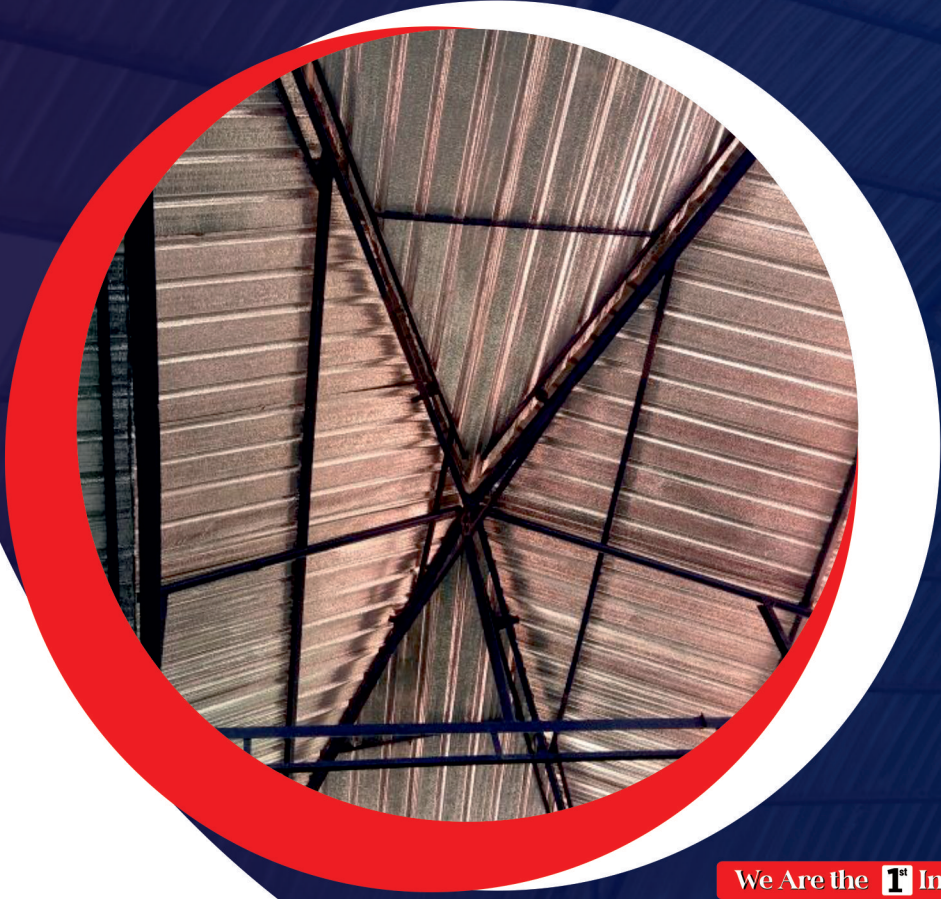
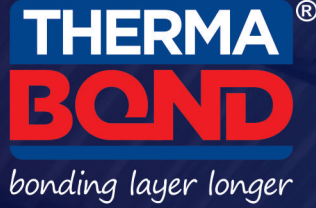


PRODUCT OF INDIA



We Are the **1<sup>st</sup>** In this Segment

Grow Ahead  
**with Us**



**PRODUCT RANGE:**

- » EPE Foam » XLPE Foam » Air Bubble » Insulation Pasting Machine
- » Press Brake Machine » Roll Forming Machine » Insulated Metal Roof
- » Adhesive » Polycarbonate Sheet » Air Ventilator

[www.arjunroof.com](http://www.arjunroof.com)



# AN OVERVIEW

THERMALON METAL ROOF PVT. LTD. is One of The Pioneer in  
The Manufacturer of Insulated Pre-coated, Steel Sheets, All type of Insulation Material,  
Machines, Polycarbonate Sheets & Adhesives.



Established In 2011 & Associated with ANGEL PRODUCT CO. LTD. THAILAND.



INSULATION PASTING  
MACHINE FOR ROOFING SHEETS



CRIMPING MACHINE



CONTACT ADHESIVE



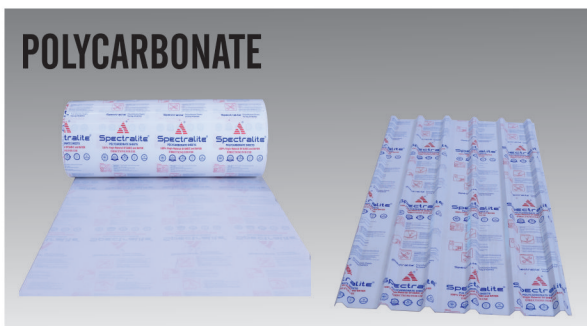
AIR BUBBLE



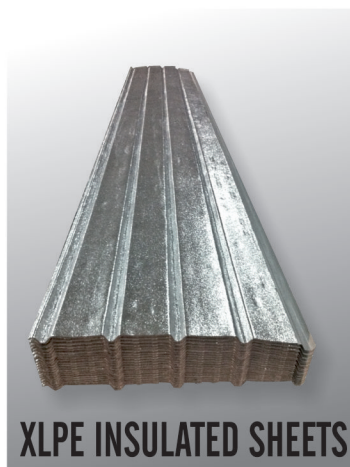
EPE INSUFOAM



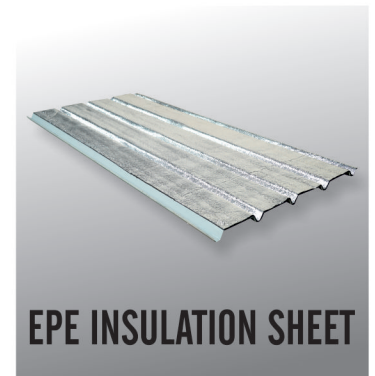
XLPE INSUFOAM



POLYCARBONATE



XLPE INSULATED SHEETS



EPE INSULATION SHEET

# EPE INSUFOAM

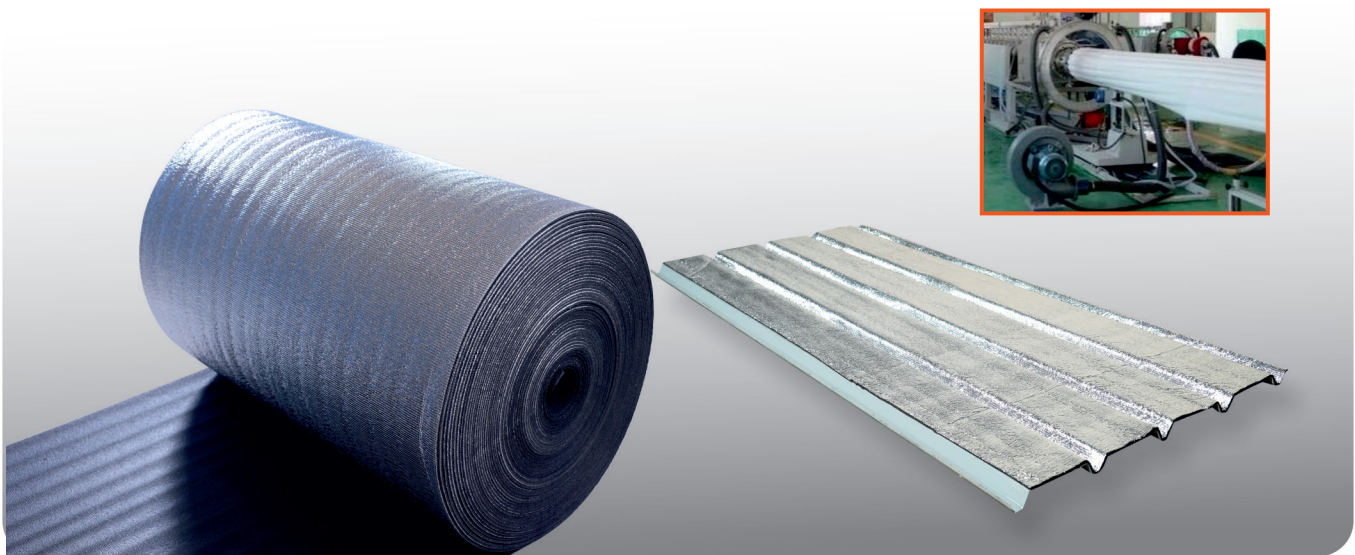


## EXPANDED POLYETHYLENE (EPE):

EPE INSUFOAM IS A CLOSED CELL. EXTRUDED, NON - CROSSLINKED POLYETHYLENE FOAM. AVAILABLE WITH METALIZED OR ALUMINIUM FOIL.

### KEY FEATURES :

- » Keep Room Temperature Down upto 5° To 7° C.
- » Reduce Sound & Noise Reduction of Heavy Rain.
- » Eco-Friendly.
- » Easy to Install & Long Working Life.
- » Energy & Cost Saving.
- » Most Safety For All Users At All Ages: PE Insulation is Made from the Same Material as Used in Food Industry.
- » Fire Retardant Grade Can Be Produced at Request.



NO.	CHARACTERISTIC	TEST RESULT	METHOD
1	DENSITY	20 60 KG/M3	ISO 845 1988 (E)
2	REFLECTIVITY ALU FOIL	0.97	ASTM E408
3	EMMISSIVITY ALU FOIL	0.03	ASTM C1371
4	UV RESISTANCE	EXCELLENT	----
5	CHEMICAL RESISTANCE	EXCELLENT WITH AL FOIL	ASTM D543/BS 4618
6	TEMPERATURE RANGE	80 C TO + 90 C	----
7	FLEXIBILITY	EXCELLENT	BS4433
8	HEAT RESISTANCE	3.0 M2 C/W	ASTM C177
9	THERMAL CONDUCTIVITY	0.020 KCAL/M2 HR C	ASTM C177
10	WORKING LIFE	12 TO 15 YEAR	----
11	FLAMMABILITY	HF1	UL94



# XLPE INSUFOAM

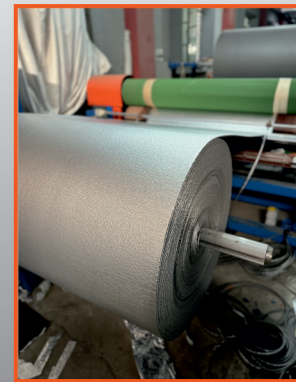
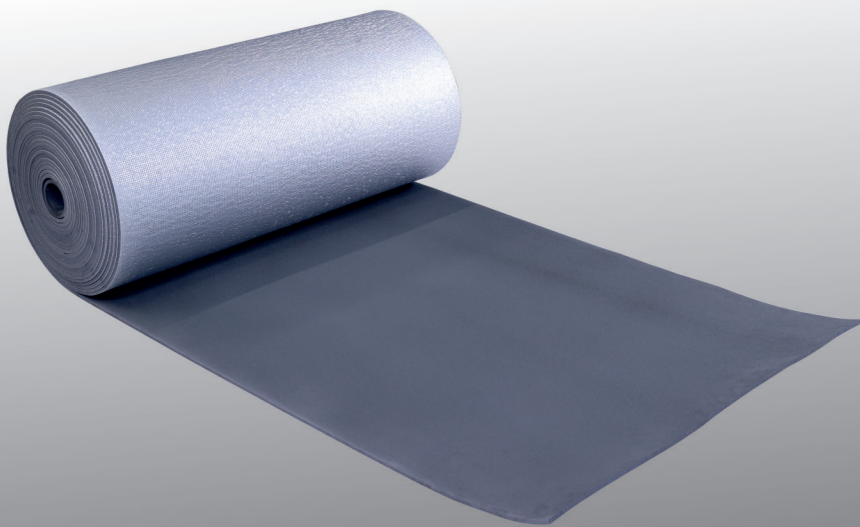


## CHEMICALLY CROSSLINKED POLYETHYLENE (XLPE) :

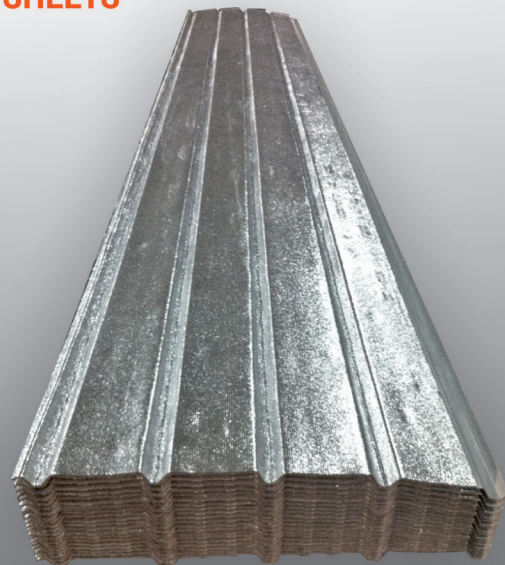
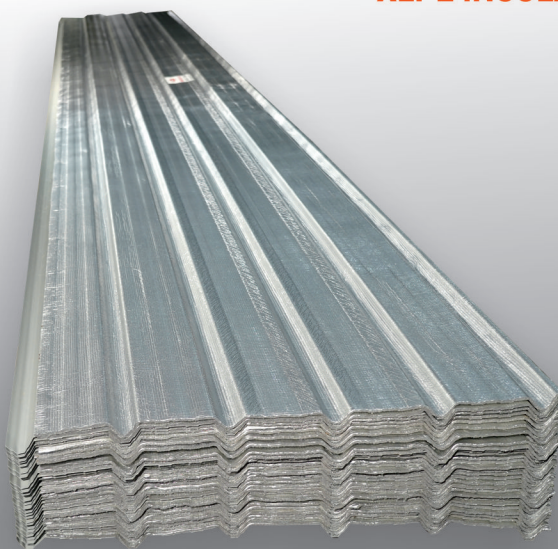
"THERMALON" XLPE foam (Chemically Crosslinked PE Foam) sheet has fine cell, Smooth surface & closed cell with our own technology. It has closed cell, smooth skin & is light, Flexible & resistant to moisture. It has superb heat & cold resistant -90°C to + 105°C it has the wide range of Density thickness & color.

## APPLICATION :

Insulation are used Steel Sheet in Roofing, Cladding, Construction Dusted Sound Proofing Material , Automobile, Spinning Industries, Multiplex Theater, Residential Quarter, Mall Etc...  
Insulation Material is Laminated with Aluminum Foil or Metalized Foil.



## XLPE INSULATED SHEETS





# TECHNICAL DATA

CROSSLINKED, CLOSED CELL STRUCTURE THERMALON  
FR XLPE FIRE RETARDANT INSULATION.



	CHARACTERISTICS	TEST STANDARDS	RESULTS (ROLLS & PIPE)
01	Density (KG/M3)	JIS K 6767	30 (Standard 30 TO 33)
02	Colour	----	Light Grey / in Various Customized Colours
03	Services Temperature Range °C	Using Climate Chamber	-40 to -115 °C
04	Ozone / UV & Weather	----	Good / Excellent
05	Thermal Conductivity at 0 / 23 /40 (W/MK)	IS 3346/1980	0.032 / 0.034 /0.035
06	Fire Retardant Test (a) Flammability Class (b) Smoke Density Class (c) Dropping Class	DIN-5510 (PT-2), 54837	Self Extinguishing S4 Passed SR2 Passed ST2 Non Dripping
07	Flammability	DIN4102(PART-1)	Class B1
08	Horizontal Flammability Test For 94 HBF Classification	UL – 94	Passed
09	Horizontal Flammability Test For Acoustic Material	IS 15061-02-99	Passed
10	Smoke Density Test	ASTM D 2843	Passed
11	Toxicity Index	NCD 1409	Within Prescribed Limit
12	Heavy Metals For ROHS (pollution)	Directive 2002/95/EC	Passed
13	Thermal Stability	BS 2972/1989	No Visible Signs of Cracks and Distortion
14	Surface Spread of Flame	BS 476 PART 7	CLASS – 1
15	Fire Propagation Index	BS 476 PART 6	CLASS – 0
16	Oxygen Index %	ASTM D 2863	27.7
17	Fungal Resistance Test	ASTM G-21	Zero Rating (No Growth Observed)
18	Bacteria Resistance Test	ASTM G-22	No Bacteria Growth Observed
19	Mold Growth	IS 3144: 1992	No Mold Growth Observed
20	Ageing	ASTM C 177	No Practical Effect of Ageing Observed
21	Overall Migration Test	IS 9845 – 1998	Negligible Effect of Acids and Alkalis
22	Tackiness (N) 90° Peeling Adhesion Strength (G/MM2)	ISO 36 (2005)	7.78
23	Compression Set% 22HR., 25%, 23°C After 0.5 HRS / 24 HRS	ISO 1856	0.5HRS. < 16 24HRS. < 8
24	Tear Strength (KG/CM2) Machine / Cross Direction	JIS K 6767	MD -1.6 CD-1.4
25	Compression Stress-Strain Test (KPA) 10% / 25% / 50% Compression	ISO 1856	10% - 22 25%-43 50%-115

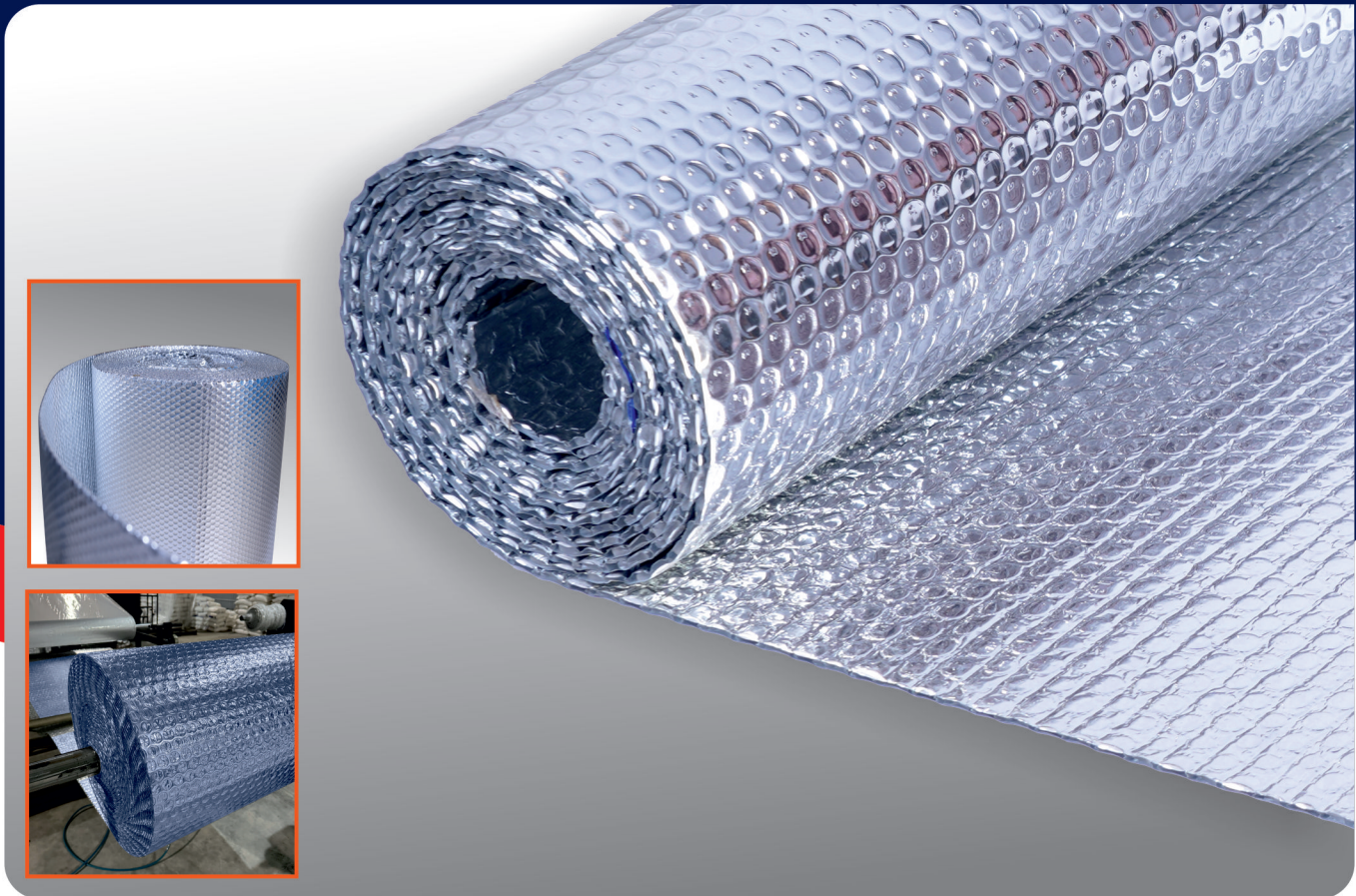
The Above Results are Obtained Under Typical Conditions. The Recipient of This Information Should Clarify From us Whether The Data Apply to The Related Area of Application or Not.

# AIR BUBBLE

## AIR BUBBLE REFLECTOR:

Thermalon Air Bubble Is Reliable & Experienced Manufacturers With A Good Repute in The Market. We Produce One of The Finest & Efficient Product Range of Air Bubble.

Our Wide Range of Air Bubble Provide Effective & Efficient Solution to the Problem.



## TECHNICAL SPECIFICATION OF AIR BUBBLE INSULATION

	PROPERTIES	TECHNICAL SPECIFICATION
01	R-value	2.95-3.70 M2 0K/W
02	Thickness	4MM. – 20MM
03	Emissivity	3%
04	Reflectivity	97%
05	Operating Temperature	-7° TO 60°C
06	Water Vapour Transmission	Negligible
07	Security	No Cracking, Fire Retardant
08	Temperature Difference	60C TO 80C° (Depending on all Parameters)
09	Operation	Non – Toxic, Non Corrosive
10	Specialisation	Available in Single Layer, Double Layer & Three Layer Bubble



# TECHNICAL DATA OF CONTACT ADHESIVES



## PRODUCT DETAILS:

- » **PRODUCT NAME** :- Contact Adhesive
- » **PRODUCT CODE** :- SR - 408
- » **PURPOSE OF USE**:- SR - 408 Specially Used for Pasting on Metal Sheet & Duckting.

## PHYSICAL & CHEMICAL PROPERTIES:

01 Physical	Slightly Yellowish
02 Viscosity	500 – 600 CPS @ 27°C Brookfield RVT, Speed 10, Spindle #2
03 Solid Content	16 – 17%
04 Boiling Point °C	80 – 100
05 Flash Point °C	0
06 Flammability (%Volume in Air)	1.20 - 7.00
07 Explosive & Oxidising Properties	Stable Under Normal Conditions
08 Relative Density (H2O , V/V)	0.910 – 0.930
09 Evaporation Rate	>2.4 Times Faster Than N-buthyl Acetate.
10 Drying Time	5 – 45 Min (Depends on Pasting Method)
11 Bond Strength	16 to 24 Hours.

## KEY FEATURES:

Long Bonding Range & Excellent Initial Strength Up to 100°C

## AVAILABLE PACKING:

» 210 Litres & 25 Litres



# INSULATION PASTING ACCESSORIES



Adhesive Tank



Air Compressor



Spray Gun

# INSULATION PROCESS

Spraying on Foam



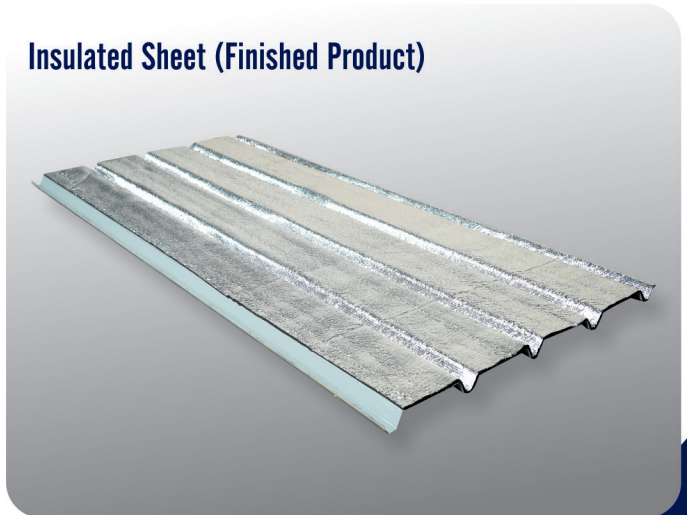
Spraying on Metal Sheet



Pasting on Sheet



Insulated Sheet (Finished Product)





# INSULATION PASTING MACHINE FOR ROOFING SHEET



		SPECIFICATION
01	Power Supply	3 PHASE 380V, 50HZ
02	Electric Power	1.5KW for Feeding, Driven by Inverter, 0.5 KW for Dryer Fan, 4.0 KW for Heating.
03	Rolling Speed	4 TO 5 Mtr. / Min.
04	Weight	2 Ton
05	Dimension	4.5 Mtr. X 2.0 Mtr. X 2.5 Mtr. (Customised Length also Available)
06	Control System	Automatic by Electric Relay System
07	Rolling Transmission	3HP Gear Motor, Driven by 3HP Inverter
08	Temperature of Sticking Control System	Automatic Temperature Control System
09	Manual Uncoiler for PE Coils	Included Put on Machine
10	Heater	U Band 18000W, 380V,
11	Blower	1HP, 1440 or 2880 RPM
12	Roller	Nilon Polyamide as per Profile Drawing



## ROOF SHEET CRIMP CURVING MACHINE

Roof Sheet Crimp Curving Machine is Able to Turn Vertically Automatically. Pressing System is Designed Meticulously to Create Steps Which are High Tensile and Have Intact Paint.



## INTRODUCTION:

Spectralite Polycarbonate Sheet Possesses The Transparency of Glass at Less Than Half The Weight, Combined with Unmatched Strength. The Sheet Can Be Cold Bend, Fabricated and Making It Ideal For Applications Such as Roofing, Roof Sky Lights, Architectural Roofing and Glazing.

## SPECIFICATIONS:

- » **THICKNESS:** 1mm - 3mm as per requirement.
- » **WIDTH:** Up to 2.1 Meter as per requirement
- » **LENGTH:** 30.50 Meter & as per Requirement.
- » **COLOR:** Clear, Bronze, Green, Blue & Opal White.
- » **FINISH:** Normal Embossing, Diamond Embossing & Compact.

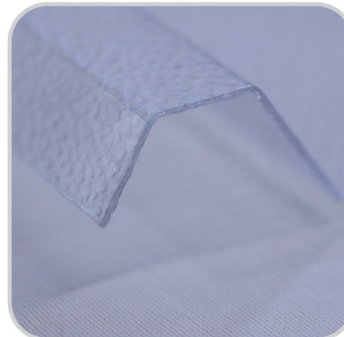
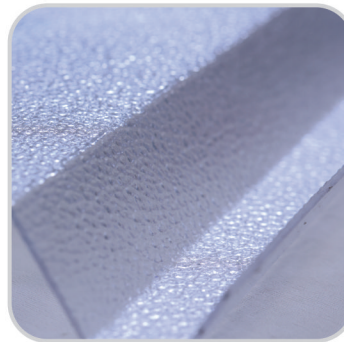
## KEY FEATURES:

- » High Impact Resistance
- » Virtually Unbreakable
- » High Clarity and Light Transmission
- » Weather & UV Resistant
- » Protects Against Harmful UV Radiation
- » Light Weight
- » Easy to Handle and Install

## APPLICATIONS:

- » Skylights Domes
- » Industrial Roofing
- » Green Houses
- » Natural Lighting for Operational Area in Airports, Ports, Complexes etc.
- » Transparent Protective Shields for Police and Security Forces
- » Glazing of Windows

## POLYCARBONATE SHEETS



## POLYCARBONATE ROLLS





# ESTEEMED CUSTOMER



AND MANY MORE....

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## WE SUPPORT



## GET IN TOUCH

# THERMALON METAL ROOF PVT. LTD.

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+91 - 84691 33888



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www.arjunroof.com



SCAN FOR LOCATION



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Tal: Kotda Sangani, Dist : Rajkot -360024 (Gujarat), INDIA.

### VAPI BRANCH :



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+91 - 99253 00086



17 - D , Daman Ganga Industrial Park,  
Karvad Road, Vapi (Gujarat), INDIA.