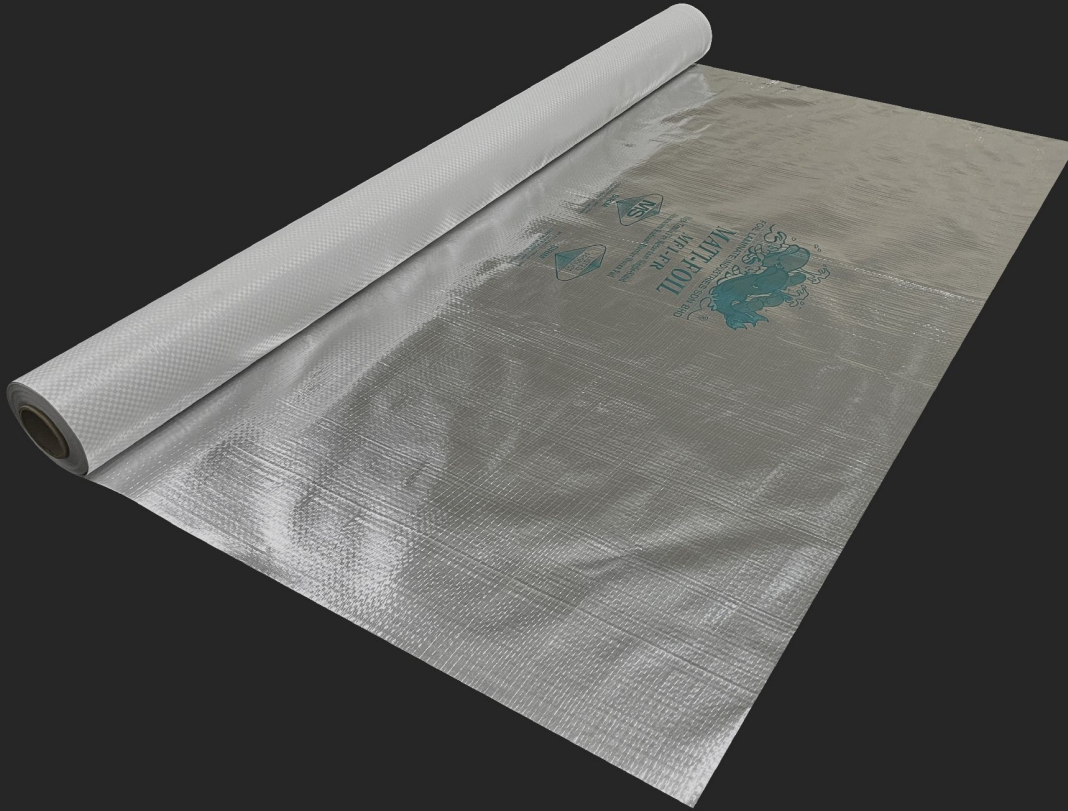


Reflective ~ Protective ~ Excellence
FOIL LAMINATE



MATT-FOIL



SELF
SUPPORT



VAPOR
BARRIER



PUNCTURE
RESISTANCE



TEAR
RESISTANCE



FIRE
RETARDANT

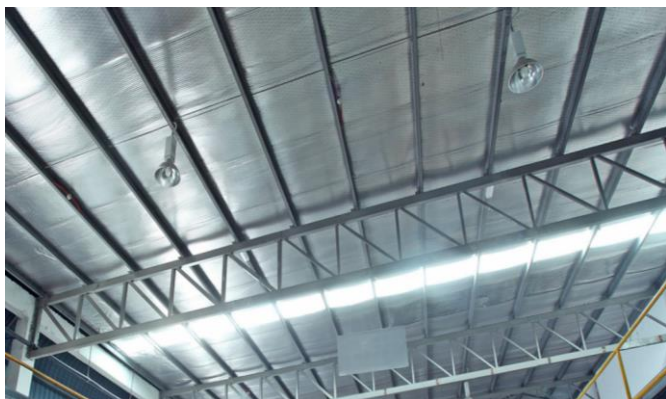
MF1-FR

Product Description

MF1-FR is a three (3) layer fire retardant single-sided radiant barrier with excellent tear and puncture resistance for easily handling during construction. It is a lamination of pure aluminium foil with high tensile polypropylene woven. MF1-FR installed beneath the primary roofing material, providing a vapor barrier against moisture penetration. It is lightweight, heavy duty in performance and does an excellent job at providing thermal insulation. It is a self-support foil, eliminating the extra cost of wire mesh installation

MATT-FOIL

MF1-FR



MATT-FOIL, MF1-FR (MS 2095 : 2014)

Reflectivity / Emissivity	ASTM C1371	≥ 95% / ≤ 5%	
Tensile Strength (MD)	AS/NZ 1301.448s	≥ 12.9 kN/m	Heavy
Tensile Strength (CD)	AS/NZ 1301.448s	≥ 7.6 kN/m	Heavy
Edge Tear Resistance (MD)	TAPPI T470	≥ 90.0 N	Extra Heavy
Edge Tear Resistance (CD)	TAPPI T470	≥ 90.0 N	Extra Heavy
Vapor Barrier (WVTR)	ASTM E96	>7 , < 450 MNs/g	Medium
Resistance to Dry Delamination	AS/NZS 4201.1	No Delamination	Passed
Resistance to Wet Delamination	AS/NZS 4201.2	No Delamination	Passed
Shrinkage	AS/NZS 4201.3	< 0.5 %	Passed
Grammage	Electronic scale	75 - 130 GSM	
Thickness	Digital caliper	≤ 0.4 mm	

* Technical information provided represents average result of tests conducted under standard procedure and is subject to variation.
* No guarantee can be made regarding specific applications or patent rights.

Standard Size: 1.25m (Width) X 48m (Length)

FIRE PROPERTY

MF1-FR is classified as **CLASS 'O'** in accordance to fire tests on building material and structures.

- British Standard, BS 476-6: Fire Propagation for products
- British Standard, BS 476-7: Surface spread of flame test

AWARD

- Malaysian Standard, MS 2095 : 2014
- Jabatan Bomba Dan Penyelamat Malaysia
- SIRIM
- CIDB - Perakuan Pematuhan Standard (PPS)

THERMAL PROPERTY

MF1-FR is tested in accordance to **ISO 8301 / MS ISO 8302**.

- Thermal resistance, R-value: 0.710 m²K/W
- Thermal transmittance, U-value: 1.408 W/m²K
- Thermal conductivity, K-value: 0.141 W/mK

BQ SPECIFICATION

To supply and install MATT-FOIL MF1-FR under MS2095:2014 and CIDB certified single-sided aluminium foil as described.

Go GREEN

Environmental friendly green product recognized through

- Green Building Index (GBI) by MGBC

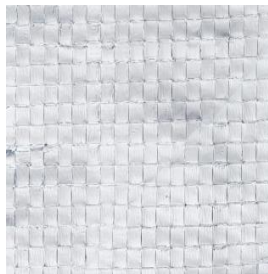
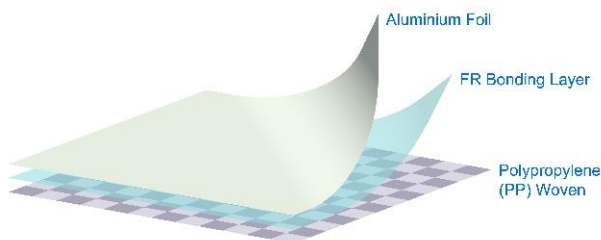
APPLICATION

- As a radiant barrier under all types of roof coverings in commercial, industrial and residential building.
- No wire netting is required for support.

INSTALLATION GUIDELINE

- Users are advised to install this product by an air space of at least 2" (50 mm) below the roof and 6" (152mm) overlapping at edge of each product.
- Recommended to use with bulk insulation in the form of felts, lamella mats and plain slab.
- Recommended installation with aluminium foil should be facing enclosed air gap.

MF1-FR



FRONT



BACK



MATT-FOIL



SELF
SUPPORT



VAPOR
BARRIER



PUNCTURE
RESISTANCE



TEAR
RESISTANCE



FIRE
RETARDANT

MF2-FR

Product Description

MF2-FR is a five (5) layer fire retardant double-sided radiant barrier with excellent tear and puncture resistance which makes it easier to handle during construction. It is a lamination of both side pure aluminium foil with high tensile polypropylene woven. MF2-FR installed beneath the primary roofing material, providing a vapor barrier against moisture penetration. It is lightweight, extra heavy duty in performance and does an excellent job at providing thermal insulation. It is a self -support foil, eliminating the extra cost of wire mesh installation.

MF2-FR



MATT-FOIL, MF2-FR (MS 2095 : 2014)

Reflectivity / Emissivity	ASTM C1371	97% / 3%	
Tensile Strength (MD)	AS/NZ 1301.448s	≥ 13.0 kN/m	Extra Heavy
Tensile Strength (CD)	AS/NZ 1301.448s	≥ 10.5 kN/m	Extra Heavy
Edge Tear Resistance (MD)	TAPPI T470	≥ 90.0 N	Extra Heavy
Edge Tear Resistance (CD)	TAPPI T470	≥ 90.0 N	Extra Heavy
Vapor Barrier (WVTR)	ASTM E96	>7, < 450 MN.s/g	Medium
Resistance to Dry Delamination	AS/NZS 4201.1	No Delamination	Passed
Resistance to Wet Delamination	AS/NZS 4201.2	No Delamination	Passed
Shrinkage	AS/NZS 4201.3	< 0.5 %	Passed
Grammage	Electronic scale	120 - 185 GSM	
Thickness	Digital caliper	120 - 160 µm	

* Technical information provided represents average result of tests conducted under standard procedure and is subject to variation.

* No guarantee can be made regarding specific applications or patent rights.

Standard Size: 1.25m (Width) X 48m (Length)

FIRE PROPERTY

MF2-FR is classified as **CLASS 'O'** in accordance to fire tests on building material and structures.

- British Standard, BS 476-6: Fire Propagation for products
- British Standard, BS 476-7: Surface spread of flame test

AWARD

- Malaysian Standard, MS 2095 : 2014
- Jabatan Bomba Dan Penyelamat Malaysia
- SIRIM
- CIDB - Perakuan Pematuhan Standard (PPS)
- MGTC (GreenTech Malaysia)

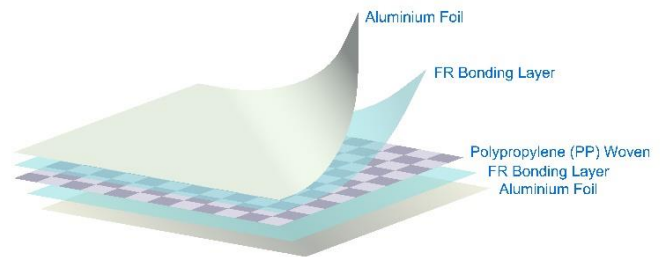
THERMAL PROPERTY

MF2-FR is tested in accordance to **ISO 8301 / MS ISO 8302**.

- Thermal resistance, R-value: 1.992 m²K/W

The above value are based on MS2095 testing requirements, which include a total air gap of 100mm

MF2-FR



BQ SPECIFICATION

To supply and install MATT-FOIL MF2-FR under MS2095:2014 and CIDB certified double-sided aluminium foil as described.

Go GREEN

Environmental friendly green product recognized through

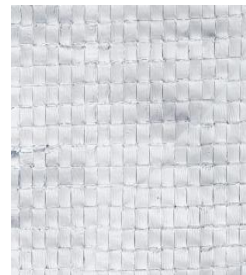
- Green Building Index (GBI) by MGBC

APPLICATION

- As a radiant barrier under all types of roof coverings in commercial, industrial and residential building.
- No wire netting is required for support.

INSTALLATION GUIDELINE

- Users are advised to install this product by an air space of at least 2" (50 mm) below the roof and 6" (152mm) overlapping at edge of each product.
- Recommended to use with bulk insulation in the form of felts, lamella mats and plain slab.



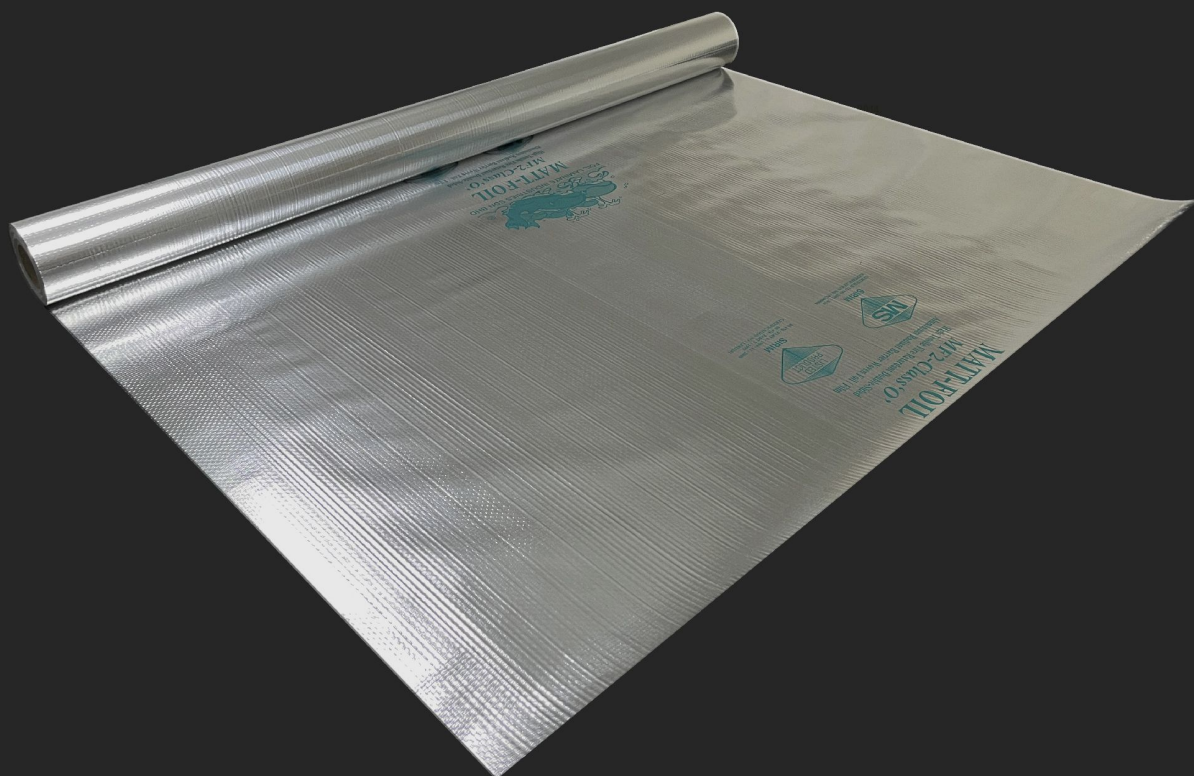
FRONT



BACK



MATT-FOIL



SELF
SUPPORT



VAPOR
BARRIER



PUNCTURE
RESISTANCE



TEAR
RESISTANCE



FIRE
RETARDANT

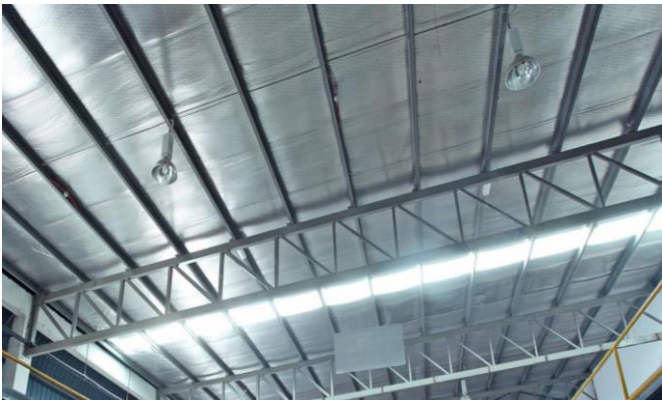
MF2 CLASS 'O'

Product Description

MF2 CLASS 'O' is a five (5) layer fire retardant double-sided radiant barrier with excellent tear and puncture resistance for easily handling during construction. It is a double-sided lamination of pure aluminium foil and aluminium film with high tensile polypropylene woven. MF2 CLASS 'O' installed beneath the primary roofing material, providing a vapor barrier against moisture penetration. It is lightweight, heavy duty in performance and does an excellent job at providing thermal insulation. It is a self-support foil, eliminating the extra cost of wire mesh installation.

MATT-FOIL

MF2 CLASS 'O'



MATT-FOIL, MF2 CLASS 'O' (MS 2095 : 2014)

Reflectivity / Emissivity	ASTM C1371		
Tensile Strength (MD)	AS/NZ 1301.448s	≥ 13.0 kN/m	Extra Heavy
Tensile Strength (CD)	AS/NZ 1301.448s	≥ 7.5 kN/m	Heavy
Edge Tear Resistance (MD)	TAPPI T470	≥ 90.0 N	Extra Heavy
Edge Tear Resistance (CD)	TAPPI T470	≥ 90.0 N	Extra Heavy
Vapor Barrier (WVTR)	ASTM E96	>7 , < 450 MNs/g	Medium
Resistance to Dry Delamination	AS/NZS 4201.1	No Delamination	Passed
Resistance to Wet Delamination	AS/NZS 4201.2	No Delamination	Passed
Shrinkage	AS/NZS 4201.3	< 0.5 %	Passed
Grammage	Electronic scale	90 - 160 GSM	
Thickness	Digital caliper	≤ 0.5 mm	

* Technical information provided represents average result of tests conducted under standard procedure and is subject to variation.

* No guarantee can be made regarding specific applications or patent rights.

Standard Size: 1.25m (Width) X 48m (Length)

FIRE PROPERTY

MF2 CLASS 'O' is classified as **CLASS 'O'** in accordance to fire tests on building material and structures.

- British Standard, BS 476-6: Fire Propagation for products
- British Standard, BS 476-7: Surface spread of flame test

AWARD

- Malaysian Standard, MS 2095 : 2014
- Jabatan Bomba Dan Penyelamat Malaysia
- SIRIM
- CIDB - Perakuan Pematuhan Standard (PPS)

THERMAL PROPERTY

MF2 CLASS 'O' is tested in accordance to **ISO 8301 / MS ISO 8302**.

- Thermal resistance, R-value: 0.967 m²K/W
- Thermal transmittance, U-value: 1.034 W/m²K
- Thermal conductivity, K-value: 0.103 W/mK

BQ SPECIFICATION

To supply and install **MATT-FOIL MF2 CLASS 'O'** under **MS2095:2014** and **CIDB** certified double-sided aluminium foil as described.

Go GREEN

Environmental friendly green product recognized through

- Green Building Index (GBI) by MGBC

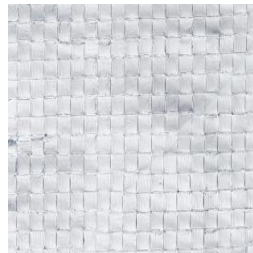
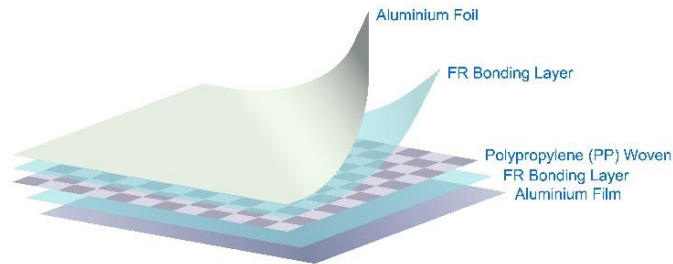
APPLICATION

- As a radiant barrier under all types of roof coverings in commercial, industrial and residential building.
- No wire netting is required for support.

INSTALLATION GUIDELINE

- Users are advised to install this product by an air space of at least 2" (50 mm) below the roof and 6" (152mm) overlapping at edge of each product.
- Recommended to use with bulk insulation in the form of felts, lamella mats and plain slab.

MF2-CLASS 'O'



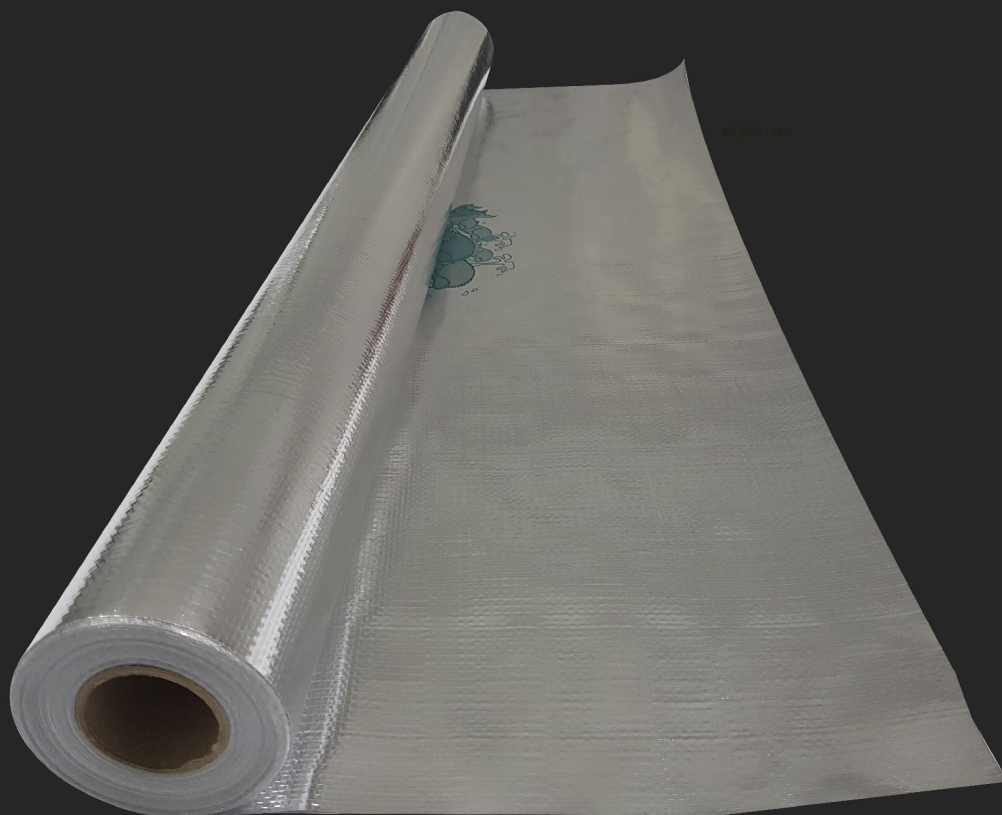
FRONT



BACK



MATT-FOIL



SELF
SUPPORT



VAPOR
BARRIER



PUNCTURE
RESISTANCE



TEAR
RESISTANCE



FIRE
RETARDANT

MF2E CLASS 'O'

Product Description

MF2E CLASS 'O' is a five (5) layer fire retardant double-sided radiant barrier with excellent tear and puncture resistance for easily handling during construction. It is a double-sided lamination of pure aluminium foil and aluminium film with high tensile polypropylene woven. MF2E CLASS 'O' installed beneath the primary roofing material, providing a vapor barrier against moisture penetration. It is lightweight, medium duty in performance and does an excellent job at providing thermal insulation. It is a self-support foil, eliminating the extra cost of wire mesh installation.

MATT-FOIL

MF2E CLASS 'O'



MATT-FOIL, MF2E CLASS 'O' (MS 2095 : 2014)

Reflectivity / Emissivity	ASTM C1371		
Tensile Strength (MD)	AS/NZ 1301.448s	≥ 9.5 kN/m	Medium
Tensile Strength (CD)	AS/NZ 1301.448s	≥ 10.5 kN/m	Extra heavy
Edge Tear Resistance (MD)	TAPPI T470	≥ 90.0 N	Extra Heavy
Edge Tear Resistance (CD)	TAPPI T470	≥ 90.0 N	Extra Heavy
Vapor Barrier (WVTR)	ASTM E96	>7 , < 450 MNs/g	Medium
Resistance to Dry Delamination	AS/NZS 4201.1	No Delamination	Passed
Resistance to Wet Delamination	AS/NZS 4201.2	No Delamination	Passed
Shrinkage	AS/NZS 4201.3	< 0.5 %	Passed
Grammage	Electronic scale	80 - 130 GSM	
Thickness	Digital caliper	≤ 0.5 mm	

* Technical information provided represents average result of tests conducted under standard procedure and is subject to variation.

* No guarantee can be made regarding specific applications or patent rights.

Standard Size: 1.25m (Width) X 48m (Length)

FIRE PROPERTY

MF2E CLASS 'O' is classified as **CLASS 'O'** in accordance to fire tests on building material and structures.

- British Standard, BS 476-6: Fire Propagation for products
- British Standard, BS 476-7: Surface spread of flame test

AWARD

- Malaysian Standard, MS 2095 : 2014
- Jabatan Bomba Dan Penyelamat Malaysia
- SIRIM
- CIDB - Perakuan Pematuhan Standard (PPS)

THERMAL PROPERTY

MF2E CLASS 'O' is tested in accordance to **ISO 8301 / MS ISO 8302**.

- Thermal resistance, R-value: 1.444 m²K/W
- Thermal transmittance, U-value: 0.693 W/m²K
- Thermal conductivity, K-value: 0.069 W/mK

BQ SPECIFICATION

To supply and install **MATT-FOIL MF2E CLASS 'O'** under **MS2095:2014** and **CIDB** certified double-sided aluminium foil as described.

Go GREEN

Environmental friendly green product recognized through

- Green Building Index (GBI) by MGBC

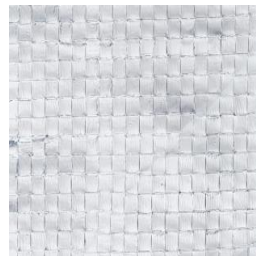
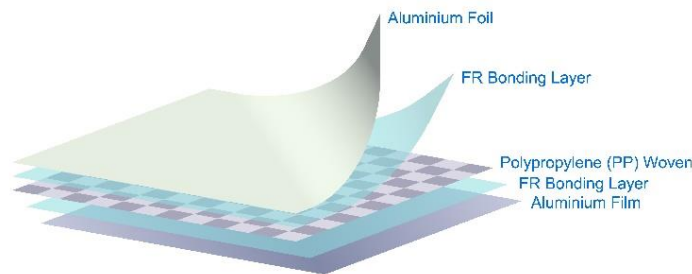
APPLICATION

- As a radiant barrier under all types of roof coverings in commercial, industrial and residential building.
- No wire netting is required for support.

INSTALLATION GUIDELINE

- Users are advised to install this product by an air space of at least 2" (50 mm) below the roof and 6" (152mm) overlapping at edge of each product.
- Recommended to use with bulk insulation in the form of felts, lamella mats and plain slab.

MF2E Class 'O'



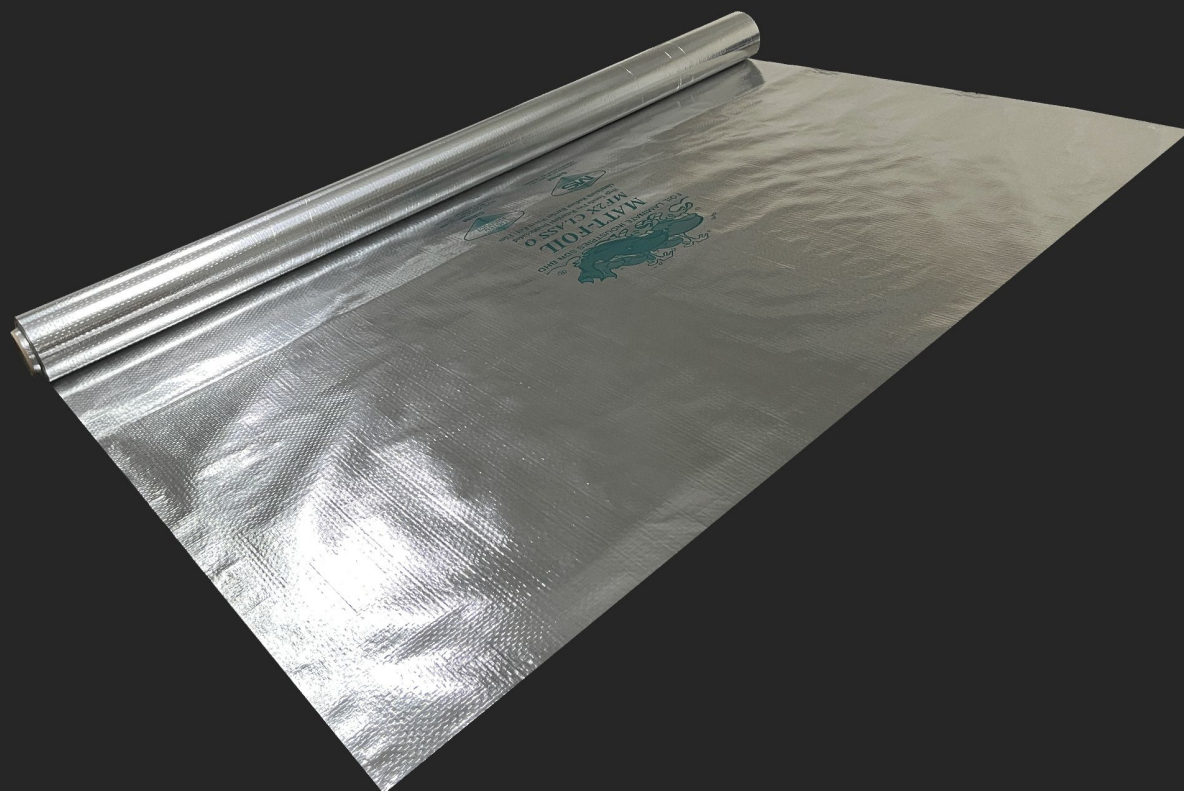
FRONT



BACK



MATT-FOIL



SELF
SUPPORT



VAPOR
BARRIER



PUNCTURE
RESISTANCE



TEAR
RESISTANCE



FIRE
RETARDANT

MF2X CLASS 'O'

Product Description

MF2X CLASS 'O' is a five (5) layer fire retardant double-sided radiant barrier with excellent tear and puncture resistance for easily handling during construction. It is a double-sided lamination of pure aluminium foil and aluminium film with high tensile polypropylene woven. MF2X CLASS 'O' installed beneath the primary roofing material, providing a vapor barrier against moisture penetration. It is lightweight, medium duty in performance and does an excellent job at providing thermal insulation. It is a self-support foil, eliminating the extra cost of wire mesh installation

MF2X CLASS 'O'



MATT-FOIL, MF2X CLASS 'O' (MS 2095 : 2014)

Reflectivity / Emissivity	ASTM C1371	≥ 95% / ≤ 5%	
Tensile Strength (MD)	AS/NZ 1301.448s	≥ 9.5 kN/m	Medium
Tensile Strength (CD)	AS/NZ 1301.448s	≥ 7.5 kN/m	Heavy
Edge Tear Resistance (MD)	TAPPI T470	≥ 90.0 N	Extra Heavy
Edge Tear Resistance (CD)	TAPPI T470	≥ 90.0 N	Extra Heavy
Vapor Barrier (WVTR)	ASTM E96	>7, < 450 MNs/g	Medium
Resistance to Dry Delamination	AS/NZS 4201.1	No Delamination	Passed
Resistance to Wet Delamination	AS/NZS 4201.2	No Delamination	Passed
Shrinkage	AS/NZS 4201.3	< 0.5 %	Passed
Grammage	Electronic scale	60 - 85 GSM	
Thickness	Digital caliper	≤ 0.5 mm	

* Technical information provided represents average result of tests conducted under standard procedure and is subject to variation.

* No guarantee can be made regarding specific applications or patent rights.

Standard Size: 1.25m (Width) X 48m (Length)

FIRE PROPERTY

MF2X CLASS 'O' is classified as **CLASS 'O'** in accordance to fire tests on building material and structures.

- British Standard, BS 476-6: Fire Propagation for products
- British Standard, BS 476-7: Surface spread of flame test

AWARD (pending)

- Malaysian Standard, MS 2095 : 2014
- Jabatan Bomba Dan Penyelamat Malaysia
- SIRIM
- CIDB - Perakuan Pematuhan Standard (PPS)

THERMAL PROPERTY

MF2X CLASS 'O' is tested in accordance to **ISO 8301 / MS ISO 8302**.

- Thermal resistance, R-value: 0.848 m²K/W
- Thermal transmittance, U-value: 1.179 W/m²K
- Thermal conductivity, K-value: 0.088 W/mK

BQ SPECIFICATION

To supply and install MATT-FOIL MF2X CLASS 'O' under MS2095:2014 and CIDB certified double-sided aluminium foil as described.

Go GREEN

- Environmental friendly green product recognized through
- Green Building Index (GBI) by MGBC

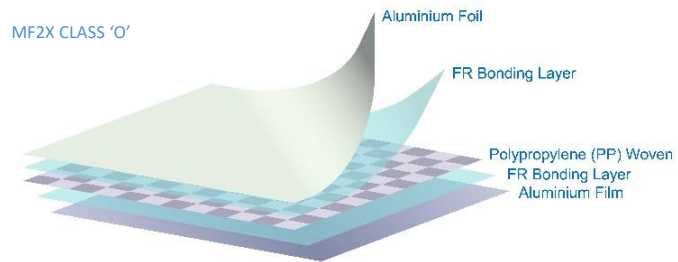
APPLICATION

- As a radiant barrier under all types of roof coverings in commercial, industrial and residential building.
- No wire netting is required for support.

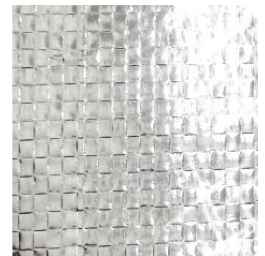
INSTALLATION GUIDELINE

- Users are advised to install this product by an air space of at least 2" (50 mm) below the roof and 6" (152mm) overlapping at edge of each product.
- Recommended to use with bulk insulation in the form of felts, lamella mats and plain slab.

MF2-CLASS 'O'



FRONT



BACK

