

INSTALLATION GUIDELINES

| INSTALLATION METHOD FOR NEW ROOF

AEROLAM Installation over purlins simultaneously with metal roofing

Unroll the AEROLAM roll on the perpendicular to the purlins along the slope from eave to the ridge. This is done to ensure the simultaneous fitting with the roofing sheet, as roofing sheets are generally designed to be laid perpendicular to the purlins.

AEROLAM must be installed from bottom to top i.e. eave to ridge. This is to ensure that in case there is a joint along the slope, a shingle effect may be created in the metal sheet.

Align it properly against the left end keeping the 100 mm overlap of the AEROLAM hanging beyond the left most rafters.

Fix AEROLAM to the purlins, eave and the ridge end, using self-tapping screw at 3 places equi-distant, leaving 100 mm overlap along the length on both sides.

Place; align the 2nd roll of AEROLAM parallel to the first roll. The overlaps of the adjacent rolls should be pulled up.

Seal the adjoining overlaps by means of staplers in 2 steps – First hold and fold the upper 1 inch on one side and staple it and then re-fold it till the bottom in the same direction and staple it again at every 150 mm.

Use Aluminium foil tape to seal the joints completely.

After AEROLAM is fixed over the purlins the metal sheet is placed over AEROLAM and drilled with self tapping screws with purlins

Repeat all the steps till the other end of the roof.

NOTE

It is advisable to tighten Aerolam material with all purling with GI wire to avoid sagging during Roof Sheet Installation. Use staple method and sealed joint with Aluminium foil tape.

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INSTALLATION METHOD FOR EXISTING ROOF

Guidelines for Installation of AEROLAM under an already installed metal roofing structure

- Take the roll of AEROLAM, anchor it to the purlins at eave and ridge, at 3 equidistant points, using self drilling self tapping screws. Keep repeating the same thing with every purling.
- Anchor the second roll of AEROLAM same way as first roll, parallel to first one, keeping 50 mm overlap of first roll on top of 50 mm overlap of second roll.
- Use fevicol SR-505 to seal the joint. Make sure joint are straight.
- Keep pressing it properly to have a proper joint, end to end.

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AEROLAM MATERIAL RECEIPT, UNLOADING & STORAGE GUIDELINES

- In case of customer pickup of material from our factory, please share vehicle number, driver's name & contact detail in advance before vehicle reach to our factory.
- Customer shall carry out physical verification of goods and tally it with Delivery Challan/Invoice prior to unloading. In case of discrepancies it should be brought to Aerolam notice in writing with evidence.
- In case of arrival of damaged roll in vehicle it should not be unloaded and customer shall immediately contact Aerolam with photographs. Complaint should be raised before driver leaves from the site.
- Unloading of material is in customer's scope.
- For entire duration of unloading to storage place material shall be carried on hand or trolley and should not be thrown or drag on ground. Also hooks shall not be used for unloading. Aerolam is not responsible for damages arising from rough handling during unloading and storage.
- Insulation rolls shall be protected from pointed objects & sharp edges all the time.
- Material (rolls) shall be unloaded at clean and dry place. It should always be covered and protected from water & moisture.
- Our product is factory laminated with pure Aluminum Foil. When aluminum come in contact with moisture oxidation takes place which gives rise to black patch/black spot on foil. Aerolam is not responsible for damages arising from moisture due to improper storage & Handling.

AEROLAM MATERIAL RECEIPT, UNLOADING & STORAGE GUIDELINES

- Special care should be taken in rainy season, if dry surface is not available at site, wooden pallets/log shall be used to keep at least 4 inches of gap between rolls and floor. First lay one sheet of tarpaulin on it than store material and then cover all rolls with one more sheet.
- Putting other material or heavy objects on top of insulation rolls is not allowed. Men working on site should not sleep on it.
- Without requirement rolls should not be open out of its packing. Always store rolls with its packing on.
- While applying the material at the time of roof/wall cladding insulation roll shall not be drag upon pointed object which can scratch, puncture or tear it. Good workmanship as well as careful handling at the time of application is advised.
- Once material is sold will not be taken back.

NOTE

These guidelines are for customer awareness to avoid losses resulting from mishandling and improper care of the goods.

TECHNICAL SPECIFICATION

AEROLAM SUPER

PROPERTY	TEST VALUE
R – value	1.17 m2 .k/w
Emittance (ASTM C1371)	0.032
Water Vapour Transmission (ASTM E96) (perm)	0.00 (before C1258)
Elevated Temperature & Humidity (ASTM C1258)	Pass
Water Vapour Transmission (ASTM E96) (perm)	0.00 (after C1258)
Bleeding & Delamination (ASTM C1224)	Pass
Pliability (ASTM C1224)	Pass
Fungi Resistance (ASTM C1338)	Pass
Surface Burning Characteristics (ASTM E84)	
• Flame Spread Index	5 (Class A)
• Smoke Developed Index	50 (Class A)
Nominal Product Thickness	4 mm
Bubble Size	10 mm X 4 mm
Foil Thickness	12 Micron
Colour	Silver
Quantity / Roll (Sq. Meter)	50
Dimension of Roll	1.25 m W X 40 m L

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TECHNICAL SPECIFICATION

AEROLAM 6MM



PROPERTY	TEST VALUE
R – value	1.20 m2 .k/w
Emittance (ASTM C1371)	0.031
Water Vapour Transmission (ASTM E96) (perm)	0.00 (before C1258)
Elevated Temperature & Humidity (ASTM C1258)	Pass
Water Vapour Transmission (ASTM E96) (perm)	0.00 (after C1258)
Bleeding & Delamination (ASTM C1224)	Pass
Pliability (ASTM C1224)	Pass
Fungi Resistance (ASTM C1338)	Pass
Surface Burning Characteristics (ASTM E84)	
• Flame Spread Index	5 (Class A)
• Smoke Developed Index	50 (Class A)
Nominal Product Thickness	6 mm (+/-1.0 mm)
Bubble Size	20 mm X 6 mm
Foil Thickness	12 Micron
Colour	Silver
Quantity / Roll (Sq. Meter)	50
Dimension of Roll	1.25 m W X 40 m L

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TECHNICAL SPECIFICATION

| AEROLAM ULTRA



PROPERTY	TEST VALUE
R – value	3.45 m2 .k/w
Thermal Conductivity, W/mk	0.29
Water Vapour Transmission (ASTM E96) (perm)	0.00 (before C1258)
Elevated Temperature & Humidity (ASTM C1258)	Pass
Water Vapour Transmission (ASTM E96) (perm)	170
Elongation at Break% (ASTM D3575)	0.33
Tensile Strength, MPa (ASTM D3575)	Pass
Corrosion Resistance (ASTM D3310)	Pass
Bleeding and Delamination (ASTM C1224)	Pass
Pliability (ASTM C1224)	Pass
Fungi Resistance (ASTM C1338)	15 mm
Nominal Product Thickness	Pure Aluminium Foil +
Product Description	FR Air Bubble Film + XLPE +FR Air Bubble Film + Pure Aluminium Foil
Bubble Size	10 mm X 4 mm
Colour	Silver
Quantity / Roll (Sq. Meter)	37.5
Dimension of Roll	1.25 m W X 30 m L

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TECHNICAL SPECIFICATION

AEROLAM PREMIUM

PROPERTY	TEST VALUE
R – value	1.27 m2 .k/w
Emittance (ASTM C1371)	0.057
Water Vapour Transmission (ASTM E96) (perm)	0.00 (before C1258)
Elevated Temperature & Humidity (ASTM C1258)	Pass
Water Vapour Transmission (ASTM E96) (perm)	0.00 (after C1258)
Bleeding & Delamination (ASTM C1224)	Pass
Pliability (ASTM C1224)	Pass
Fungi Resistance (ASTM C1338)	Pass
Surface Burning Characteristics (ASTM E84)	
• Flame Spread Index	0* (Class A)
• Smoke Developed Index	30* (Class A)
Tensile Strength at Peak (gf/cm) (ASTM D882)	MD 4347 TD 3822
Elongation at Peak (%) (ASTM D882)	MD 8 TD 9
Tear Resistance (N/mm) (ASTM D1004)	MD 6.4 TD 5.6
Puncture Resistance (N) (ASTM E154)	74
Nominal Product Thickness	8 MM
Product Description	Pure Aluminium Foil + FR Air Bubble + FR Air Bubble + Pure Aluminium Foil
Bubble Size	10 mm X 4 mm
Foil Thickness	12 Micron
Colour	Silver
Quantity / Roll (Sq. Meter)	50
Dimension of Roll	1.25 m W X 40 m L

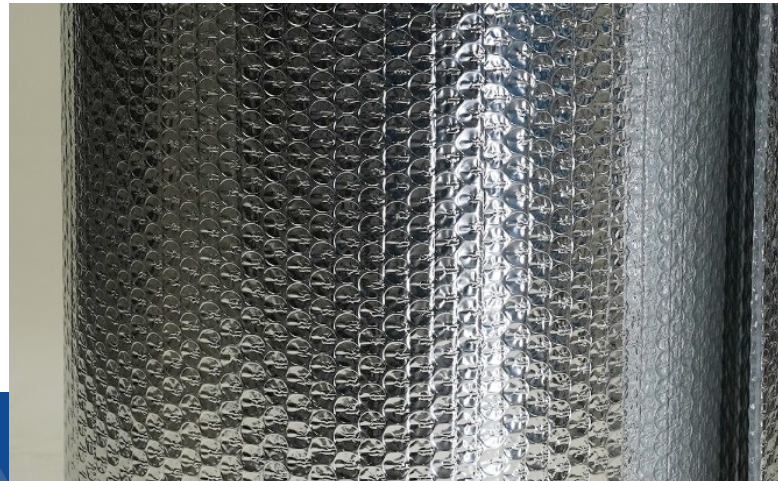
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TECHNICAL SPECIFICATION

AEROLAM OPTIMUM



PROPERTY	TEST VALUE
R – value	1.87 m2 .k/w
Emittance (ASTM C1371)	0.032
Water Vapour Transmission (ASTM E96) (perm)	0.00 (before C1258)
Elongation at Break% (ASTM D3575-14)	153
Tensile Strength, MPa (ASTM D3575-14)	0.2
Corrosion Resistance (astm D3310)	No Corrosion Observed
Bleeding & Delamination (ASTM C1224)	Pass
Pliability (ASTM C1224)	Pass
Fungi Resistance (ASTM C1338)	Pass
Nominal Product Thickness	20 mm
Bubble Size	10 mm X 30 mm
Colour	Silver
Quantity / Roll (Sq. Meter)	37.5
Dimension of Roll	1.25 m W X 30 m L

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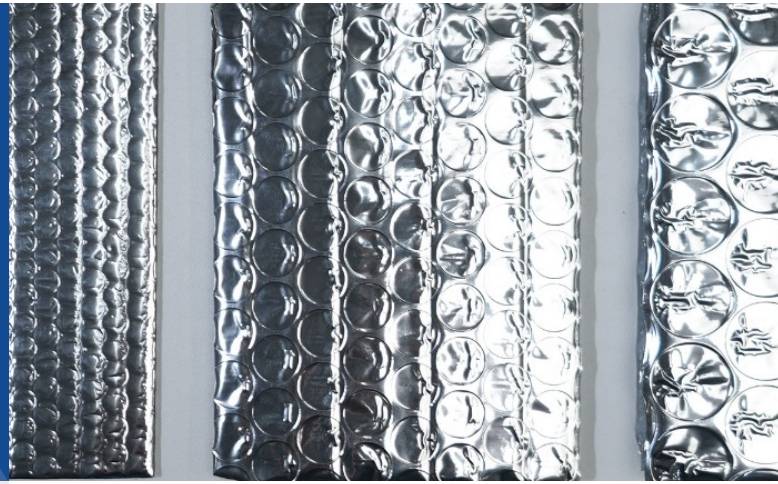
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TECHNICAL SPECIFICATION

| AEROLAM ADVANCE



PROPERTY	TEST VALUE
Emittance (ASTM C1371)	0.32
Thermal Integrity (ASTM D1263)	Pass
Water Vapour Transmission (ASTM E96) (perm)	0.1244
Elevated Temperature & Humidity (ASTM C1258)	Pass
Elongation at Break% (ASTM D3575)	161
Tensile Strength, MPa, Elongation at Break% (ASTM D3575)	0.43
Corrosion Resistance (ASTM D3310)	Pass
Bleeding and Delamination (ASTM C1224)	Pass
Pliability (ASTM C1224)	Pass
Buesting Strength (ASTM D774)	More than 0.8
Fungi Resistance (ASTM C1338)	Pass
Nominal Product Thickness	10 mm
Bubble Size	10 mm X 30 mm
Colour	Silver
Quantity / Roll (Sq. Meter)	50
Dimension of Roll	1.25 m W X 30 m L
Temperature Range	-52 ~C to +100 Deg C
Foil Thickness	12 Micron

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TECHNICAL SPECIFICATION

AEROLAM 12MM DOUBLE LAYER

PROPERTY	TEST VALUE
R – value	2.70 m ² .k/w
Product Thickness	0.032
Bubble Size: 20 MM X 6 MM (Double Layer)	20 MM X 6 MM (Double Layer)
Reflectivity	More than 97%
Color	Silver
Quantity / Roll	50 Square Meters
Dimension of Roll	1.25 m X 40m (W X L)
Product Description	Pure Aluminum Foil + FR Air Bubble Film + FR Air Bubble Film + Pure Aluminum Foil

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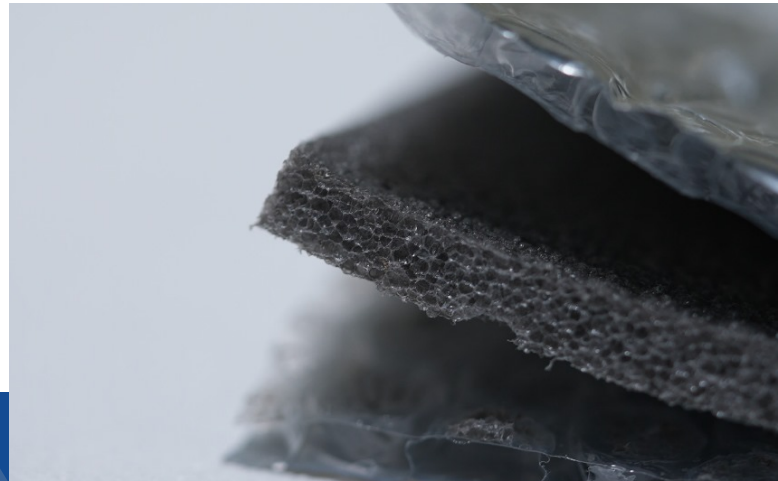
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TECHNICAL SPECIFICATION

AEROLAM 12MM TRIPLE LAYER



PROPERTY	TEST VALUE
Product Thickness	12MM
R Value	2.70
Emittance	0.057
Fire	Class a
Bubble Size	20 MM X 6 MM (Triple Layer)
Reflectivity	More than 97%
Color	Silver
Quantity / Roll	50 Square Meters
Dimension of Roll	1.25 m X 40m (W X L)
Product Description	Pure Aluminum Foil + FR Air Bubble Film + FR Air Bubble Film + FR Air Bubble Film + Pure Aluminum Foil

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