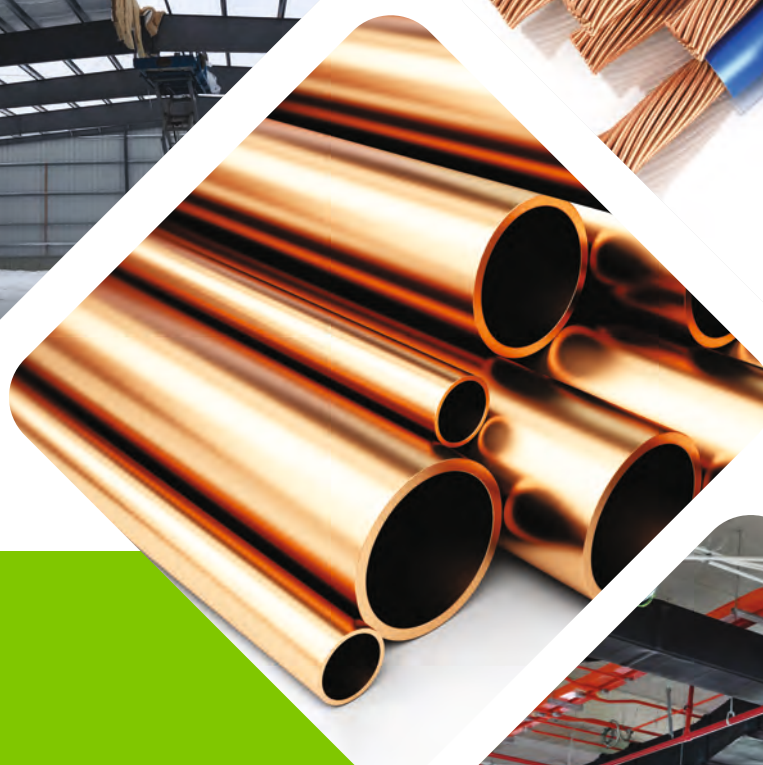


ISO 9001:2015 Certified Company



ENGINEERING SOLUTIONS



A BUILDING NEEDS

General Brochure

ABOUT US

We furnish a vast range of HVAC solutions with a good measure of innovation and high-quality service. It is insulation & accessories trading company based in Chennai. Maruthi Engineering provides HVAC and PEB solutions with optimum cost and savvy techniques throughout South India for both commercial and industrial infrastructures. It has built a flexible approach towards customer requirements and renders relentless and timely service and provides a backup for its customers in need. It is a professionally managed company with experienced employees with decades of experience in meeting the demands of customers.

The Managing partner has had extensive experience in dealing with insulations and accessories. Almost a decade and a half have been spent in this business. He stepped into entrepreneurship in 2016 to provide insulations to HVAC&R projects and PEB industries. We have the depth of knowledge and the support capability needed to respond to any emergency situation. Our well-trained engineers are professionally trained and well experienced and reliable. We make access to world-class service easy, for all customers. Our excellent service cannot be denied. Though our methods are complex, our goal is simple. We want to serve you to meet your needs and goals.

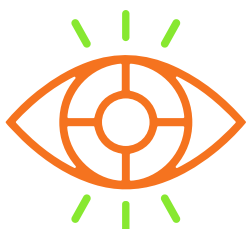


Maruthi Engineering Solutions is committed to providing timely and innovative solutions to customers. Both our service and products are of top-notch quality at competitive costs that exceeds client satisfaction.



MISSION

We desire to become a single-window service provider for all types of HVAC&R solutions and PEB requirements. The company aims to contribute to the society by creating green building projects and products and to safeguard the environment.



VISION

We have expert professionals as our staff who stay true to their actions. Integrity is a virtue that cannot be discounted upon, under any circumstances. Our teamwork and education have taught us to serve our clients beyond their satisfaction with an innovative approach.



VALUES



K-FLEX ST SHEETS & TUBES:

Nitrile rubber is a versatile and flexible closed cell elastomeric insulation suitable for applications up to an approximate maximum continuous operating temperature of -200°C to $+116^{\circ}\text{C}$. K-Flex Insulations are available with Class 'O' and Class '1'.

Application of Thermal insulation :

Refrigeration pipe work, heating and ventilation pipe work, air-conditioning pipe work.

Heating and ventilation ductwork systems.

Vessels and curved or irregular surfaces.

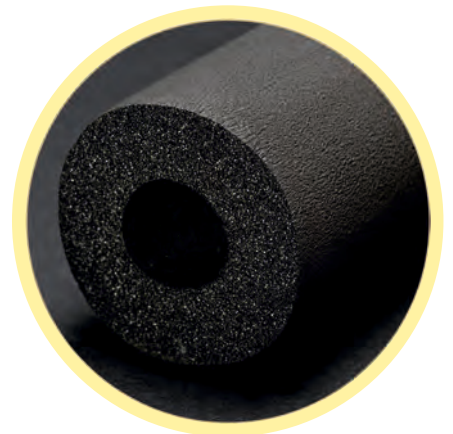
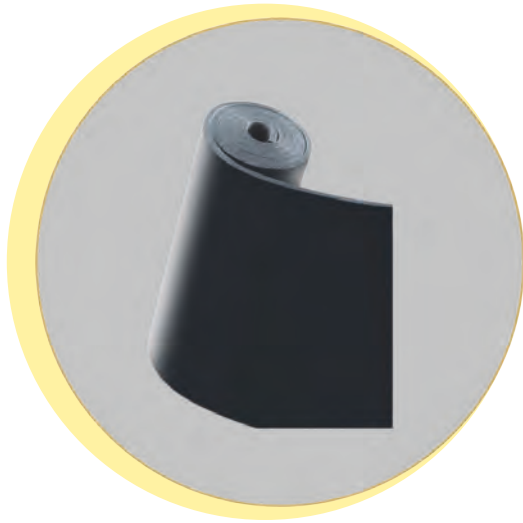
Thickness & Density :

Thickness: 06, 09, 13, 16, 19, 25, 32, 40 and 50mm.

Density: 40-60kg/M3.

K-Flex sheets are also available with various protective coverings:

- * Factory laminated Aluminium Foil facing
- * Factory laminated IC-Clad (Glass cloth) facing
- * Self – Adhesive
- * Anti-Microbial protection
- * IN-Clad & AL-Clad facing



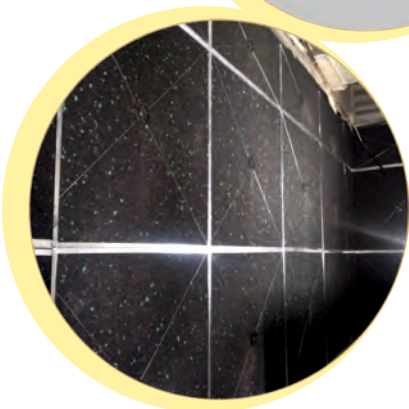
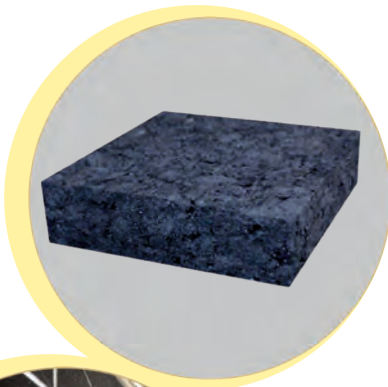
Fire behaviour:

Produces adhering to highest safety norms for fire i.e FM Global approved. K-Flex does not generate flaming droplets. Has very low flame spread and fire propagation index. It's certified as Class O as per BS 476 Part 6 & Part 7.

It is self extinguishing material & High performance acoustic insulation K-Fonik open cell processed elastomeric foam ensures the ideal acoustic insulation for all kind of HVAC & Industrials noise control Applications. also UL 94 approved.

Applications of Acoustic insulation :

- * Building & Industrial Noise Control
- * Air-conditioning Duct * AHU Rooms
- * Diesel generator set enclosure lining.



OPEN CELL INSULATION:

Thickness & Density And Variants:

- * Thickness – 10mm, 15mm, 20mm, 25mm, 30mm, 40mm and 50mm.
- * Density - 140 – 180 Kg/M3
- * Variants – Plain, Antimicrobial Protection, With Self-Adhesive

K-FLEX SOLAR HT (EPDM)

Elastomeric EPDM (Ethylene - Propylene Diene Monomer) rubber based insulation with excellent mechanical properties suitable for high temperature & Good UV resistance.

Available thickness and ID:

K-Flex EPDM is available in 13mm, 19mm & 25mm wall thickness, non-slit 2meter length ranging from 10mm ID to 89mm ID and Rolls comes with 13mm, 19mm, 25mm and 32mm thick.

Applications:

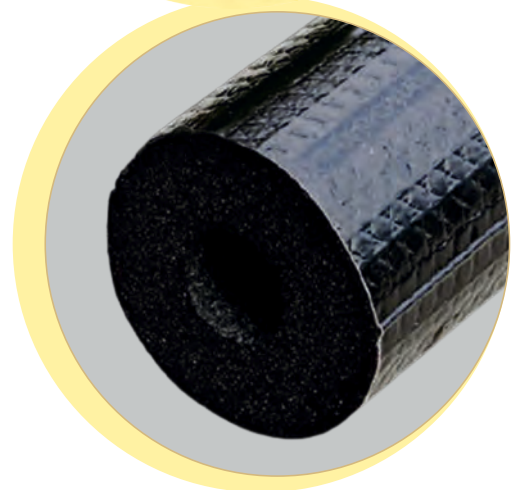
K-Flex EPDM can be used for outdoor applications with service temperatures ranging from -40°C to 150°C.

It's ideal for use on Industrial and solar system. It will help on increased energy efficiency.

K-FLEX TITAN

K-Flex TITAN is a flexible elastomeric rubber insulation with co-extruded co-polymer blend jacket tubular insulation. It is a polymeric jacketed material that offers excellent flexibility and weather resistance.

It is Self-Extinguishing, does not drip i.e Fire resistance.



Available thickness and ID:

K-Flex TITAN is black in colour and is available in 13mm, 19mm & 25mm wall thickness, non-slit 2meter length ranging from 6mm ID to 60mm ID across all wall thicknesses and additional id's depend on wall thickness.

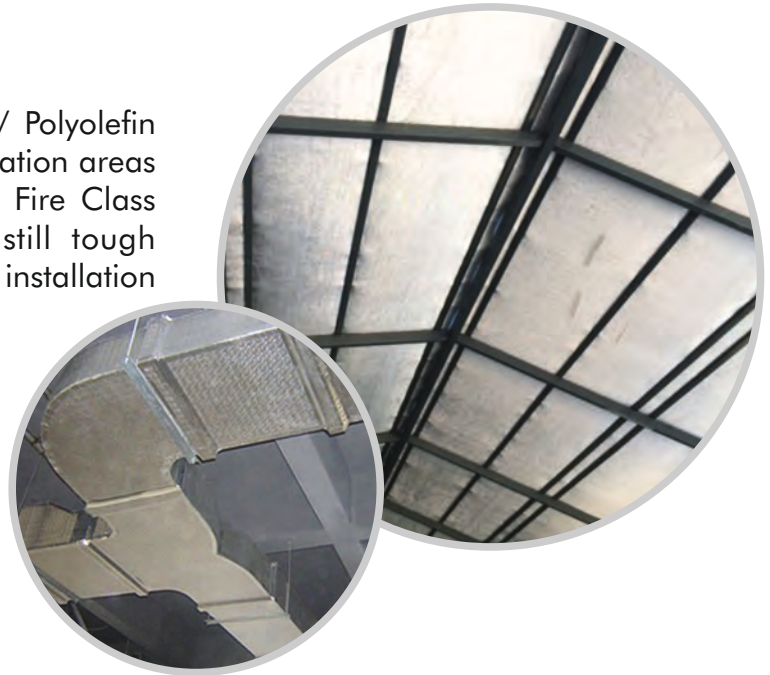
Applications: K-Flex TITAN can be used for outdoor applications with service temperatures ranging from -50°C to 104°C. It is ideal for use on HVAC, Plumbing applications, VRF and Split Ac's etc.

K-FLEX XLPE INSULATION

K-Flex XLPE is Crosslinked Polyethylene / Polyolefin Insulation. XLPE is used for various application areas requiring Low Thermal Conductivity and Fire Class approved product with very Flexible still tough Insulation material which offers ease of installation along with durable life span.

Application Areas :

- * Air conditions Ducting
- * Roof Insulation
- * Underdeck Insulation
- * Tank Insulation
- * Wall Insulation and many other interior



Available Thickness : 3mm to 100mm Thickness

Facings : Aluminium foil & Glass Cloth (IC Clad)

Density : 28 Kg/M³ ± 10%

Dimensions : 1.2 Meter Width and Length will be according to the Thickness.

Thermal Conductivity : 0.0322 W/m.k @ 23°C
0.0361 W/m.k @ 36°C

Application Sectors :

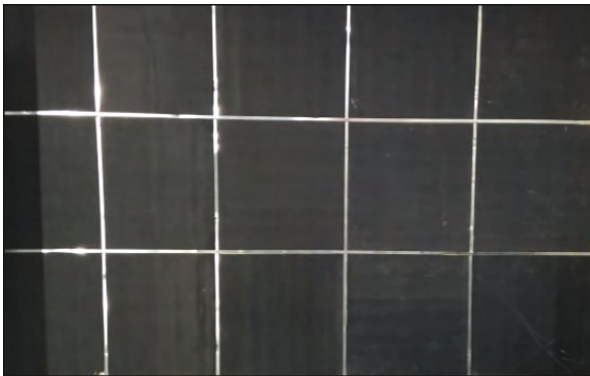
- * Heating, Ventilation and Air Conditioning
- * Refrigeration
- * Pharmaceuticals
- * Solar Systems
- * Automotive
- * Hospitals * Industrial PEB's
- * OEM
- * Marine & Shipbuilding Industries

XPS-EXTRUDED POLYSTYRENE FOAM



General specifications of XPS foam board (GB/T10801.2-2002)		
Item	Unit	Value
Density	Kg/m ³	28-60 (based on different compressive strength)
Thickness	mm	20, 25, 30, 40, 50, 60, 70, 80, 90, 100, 120
Width	mm*mm	1200*600
Compressive strength	Kps	150-800
Water absorption rate of soaking volume	%	≤1.0
Water vapor permeability	Ng/pa.m.s	≤2.0

- * Provides thermal comfort to occupants and reduces head loading in the building
- * Contributes to the energy efficiency of green buildings under various headings of energy & atmosphere, indoor air quality & recycle content.



GLASSWOOL ACOUSTIC BOARD

Specifications

Density: 70 to 80 Kg/cu.m

Thickness: 25 mm

Lamination: One Side FSK & Other side Black Glass Cloth

Size: 1200mm x 600mm or 3M x 1.20 M

Applications

AHU Room

Sound Attenuator / Box

Generator canopy

Vibration Control at Automobile Crash Testing Pit

Banquet

Amphitheatre

PRE ENGINEERED BUILDING INSULATIONS

Density :

12, 16, 24, 32, 48 & 64 kg/m³

Thickness :

12, 25, 50 & 75mm

Facings :

FSK, Alugalss, WMP-10



FIBERGLASS INSULATION



- * Fiberglass Pre insulated duct board
- * Fiberglass flexible ducts
- * HVAC duct thermal, duct acoustic and mechanical room.
- * Under-deck insulation for RCC roof.
- * Cavity wall insulation- masonry constructions.

Rockinsul

Rockwool is a type of insulation made from actual stone. It is an excellent insulator, sound baffle and possesses a very high melting point, rockwool is used in a wide array of products and applications.

Types of Rockwool :

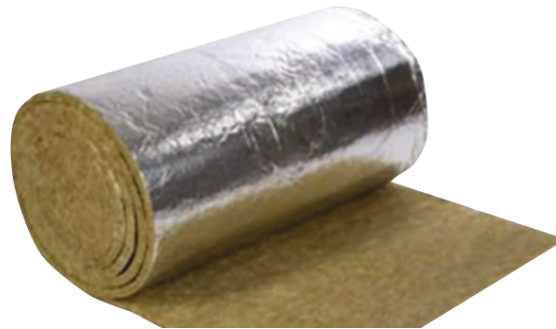
1. Building Roll
2. SLAB
3. LRB Mattress & Pipe Insulations

BUILDING ROLL:

Building rolls are comes with 36kg, 48kg, 64kg densities and 40mm to 100mm thicknesses respectively. Building rolls are available with ALG and FSK Facings, Which an efficient vapour barrier, Kraft paper facing is also available. Its working temperature is in Fibre up to 750 Deg.



Rockwool SLAB



Slabs available from 48kg/m³ to 144kg/m³ densities and 25mm to 125mm thicknesses. Rockwool slabs are light weight, strong, resilient, easy to handle, and easy to cut to suit intricate shapes.



LRB MATTRESS:

Lightly Resin Bonded (LRB) stonewool mattresses are made out of molten rocks transformed into fibres and then bonded with thermosetting binder forming mattress and then its stitched with one side or both side GI or SS hexagonal wire netting. LRB Mattresses are exceptionally suitable for wrapping large curve surfaces like Boilers, Equipments, E.S.P, Ducts, Ovens, Furnaces, Tanks, Pipe lines, Chimney walls etc. Its available with 75kg to 120kg densities and 50mm to 100mm thicknesses.

RR SHRAMIK 100% Eddy Current Tested Product



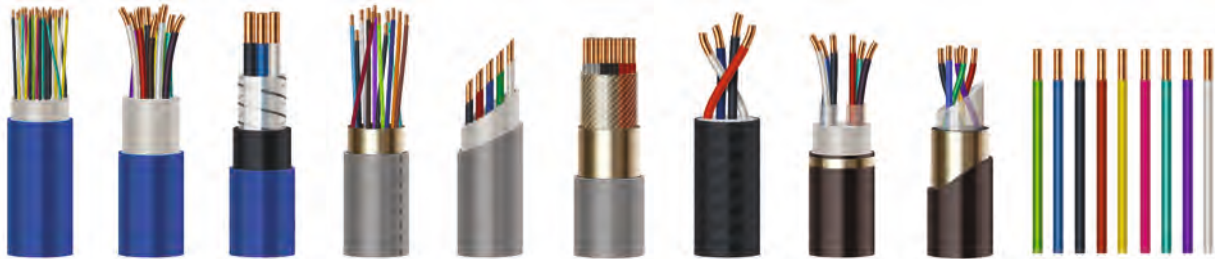
* VRV & Non VRV Copper Pipes * Hard & Soft Pipes * Diameter : 4.76 to 104mm dia
 * Wall Thickness : 0.6mm to 2.5mm * Length : 2-100 meters

Product Applications



<p>RR PRESTIGIOUS VRV / VRF APPROVALS</p>	<p>OEMs</p>	<p>Medical & Gas Distribution</p>
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APPROVED BY **THE EXPERTS**, ADMIRER BY **THE WORLD**.



HVAC APPLICATIONS

* Flexible Cables * Shielded Cables * Armoured Cables

RR Kabel is a ISO 9001, ISO 14001, and ISO 45001 certified company. We are available globally with our Wires & Cables products certified to BASEC(UK), UL(USA), CSA(Canada), VDE(Germany), TUV Rheinland (Germany), & more and compliant to REACH (Registration Evaluation Authorization of Chemical Substances) and RoHS (Restriction of Hazardous Substances) ensuring we adhere to global standards of quality and safety.



CONSTRUCTION & BUILDING



POWER TRANSMISSION & DISTRIBUTION



OIL & GAS



AIRPORTS



RENEWABLE ENERGY



PANELS & SWITCHGEARS



FOOD & BEVERAGE



LIFE SCIENCE



RAILS & METROS



AUTOMATION & PROCESS CONTROL



OEMS



AUTOMOBILES

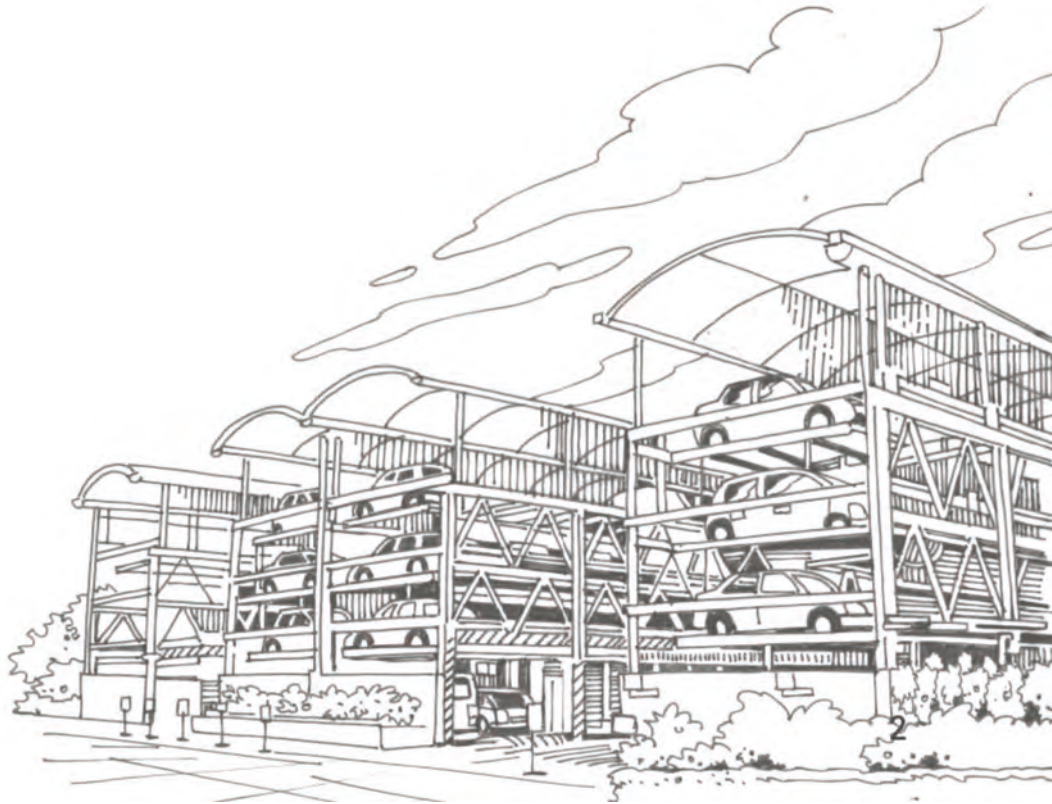


DATA & COMMUNICATION

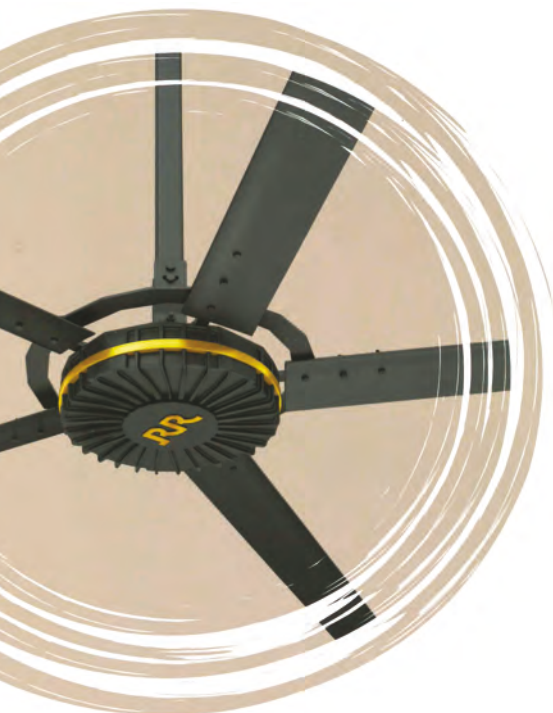
PARKON

Range of Systems

- Tower Parking System
- Shuttle Parking System
- OG Puzzle Park
- 1 in Pit Puzzle
- 2 in Pit Puzzle
- 3 in Pit Puzzle
- Horizontal Circulation System for Sedan/SUV
- Mini Rotary System
- 2S Dependent Stack
- 3S Dependent Stack
- Twin Park System
- Car Lift Hydraulic Type
- Car Lift Traction Type



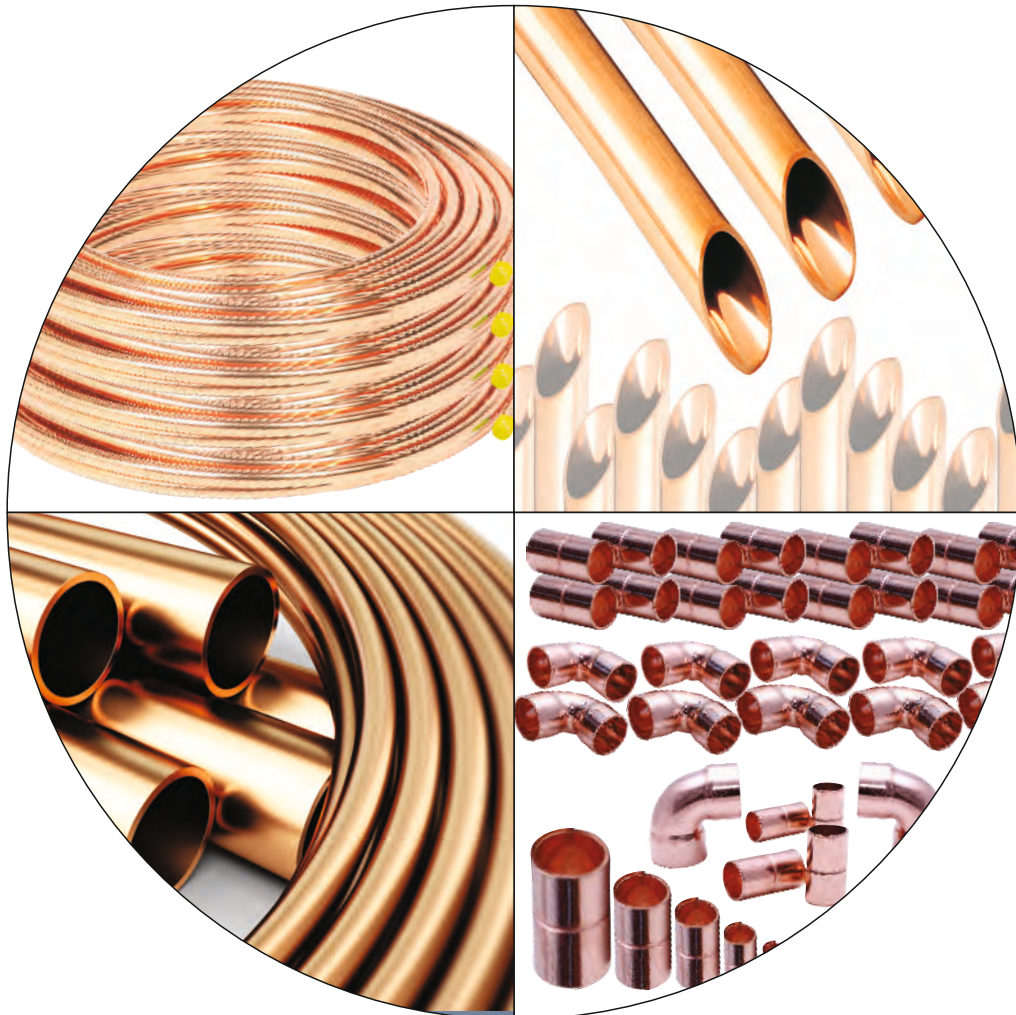
RR PMSM HVLS FAN



Permanent Magnet Synchronous Motorised (PMSM) HVLS Fan series from RR has been conceptualized and developed at our in-house R&D centre. It has a light and stylish design with the fan blades made from aviation grade aluminum that makes them stronger and more efficient. The winglets help in reducing air resistance and noise, reaching optimal silent performance at low speeds. Our PMSM HVLS Fan is certified with ISO 9001:2015 and make using only world class industrial grade components and spare parts of the highest quality. We ensure the most efficient and reliable fan for you to use.

	PMSM					
Model	PH-V05R-8	PH-V05R-10	PH-V05R-12	PH-V06R-16	PH-V06R-20	PH-V06R-24
Diametre	8	10	12	16	20	24
Input Power	Single Phase 230 Volt, 50 Hz					
Blade Material	Aviation Grade Extruded Aluminium Alloy 6063 - T3					
No. of Blade	5					
Nominal Fan Weight (Kg)	43	46	49	84	89	95
Power (W)	200	275	350	600	800	950
RPM (Rated)	110	100	95	80	65	55
Area Coverage (Sq.Ft)	4000	5500	7000	10000	13500	18500
Floor to fan blade height (Ft)	12-15 ft	14-17 ft	16-18 ft	18-22 ft	22-27 ft	27-30 ft
Sound Level	45-50 dB					
Blade Clearance from ceiling	3-4 Ft					
Max Air Flow (CFM)	136000	150000	164000	220000	280000	380000

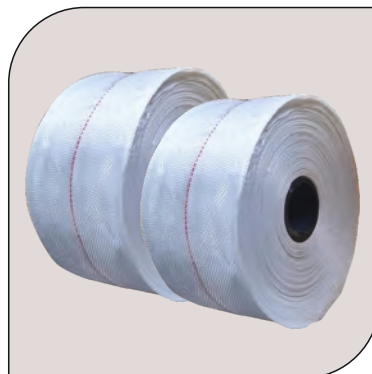
COPPER PIPES



Available VRV & Non VRV Copper Pipes
Hard & Soft Pipes
Diameter : 4.76 to 104mm dia
Wall Thickness : 0.6mm to 2.5mm
Length : 2-100 meters



BRAZING RODS



FIBRE GLASS CLOTH
(UV PROTECTING)



PROTECTIVE SHIELD
AGAINST UV RADIATION

ASPEN PUMPS

ASPEN PUMPS are quieter Airconditioning Pumps and perfectly suited for all HVAC & R Applications. It provides the Energy needed to move water and other fluid through piping, fittings and equipment.

Features: • Quietest in its class • Plug & Play • Ultra Slim • High Performance • Acoustic Damper



AIRCURTAINS



3 FEET TO 6 FEET
AVAILABLE

AC STABILIZER



SINGLE & DOUBLE BOOSTER
4 KVA, 5 KVA

REFRIGERANT GASES



R 407C

It's a combination of 52% R-134a, 25% R-125 & 23% R-32

R 410A

It's a combination of 50% R-125 & 50% R-32

R 404A

It's a combination of 52% R 143a, 44% R 125 & 4% R 134a

R 407c, R 410a & R 404a is a type of HFC Near Zeotropic blend.

R 134A

This is a pure gas of 100% R 134a

R 32

This is a pure gas of 100% R 32

R 22

This is a pure gas of 100% R 22

R 134a & R 32 is a type of HFC Single component fluid.

We are dealing Refrigerant Gases for use in Commercial & Residential Air conditioning systems. We have available Cylinders in Big & Small Sizes. These are Non-Ozone depleting refrigerant.

CHILLAIRE
Authorised Dealer

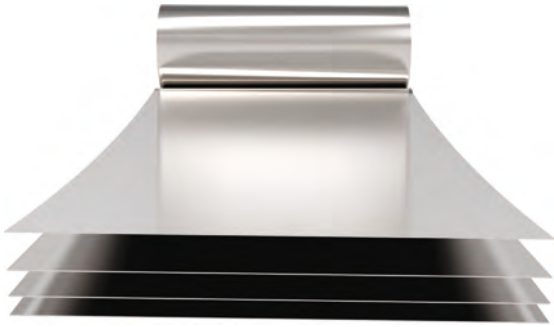


SRF Gases Approved by



And all other leading brands

ACCESSORIES

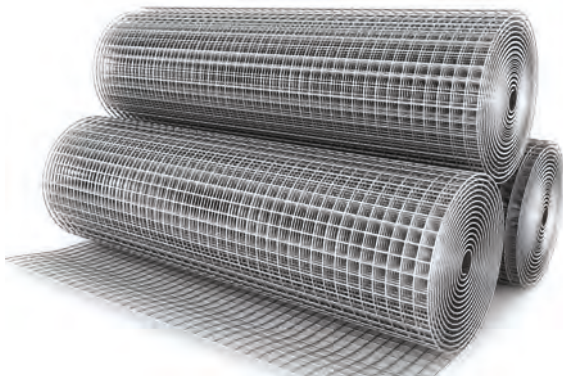


ALUMINIUM CLADDING

Available in Sheets & Coils, Ingots,
Roofing, Extrusions
Application : Duct Work, Claddings
Thickness : 0.40 – 1.5mm

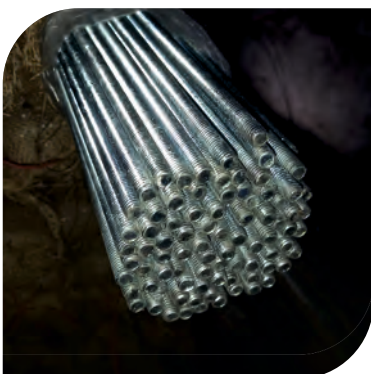
ALUMINIUM PERFORATED SHEETS

Application : Wall Acoustic Protection
Available : 26, 25 SWG Close Hole



GI WELDED WIREMESH

Application : PEB Insulation Protection
Dimension : 3" X 3" Opening X 1.6mm wire dia



THREADED RODS



SLOTTED CHANNELS



CABLE TRAY

ACCESSORIES

K-FLEX, K-414 ADHESIVE

- * Highly compatible
- * Excellent Bonding to Porous and Non Porous Surface
- * Resistance for Chemical, UV and Heat.
- * VOC Level is less than 400 gm/liter.
- * Appearance : Yellow Color Liquid
- * Packaging : Metal Pail - 5 Liters and 30 Liters



K-Bond SR 203 Adhesive (Benzene Free Adhesive)

K-Bond SR 203 is a Solvent based Adhesive. It is suitable for Nitrile Rubber and XLPE Foam Insulation.

Appearance : Honey Brown Liquid

Packaging : Metal Pail – 5 Liters and 20 Liters

FIRE RATED DUCTWORK COATING

Feukem 2 Hour Rated Ductwork Coating is used to Achieving fire and smoke containment is the driving force behind design and installations of fire rated ductwork systems. Buildings are generally divided into fire rated compartments to prohibit the spread of smoke and fire in the building for a given period as specified by National Building Code of India (NBC).

Application Areas :

- * Smoke Extract
- * Car Park Extract
- * Kitchen Extract
- * Stair Pressurisation



PACKING AVAILABLE IN 25 KG PLASTIC CAN

INSULATION TAPES

K-Flex Self Adhesive Tape - 3mm thick, 50mm width and 10 Mtr length

K-Flex Aluminium Tape - 50mm & 75mm width and 20 Mtr & 50 Mtr length

K-Flex IC-Clad Tape - 50mm & 75mm width and 20 Mtr length

Black Tape – 50mm width and 50 Mtr length.





MARUTHITM
ENGINEERING SOLUTIONS

IK K-FLEX
Authorised Distributor

SAINT-GOBAIN
Rockinsul | **Twigainsul**
Authorised Dealer

RR GLOBAL
Authorised Dealer

SRF
Authorised Dealer

TOTALINE
Authorised Dealer

MEXFLOW
COPPER PIPES
Authorised Dealer

T
Authorised Dealer

ASPEN
PUMPS
Dealer

CHILLAIRE
Authorised Dealer



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