



AIR CONDITIONING INDUSTRY LLC

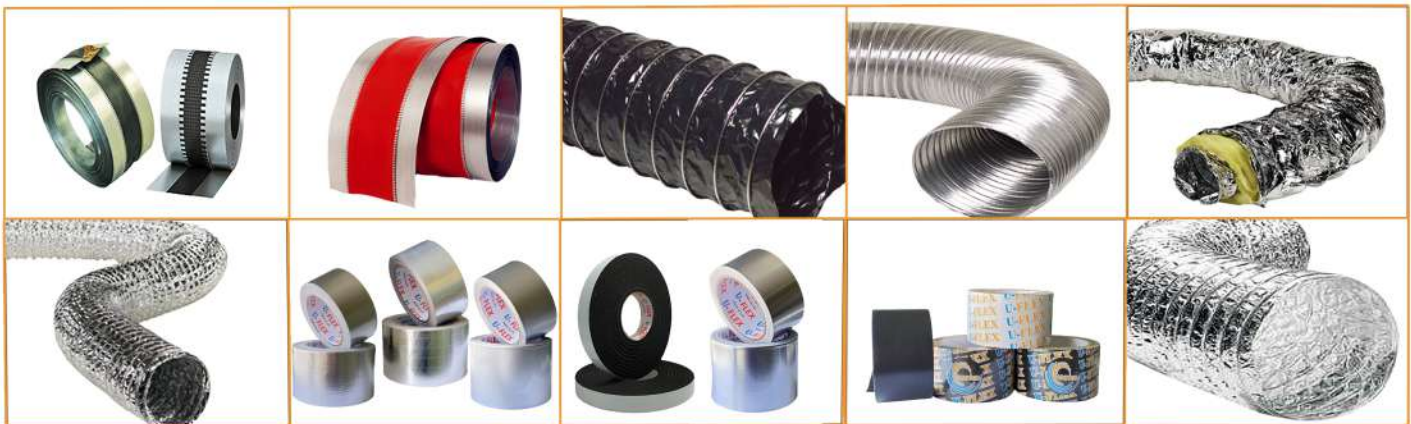
COMPLETE RANGE OF QUALITY HVAC & R PRODUCTS

United Air Conditioning Industry LLC

United Air Conditioning Industry LLC is an IMS-certified company (ISO 9001:2015 QMS, ISO 14001:2015 Environmental, and ISO 45001:2018 Occupational Health and Safety) that was established in March 2021 to manufacture a comprehensive range of HVAC and R products, as well as ducting accessories. It is a subsidiary of Rubber World Industry LLC, U.A.E., which was established in 1993, and RWI Industries Pvt. Ltd., Katunayake, Colombo, Sri Lanka, which was formed in 2018. The products are sold under the flagship brand "**U-FLEX™**." It is a part of the Shaikhani Group of Companies, the largest supplier of high-performance insulation and building envelope systems in the world. The business is well equipped to meet the needs of the entire region as well as foreign trade.

U-FLEX™ has premium performance and has been manufactured with a CFC/HCFC-free blowing agent that has zero Ozone Depletion Potential (ODP) and low Global Warming Potential (GWP). Our teams work diligently to boost expertise, construction productivity, and, eventually, human lives. United Air Conditioning Industry LLC was founded with a mission to set the benchmark for energy-efficient design. Innovation and sustainability are at the core of the business, which is making tomorrow's goods today. The organization claims that managing all facets of the supply chain, delivering quality goods, and providing a cost-effective solution are key factors in its success. This approach guarantees dependable efficiency and execution.

Flexible Ducts, Duct Connectors and Adhesive Tapes



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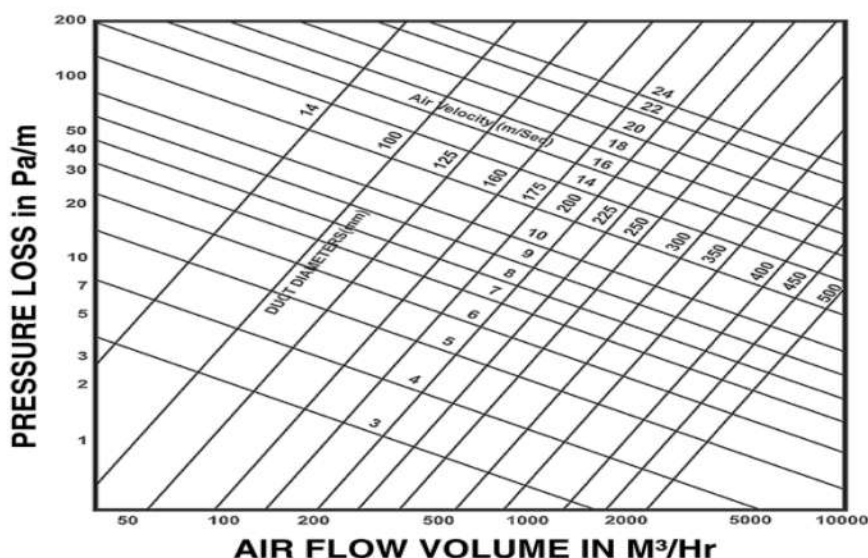


U-FLEX™ FLEXIBLE DUCT

U-FLEX™ Flexible Duct is a very strong, fully flexible, compressible, light-weight duct that is widely used in air-conditioning and ventilation systems for commercial, industrial, and residential applications. U-FLEX™ Flexible Duct is extremely durable and will maintain dimensional stability when fully extended.

Product Range	Features	Applications
<ul style="list-style-type: none"> Insulated Metalized Insulated Black Insulated Clear Insulated Aluminium Insulated Reinforced Metalized Insulated Reinforced Black Insulated Reinforced Clear Insulated Reinforced Aluminium Uninsulated Metalized Uninsulated Black Uninsulated Aluminium 	<ul style="list-style-type: none"> ✓ Strong – Highly puncture resistant ✓ Light Weight ✓ Easy to repair ✓ Corrosion resistant ✓ Easy Installation ✓ Leak proof ✓ Low pressure drop ✓ Saves energy ✓ Insulation not required 	<ul style="list-style-type: none"> ➤ Flexible HVAC ducts used for heating, ventilating and air conditioning systems for residential and commercial applications. ➤ They are most commonly used to connect the main duct to the plenums. ➤ In addition to this, flexible ducts are used in areas where maneuvering of steel ducts are a challenge due to other services for shorter lengths.

PRESSURE LOSS DIAGRAM



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U-FLEX™ INSULATED FLEXIBLE DUCT



Specification	Insulated Metalized	Insulated Black	Insulated Clear	Insulated Aluminium
Model Name:	UFLEX-M	UFLEX-B	UFLEX-C	UFLEX-AM
Inner Core	Double laminated metalized polyester film with permanently bonded to corrosion resistant steel wire helix.	Laminated black polyester film with permanently bonded to corrosion resistant steel wire helix.	Double laminated clear polyester film with permanently bonded to corrosion resistant copper coated wire helix.	Triple laminated aluminium foil, polyester film, permanently bonded to corrosion resistant steel wire helix.
Outer Jacket	Strong vapour barrier made from double laminated metalized polyester film laminate.	Strong vapour barrier made from double laminated metalized polyester film laminate.	Strong vapour barrier made from double laminated metalized polyester film laminate.	Strong vapour barrier made from double laminated metalized polyester film laminate.
Insulation Thickness	25 mm	25 mm	25 mm	25 mm
Density	16 kg/m³ and 24 kg/m³	16 kg/m³ and 24 kg/m³	16 kg/m³ and 24 kg/m³	16 kg/m³ and 24 kg/m³
R-Value	4.2 or 6 (F-hr/BTU)	4.2 or 6 (F-hr/BTU)	4.2 or 6 (F-hr/BTU)	4.2 or 6 (F-hr/BTU)
Standard Length	23ft (7m)	23ft (7m)	23ft (7m)	23ft (7m)
Diameter	4" to 18 " 102mm to 457mm	4" to 18 " 102mm to 457mm	4" to 18 " 102mm to 457mm	4" to 18 " 102mm to 457mm
Operating Temperature	-30°C to 150°C	-30°C to 150°C	-30°C to 150°C	-30°C to 250°C
Maximum Positive Pressure	10" wg- 4 " to 16" 6" wg - 18"	10" wg- 4 " to 16" 6" wg - 18"	10" wg- 4 " to 16" 6" wg - 18"	10" wg- 4 " to 16" 6" wg - 18"
Maximum Negative Pressure	3/4" wg All Diameters	3/4" wg All Diameters	3/4" wg All Diameters	3/4" wg All Diameters
Maximum Pressure	2500 Pa	2500 Pa	2500 Pa	2500 Pa
Maximum Velocity	5000 fpm	5000 fpm	5000 fpm	5000 fpm

FIBERGLASS INSULATION IS CERTIFIED AND ALSO AVAILABLE IN BROWN COLOR.



U-FLEX™ INSULATED REINFORCED FLEXIBLE DUCT



Specification	Insulated Reinforced Metalized	Insulated Reinforced Black	Insulated Reinforced Clear	Insulated Reinforced Aluminium
Model name:	UFLEXR-M	UFLEXR-B	UFLEXR-C	UFLEXR-AM
Inner Core	Double laminated metalized polyester film with permanently bonded to corrosion resistant steel wire helix.	Laminated black polyester film with permanently bonded to corrosion resistant steel wire helix.	Double laminated clear polyester film with permanently bonded to corrosion resistant copper coated wire helix.	Triple laminated aluminium foil, polyester film, permanently bonded to corrosion resistant steel wire helix.
Outer Jacket	Strong vapour barrier made from double laminated metalized polyester film combined with fiberglass reinforced scrim.	Strong vapour barrier made from double laminated metalized polyester film combined with fiberglass reinforced scrim.	Strong vapour barrier made from double laminated metalized polyester film combined with fiberglass reinforced scrim.	Strong vapour barrier made from double laminated metalized polyester film combined with fiberglass reinforced scrim.
Insulation Thickness	25 mm	25 mm	25 mm	25 mm
Density	16 kg/m³ and 24 kg/m³	16 kg/m³ and 24 kg/m³	16 kg/m³ and 24 kg/m³	16 kg/m³ and 24 kg/m³
R-Value	4.2 or 6 (F-hr/BTU)	4.2 or 6 (F-hr/BTU)	4.2 or 6 (F-hr/BTU)	4.2 or 6 (F-hr/BTU)
Standard Length	23ft (7m)	23ft (7m)	23ft (7m)	23ft (7m)
Diameter	4" to 18 " 102mm to 458mm	4" to 18 " 102mm to 458mm	4" to 18 " 102mm to 458mm	4" to 18 " 102mm to 458mm
Operating Temperature	-30°C to 150°C	-30°C to 150°C	-30°C to 150°C	-30°C to 250°C
Maximum Positive Pressure	10" wg- 4 " to 16" 6" wg - 18"	10" wg- 4 " to 16" 6" wg - 18"	10" wg- 4 " to 16" 6" wg - 18"	10" wg- 4 " to 16" 6" wg - 18"
Maximum Negative Pressure	3/4" wg All Diameters	3/4" wg All Diameters	3/4" wg All Diameters	3/4" wg All Diameters
Maximum Pressure	2500 Pa	2500 Pa	2500 Pa	2500 Pa
Maximum Velocity	5000 fpm	5000 fpm	5000 fpm	5000 fpm

FIBERGLASS INSULATION IS CERTIFIED AND ALSO AVAILABLE IN BROWN COLOR.



U-FLEX™ UNINSULATED FLEXIBLE DUCT



Specification	Uninsulated Metalized	Uninsulated Black	Uninsulated Aluminium	Uninsulated Aluminium
Model name:	UFLEX-UM	UFLEX-UB	UFLEX-UA	UFLEX-UAP
Inner Core	Double laminated metalized polyester film with permanently bonded to corrosion resistant steel wire helix.	Laminated black polyester film with permanently bonded to corrosion resistant steel wire helix.	Laminated aluminium foil, polyester film with permanently bonded to corrosion resistant steel wire helix	Triple laminated aluminium foil film, with permanently bonded to corrosion resistant steel wire helix.
Standard Length	23ft (7m)	23ft (7m)	23ft (7m)	23ft (7m)
Diameter	4" to 18" 102mm to 457mm	4" to 18" 102mm to 457mm	4" to 18" 102mm to 457mm	4" to 18" 102mm to 457mm
Operating Temperature	-30°C to 150°C	-30°C to 150°C	-30°C to 250°C	-30°C to 250°C
Maximum Positive Pressure	10" wg- 4 " to 16" 6" wg - 18"	10" wg- 4 " to 16" 6" wg - 18"	10" wg- 4 " to 16" 6" wg - 18"	10" wg- 4 " to 16" 6" wg - 18"
Maximum Negative Pressure	3/4" wg All Diameters	3/4" wg All Diameters	3/4" wg All Diameters	3/4" wg All Diameters
Maximum Pressure	2500 Pa	2500 Pa	2500 Pa	2500 Pa
Maximum Velocity	5000 fpm	5000 fpm	5000 fpm	5000 fpm

Disclaimer: The information contained herein is based on careful tests and experience. It reflects our knowledge and is for guidance purposes only. It is given in good faith, and the user should ensure that the product is fit for purpose before any application. The quoted values are averages and should not be taken as maximum or minimum values for specific purposes. United Air Conditioning Industry LLC is not responsible for any non-recommended use or consequential damage.

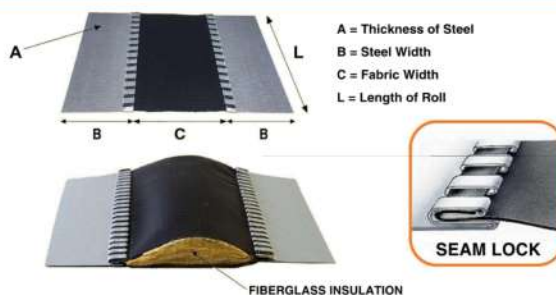


U-FLEX™ FLEXIBLE DUCT CONNECTOR

U-FLEX™ Flexible Duct Connectors are used to eliminate duct system noise and vibrations for industrial and commercial applications. The basic application is to isolate vibrations and noises from their source using an airtight flexible joint made of fabric fastened to steel on both sides. The flexible connector is fixed between the A/C equipment or fan and the ductwork. Various cloth types, cloth widths, and steel widths are available in order to meet most of the installation requirements at job sites.

Product Range	Features	Applications
<ul style="list-style-type: none"> Uninsulated PVC Uninsulated Neoprene Uninsulated Silicon Uninsulated Hypalon Insulated PVC Insulated Neoprene Insulated Silicon 	<ul style="list-style-type: none"> ✓ Quick to install and economical. ✓ Insulated Duct Connectors avoids condensation. ✓ Flexible Duct Connector uses 24 gauge & 28 gauge galvanized steel complying with ASTM A653 (formerly ASTM A525) with zinc coating of Z275 (G90) to give added corrosion resistance. ✓ U-FLEX™ Flexible Duct Connector offers flexibility in fabric and metal width. ✓ All U-FLEX™ Flexible Duct Connector is designed to meet NFPA 90A & 90B standards. 	<p>➤ UNINSULATED</p> <p>All air duct installations for heating, cooling or ventilation are attached to mechanical equipment containing a fan or blower. Vibrations, noises and rattles resulting from operation of the fan or blower are transmitted into the metal ducts which carry the noises throughout the system.</p> <p>In order to isolate the vibration and noises to the source, an air-tight flexible joint, consisting of a fabric which is attached to sheet metal on both sides, must be inserted between the equipment and the ductwork.</p> <p>➤ INSULATED</p> <p>For acoustically treated ductwork and supply ducts, it is important that the fabric of the connector is also insulated in-addition to the insulation fixed on the ducting. This enables the flexible duct connector to achieve maximum effectiveness. Externally, during manufacturing, insulating the fabric may damage the coating on it, and also make it stiff thereby affecting the noise and vibration absorption properties of the fabric.</p>

DIMENSION DETAILS



A= Thickness	B= Steel Width		C= Fabric Width		L= Length of Roll
28 Gauge	45 mm	1-3/4"	75 mm	3"	Small, Medium, Large
			100 mm	4"	
			150 mm	6"	
28 Gauge	70 mm	2-3/4"	75 mm	3"	Small, Medium, Large
			100 mm	4"	
			150 mm	6"	
24 Gauge	75 mm	3"	75 mm	3"	Small, Medium, Large
			100 mm	4"	
			150 mm	6"	

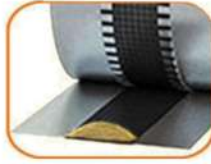
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U-FLEX™ INSULATED FD CONNECTOR



Specifications:		PVC		Neoprene		Silicon	
Model Name:		UDC-VI		UDC-NI		UDC-SI	
Specifications		Vinyl is the most commonly used fabric for all air duct installations due to its high tear strength and its high abrasion resistance.		Neoprene is recommended for use in application where high mechanical strength is required.		Silicon fabric has a special silicon rubber coating that has excellent resistance to high and low temperatures.	
		Recommended for low to medium pressure ductwork systems.		Neoprene is extremely resistant to most alkalis, gasoline and toxic fumes.		Silicon is extremely resistant to chemicals and ozone, and emits very low smoke when burnt.	
		Airtight and waterproof construction.		Airtight and waterproof construction.		Airtight and waterproof construction.	
		Double UV Resistant		Double UV Resistant		Double UV Resistant	
		Vinyl fabric does not contain materials that contribute ODP and GWP.		Neoprene fabric does not contain materials that contribute ODP and GWP.		Recommended for applications where high temperature is of main concern in both indoor and outdoor installations.	
Structure	Steel Type	Galvanized Steel Sheet		Galvanized Steel Sheet		Galvanized Steel Sheet	
	Sheet Gauge	28 ga.	24 ga.	28 ga.	24 ga.	28 ga.	24 ga.
	Available Width	45 & 70 mm	75 mm	45 & 70 mm	75 mm	45 & 70 mm	75 mm
Fabric	Fabric Type	Polyester Vinyl		Fiberglass		Fiberglass	
	Coating	PVC		Neoprene		Silicon	
	Color	Black		Black		Grey	
	Available Width	75, 100, 150 mm		75, 100, 150 mm		75, 100, 150 mm	
	R- Value	4.2		4.2		4.2	
Tear Strength		100 x 100 lbs. 45 x 45 kg.		12 x 12 lbs. 5.5 x 5.5 kg.		60 x 48 lbs. 27 x 22 kg.	
Tensile Strength		240 x 220 lbs. 108 x 100 kg.		500 x 450 lbs. 226 x 204 kg.		179 x 199 lbs. 81 x 90 kg.	
Temperature Range		-40°C to +93°C (-40°F to 200°F)		-40°C to +121°C (-40°F to 250°F)		-40°C to +260°C (-40°F to 500°F)	
Length		Small, Medium, Large		Small, Medium, Large		Small, Medium, Large	
Weight		18 oz. /sq. yd. 600 gr/sq. m		21 oz. /sq. yd. 720 gr/sq. m		16.5 oz. /sq. yd. 560 gr/sq. m	



U-FLEX™ UNINSULATED FD CONNECTOR



Specifications:		PVC		NEOPRENE		SILICON		HYPALON	
Model Name:		UDC-V		UDC-N		UDC-S		UDC-H	
Specifications		Vinyl is the most commonly used fabric for all air duct installations due to its high tear strength and its high abrasion resistance.		Neoprene is recommended for use in application where high mechanical strength is required.		Silicon fabric has a special silicon rubber coating that has excellent resistance to high and low temperatures.		Hypalon coated fabric has the best resistance to ozone layer and is the first choice for outdoor applications.	
		Recommended for low to medium pressure ductwork systems.		Neoprene is extremely resistant to most alkalis, gasoline and toxic fumes.		Silicon is extremely resistant to chemicals and ozone, and emits very low smoke when burnt.		It has excellent resistance to weathering, acids and is recommended for roof top applications.	
		Airtight and waterproof construction.		Airtight and waterproof construction.		Airtight and waterproof construction.		Airtight and waterproof construction.	
		UV Resistant		UV Resistant		UV Resistant		UV Resistant	
		Vinyl fabric does not contain materials that contribute ODP and GWP.		Neoprene fabric does not contain materials that contribute ODP and GWP.		Recommended for applications where high temperature is of main concern in both indoor and outdoor installations.		N/A	
Structure	Steel Type	Galvanized Steel Sheet		Galvanized Steel Sheet		Galvanized Steel Sheet		Galvanized Steel Sheet	
	Sheet Gauge	28 ga.	24 ga.	28 ga.	24 ga.	28 ga.	24 ga.	28 ga.	24 ga.
	Available Width	45 & 70 mm	75 mm	45 & 70 mm	75 mm	45 & 70 mm	75 mm	45 & 70 mm	75 mm
Fabric	Fabric Type	Polyester Vinyl		Fiberglass		Fiberglass		Fiberglass	
	Coating	PVC		Neoprene		Silicon		Hypalon	
	Color	Black		Black		Grey		White & Red	
	Available Width	75, 100, 150 mm		75, 100, 150 mm		75, 100, 150 mm		75, 100, 150 mm	
Tear Strength		100 x 100 lbs. 45 x 45 kg.		12 x 12 lbs. 5.5 x 5.5 kg.		60 x 48 lbs. 27 x 22 kg.		48 x 39 lbs. 22 x 18 kg.	
Tensile Strength		240 x 220 lbs. 108 x 100 kg.		500 x 450 lbs. 226 x 204 kg.		179 x 199 lbs. 81 x 90 kg.		225 x 300 lbs. 102 x 136 kg.	
Temperature Range		-40°C to +93°C (-40°F to 200°F)		-40°C to +121°C (-40°F to 250°F)		-40°C to +260°C (-40°F to 500°F)		-40°C to +121°C (-40°F to 250°F)	
Length		Small, Medium, Large		Small, Medium, Large		Small, Medium, Large		Small, Medium, Large	
Weight		18 oz. /sq. yd. 600 gr/sq. m		21 oz. /sq. yd. 720 gr/sq. m		16.5 oz. /sq. yd. 560 gr/sq. m		25 oz. /sq. yd. 850 gr/sq. m	



U-FLEX™ SEMI-RIGID FLEXIBLE DUCT

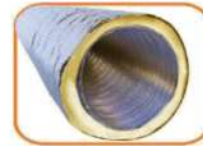
U-FLEX™ Semi-Rigid Aluminium Flexible Duct is manufactured from pure aluminium corrugated strips that are spirally wound to produce a double overlapped joint to prevent uncoiling in use. Fire-resistant and available in a compressed 3-meter length.

Features:

- ✓ Extremes heat resistance; non combustible.
- ✓ Low operating cost, fully lined for efficient air delivery.
- ✓ Compressed ducts reduce freight and storage costs.
- ✓ Leakproof interlock crimp locking.
- ✓ Fire resistance to UV Rays.
- ✓ Quick and easy installation.
- ✓ Airtight, energy-efficient, low operation, and maintenance cost.

Applications:

- Ideal for dryer, bathroom, kitchen ventilation for commercial, industrial, and residential applications.
- No need for additional supports.
- Semi-rigid but flexible for easy installation.
- Offers a high degree of flexibility, which allows it to be easily connected to any desired position.
- Easy to transport and store.



SPECIFICATION	SEMI-RIGID FLEXIBLE DUCT	INSULATED SEMI-RIGID FLEXIBLE DUCT
MODEL NO.:	UFSR	UFSRI
Inner core	Made of heavy-gauge aluminum foil strip with water-tight continuous lock seams.	Made of heavy-gauge aluminum foil strip with water-tight continuous lock seams
Outer jacket	N/A	Strong vapour barrier made from triple laminated aluminum foil.
Insulation Thickness	N/A	25 mm
Density	N/A	16 kg/m ³ and 24 kg/m ³
R-value	N/A	4.2 or 6 (F-hr/BTU)
Standard length	10 ft or 3 m	1 m, 2 m, 3 m
Diameter	3" to 20" 80 mm to 508 mm	3" to 18" 80 mm to 457 mm
Operating temperature	-30°C to 250°C	-30°C to 250°C
Maximum static pressure	2000 Pa	2000 Pa
Maximum velocity	25 m/s	25 m/s
Humidity max.	95%	95%
Packaging	3 m sections squeezed to 950 mm to 1000 mm (compression ratio 1/3)	N/A



U-FLEX™ SPIRAL ROUND DUCT



Product Description:

U-FLEX™ Spiral Round Duct is a spiral air distribution channel, manufactured with a spiral lock seam.

Applications:

Spiral Round Duct is widely applied in the coal mine, shipbuilding, removal, airport, and tunnel construction industry, etc.

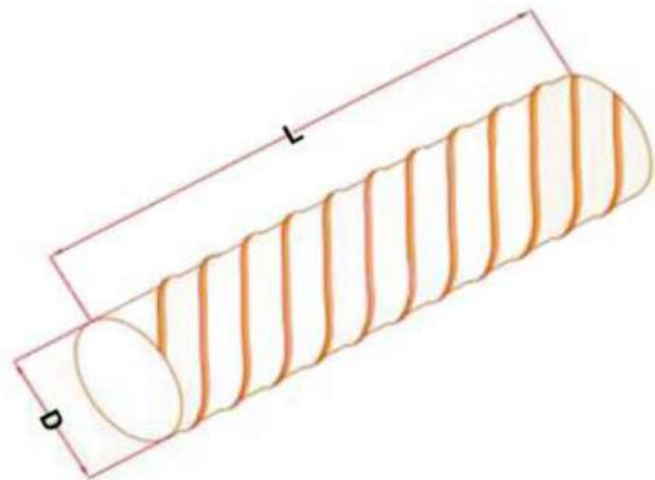
Spiral Ductwork System Benefits:

- Easy to install.
- Quick lead time for custom fittings.
- Clean, architecturally pleasing aesthetics.
- Long-lasting.
- Easy to clean.

Product Data:

Spiral Duct Work materials options:

- Galvanized Steel
- Stainless Steel
- Aluminium



Fabrication Standard:

Thickness: From 18 gauge to 28 gauge (0.4 to 1.2 mm), as per customer request.

Spiral Ducts are available in the following sizes:

Product Code	Dimension (D)		Length (L)
	D (Inch)	D (mm)	Metre
UFLEXSD-04 to 60	4 to 60	80 to 1500	3

**Optional sizes are available from 1 to 6 meters.*



U-FLEX™ ADHESIVE TAPES

ALUMINIUM FOIL TAPE



U-FLEX™ Aluminium Tape is a high-tensile-strength aluminium foil backing combined with a high-performance rubber resin adhesive, protected by an easy-release silicone release paper.

FEATURES:

- Aluminium backing provides excellent reflection of both heat and light.
- High-quality adhesive with strong adhesion and holding power offers permanent sealing and bonding on Foil-Scrim-Kraft.
- Facing joints and seams in HVAC ductwork applications.
- Good aging resistance both indoors and outdoors.
- A low moisture vapor transmission rate offers excellent sealing and patching performance.

APPLICATIONS:

- HVAC industry, for joining and sealing Foil-Scrim-Kraft Facing laminated fiberglass blanket or duct board joints and seams; joining and sealing flexible air duct seams and connections.
- General-purpose holding, patching, sealing, and masking applications—indoors and outdoors.



PRODUCT SPECIFICATIONS:

Properties	Specification	ASTM Test Method
Backing Thickness	16 / 18 / 22 Micron	PSTC-133 / ASTM D 3652
Total Thickness	40 / 45 / 50 Micron	PSTC-133 / ASTM D 3652
Adhesion to Steel	12 / 15 / 18 N/25mm	PSTC-101 / ASTM D 3330
Tack Rolling Ball	20 cm	PSTC-6 / ASTM D 3121
Tensile Strength	30 / 30 / 40 N/25mm	PSTC-131 / ASTM D 3759
Elongation	3.0 %	PSTC-131 / ASTM D 3759
Service Temperature	-20 ~ +80 °C	-----
Applying Temperature	+10 ~ 40 °C	-----

STORAGE & SHELF-LIFE:

12 months when stored at 21°C (70°F) and 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 be clean, dry, and free of grease, oil, or other contaminants.

PACKING:

Backing	Adhesive	Color	Liner	Standard Sizes		
				W (inches)	L (Yds.)	Rolls / Box
Soft Temper Aluminium	Rubber Resin Adhesive	Shiny Silver	Silicone Release Paper	2	18 / 20 / 22	24
				3	18 / 20 / 22	16



U-FLEX™ ADHESIVE TAPES

ALUGLASS TAPE



U-FLEX™ Aluglass Tape is an Aluminium foil / glass cloth backing (7um foil / FR glue / 110gsm glass cloth 12x12), coated with a high-performance synthetic rubber-resin adhesive, protected by an easy-release silicone release paper.

FEATURES:

- High-tensile strength, glass-cloth-reinforced foil tape offers puncture, fracture, and tear resistance.
- Performs continuously over a wide temperature range from -20°C to +80°C, -4°F to +176°F.
- Light and flexible construction easily conforms to curved or irregular surfaces.
- A thermally conductive and reflective backing assists with heat shielding.

APPLICATIONS:

- Duct board joints and seams, joining and sealing industrial pipe insulation.
- Air conditioning duct system lamination.
- To join foil-faced and rock wool.
- Roofing applications like flashing, joints, and insulation.
- Duct sealing and joining for refrigerators provide an excellent barrier to vapor.
- General-purpose holding, patching, and sealing applications—indoor and outdoor.



PRODUCT SPECIFICATIONS:

Properties	Specification	ASTM Test Method
Backing Thickness	120 Micron	PSTC-133 / ASTM D 3652
Total Thickness	160 Micron	PSTC-133 / ASTM D 3652
Adhesion to Steel	18 N/25mm	PSTC-101 / ASTM D 3330
Tack Rolling Ball	20 cm	PSTC-6 / ASTM D 3121
Tensile Strength	255 N/25mm	PSTC-131 / ASTM D 3759
Elongation	5.0 %	PSTC-131 / ASTM D 3759
Service Temperature	-20 ~ +80 °C	-----
Fire Rating	Class O & 25 / 50	BS476 Pt.6 & 7 / UL 723

STORAGE & SHELF-LIFE:

12 months when stored in a dry and cool storage place, at temperature +25°C or below and 50% Relative Humidity. Do not store in direct sunlight.

SURFACE PREPARATION:

It is essential, as with all pressure-sensitive tapes, that the surface to which the tape is applied be clean, dry, and free of grease, oil, or other contaminants.

PACKING:

Backing	Adhesive	Color	Liner	Standard Sizes		
				W (inches)	L (Yds.)	Rolls / Box
Foil + Glass Cloth + FR Grade	Synthetic Rubber Resin Adhesive	Shiny Silver	Silicone Release Paper	2	18 / 22 / 25	24
				3	18 / 22 / 25	16



U-FLEX™ ADHESIVE TAPES

ALUPET TAPE



U-FLEX™ brand special aluminium foil tape is a foil tape reinforced with PET film backing (ALUPET) combined with strong solvent acrylic adhesives and an easy-release liner for maximum performance. It can be used on XLPE insulation to cover the joints.

FEATURES:

- Suitable as masking in the electroplating of aluminium due to its non-contamination properties.
- A PET-reinforced aluminium foil combined with a special transparent acrylic adhesive makes this the ideal product for high-temperature applications.
- The aggressive solvent-base adhesive offers long serviceable life indoors and outdoors, as well as in a humid atmosphere.
- Aluminium pet tape has a special dull silver appearance that easily merges with the color of duct insulation, providing excellent aesthetics.

APPLICATIONS:

- XLPE Insulation's closing purpose.
- Lamination for air conditioning duct systems.
- Roofing applications like flashing, joints, and insulation.
- Duct sealing and joining for refrigerators is an excellent barrier to vapor.
- General purpose holding, patching, and sealing applications (indoor and outdoor).



PRODUCT SPECIFICATIONS:

Properties	Specification	ASTM Test Method
Backing Thickness	20 Micron	PSTC-133 / ASTM D 3652
Total Thickness	45 Micron	PSTC-133 / ASTM D 3652
Adhesion to Steel	10 N / 25mm	PSTC-101 / ASTM D 3330
Tack Rolling Ball	15cm	PSTC-6 / ASTM D 3121
Tensile Strength	50 N / 25mm	PSTC-131 / ASTM D 3759
Elongation	80%	PSTC-131 / ASTM D 3759
Service Temperature	-30 ~ +100°C	-----
Applying Temperature	+10 ~ 40°C	-----

STORAGE & SHELF-LIFE:

12 months when stored at 21°C (70°F) and 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 be clean, dry, and free of grease, oil, or other contaminants.

PACKING:

Backing	Adhesive	Color	Liner	Standard Sizes		
Foil with PET film reinforce	Solvent Acrylic	Shiny Silver	White Release paper liner	W (inches)	L (Yds.)	Rolls / Box
				2	18 / 22 / 25	24
				3	18 / 22 / 25	16



U-FLEX™ ADHESIVE TAPES

FSK TAPE



U-FLEX™ FSK Tape is a flame retardant and vapor barrier tape that is one of the most frequently used in the insulation industry. U-Flex™ FSK facing tape has a foil, scrim, or kraft backing. It is coated with a synthetic rubber resin adhesive and protected by an easy-release silicone paper.

FEATURES:

- The scrim layer bends with the primary facing, providing integrity to the insulation and a strong, finished appearance.
- The release liner provides easy removal for efficient application on the job site.
- High-tack synthetic rubber adhesive forms an instant bond. Design that is resistant to moisture, mold, and UV rays.

APPLICATIONS:

- Air conditioning ducting system lamination.
- To join foil-faced and rock wool.
- Sealing of double-glazed units.
- Roofing applications like flashing, joints, and insulation.
- Duct sealing and joining for refrigerators provide an excellent barrier to vapor.
- General-purpose holding, patching, sealing, and masking applications—indoors and outdoors.



PRODUCT SPECIFICATIONS:

Properties	Specification	ASTM Test Method
Backing Thickness	120 Micron	PSTC-133 / ASTM D 3652
Total Thickness	170 Micron	PSTC-133 / ASTM D 3652
Adhesion to Steel	25 N/25mm	PSTC-101 / ASTM D 3330
Tensile Strength	120 N/25mm	PSTC-131 / ASTM D 3759
Elongation	1.0 %	PSTC-131 / ASTM D 3759
Service Temperature	-20 ~ +80 °C	-----
Applying Temperature	+10 ~ 40 °C	-----

STORAGE & SHELF-LIFE:

12 months when stored in a cool, dry place, out of direct sunlight. Ideally, it should be stored at a temperature of 70°F with a relative humidity of 50%.

SURFACE PREPARATION:

It is essential, as with all pressure-sensitive tapes, that the surface to which the tape is applied be clean, dry, and free of grease, oil, or other contaminants.

PACKING:

Backing	Adhesive	Color	Liner	Standard Sizes		
				W (inches)	L (Yds.)	Rolls / Box
Foil + Scrim + Kraft	Synthetic Rubber Resin Adhesive	Shiny Silver	Silicone Release Paper	2	18 / 22 / 25	24
				3	18 / 22 / 25	16



U-FLEX™ ADHESIVE TAPES

DUCT TAPE



U-FLEX™ Duct Tape is a cloth tape reinforced with fiber mesh and covered with a high performance synthetic rubber-resin adhesive. This product is primarily used for duct insulation and heavy-duty packing.

FEATURES:

- Sticks to a variety of surfaces immediately and remains in place for an extended period of time without deterioration.
- It adheres to irregular surfaces without lifting due to its soft cotton backing.
- It produces a tight, moisture-resistant seal in many heavy-duty sealing applications.
- A flexible tape that is resistant to water, wears, and light abrasion.

APPLICATIONS:

- Applications in the HVAC and construction industries.
- Maintenance, Repair, and Operation (MRO) applications.
- Applications include packaging, splicing, securing, bundling, patching, strengthening, and labeling.



PRODUCT SPECIFICATIONS:

Properties	Specification	ASTM Test Method
Cloth Backing	Mesh	-----
Total Thickness	130 Micron	PSTC-33
Peel Adhesion	12 N/ 25mm	PSTC-1
Rolling Tack (11mm Ball)	≤ 20 cm	PSTC-6
Holding Power	1,000+ Min.	PSTC-7
Service Temperature Ranger	-20 ~ +80°C	-----

STORAGE & SHELF-LIFE:

12 months when stored at 21°C (70°F) and 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 be clean, dry, and free of grease, oil, or other contaminants. Apply the tape at room temperature between 15 °C and 45 °C for optimal product efficiency.

PACKING:

Backing	Adhesive	Color	Liner	Standard Sizes		
				W (inches)	L (Yds.)	Rolls / Box
Soft Temper PE / 27 mesh	Synthetic Rubber-Resin	Grey	No Liner	2	18 / 22 / 25	24
				3	18 / 22 / 25	16



U-FLEX™ ADHESIVE TAPES

PVC TAPE



U-FLEX™ PVC Pipe Wrapping Tape consists of stabilized PVC film coated with pressure-sensitive adhesive with excellent peel strength, anti-corrosive properties, and moisture resistance.

FEATURES:

- Excellent resistance to abrasion, corrosion and moisture.
- Excellent conformability.
- Non-deteriorating.
- Excellent flexibility.
- Strong tensile strength.
- Suitable for indoor and outdoor applications.
- Environmentally friendly technology

APPLICATIONS:

- Air condition duct wrapping
- Pipeline Protection
- Moisture Proofing
- Heavy duty anti-corrosive protection tape for all ducts, pipelines and tubes.



PRODUCT SPECIFICATIONS:

Properties	Specification	ASTM Test Method
Backing Thickness	120 Micron	ASTM D 3652
Total Thickness	130 +/- 5 Micron	ASTM D 3652
Adhesion to Steel	700 to 900 gms/ Inch	ASTM D 3330
Tack Rolling Ball	80mm	ASTM D 3121
Tensile Strength	3650 gms / inch	ASTM D 3759
Elongation at Break	210%	ASTM D 3759
Temperature Range	-5°C to 80° C	-----

STORAGE & SHELF-LIFE:

12 months when storage under normal room temperature and 50% RH in the original packing.

SURFACE PREPARATION:

Application surface should be dry and dust, rust, and grease-free. For the best performance, apply the tape at room temperature (between 15°C and 45°C).

PACKING:

Backing	Adhesive	Color	Note	Standard Sizes		
				W (inches)	L (Yds.)	Rolls / Box
Stabilized PVC	Natural Rubber	Black & White	Custom sizes can be produced as per customer specifications.	2	50 / 80	50 / 60
				3	50 / 80	40 / 40



U-FLEX™ ADHESIVE TAPES

FOAM TAPE



U-FLEX™ Single Side NBR (Nitrile Butadiene Rubber) Foam Tape consists of soft and flexible closed-cell NBR foam coated with a moderately strong hot melt adhesive and laminated to a brown or white silicone release paper liner. The tape is extremely flexible, making it ideal for thermal insulation and duct gasket purposes.

FEATURES:

- The best results are obtained when it is applied to clean and dry surfaces.
- Provides functional compression recovery, adhesive chemical and UV resistance, and flammability ratings.

APPLICATIONS:

- Suitable for both hot and cold pipework and fittings. This tape serves a purpose in insulation due to its excellent flexibility and conformability.
- This tape is ideal for use as a closed-tight gasket to keep moisture and dust.
- For high-quality insulation in refrigeration, air conditioning, and other applications.
- It's a high-quality sealant for air conditioning and ductwork.
- NBR foam tape is used for duct gasket insulation.



PRODUCT SPECIFICATIONS:

Properties	Specification	ASTM Test Method
Backing Thickness	3 ± 0.5 mm	ASTM D 3652
Adhesion to Steel	900-1000 g/inch	ASTM D 3330
Tensile Strength	1700-2500 g/inch	ASTM D 3759
Elongation	155 %	ASTM D 3759
Density	60-70 kg/m³	ASTM D 1667
Temperature Range	-5°C to +55° C	-----

STORAGE & SHELF-LIFE:

12 months when stored at normal room temperature and 50% RH in the original packing.

SURFACE PREPARATION:

It is essential, as with all pressure-sensitive tapes, that the surface to which the tape is applied be clean, dry, and free of grease, oil, or other contaminants.

PACKING:

Backing	Adhesive	Color	Liner	Standard Sizes		
				W (inches)	L (Yds.)	Rolls / Box
NBR Closed Cell Foam	Hot Melt	Black	White/ Brown Release Paper	1	7.5 / 9	48
				2	7.5 / 9	24



U-FLEX™ ADHESIVE TAPES

BOPP TAPE



U-FLEX™ biaxially oriented polypropylene film coated with emulsion pressure sensitive water based acrylic adhesive. It is a good choice for bundling & strapping, heavy carton packing and general application.

FEATURES:

- High tensile strength
- Sturdy backing film with strong adhesive
- Instantly sticks to corrugated carton
- Dispenses quickly
- Able to stand extreme temperature
- Re-inforcing
- Laminating
- Bundling

APPLICATIONS:

- Packing wrapping strapping & bundling, general applications, gift wrapping, advertising, marking, decorations etc.



PRODUCT SPECIFICATIONS:

Properties	Specification (45 micron)	Specification (50 micron)	ASTM Test Method
Total thickness	45 +/- 5 micron	50 +/- 3 micron	D - 3652
Backing	Bopp film	Bopp film	
Adhesive	Acrylic	Acrylic	D - 3330
Film thickness	25 +/- 5 micron	28 +/- 2 micron	D - 3652
Adhesive thickness	20 micron	22 micron	D - 3652
180° peel adhesion	650 gms/ inch	780 gms/ inch	D - 3330
Holding power	5 min	5 min	D3654
Tensile strength	9000 gms/inch	9500 gms/inch	D3759
Elongation(ASTM)	100 %	110 %	D3759
Initial tack	<75 mm.	<75 mm.	-----
Colour	Clear/ Tan/ Brown	Clear/ Tan/ Brown	-----

STORAGE & SHELF-LIFE:

Product should be stored in a cool, dry area in original packing and to use within 12 month of shipment 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 and free of grease, oil or other contaminants.

PRODUCT USE:

It is essential that the user evaluate the U-FLEX™ tape product to determine whether it is fit for particular purpose and use's method of application. Good results will be obtained when applied to a clean, dry surface with a suitable pressure on the U-FLEX™ tape products between +10 - +60 °C (+50 +/- 140 °F).



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U-FLEX™ U-SEAL 32-17

U-SEAL 32-17



U-FLEX™ U-SEAL Acrylic Sealant 32-17 is a fire-resistive indoor/outdoor vapor barrier sealant for low, medium, and high velocity heating and air conditioning ducts. It performs as a tough and flexible adhesive and sealant, forming a durable seal against air leakage when used with or without reinforcing tape or membrane.

FEATURES:

- Excellent resistance to weathering.
- Excellent adhesion to most building substrates.
- Good resistance to water and water vapor.
- Good compatibility with paints and emulsions.
- Can be used without the use of primer on the new substrate.
- Can resist mild dew and mold growth.
- Easy to apply, one-component sealant.
- No mixing required
- Fast drying



APPLICATIONS:

- Surfaces must be dry, clean of dust and free of any substances which may impair adhesion.
- Cut off tip of spout at 45° angle, load cartridge into gun.

PRODUCT SPECIFICATIONS:

Properties	Specification	Test Method
Color	White, Gray, Black	Lab Test
Appearance	Smooth Paste	Lab Test
Tack Free Time	15 min	ASTM C 679
Specific Gravity	1.70 g/cm ³	ASTM D 1475
Hardness	55 Shore A	ASTM D 2240
Tooling Time	10 min	ASTM 679
Crack Test	No cracks	Lab Test
Full curing	1- 3 Day	Lab Test
Viscosity Flow	Non- sag Mm	ASTM 639
Service Temperature	-20 °C up to + 85 °C	ASTM 6411
Shelf Life	24 months	ASTM 1184-05
VOC	0.10523 g/L	GC FID

STORAGE & SHELF-LIFE:

When stored in original unopened container at or below 77 OF (25 OC), and above freezing, Gulf-O-Seal 32-17 has a shelf life of 24 months from manufacturing date. Containers should always be kept sealed when not in use.

CLEAN UP:

Clean residue and tools with cloth. Excess caulk should be cleaned off tools and nonporous surfaces while it is in the uncured state using a wet cloth. Cured compounds should be cut away.

PACKING:

- 450 grams per tube/ bottle
- 24 pcs per box

PRECAUTION:

Direct contact with uncured sealant irritates the eyes and skin. Overexposure to vapor may irritate the eyes, nose, and throat. Avoid eye and skin contact. Use with adequate ventilation. Do not handle contact lenses with sealant on your hands. In the event of eye contact, flush the eyes with water for 15 minutes. Obtain medical attention. In the event of skin contact, remove it and flush with water.



U-FLEX™ A/C BRACKETS

A/C BRACKETS



An air conditioner bracket supports the weight of a window-mounted AC unit. This prevents the window unit from putting too much pressure on the window or the window frame. They are typically installed beneath the window on the outside of the home.

FEATURES:

- Use for A/C condensers and heat pumps.
- Can be mounted at any height.
- Strong and durable, not easily affected by bad weather.
- Advanced technique to ensure brackets are perpendicular to each other when condenser leveling.
- Keep the correct distance from the wall for air circulation.

GENERAL PROPERTIES:

- Material: Steel
- Finish: Grey Powder Coated

PRODUCT SPECIFICATIONS:

Model	Size(mm)	N.W(kg)	G.W(kg)
HN-2	500*500*2.0mm	2.85 kg	3.35 kg
HN-3	550*550*2.0mm	3.0 kg	3.5 kg
HN-4	600*600*2.0mm	3.4 kg	3.9 kg



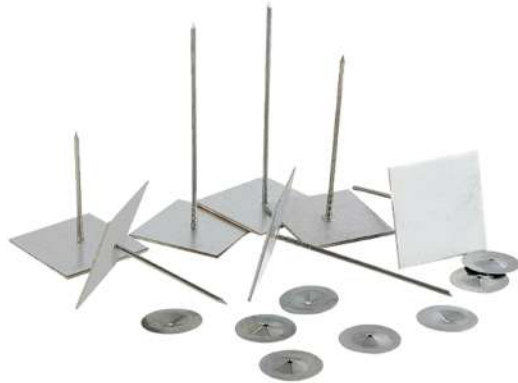
INSTALLATION TIPS:

- Your brackets should also be compatible with the size and the weight of your A/C unit to reduce the number of problems it might have.
- Measure the distance of screw hole at the bottom of A/C unit in advance.
- Use the holes in the vertical face of the wall mounting bracket to attach it to the wall. Three anchors per bracket are required.
- Use appropriate anchor size and type as found in the specification sheet for the type of building structure and building height. Use the level to ensure the bracket is plumb before it is secured into place. If working at height, assistance is needed.
- Set up air conditioner, install anti-vibration pads between the A/C unit and the mounting bracket to reduce noise and vibration. Tighten screws.



U-FLEX™ STUCK-UP PINS

STUCK UP PINS



U-FLEX™ Insulation Pins with self-adhesive fasteners are generally used in HVAC systems to fix thermal insulation or acoustic liner to the duct surface, internally or externally. The function of these Pins is to hold the insulation firmly, not allow any slump, and avoid any condensation.

FEATURES:

- Easy to cut, bend and mount, Corrosion free
- Ensures a flat base, Ensures maximum adherence
- Needs no pin cap
- Easy to fitt, impossible to remove
- No adhesive required.

APPLICATIONS:

- It can be used for fitting rigid or flexible insulation materials such as glass wool, rock wool, polistiren, polyethylene foam, insulation cork boards, etc.
- Insulation pins are applied where noise insulation need to be attached:
- HVAC ducting, Compressor enclosures.
- Marine engine rooms.
- Bus engine bays, Truck engine bays.



PRODUCT SPECIFICATIONS:

Base Size	Nail Length	Quantity/ Box	Suggested Insulation Thickness
2"	25 mm	500	20 mm
2"	32 mm	500	25 mm
2"	45 mm	500	38 mm
2"	50 mm	500	38 mm
2"	65 mm	500	50 mm
2"	75 mm	500	75 mm
2"	90 mm	500	75 mm
2"	100 mm	500	100 mm
2"	110 mm	500	100 mm
2"	120 mm	500	100 mm
2"	130 mm	500	125 mm
2"	140 mm	500	100 mm
2"	150 mm	500	150 mm

SURFACE PREPARATION:

Ensure the surface is clean and dry, free from oil and duct particles. Operating temperature range of U-FLEX stuck up pin is -10°C/ +80°C. Application temperature has to be above +10°C.

INSTALLATION GUIDELINES FOR USING PINS SA:

- Wipe sureface clean. Self-adhesive backing must be applied to a clean dry surface.
- Peel off release backing. NB: Double faced foam tape has a one year active shelf life.
- Press base firmly into position applying firm pressure. Very firm finger pressure should be applied allaround the base of the anchor.
- Allow to stand 15-20 minutes for the selfadhesive to build strength.
- Install insulation after ensuring the time allowed has passed.
- Secure the insulation with a self-locking washer. Bend over or clip off excess spindle length. For an aesthetic finish, use a washer-dome over the protruded spindle after clipping.



KAFFAA AL TAQA A/C DEVICES SPARE PARTS TR. HVAC & R ACCESSORIES



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A/C DEVICES SPARE PARTS TRADING



Canvas Cloth



Canvas Coating
Sealant 30-36 & 30-36 AF



NBR Glue



Acrylic Sealant 32-17



AC Duct Glue 81-10



NBR Insulation
Tube & Coil



NBR Insulation
Sheet Roll & Box



XLPE Foam Insulation



Anti Vibration
Rubber Cork Pad



Anti Vibration
Metal Sandwich Pad



Aluglass Tape



Duct Cloth Tape



PVC Tape



Aluminium FSK Tape



Aluminium Tape



NBR Foam Tape



Clamp & Corner



Flange & Cleat



Compressors



Refrigerants Gases



Copper Coils & Pipes



Thermostat



Glass Wool Insulation



Acoustic Clean Liner



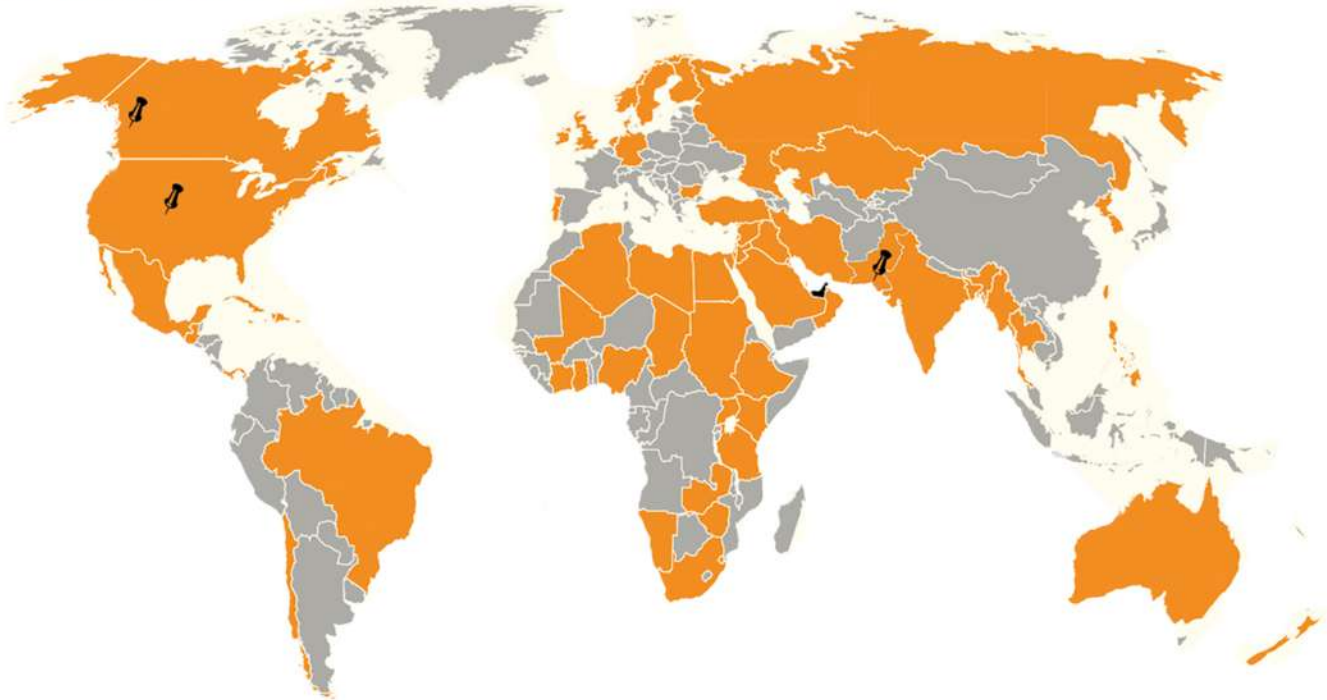
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