surface by applying normal hand pressure.

STORAGE:

- Store under cover, protect from direct sunlight and high temperature (> 35°C).
- Shelf life is up to 12 months in unopened container when stored as directed.

TECHNICAL SPECIFICATION

Base	Synthetic modified rubber				
Color	Green, transparent Yellow and Amber Red				
Viscosity , Cps @25°C, S 3, rpm 20	3,000 - 4,500				
Solid Content, % @110°C, 2 hr	24 – 28				
Density, kg/L	0.88 - 0.94				
Coverage, m ² /kg	6.0 - 8.0				
Flash Point, °C	< 10				
Service Temp, °C	-20 to +90				
Open Time, min	10 - 20				
Solubility	Aromatic Solvent				
Cleaning	Clean all tools immediately with aromatic solvent				

HEALTH & SAFETY:

As with all chemicals, caution should always be exercised. Protective clothing such as gloves and goggles should be worn.

INHALATION: Inhalation of vapor or mist should be avoided. If inhaled symptoms include coughing, wheezing, laryngitis, and shortness of breath, headache, nausea, and vomiting. Immediately shift victim to fresh air, and, if needed immediately start artificial respiration. Give oxygen if breathing is labored. Get emergency medical help.

EYE CONTACT: Flush eyes with water for 15 minutes and call for medical help.

INGESTION: Causes nausea, vomiting, and loss of consciousness. If accidentally swallowed do not induce vomiting rather call for medical help immediately.

SKIN CONTACT: Flush with water or soap and water until all traces have been removed. Seek medical attention if required.

WARRANTY

The information given is based on our knowledge and performance of the material. Every precaution is taken in the manufacture of the product and responsibility is limited to the quality of supplies with no guarantee of results in the field, as manufacturer has no control over site conditions or execution of work.





Product Data Sheet







DESCRIPTION

STARBOND UL-30-36 is a UL certified, tough and flexible adhesive and sealant, forming a durable seal against air leakage.

APPLICATION

- It can be applied easily by brush, roller and airless spray (please contact your equipment supplier followed by product viscosity mentioned in data).
- It has excellent water, chemical, abrasion and U.V resistance.
- It is recommend to be used on metal duct in outdoors and indoors thermal insulation systems.

ADVANTAGES

- · Good Adhesion and high strength.
- Water resistance
- Non-toxic & non-flammable.
- UV Resistance.
- Chemical Resistance
- Antifungal & Antibacterial.
- Suitable to Middle East climatic condition.
- High temperature resistance.
- Highly waterproof.

DIRECTIONS FOR USE

The surface should be clean, dry, and free from oil, grease and loose particle. Apply a tack coat of adhesive @ 1- 1.7 $\rm m^2/L$. After applying tack coat immediately imbed the selected lagging fabric smoothly into the wet coating. Apply two finish coat of adhesive . It is very important to ensure that each coat of adhesive is totally cured before the next coat is applied. The dry film thickness will vary with fabric selected.

STORAGE:

- Stored under cover, protect from direct sunlight and high temperature (> 35°C).
- Shelf life is up to 12 months in unopened container when stored as directed.

WARRANTY:

The information given is based on our knowledge and performance of the material. Every precaution is taken in the manufacture of the product and responsibility is limited to the quality of supplies with no guarantee of results in the field, as manufacturer has no control over site conditions or execution of work.

TECHNICAL SPECIFICATION

and the state of t			
Special Synthetic resin			
Thixotropic like paste			
White			
25,000 - 50,000			
57- 63			
1.32 – 1.38			
1.0 – 1.7			
1.0 - 0.6			
45			
3 – 4			
Clean all tools immediately with warm water			

ADHESIVES
SURFACE BURNING CHARACTERISTICS
Applied to Inorganic Reinforced Cement Board

Flame Spread : Smoked Developed: 0

Tested as applied at a coverage rate of 1.0 m²/L Number of coats 1

HEALTH & SAFETY:

As with all chemicals, caution should always be exercised. Protective clothing such as gloves and goggles should be worn.

INHALATION: Inhalation of vapor or mist should be avoided. If inhaled symptoms include coughing, wheezing, laryngitis, and shortness of breath, headache, nausea, and vomiting. Immediately shift victim to fresh air, and, if needed immediately start artificial respiration. Give oxygen if breathing is labored. Get emergency medical help.

EYE CONTACT: Flush eyes with water for 15 minutes and call for medical help.

INGESTION: Causes nausea, vomiting, and loss of consciousness. If accidentally swallowed do not induce vomiting rather call for medical help immediately.

SKIN CONTACT: Flush with water or soap and water until all traces have been removed. Seek medical attention if required.



TST (UL)
MADE IN INDIA





Pipe Hangers & Support Systems

Valves





Multiple Listing Correlation Sheet

ML FILE NO. EX27483

2017-04-17 Issued: 2017-05-12 Revised:

MULTIPLE LISTING of HANGERS, PIPE (VFXT) tor

Basically Listed for:

[1705306]

TAYSSEER SERVICES TRADING CO. ELECTRO

MECHANICAL SOLUTIONS

[651388]

SAKETH EXIM PRIVATE LIMITED

Basically Listed products covered by Procedure and/or Reports under File No. EX16250, Volume 1

Products Covered	Report Date	Basic Applicant's (Supplier's) Product Designation	Multiple Listee's Product Designation
		3	
	2012 06 20	Pipe Clamp (PC-1)	Pipe Clamp (PC-1)
	2013-06-28	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3
		Pipe Clamp (PC-2)	Pipe Clamp (PC-2)
		1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3
		Clevis Hanger (SCH)	Clevis Hanger (SCH)
		1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8
		Band Hanger (SH)	Band Hanger (SH)
		3/4, 1, 1-1/4, 1-1/2, 2, 2-	3/4, 1, 1-1/4, 1-1/2, 2, 2-
		1/2, 3, 4, 6, 8	1/2, 3, 4, 6, 8

Same as that described in Follow-Up Service Procedure and/or Report except for MARKING:

Multiple Listee's name, file number, Trademark / Tradename, TST when applicable, and product designation. The Control Number remains [5EF5].

LITERATURE: If literature is packaged with the Multiple Listed product(s) it shall be in compliance with the requirements outlined in the appropriate UL Standard(s).

5/11/2017

VFXT.EX27483 - Hangers, Pipe



ONLINE CERTIFICATIONS DIRECTORY

VFXT.EX27483 Hangers, Pipe

Page Bottom

Hangers, Pipe

See General Information for Hangers, Pipe

TAYSSEER SERVICES TRADING CO. ELECTRO MECHANICAL SOLUTIONS

EX27483

Riyadh, Saudi Arabia P.O.Box 28520 SAUDI ARABIA

Pipe hangers

Model Designation	Hanger Type	Rod Size	Nominal Pipe Size	Comments	
PC-1	Pipe Clamp	10 mm	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3	-	
PC-2	Pipe Clamp	10 mm	1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3	-	
SCH	Clevis Hanger	10 mm	1/2, 3/4, 1, 1-1/4, 1-1/2, 2	-	
SCH	Clevis Hanger	12 mm	2-1/2, 3, 4	-	
SCH	Clevis Hanger	16 mm	5, 6, 8	-	
SH	Band Hanger	10 mm	3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4	-	
SH	Band Hanger	12 mm	6, 8	-	

Last Updated on 2017-04-17

Questions?

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Page Top

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INDEX

Clevis Hanger Page 1



LISTED

Sprinkler Hanger Page 2



Pipe Hanger with EPDM Lining

Page 3



Pipe Hanger without Lining

Page 4



Pipe Hanger with EPDM Lining

Page 5



Pipe Hanger Page 6-7



Pipe Hanger -Heavy Duty

Page 8



Two Bolt Pipe Clamps

Page 9



Two Bolt Pipe Clamp with Lining

Page 10



Riser Clamp

Page 11



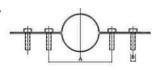
Riser Clamp With Lining

Page 12



Riser Clamp-Four Bolts

Page 13



U Strap

Page 14-15



U Strap with Lining

Page 16-17



TST (UL)
MADE IN INDIA

U Bolt Page 18



U Bolt with Lining Page 19



Half Saddle Page 20



Light Saddle Page 21



Heavy Saddle Page 22



Offset Hanger Page 23



Two Piece Channel Clip (strut Pipe|tube Clamp / Strut Mounting Pipe Guide Page 24



Pipe Roller StandPage 25



Pipe Roller Chair Page 26



Adjustable Roller Hanger Page 27



Pipe Roller Page 28



Pipe Insulation Saddle Page 29



Rubber Support Inserts Page 30-33



Spring Hanger Page 34



Threaded Bar & Accessory



Copper Tube



For decades, Mueller has been producing the best and most trusted copper tube in the industry. The only U.S. manufacturer of both copper tube and copper fittings, Mueller offers a full line of copper tube and coated copper tube products for plumbing, air conditioning, refrigeration, and various other applications. Mueller's ongoing commitment to quality continues to make it the preferred and specified brand of industry professionals.

- Meets applicable ASTM standards B-88, B-306, B-280, B-819
- NSF Approved
- Made in the USA



COPPER TUBE • PLUMBING

			Туре К			Type L		Type M	DWV	MEDIC	AL GAS
										(Nitrogenized thru	3-1/8" Only)
NOM	O.D.	Hard Lengths	Soft Coils	Soft Lengths	Hard Lengths	Soft Coils	Soft Lengths	Hard Lengths	Hard Lengths	Type K Hard Lengths	Type L Hard Lengths
1/4"	3/8"	10ft, 20ft	60ft, 100ft	10ft, 20ft	10ft, 20ft	60ft, 100ft	10ft, 20ft			10ft, 20ft	10ft, 20ft
3/8"	1/2"	10ft, 20ft	60ft, 100ft	10ft, 20ft	10ft, 20ft	60ft, 100ft	10ft, 20ft	10ft, 20ft		10ft, 20ft	10ft, 20ft
1/2"	5/8"	10ft, 20ft	60ft, 100ft	10ft, 20ft	10ft, 20ft	60ft, 100ft	10ft, 20ft	10ft, 20ft		10ft, 20ft	10ft, 20ft
5/8"	3/4"	10ft, 20ft	60ft, 100ft	10ft, 20ft	10ft, 20ft	60ft, 100ft	10ft, 20ft	10ft, 20ft		10ft, 20ft	10ft, 20ft
3/4"	7/8"	10ft, 20ft	60ft, 100ft	10ft, 20ft	10ft, 20ft	60ft, 100ft	10ft, 20ft	10ft, 20ft		10ft, 20ft	10ft, 20ft
Ι"	1-1/8"	10ft, 20ft	60ft, 100ft	10ft, 20ft	10ft, 20ft	60ft, 100ft	10ft, 20ft	10ft, 20ft		10ft, 20ft	10ft, 20ft
1-1/4"	I-3/8"	10ft, 20ft	60ft, 100ft	10ft, 20ft	10ft, 20ft	60ft, 100ft	10ft, 20ft	10ft, 20ft	10ft, 20ft	10ft, 20ft	10ft, 20ft
1-1/2"	I-5/8"	10ft, 20ft	60ft, 100ft	10ft, 20ft	10ft, 20ft	60ft, 100ft	10ft, 20ft	10ft, 20ft	10ft, 20ft	10ft, 20ft	10ft, 20ft
2"	2-1/8"	10ft, 20ft	40ft, 60ft	10ft, 20ft	10ft, 20ft	40ft, 60ft	10ft, 20ft	10ft, 20ft	10ft, 20ft	10ft, 20ft	10ft, 20ft
2-1/2"	2-5/8"	10ft, 20ft		10ft, 20ft	10ft, 20ft		10ft, 20ft	10ft, 20ft		10ft, 20ft	10ft, 20ft
3"	3-1/8"	10ft, 20ft		10ft, 20ft	10ft, 20ft		10ft, 20ft	10ft, 20ft	10ft, 20ft	10ft, 20ft	10ft, 20ft
3-1/2"	3-5/8"	10ft, 20ft			10ft, 20ft			10ft, 20ft		10ft, 20ft	10ft, 20ft
4"	4-1/8"	10ft, 20ft			10ft, 20ft			10ft, 20ft	10ft, 20ft	10ft, 20ft	10ft, 20ft
5"	5-1/8"	10ft, 20ft			10ft, 20ft			10ft, 20ft	10ft, 20ft	10ft, 20ft	10ft, 20ft
6"	6-1/8"	10ft, 20ft			10ft, 20ft			10ft, 20ft		10ft, 20ft	10ft, 20ft
8"	8-1/8"	10ft, 20ft			10ft, 20ft			10ft, 20ft		10ft, 20ft	10ft, 20ft



COPPER TUBE • REFRIGERATION

NIT	ROGENIZED® ACR		EFRIGERATION SERVICE COILS
O.D.	Hard Lengths	O.D.	Soft Lengths
3/8"	10ft, 20ft	1/8"	50ft, 100ft
1/2"	10ft, 20ft	3/16"	50ft, 100ft
5/8"	10ft, 20ft	1/4"	50ft, 100ft
3/4"	10ft, 20ft	5/16"	50ft, 100ft
7/8"	10ft, 20ft	3/8"	50ft, 100ft
1-1/8"	10ft, 20ft	1/2"	50ft, 100ft
1-3/8"	10ft, 20ft	5/8"	50ft, 100ft
1-5/8"	10ft, 20ft	3/4"	50ft, 100ft
2-1/8"	10ft, 20ft	7/8"	50ft, 100ft
2-5/8"	10ft, 20ft	1-1/8"	50ft, 100ft
3-1/8"	10ft, 20ft	1-3/8"	50ft, 100ft
3-5/8"	10ft, 20ft	1-5/8"	50ft, 100ft
4-1/8"	10ft, 20ft		
5-1/8"	10ft, 20ft		
6-1/8"	10ft, 20ft		

	TEMPERATURE CONTROL TUBE							
		Wall Th			nickness 32			
-	O.D.	Hard Lengths	Soft Lengths	Hard Lengths	Soft Lengths			
1	1/4"	10ft, 20ft	10ft, 20ft	10ft, 20ft	10ft, 20ft			

Temperature Control Tube is not recommended for forming or bending purposes.

Temperature Control Tube order quantities are in 2000 ft. per box increments.

COPPER TUBE • PLASTIC COATED

Polyethylene coated copper tube: PlumbShield, GasShield, OilShield, Coated ACR

			Туре К			Refrigeration Service Coils*		
NOM	OD	Hard Lengths	Soft Lengths	Soft Coils	Hard Lengths	Soft Lengths	Soft Coils	Soft Coils
1/4"	3/8"	10ft. , 20ft.	10ft. , 20ft.	60ft., 100ft.	10ft. , 20ft.	10ft. , 20ft.	60ft., 100ft.	50ft. , 100ft.
3/8"	1/2"	10ft. , 20ft.	10ft. , 20ft.	60ft., 100ft.	10ft. , 20ft.	10ft. , 20ft.	60ft., 100ft.	50ft. , 100ft.
1/2"	5/8"	10ft. , 20ft.	10ft. , 20ft.	60ft., 100ft.	10ft. , 20ft.	10ft., 20ft.	60ft., 100ft.	50ft., 100ft.
5/8"	3/4"	10ft. , 20ft.	10ft. , 20ft.	60ft., 100ft.	10ft. , 20ft.	10ft. , 20ft.	60ft., 100ft.	50ft. , 100ft.
3/4"	7/8"	10ft. , 20ft.	10ft. , 20ft.	60ft., 100ft.	10ft. , 20ft.	10ft. , 20ft.	60ft., 100ft.	50ft., 100ft.
1"	1-1/8"	10ft. , 20ft.	10ft. , 20ft.	60ft., 100ft.	10ft. , 20ft.	10ft. , 20ft.	60ft., 100ft.	50ft. , 100ft.
1-1/4"	I-3/8"	10ft. , 20ft.	10ft. , 20ft.	60ft., 100ft.	10ft. , 20ft.	10ft. , 20ft.	60ft., 100ft.	
1-1/2"	1-5/8"	10ft. , 20ft.	10ft. , 20ft.	60ft. , 100ft.	10ft. , 20ft.	10ft. , 20ft.	60ft. , 100ft.	
2"	2-1/8"	10ft. , 20ft.	10ft. , 20ft.	40ft. , 60ft.	10ft. , 20ft.	10ft. , 20ft.	40ft. , 60ft.	

PlumbShield™ available in blue and red for water applications and purple for reclaimed water

8-1/8"

10ft, 20ft

natural and LP Gas applications

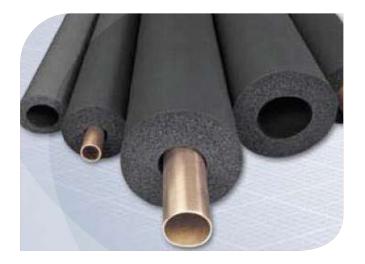
for fuel and oil applications

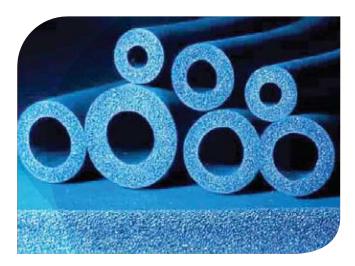
GasShield™ available in yellow for OilShield™ available in orange Coated ACR available in White for HVAC applications

* Available in OD sizes only









IsoFlex foam tube and sheet are used for insulation of piping for heating, refrigeration, air conditioning, hot and cold water lines. It withstands temperatures from -40 °C to 120 °C.

Technology

Our special technology produces tubing and sheeting whose chemical structure and chemical composition makes it resistant to microorganism, ozone oils and most solvents. The internal and external skin permits exceptional resistance to water and vapour and allowing the installer an easy application as the tubing and sheeting slips on to the piping.

Characteristics and Advantages

- Low thermal conductivity (K value) makes it highly efficient and effective in the insulation of cooling or heating systems.
- The thermal blister close cell structure forms as impermeable layer which is in itself a good vapour barrier.

- It is suitable for application within the temperature range of -40°C to 125°C. »
- The material has been specially compounded to self-extinguishing in nature.
- IsoFlex has excellent ozone and ultraviolet resistance.
- It is CFC, asbestos, chlorine and fiber free and does not cause skin allergy.
- It is inert to most chemical agent and neutral to pipe metals.
- The extreme flexibility of the materials makes installation fast, easy and economical.
- It is able to withstand tearing, rough handling and severe site conditions.
- Much lesser space is needed for IsoFlex as a thinner wall is required due to its low K value as compared to other types of insulation.
- The smooth surface of IsoFlex material gives the finishes installation a neat and aesthetic appearance. No coating is necessary on most indoor installations.

Insulation Tube Sizes

Iso	Flex		PPER IPE		RON IPE	TUBING-UNIT LENGTH 6 FEET (1.83M) OR 2 METER or continuous length (5 meter/roll)				
Insu	minal lation e ID	Pip	minal e Size OD	Pipe	minal e Size DD	Nominal 6mm wall thickness 1/4 inch		Nominal 13mm wall thickness ½ inch	Nominal 19mm wall thickness ¾ inch	Nominal 25mm wall thickness 1 inch
mm	inch	mm	inch	mm	inch	No. of Pcs. Per carton	No. of Pcs. Per carton	No. of Pcs. Per carton	No. of Pcs. Per carton	No. of Pcs. Per carton
6	1/4	6	1/4			200	170	110	60	-
10	3/8	10	3/8			175	140	90	40	30
13	1/2	13	1/2	6	1/4	160	120	75	40	25
16	5/8	16	5/8	10	3/8	120	90	60	35	25
19	3/4	19	3/4			110	80	45	30	20
22	7/8	22	7/8	13	1/2	90	70	40	30	20
25	1	25	1			-	60	40	25	20
28	1 1/8	28	1 1/8	19	3/4	-	50	36	25	18
32	1 1/4	32	1 1/4			-	42	30	20	15
35	1 3/8	35	1 3/8	25	1	-	36	30	20	15
42	1 5/8	42	1 5/8	31	1 1/4	-	30	25	17	12
48	1 7/8	48	1 7/8	38	1 1/2	-	25	20	15	10
51	2	51	2			-	20	18	15	10
54	2 1/8	54	2 1/8			-	20	18	15	9
60	2 3/8	60	2 3/8	50	2	-	20	18	15	9
67	2 5/8	67	2 5/8			-	18	18	12	8
73	2 7/8	73	2 7/8	64	2 1/2	-	18	15	10	6
76	3	76	3			-	15	15	10	6
79	3 1/8	79	3 1/8			-	15	12	10	6
89	3 1/2	89	3 1/2	70	3	-	12	12	10	6

PABCO - CHILDERS METALS



ITW Insulation Systems offers a complete metal jacketing system to fit every need, globally supplying high quality aluminum and stainless steel jacketing. All of these metals are laminated with Polysurlyn moisture retarder, providing excellent mechanical and weather protection on insulated piping, tanks and equipment.

These metals are suitable for industrial conditions that currently exist in refineries, petrochemical, gas, LNG and power plants, as well as for commercial work, such as chilled water, roof tops and ducting.

The most common gauges specified and used for rolled jacketing (smooth, stucco embossed or corrugated) are 0.4mm, 0.5mm, 0.6mm, 0.8mm, and 1mm thickness.

Aluminium Jacketing from ITW Insulation Systems meets the New ASTM Standards, C1729-10A.

Polysurlyn lined aluminum pressed elbows are available in 90° along with a wide range of accessories and tools, used mainly in the insulation industry.



Multiple Insulation Solutions, One Manufacturer, Global Reach.

PABCO - CHILDERS METALS

ALUMINUM ROLL JACKETING

(cladding)

DESCRIPTION

ITW Pabco/Childers Aluminum Roll Jacketing is the premier protective outer surface for mechanical insulation systems including pipe, vessels, and equipment. It protects the insulation and underlying pipe/vessel from physical damage, UV exposure, corrosive atmospheres, and water.

ITW Aluminum Roll Jacketing (also called cladding) is available in smooth, stucco embossed, and 3/16 corrugated (cross-crimped) finishes. For larger surfaces, box-rib and deep corrugated sheets are also available.

ITW Aluminum Roll Jacketing has a bare outer surface and comes standard with a 3 mil thick polysurlyn moisture barrier heat-laminated to the interior surface to help prevent corrosion of the jacketing and the underlying metal pipe, vessel, or equipment.

COMPOSITION

Commercially pure aluminum is relatively soft and less suited for use in this application. Its strength can be greatly improved by alloying with small percentages of one or more other elements such as manganese, silicon, copper, zinc, and magnesium. Additional strength can be achieved by cold working. ITW Insulation Systems carefully screens all potential aluminum coil suppliers to assure our products have the highest quality, are corrosion resistant, and comply with all relevant standards.

ITW Aluminum Roll Jacketing is typically manufactured using alloys 3105 or 3003 which have very similar composition and performance and are considered interchangeable for use as insulation jacketing. ITW reserves the right to ship whichever alloy is in stock at the time of order placement. One of these two specific alloys or an alternative alloy can be specified by purchaser at time of order placement but this may affect minimum quantity, lead-time, and price.

Composition Differences in Aluminum Alloys (%)

Alloy	Cu	Mn	Mg	Zn
3105	≤ 0.3	0.3-0.8	0.2-0.8	≤ 0.4
3003	0.05-0.2	1-1.5		≤ 0.1

COMPLIANCE TO STANDARDS

Both bare and polysurlyn lined Aluminum Roll Jacketing from ITW Insulation Systems comply with the requirements of the ASTM Aluminum Jacketing Material

Standard, C1729, Type I, which includes the strength and chemical composition requirements for compliance to ASTM B209 (Aluminum Alloy Standard).

RECOMMENDED USES

ITW Aluminum Roll Jacketing is recommended for use in all of the following insulation system applications:

- Standard outdoor use on all pipe and vessel insulation systems up to 8 ft outer diameter
- Indoor insulation system applications up to 8 ft outer diameter where increased damage resistance is desired

LIMITATIONS ON USE

ITW Aluminum Roll Jacketing is not appropriate for the following applications:

- For equipment and vessel insulation applications where the outer diameter is larger than 8 ft, ITW deep corrugated aluminum sheets should be used
- For rooftop refrigeration applications, painted Aluminum Jacketing should be considered
- For applications where maximum fire resistance is required, stainless steel jacketing should be used
- For applications where additional resistance to corrosion from the external environment is required, ITW painted aluminum jacketing may be used. Where maximum corrosion resistance is required, ITW stainless steel jacketing (T304 or T316) should be used.

POLYSURLYN MOISTURE BARRIER

Polysurlyn Moisture Barrier (PSMB) is an engineered three layer coextruded film of polyethylene and Surlyn* polymers with a total film thickness of 3 mils (76 μ m) that is heat laminated in the factory to the interior surface of Aluminum Roll Jacketing. ITW recommends the use of PSMB on all Aluminum Roll Jacketing to help prevent pitting, crevice, and galvanic corrosion of the interior surface of the metal jacketing and the underlying insulated pipe, tank, or equipment.

Due to its superior performance characteristics, PSMB replaces the old moisture barrier technology of 1 to 3 mil thick polykraft.

ALUMINUM ROLL JACKETING (cladding)

PERFORMANCE REQUIREMENTS

ITW Aluminum Roll Jacketing with a 3 mil polysurlyn moisture barrier has been tested at a third party lab for flammability and emittance using the standard industry test methods. The results were:

Property	Value
ASTM E84 Flame Spread Index*	0
ASTM E84 Smoke Developed Index*	5
Outer Surface Emittance	0.1

^{*}Tested with exterior metal surface exposed to the flame

SURFACE FINISHES

Each of the three surface finishes available for ITW Aluminum Roll Jacketing (smooth, stucco embossed, and 3/16" corrugated) has applications where it is recommended. All of these can be supplied with a painted exterior. For more information on this, consult the ITW data sheet on painted Aluminum Roll Jacketing.

Smooth (Plain Mill) Finish

This is a very popular finish and is the "default" for the many end-users/specifiers who prefer the clean look of this finish. This finish sheds rain water the best. However, this smooth surface readily shows damage such as from hail or other physical abuse. It also shows the dirt more than the other finishes due to its smoothness. Lastly, it is highly reflective of sunlight and when located near roadways, some specifiers see this reflection as a possible concern.

Stucco Embossed Finish

This is another popular finish used for ITW Aluminum Roll Jacketing. The stucco-like surface texture hides small imperfections and scratches caused by physical damage during or after installation. This finish also reduces reflectivity while still looking very professional. Lastly, the use of stucco embossed finish provides a small increase to the rigidity and strength of the ITW Aluminum Roll Jacketing.

3/16" Corrugated (Cross-Crimped) Finish

This finish consists of parallel grooves or crimps about 3/16" apart running in the length direction of the pipe. This finish also hides small damage and scratches to the jacketing and reduces sunlight reflection. In addition, the nature of this finish gives the aluminum jacket more ability to expand and contract to adapt to insulation movement caused by pipe or ambient temperature changes. Lastly, the rigidity and strength of 3/16" corrugated finish is substantially increased making it ideal for use as jacketing on large diameter pipe and vessels up to 8 ft diameter. This finish is available in a maximum thickness of 0.024 inches.

RECOMMENDED THICKNESS

ITW recommends that the thickness of Aluminum Roll Jacketing used vary based on the outer diameter of the insulation system per the requirements of ASTM C1729. This recommended thickness is shown in the table below.

Outer Insulation Diameter (in)	Minimum Aluminum Jacket Thickness, inches (mm)	
	Rigid Insulation	Non-Rigid Insulation
≤ 8	0.016 (0.4)	0.016 (0.4)
Over 8 thru 11	0.016 (0.4)	0.020 (0.5)
Over 11 thru 24	0.016 (0.4)	0.024 (0.6)
Over 24 thru 36	0.020 (0.5)	0.032 (0.8)
>36	0.024 (0.6)	0.040 (1.0)

PO Box 86010 Ras Al Khaimah, UAE Ph: +97172433211

Made in RAK, UAE

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