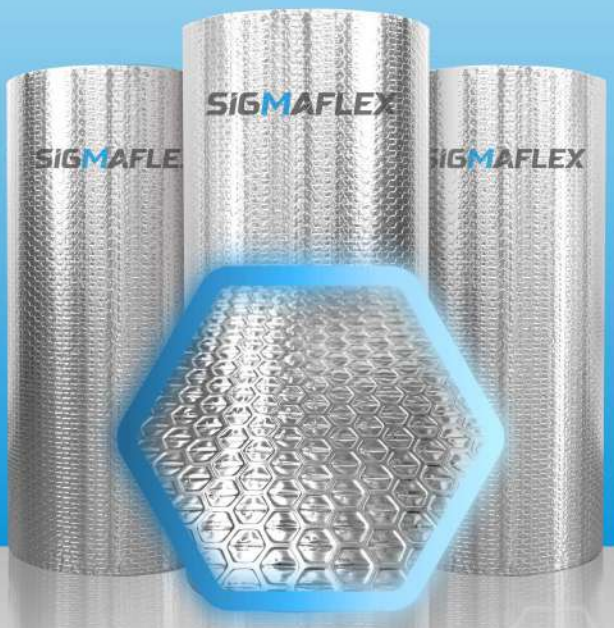
SIGMAFLEX

ROOF INSULATION

Advanced Reflective Aluminium Foil Radiant Heat Barrier



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ROOF INSULATION

SIGMAFLEX

Global warming
is causing a significant rise
of temperature in our environment.

In order to cope with the current condition,
the commonly used system is
no longer sufficient.

It requires more features and capabilities.

Introducing our advanced technology,

the SEGINAM

THE PATENTED
WORLD 1ST INNOVATION

for highly enhanced aluminium foil radiant
heat barrier

P	R	I	M	E
Patented Pattern	Resilient	Increased Air Pack up to 11%	More durable under pressure	Elegant look, not wrinkled easily

SIGMAFLEX SEGINAM

A PRIME

solution for your building's needs

Using our patented systems & technicians with over 14 years of experience, **SIGMAFLEX** corp. Provides the best SOLUTIONS on a demanding market & guarantees a high tech.end product.

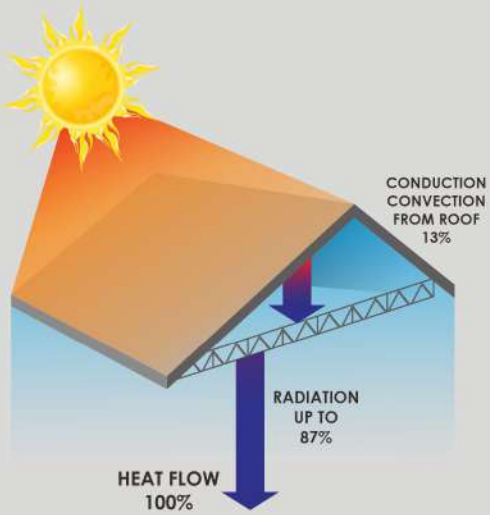
SIGMAFLEX insulation is a leading brand in the field of Reflective Aluminium Foil Radiant Heat Barrier for Roof Insulation and Vapour Barrier for Air Conditioning Duct Insulation.

87% of the heat flows downward from the roof by IR radiation (radiant heat). IR is the transmission of electromagnetic rays through space and is invisible, just like radio waves. The sun radiates IR rays in all directions in a straight line until they are reflected or absorbed by another object. The IR rays are invisible, travelling at the speed of light in the form of energy. Radiant heat barrier will reflect most of this heat back to the environment.

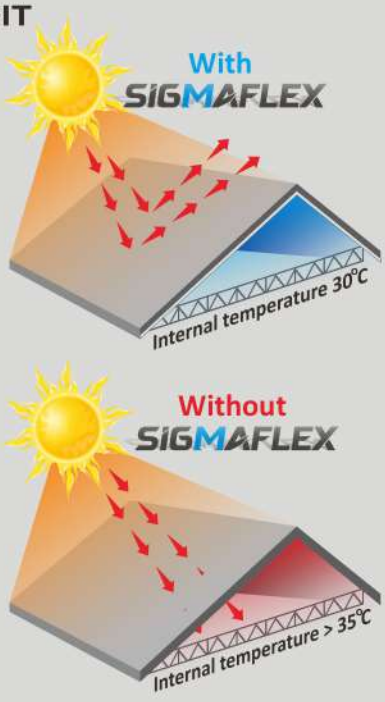
Convection will release some of the heat back by air movement in the air gap. When IR rays strikes an object, the rays are absorbed and the heat is generated inside the object.

This absorbed heat spreads throughout the mass of the object by conduction and by convection. The heat absorbed and transferred this way is amounted to 13% of the initial heat.

When SIGMAFLEX foil is installed, theinternal temperature is close to or at ambient temperature. However, no Radiant Heat Barrier can reduce internal temperature to be below ambient temperature. It requires Air Con to get down to below 30C. However with the foil installed, it could reduce the electrical load by the air conditioning by 25%, saving more for the long run.



BENEFIT



Building without Radiant Heat Barrier, the internal temperature will be >35°C while the roof temperature can be as high as 39°C more.

THE **ENERGY**
COST SAVINGS YOU'LL GET FROM SIGMAFLEX WILL MAKE THE PURCHASE
PAY FOR **ITSELF**

SIGMAFLEX

GOOD AS
A **MOISTURE BARRIER**
AND **STOP VAPORS**

MULTIFUNCTION | **SAFE TO HANDLE** | **EASY TO INSTALL** | **DURABLE** | **NEAT & CLEAN** | **ANTI INSECTS & FUNGI RESISTANCE** | **FLEXIBLE** | **WATERPROOF & NON - ABSORBENT**

THICKNESS	ROLL DIMENSION	REFLECTIVITY	BUBBLE DIAMETER	TENSILE STRENGTH	ELONGATION	WATER VAPOOR TRANSMISSION RATE	FIRE RATING
4 mm - 8 mm	1.2 x 30 m 1.2 x 40 m	96% - 97%	10 - 20 mm	Passed (ASTM D828)	Passed (ASTM 3759)	0.005 g/sq.meter/day (ASTM E96)	Passed (ASTM E84)

ISO 9001:2015

ISO 9001 BUREAU VERITAS Certification

UKAS QUALITY MANAGEMENT 008

BPPT

SUCOFINDO

INSTITUT TEKNOLOGI BANDUNG 1959

Certifications

Our working systems, accreditation and commitment to provide the best quality gives our clients complete assurance and trust in our company as long-term partner. All products of SIGMAFLEX carry globally acknowledged quality assurance. Providing you with worry-free guarantee of product safety and quality.

Our products have genuinie certification, approved by global standard quality control certfication bodies. Please make sure that the certification authenticity of every product you buy can be accounted for.

BEST SOLUTION

FOR COOLER PLACE AND BETTER ENVIRONMENT

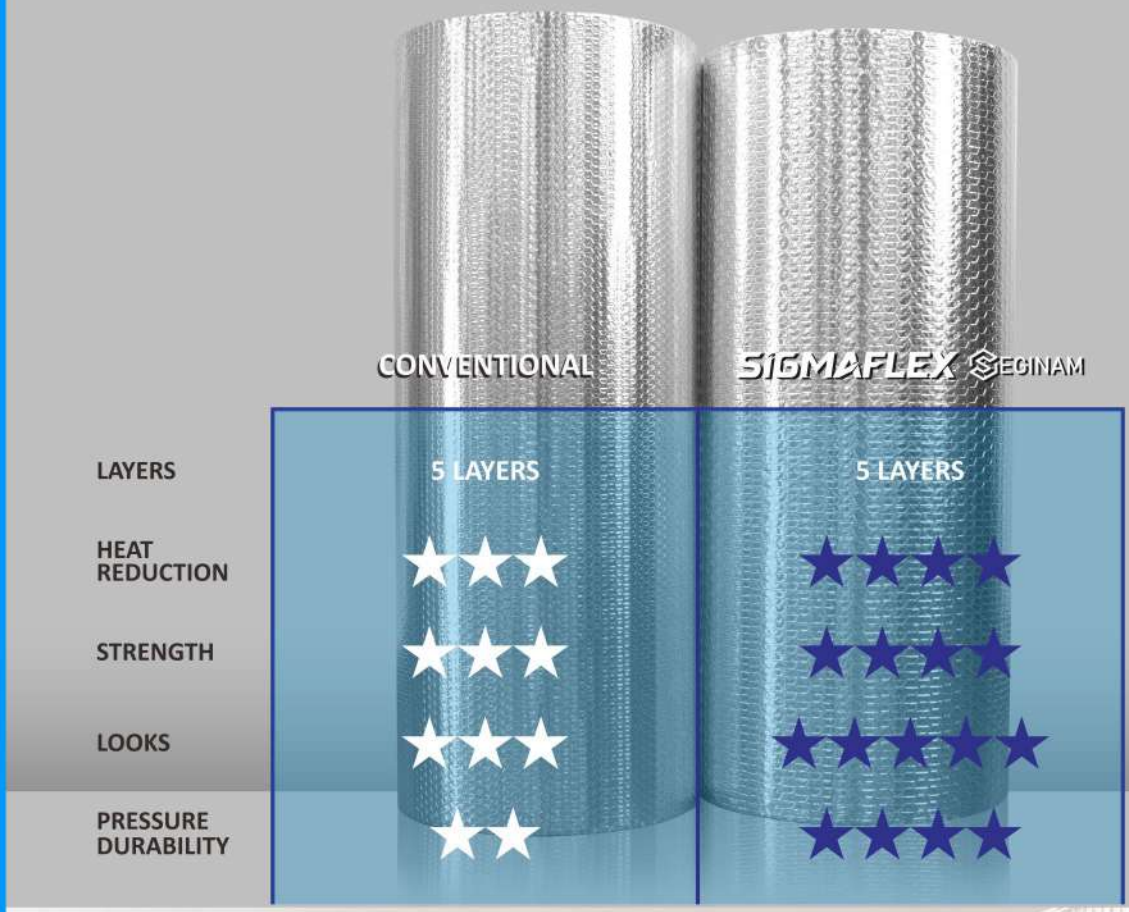
For more than 14 years **SIGMAFLEX** has been engaging in the production of top-level equipment, presenting state-of -the art technology applied to air bubble pack with special aluminium foil lamination for radiant heat barrier sheet production lines.

All of these have been possible and achieved due to the company's constant commitment to be more innovative, better performing, focus to customer's satisfaction, increasing product's values and benefits. To always offers solutions to customer's needs.

SIGMAFLEX's knowledge is based on the in house Research and Development division and willingness to listen to recommendations and suggestions provided by our customers, who have been helping us to enhance the quality, making them suitable for reach project's specific necessity and technical requirements.

Completely focused on this innovative and specific line of production. **SIGMAFLEX** Corp. strives to take the best course of actions in response of market feedback and requirements, continuously updating the products to better fulfill the customer's needs and increasing the product's values for better satisfaction.

Each of our line components are perfectly synchronized and work with high precision, resulting in completely integrated production line of **SIGMAFLEX** radiant heat barrier sheet.



PROJECT REFERENCES

BERNARDI · POKPHAND · CJ · JAPFA · WONOKOYO GROUP · BOMAR the shrimp specialist

FABER-CASTELL · FB FURUKAWA BATTERY · YUASA · AQUA · forisa · INDRACO · LNK · White Koffie · POCARI SWEAT

STARBUCKS COFFEE · BIZPOINT · PT FREEPORT INDONESIA · LOCK&LOCK · JOTUN · PROPAN · FUJITSU · NIPPON STEEL & SUMITOMO METAL

SANYO · SHARP · AJINOMOTO · ENESIS · Garudafood · Indofood · Johnson&Johnson · KAO · KHONG GUAN

Nestlé · serena · sinarmas · SONTON · WINGS · KFC · SARI ROTI · PT Tempo Scan Pacific Tbk

Amari · CORDELA · DHL · DENSO · DOOWON · PRESS KOGYO SWEDEN · BAYER · B BRAUN · BERNOFARM

ENSEVAL · KALBE · ROHTO · AHM PT. Astra Honda Motor · AUTO 2000 · BLUE BIRD · DAIHATSU · MITSUBISHI · ISUZU · BMW

Kawasaki · LEXUS · Lion Air · Mercedes-Benz · TOYOTA · NISSAN · FAJAR LESTARI NUSANTARA · IndoCeria · Panverta · Tetra Pak

PT. SatyamitraKemas · SUPERNOVA FLEXIBLE PACKAGING · UnitedCan · lontar papyrus · tjiwikimia · the univenus

BINUS UNIVERSITY · Makna School · Alfamart · Giant · Indomaret · LOTTE Mart · YOGYA

MURNI TEGUH · BRIDGESTONE · PT. Suryaraya Rubberindo Industries Manufacturer of Motorcycle Tires & Tubes · New Era

Aweco · JWP · I.S.T.W. · Metal One · YAMADA INDUSTRY CO.,LTD. · ASTRIDO · KEWALRAM Chearai Group · AND MANY MORE

TECHNICAL SPECIFICATION

Description	Result
Layer description	: Alu - HEXAGON PACK - Alu
Nominal thickness al.foil	: 4 mm
Hexagon pack size	: 12 mm
Weight (real weight)	: 360 gr/m^2
Emmisivity	: 0.03 - 0.04
Reflectivity	: 96% - 97%
Sound reduction	: 11 dB
Evaluation of fungi & bacteria growth	: No growth
Salt humidity test	: No corrosion
Bleeding & delamination	: Passed
Pliability	: Passed
Ignitability	: No

Airpack content up to 11% from normal bubble

STANDARD/TEST METHOD :

ASTM C1371, **ASTM** F1252, **ASTM** E96, **ASTM** C1338, **ASTM** C1224, **ASTM** D882, **ASTM** D1938, **ASTM** C1258-08, **ASTM** C518-10, **UL** 723/E84, **SNI** 03-6771-2002

TECHNICAL SPECIFICATION

Description	Result
Layer description	: Alu - BIG HEXAGON PACK - Alu
Nominal thickness al.foil	: 8 mm
Hexagon pack size	: 25 mm
Weight (real weight)	: 440 gr/m^2
Emmisivity	: 0.03 - 0.04
Reflectivity	: 96% - 97%
Sound reduction	: 20 dB
Evaluation of fungi & bacteria growth	: No growth
Salt humidity test	: No corrosion
Bleeding & delamination	: Passed
Pliability	: Passed
Ignitability	: No

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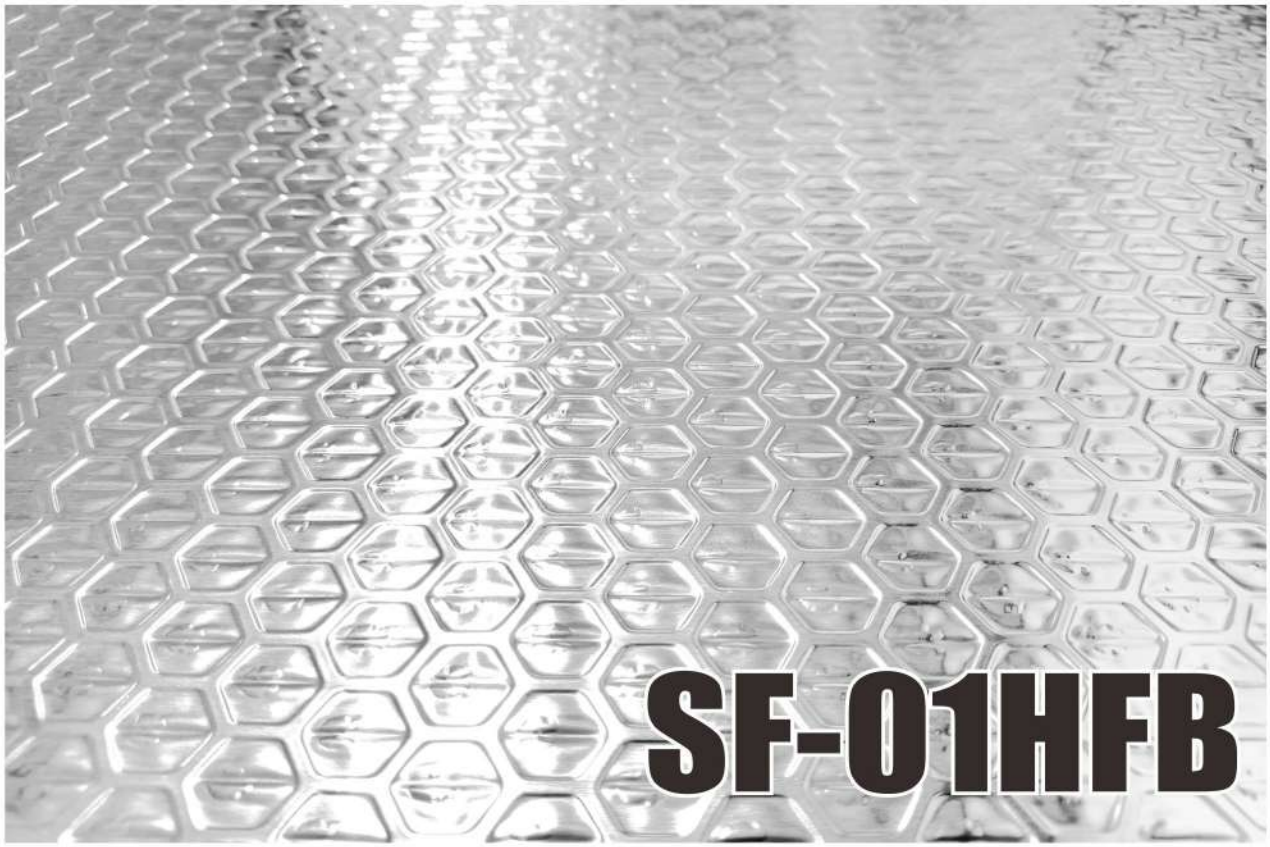

TECHNICAL SPECIFICATION

Description	Result
Layer description	: Alu - FR HEXAGON PACK - Alu
Nominal thickness al.foil	: 4 mm
Hexagon pack size	: 12 mm
Weight (real weight)	: 360 gr/m^2
Emmisivity	: 0.03 - 0.04
Reflectivity	: 96% - 97%
Sound reduction	: 11 dB
Evaluation of fungi & bacteria growth	: No growth
Salt humidity test	: No corrosion
Bleeding & delamination	: Passed
Pliability	: Passed
Surface flame spread	: Class A
Ignitability	: No

Airpack content up to 11% from normal bubble

STANDARD/TEST METHOD :

ASTM C1371, **ASTM** F1252, **ASTM** E96, **ASTM** C1338, **ASTM** C1224, **ASTM** D882, **ASTM** D1938, **ASTM** C1258-08, **ASTM** C518-10, **UL** 723/E84, **SNI** 03-6771-2002

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Airpack content up to 11% from normal bubble

STANDARD/TEST METHOD :

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SF-04B

TECHNICAL SPECIFICATION

Description	Result
Layers	Al - Small Bubble - Al
Thickness	4 mm
Bubble Diameter	10 mm
Roll Dimension	1.2 x 40 m
Weight	290 gr/m2
Reflectivity	97%
Tensile Strength	ASTM D882 Passed
Water Vapour Transmission Rate	ASTM E96 Passed
Fire Rating	Class A

Fibre free, Doesn't generate corrosion, Insect resistant

SF-08B

TECHNICAL SPECIFICATION

Description	Result
Layers	Al - Big Bubble - Al
Thickness	8 mm
Bubble Diameter	20 mm
Roll Dimension	1.2 x 30 m
Weight	380 gr/m2
Reflectivity	97%
Sound Transmission Loss at 4000Hz	20 dB
Tensile Strength	ASTM D882 Passed
Water Vapour Transmission Rate	ASTM E96 Passed
Fire Rating	Class A

Fibre free, Doesn't generate corrosion, Insect resistant

SF-04FB

TECHNICAL SPECIFICATION

Description	Result
Layers	Al - FR Small Bubble - Al
Thickness	4 mm
Bubble Diameter	10 mm
Roll Dimension	1.2 x 40 m
Weight	290 gr/m2
Reflectivity	97%
Tensile Strength	ASTM D882 Passed
Water Vapour Transmission Rate	ASTM E96 Passed
Fire Rating	Class A

Fibre free, Doesn't generate corrosion, Insect resistant

SF-08FB

TECHNICAL SPECIFICATION

Description	Result
Layers	Al - FR Big Bubble - Al
Thickness	8 mm
Bubble Diameter	20 mm
Roll Dimension	1.2 x 30 m
Weight	380 gr/m2
Reflectivity	97%
Sound Transmission Loss at 4000Hz	20dB
Tensile Strength	ASTM D882 Passed
Water Vapour Transmission Rate	ASTM E96 Passed
Fire Rating	Class A

Fibre free, Doesn't generate corrosion, Insect resistant

Contact Us

For further information, please contact our product consultants directly or you can reach us via our customer service hotline:

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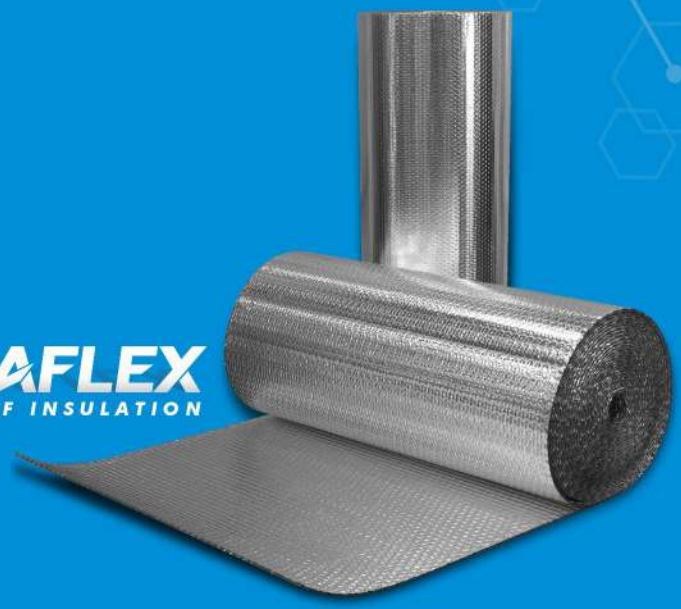

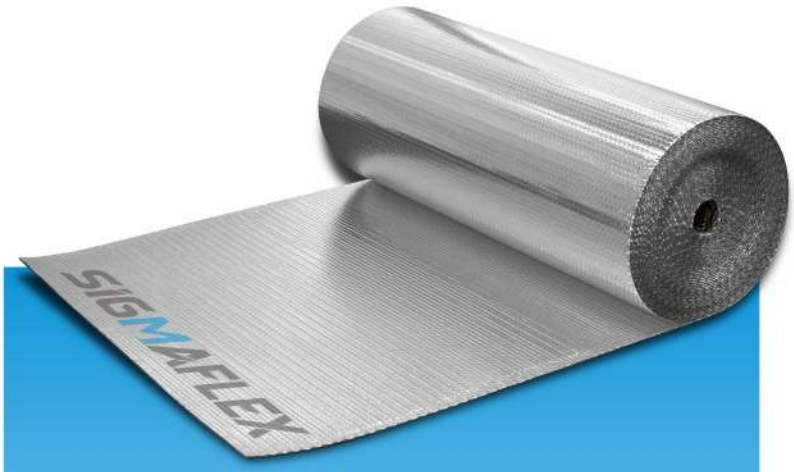

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