



HVAC & Plumbing Products



“Quality is our Priority”



Insulation Pins (AIP) / Perforated Base
Insulation Pins (APIP)

Base : 28 Gauge Metal Pin : 12 Gauge Zinc Plated

Size : 50mm X 50mm Packaging : 500 pieces per box with APW Washers



Self Adhesive Pins Steel Model No.	Pin Length	Use For Insulation Size
AIP020225	25 mm	1/2"
AIP020225	25 mm	3/4"
AIP020232	32 mm	1"
AIP020238	38 mm	1-1/4"
AIP020245	45 mm	1-1/2"
AIP020250	50 mm	1-1/2"
AIP020265	65 mm	2"
AIP020275	75 mm	2-1/2"
AIP020280	80 mm	3"
AIP020290	90 mm	3"
AIP0202100	100 mm	4"
AIP0202110	110 mm	4"
AIP0202120	120 mm	4"
AIP0202130	130 mm	5"
AIP0202140	140 mm	5"
AIP0202150	150 mm	6"
AIP0202160	160 mm	6"

Note:

- Nail size 160mm & above are available on request
- Self Adhesive Insulation Pins with Aluminum nail available on request
- Perforated Base Installation Pins (APIP) available on request

Washers

Model No.	Description
APW	Steel Washers 28 Gauge Galvanized

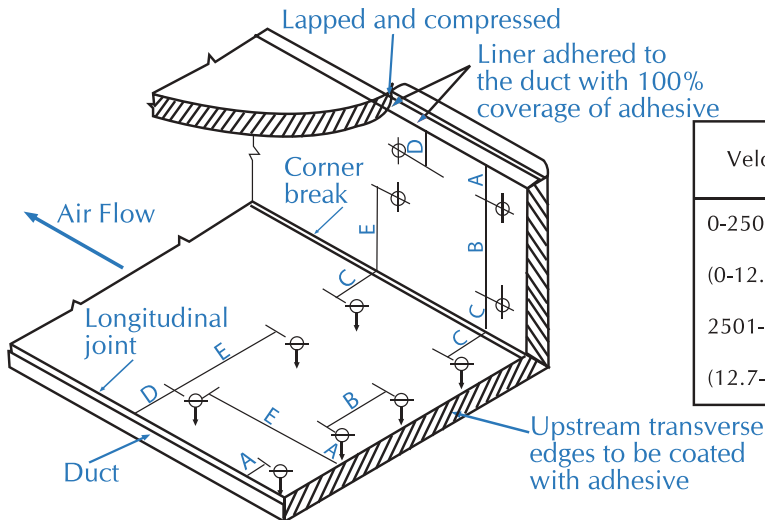
The steel base is made from 28 Gauge metal, a steel pin and double sided self adhesive tape having high shear strength. The use of this pin prevents corrosion on the sheet metal which is caused by the welding fasteners.

Self Adhesive Tape Technical Details

Base Material : Polyethylene foam with aggressive pressure sensitive solvent acrylic adhesive
 Service Temperature : - 5 deg C to + 5 Deg C.
 Highly resistant to abrasion, corrosion and moisture.
 Confirms to European Directive 2000/53 (Lead, Chromium VI, Mercury, Cadmium free)
 10 Minute 180 degree Peel Adhesion : 30 N/25mm
 500 Hour Static Shear (Stainless Steel) : 0.8 kg/cm²



Duct Liner Installation



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

RECOMMENDED INSTALLATION PROCEDURE

1. Ensure that the surface is clean and dry, free from oil, grease or any dust particles
2. Remove protection paper from the base of the insulation fastener.
3. Apply glue to the base of the perforated hanger and fix to the surface
4. Firmly press the base of the pin at the required position on to the steel surface.
5. Fix the insulation over the pins
6. Lock the insulation firmly to the steel surface using the steel washers provided.



Description:

A nominal 30 micron (1.2 mil) high tensile strength aluminum foil backing, combined with a high performance solvent synthetic rubber-resin adhesive, protected by an easy-release silicone release paper.

Aluminum backing provides excellent reflection of both heat and light. High quality adhesive with super strong adhesion and holding power offers reliable and durable joints and seams sealing. Low moisture vapor transmission rate makes an excellent vapor barrier

TYPICAL PHYSICAL PROPERTIES

PROPERTIES	METRIC	ENGLISH	TEST METHOD
Backing Thickness	30 Micron	1.2 Mil	PSTC-133 / ASTM D 3652
Total Thickness	70 Micron	2.8 Mil	PSTC-133 / ASTM D 3652
Adhesion to Steel	30 N/25mm	108 Oz./In.	PSTC-101 / ASTM D 3330
Tack Rolling Ball	8 cm	3.2 In.	PSTC-6 / ASTM D 3121
Tensile Strength	45 N/25mm	10.2 Lb/In	PSTC-131 / ASTM D 3759
Elongation	3.0 %	3.0 %	PSTC-131 / ASTM D 3759
Service Temperature	-20 ~ +80 °C	-4 ~ +176 °F	-----
Applying Temperature	+10 ~ 40 °C	+50 ~ +105 °F	-----
Fire Rating	Class O	Class O	BS 476 Pt. 6 & 7

TYPICAL APPLICATIONS

In HVAC industry for joining and sealing Foil-Scrim-Kraft Facing Insulation joints and seams; joining and sealing flexible air duct seams and connections. May also be used for other industrial uses requiring a tape with these characteristics and benefits.

PRODUCT SIZE

Width : 48/50mm, 72/75mm, 96mm/100mm, Length : 20 Yards, 25 Yards

IMPORTANT NOTE

1. The data above are typical values only, and should not be used for specifications purpose.
2. Tolerance: Weight and Thickness: $\pm 10\%$; Width: $\pm 3\text{mm}$; Length: $\pm 0.3\text{m}$.
3. It is essential that the user evaluate the Tape product to determine whether it is fit for a particular purpose and user's method of application.
4. Good results will be obtained when applied to a clean, dry free of grease oil or other contaminants surface with a suitable pressure on tape products.

STORAGE & SHELF LIFE:

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



Description:

3-way Foil-Scrim-Kraft backing, combined with a transparent high performance solvent synthetic rubber-resin adhesive, protected by an easy-release silicone release paper.



3-way Foil-Scrim-Kraft backing provides excellent reflection of both heat and light. High quality adhesive with super strong adhesion and holding power offers reliable and durable Foil-Scrim-Kraft Facing joints and seams sealing . Low moisture vapor transmission rate makes an excellent vapor barrier.

TYPICAL PHYSICAL PROPERTIES

PROPERTIES	METRIC	ENGLISH	TEST METHOD
Backing Thickness	120 Micron	4.8 Mil	PSTC - 133 / ASTM D 3652
Total Thickness	170 Micron	6.8 Mil	PSTC - 133 / ASTM D 3652
Adhesion to Steel	30 N / 25mm	108 Oz./In .	PSTC - 101 / ASTM D 3330
Tack Rolling Ball	8 cm	3.2 In .	PSTC - 6 / ASTM D 3121
Tensile Strength	120 N / 25mm	27.3 Lb / In	PSTC - 131 / ASTM D 3759
Elongation	1.0 %	1.0 %	PSTC - 131 / ASTM D 3759
Service Temperature	-20 ~ +80 ° C	-4 ~ + 176 ° F	-----
Applying Temperature	+10 ~ 40 ° C	+50 +105 ° F	-----
Fire Rating	Class 1	Class 1	BS 476 Pt . 7
Fire Rating	25/50 Passed	25/50 - Passed	UL 723

TYPICAL APPLICATIONS

In HVAC industry for joining and sealing Foil-Scrim-Kraft Facing Insulation joints and seams; joining and sealing flexible air duct seams and connections. May also be used for other industrial uses requiring a tape with these characteristics and benefits.

PRODUCT SIZE

Width : 48/50mm, 72/75mm, 96mm/100mm, Length : 20 Yards, 25 Yards

IMPORTANT NOTE

1. The data above are typical values only, and should not be used for specifications purpose.
2. Tolerance: Weight and Thickness: ±10%; Width: ±3mm; Length: ±0.3m.
3. It is essential that the user evaluate the Tape product to determine whether it is fit for a particular purpose and user’s method of application.
4. Good results will be obtained when applied to a clean, dry free of grease oil or other contaminants surface with a suitable pressure on tape products.

STORAGE & SHELF LIFE:

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

Description:

Aluminum-Glass Cloth backing (7u Foil / FR Glue / 12x12 Mesh Glass Cloth), combined with a high performance flame retardant solvent acrylic adhesive, protected by an easy-release silicone release paper.



Aluminum-Glass Cloth backing provides excellent reflection of both heat and light. High quality adhesive with super strong adhesion and holding power offers reliable and durable Aluminum-Glass Cloth Facing joints and seams sealing, Low moisture vapor transmission rate makes an excellent vapor barrier.

TYPICAL PHYSICAL PROPERTIES

PROPERTIES	METRIC	ENGLISH	TEST METHOD
Backing Thickness	120 Micron	4.8 Mil	PSTC - 133 / ASTM D 3652
Total Thickness	170 Micron	6.8 Mil	PSTC - 133 / ASTM D 3652
Adhesion to Steel	18 N / 25mm	64.8 Oz./In .	PSTC - 101 / ASTM D 3330
Tack Rolling Ball	15 cm	6.0 In .	PSTC - 6 / ASTM D 3121
Tensile Strength	255 N / 25mm	58.0 Lb / In	PSTC - 131 / ASTM D 3759
Elongation	%	5.0	PSTC - 131 / ASTM D 3759
Service Temperature	-30 ~ +120 ° C	-22 ~ + 248 ° F	-----
Fire Rating	25/50 Class 0	25/50 Class 0	UL 723 & BS476 Pt. 6 & 7

TYPICAL APPLICATIONS

In HVAC industry for joining and sealing Alum.-Glass Facing laminated insulation joints and seams; joining and sealing industrial pipe insulation' seams and connections. May also be used for other industrial uses requiring a tape with these characteristics and benefits

PRODUCT SIZE

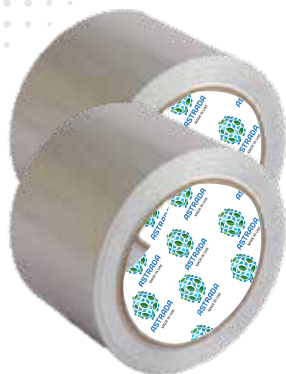
Width : 48/50mm, 72/75mm, 96mm/100mm, Length : 20 Yards, 25 Yards

IMPORTANT NOTE

1. The data above are typical values only, and should not be used for specifications purpose.
2. Tolerance: Weight and Thickness: $\pm 10\%$; Width: $\pm 3\text{mm}$; Length: $\pm 0.3\text{m}$.
3. It is essential that the user evaluate the Tape product to determine whether it is fit for a particular purpose and user's method of application.
4. Good results will be obtained when applied to a clean, dry free of grease oil or other contaminants surface with a suitable pressure on tape products.

STORAGE & SHELF LIFE:

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



Description:

A laminated PET-Foil backing (Polyester: 12 Microns / Foil: 7 Microns), combined with a high performance solvent acrylic adhesive, protected by an easy-release silicone release paper.



PET-Foil backing provides excellent reflection of both heat and light. High quality adhesive with strong adhesion and holding power offers permanent sealing and bonding.

Good aging resistance both indoors and outdoors.

Low moisture vapor transmission rate offers excellent sealing and patching performance.

TYPICAL PHYSICAL PROPERTIES

PROPERTIES	METRIC	ENGLISH	TEST METHOD
Backing Thickness	20 Micron	0.8 Mil	PSTC - 133 / ASTM D 3652
Total Thickness	55 Micron	2.2 Mil	PSTC - 133 / ASTM D 3652
Adhesion to Steel	15 N / 25mm	54 Oz./In .	PSTC - 101 / ASTM D 3330
Tack Rolling Ball	10 cm	4.0 In .	PSTC - 6 / ASTM D 3121
Tensile Strength	70 N / 25mm	15.9 Lb / In	PSTC - 131 / ASTM D 3759
Elongation	20.0%	20.0%	PSTC - 131 / ASTM D 3759
Service Temperature	-30 ~ +100 ° C	-22 ~ + 212 ° F	-----
Applying Temperature	+10 ~ 40 ° C	+50 ~+105 ° F	-----

TYPICAL APPLICATIONS

Excellent for fixing copper tube of Refrigerator. Joining and sealing Polyester-Foil laminated insulation pipe's joints and seams. Sealing solar-reflecting board's seams. General purpose holding, patching, sealing and masking applications - indoors and outdoors.

PRODUCT SIZE

Width : 48/50mm, 72/75mm, 96mm/100mm, Length : 20 Yards, 25 Yards

IMPORTANT NOTE

1. The data above are typical values only, and should not be used for specifications purpose.
2. Tolerance: Weight and Thickness: $\pm 10\%$; Width: $\pm 3\text{mm}$; Length: $\pm 0.3\text{m}$.
3. It is essential that the user evaluate the Tape product to determine whether it is fit for a particular purpose and user's method of application.
4. Good results will be obtained when applied to a clean, dry free of grease oil or other contaminants surface with a suitable pressure on tape products.

STORAGE & SHELF LIFE:

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



Description:

PVC film coated with high performance flame retardant solvent rubber adhesive

This is used a lot by the underground pipe contractor to protect Iron & Steel pipe from corrosion, used to protect pipe from corrosion due to ultra violet rays in above the ground level application. Tape is used in oil field industry and Air-conditioning industry to wrap to protect from corrosion.

TYPICAL PHYSICAL PROPERTIES

PROPERTIES	METRIC	ENGLISH	TEST METHOD
Backing Thickness	100 Micron	4 Mil	PSTC-133/ ASTM D 3652
Total Thickness	130 Micron	5.1 Mil	PSTC-133/ ASTM D 3652
Adhesion to steel	18 N/25mm	64.8 Oz./ln.	PSTC-IOI/ ASTM D 3330
Dielectric strength	KV/Min	25.6	
Tensile Strength	20 N/10mm	4.56 Lb/ln.	PSTC-131/ ASTM D 3759
Elongation at break	%	180%	PSTC-131/ ASTM D 3759
Service Temperature	0 +80 ° C	32 +176 ° F	-----
Flame Retardant			Self extinguishing

PRODUCT SIZE:

Width: 48 mm (2") Length: 60ft, 90ft

IMPORTANT NOTE

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2. Tolerance: Weight and Thickness: ±10%; Width: ±3mm; Length: ±0.3m.
3. It is essential that the user evaluate the Tape product to determine whether it is fit for a particular purpose and user's method of application.
4. Good results will be obtained when applied to a clean, dry free of grease oil or other contaminants surface with a suitable pressure on tape products.

STORAGE & SHELF LIFE:

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



ASTRADA[®]

Description:

Flexible closed cell elastomeric insulation foam with high water vapor diffusion resistance and low thermal conductivity

Thermal insulation/protection for pipes, air ducts, (incl. elbows, fittings flanges etc.) air-conditioning/ refrigeration and process equipment to prevent condensation and save energy.



CONSTRUCTION

Backing	NBR foam self-adhesive
Adhesive	acrylic
Thickness	3 mm
Width	24 mm, 48 mm
Length	7.50 mtrs
Adhesion	40 to 45 gsm
Carrier	HDPE
Tensile Strength	1700-2500 gms/inch
Elongation at break	155%
Adhesion to steel	900 - 1000 gms/inch

TYPICAL PHYSICAL PROPERTIES

PROPERTIES	VALUE/ASSESSMENT	TESTED ACCORDING TO:
Temperature range Max. line temperature Min. line temperature	+105 C (flat surface and tape +800) -80 °C	DIN EN 14706 ASTM C534 Type 1 & 2
Thermal conductivity at 24.0C at 24 °C at 35 °C	0.033 W/(mK) 0.035 W/(mK)	ASTM 018
Water vapor diffusion resistance factor	>=17,000	BS EN 12086
Water vapor permeance [perms]	0	ASTM E96
Water absorption [% by volume]	0.06	ASTM C209
Reaction to fire	Class 0 Class 0 Comply	BS 476 Part 6 & 7 ASTM E 84 DCD Fire & Life Safety code
Resistance to fungi	Passed	ASTM 621
Resistance to bacteria	Passed	ISO 22196
Emission (VOC level)	Very low	ASTM D5116
Corrosion Risk	pH Neutral	DIN 1988
Leachable Chlorides	<0.05% water soluble chloride ions	DIN 1988
Environment friendly		
Ozone resistance	Excellent	
Ozone Depletion Potential	Zero	
Global Warming Potential	< 5	
CFC & HCFC, duct, fibers & asbestos	Free	



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