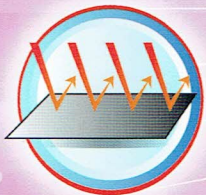


SUN-FOIL®

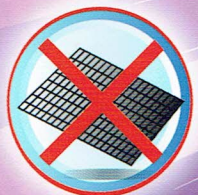
Woven Series

New and Improved Version

Certified by CIDB



Excellent Reflectivity



Chicken Wire Mesh
(Not Required)



Light Weight
(Yet Heavy Duty)



Tear-Resistance
(Resulting in Low Wastage)



Moist Barriers
Non-Delamination
(When Soaked in Water)



Easy Installation
(Cost Effective)

SN2-FR

Product Description:

SUN-FOIL® SN2-FR is used as insulation against heat transfer and can be used to its greatest advantage as radiation is the predominant mechanism of heat transfer. The bright aluminum surface of all **SUN-FOIL®** products contribute to its excellent insulating properties.

This happens in two ways:

- SUN-FOIL® SN2-FR** is an excellent reflector of all long wave radiant heat that strikes it – reflecting up to 99% of all radiant heat.
- SUN-FOIL® SN2-FR** has emitted only 1% of heat when in close physical contact, compared to other building materials which emitted approximately 90% of heat under the same temperature.

Fire Attributes

SN2-FR is classified as Class 'O' in accordance to fire tests on building material and structures.

- British Standard, BS 476-6 : Fire Propagation Test
- British Standard, BS 476-7 : Surface Spread of Flame Test

Thermal Properties

SN2-FR is tested in accordance to MS 2095, ISO 8301 / MS ISO 8302 for thermal resistance, R-value: 1.325 m²K/w

Awards & Certificates

- ★ Malaysia Standard - MS 2095, SIRIM QAS International Sdn. Bhd.
- ★ ISO 9001: 2015, Guardian Independent Certification
- ★ Jabatan Bomba dan Penyelamat Malaysia
- ★ CIDB Malaysia
- ★ Malaysia Green Building Confederation (MGBC)



WOVEN FOIL (Fire Retardant)

TECHNICAL DATA

Description	Test Method	Unit	Value
Grammage	ASTM D 5261	g/m ²	100 ± 5
Thickness	ASTM D 1777	µm	325 ± 25
Tensile Strength	ASTM D 5035	N/50mm	(MD) > 450 (CD) > 300
Elongation	ASTM D 5035	%	(MD) > 25 (CD) > 15
Resistance to Dry Delamination	AS/NZS 4201.1	No Delamination	Pass (Sirim Report 2018CE0815)
Resistance to Wet Delamination	AS/NZS 4201.2	No Delamination	Pass (Sirim Report 2018CE0815)
Shrinkage	AS/NZS 4201.3	< 0.5%	Pass (Sirim Report 2018CE0815)

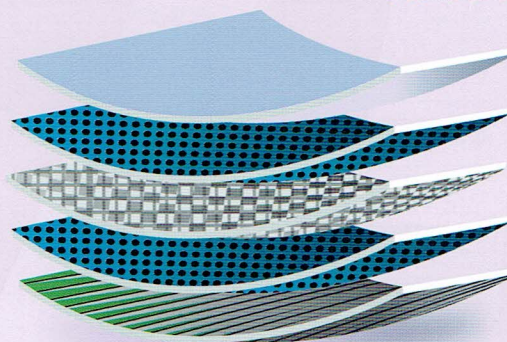
Technical Information provided represent average result of tests conducted under standard procedure and is subject to variation.
No guarantee can be made regarding specific applications or patent rights.

FIRE RETARDANT TEST FOR SN2-FR

CHARACTERISTIC	TEST METHOD	SPECIFICATION
Fire Propagation of Material	BS 476 ; Part 6	< 6
Sub-Index, i ₁ , i ₂ , i ₃		< 12
Overall Performance Index		(Sirim Report 2018FE0228)
Surface Flame Spread Test	BS 476 ; Part 7	Class 1 (Sirim Report 2018FE0229)
Classification of Fire Hazard		Class O

SN2-FR

Standard Roll Size: W 1.25m x L 48m



- Aluminium Foil
- FR PE Tie Layer
- Leno Woven Fabric
- FR PE Tie Layer
- Aluminium Film

Distributed By:

YH Laminated Products Sdn. Bhd. (959828-V)

Main Office : Lot 2996, Jalan PK 6 , Kawasan Perindustrian Krubong, 75250 Melaka.
 Factory : Lot 2995, Jalan PK 11, Kawasan Perindustrian Krubong, 75250 Melaka.
 Plant 2 : Lot 3003, Jalan PK 12, Kawasan Perindustrian Krubong, 75250 Melaka.
 Plant 3 : Lot 8349, Jalan PK 8F, Kawasan Perindustrian Krubong, 75250 Melaka.

Tel : +6 06-337 2170

Fax : +6 06-335 7199 (Admin) +6 06-335 7170 (Sales)

www.yhlp.com.my www.sunfoil.com.my

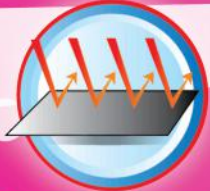


SUN-FOIL®

Woven Series

New and Improved Version

Certified by CIDB



Excellent Reflectivity



Chicken Wire Mesh
(Not Required)



Light Weight
(Yet Heavy Duty)



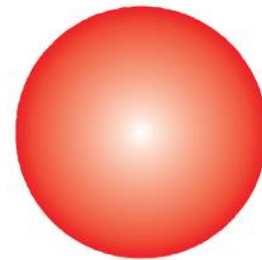
Edge Tear Resistance
(Resulting in Low Wastage)



Moist Barrier
Non-Delamination
(When Soak In Water)



Easy Installation
(Cost Effective)



SN3-CLASS 'O'

Product Description

SUN-FOIL® SN3-Class 'O' is used as insulation against radiant heat transfer and can be used to its greatest advantage in instances where radiation is the predominant means of heat transfer.

SUN-FOIL® SN3-Class 'O' is an excellent reflector of all long wave radiant heat that strikes it - **REFLECTIVE OF UP TO 98%** of all radiant heat.

Fire Attributes

SN3-Class 'O' is classified as Class "O" in accordance to fire tests on building material and structures.

- British Standard, BS 476-6 : Fire Propagation Test
- British Standard, BS 476-7 : Surface Spread of Flame Test

Thermal Properties

SN3-Class 'O' is tested in accordance to MS 2095, ISO 8301 / MS ISO 8302 for thermal resistance, R-value 1.243 m²K/w

Awards & Certificates

- Malaysia Standard - MS 2095, SIRIM QAS International Sdn. Bhd.
- ISO 9001: 2015, Guardian Independent Certification
- Jabatan Bomba dan Penyelamat Malaysia
- CIDB Malaysia
- Malaysia Green Building Confederation (MGBC)
- Asian Reflective Foil Association (ARFA)



CIDB PPS REG. NO:
1160504ML0121

WOVEN FOIL (Fire Retardant)

SUN-FOIL® SN3-Class 'O' is double sided made by high reflectivity pure aluminium bonded with a layer of FR HDPE woven fabric and high quality reflective aluminium film by special FR bonding material. It provides excellent insulation properties and effective radiant barrier.

SUN-FOIL® SN3-Class 'O' is designed light-weight. It is easy to install as it does not require mesh due to high tensile strength and edge tear resistance.

SUN-FOIL® SN3-Class 'O' is also flame retardant, waterproof, non-toxic, bacteria free, fungus and corrosion resistant.

TECHNICAL DATA

Description	Test Method	Unit	Value
Grammage	In House	g/m ²	160 ± 30
Thickness	In House	µm	170 ± 20
Tensile Strength	In House	N/50mm	MD ≥ 500 ± 50 CD ≥ 500 ± 50
Elongation	In House	%	MD ≥ 30 ± 10 CD ≥ 30 ± 10

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

FIRE RETARDANT TEST FOR SN3-Class 'O'

CHARACTERISTIC	TEST METHOD	SPECIFICATION
Fire Propagation of Material Sub-Index, i_1, i_2, i_3 Overall Performance Index	BS 476 ; Part 6	< 6 < 12 (Sirim Report 2019FE0452)
Surface Flame Spread Test	BS 476 ; Part 7	Class 1 (Sirim Report 2019FE0451)
Classification of Fire Hazard		Class O

SN3-CLASS 'O'

Standard Roll Size: W 1.25m x L 48m



- Pure Aluminium
- FR PE Tie Layer
- FR HDPE Woven Fabric
- FR PE Tie Layer
- Aluminium Film



YH LAMINATED PRODUCTS SDN. BHD. (959828-V)

Main Office (Plant 1) : Lot 2996, Jalan PK 6 , Kawasan Perindustrian Krubong, 75250 Melaka.
Factory (Plant 2) : Lot 2995, Jalan PK 11 , Kawasan Perindustrian Krubong, 75250 Melaka.
Plant 3 : Lot 3003, Jalan PK 12, Kawasan Perindustrian Krubong, 75250 Melaka.
Plant 4 : Lot 8349, Jalan PK 8F , Kawasan Perindustrian Krubong, 75250 Melaka.
Plant 5 : Lot 8352, Jalan PK 8E , Kawasan Perindustrian Krubong, 75250 Melaka.

Tel : +6 06-337 2170

Fax : +6 06-335 7199 (Admin) +6 06-335 7170 (Sales)

www.yhlp.com.my www.sunfoil.com.my

Distributed by:

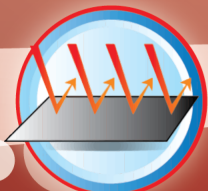


SUN-FOIL®

Woven Series

New and Improved Version

Certified by CIDB



Excellent Reflectivity
(96% on both surface)



Chicken Wire Mesh
(Not Required)



Light Weight
(Yet Heavy Duty)



Edge Tear Resistance
(Resulting in Low Wastage)



Moist Barrier
Non-Delamination
(When Soak In Water)



Easy Installation
(Cost Effective)

SN3-FR

Product Description

SUN-FOIL® SN3-FR is used as insulation against radiant heat transfer and can be used to its greatest advantage in instances where radiation is the predominant means of heat transfer.

SUN-FOIL® SN3-FR is an excellent reflector of all long wave radiant heat that strikes it - **DOUBLE SIDED REFLECTIVE OF UP TO 96%** of all radiant heat.

Fire Attributes

SN3-FR is classified as Class "O" in accordance to fire tests on building material and structures.

- British Standard, BS 476-6 : Fire Propagation Test
- British Standard, BS 476-7 : Surface Spread of Flame Test

Thermal Properties

R-value, thermal resistance varies depending on the roof design and total roof configuration. Please contact our specialist for roof system that complying UBBL and Malaysia Standards.

Awards & Certificates

- Malaysia Standard - MS 2095, SIRIM QAS International Sdn. Bhd.
- ISO 9001: 2015 & ISO 14001: 2015
- Jabatan Bomba dan Penyelamat Malaysia
- CIDB Malaysia
- Malaysia Green Building Confederation (MGBC)
- Asian Reflective Foil Association (ARFA)



CIDB PPS REG. NO:
1160504/ML0121



CERTIFICATE NUMBER: JQS-23-0557, JES-23-0284

WOVEN FOIL (Fire Retardant)

SUN-FOIL® SN3-FR is made by double sided high reflectivity pure aluminium bonded with a layer of FR HDPE woven fabric. It provides excellent insulation properties and effective radiant barrier.

SUN-FOIL® SN3-FR is designed light-weight. It is easy to install as it does not require mesh due to high tensile strength and edge tear resistance.

SUN-FOIL® SN3-FR is also flame retardant, waterproof, non-toxic, bacteria free, fungus and corrosion resistant.

TECHNICAL DATA

Description	Test Method	Unit	Value
Grammage	In House	g/m ²	163 ± 10
Thickness	In House	µm	170 ± 20
Tensile Strength	AS/NZS 1301:448s	kN/m	MD ≥ 10.0 ± 2.0 CD ≥ 10.0 ± 2.0
Edge Tear	TAPPI T470	N	MD ≥ 300 ± 50 CD ≥ 300 ± 50

Technical Information provided represent average result of tests conducted under standard procedure and is subject to variation.

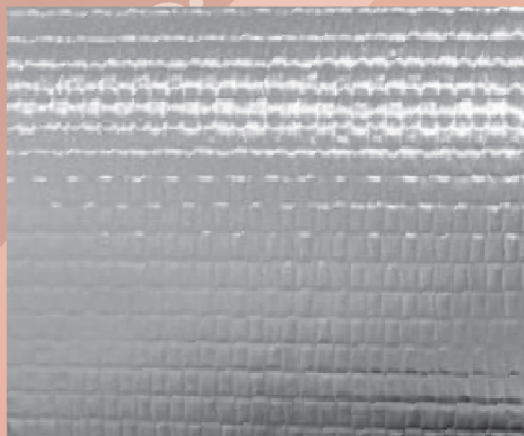
No guarantee can be made regarding specific applications or patent rights.

BQ SPECIFICATION

One layer of approved
YH “SUNFOIL” SN3-FR
Double Sided Fire Retardant
Aluminium Foil with 10 x10 inch
Woven Fabric approved with
MS2095.

FIRE RETARDANT TEST FOR SN3-FR

CHARACTERISTIC	TEST METHOD	SPECIFICATION
Fire Propagation of Material Sub-Index, i_1, i_2, i_3 Overall Performance Index	BS 476 ; Part 6	< 6 < 12 (Sirim Report 2021FE0312)
Surface Flame Spread Test	BS 476 ; Part 7	Class 1 (Sirim Report 2021FE0313)
Classification of Fire Hazard		Class O



SN3-FR

Standard Roll Size: W 1.25m x L 48m



- Pure Aluminium
- FR PE Tie Layer
- FR HDPE Woven Fabric
- FR PE Tie Layer
- Pure Aluminium



YH LAMINATED PRODUCTS SDN. BHD. (959828-V)

Main Office : Lot 2996, Jalan PK 6, Kawasan Perindustrian Krubong, 75250 Melaka.
Sales Office : Lot 8352, Jalan PK 8E, Kawasan Perindustrian Krubong, 75250 Melaka.
Factories : Lot 2995, Lot 8342, Lot 8343, Lot 8349, Lot 8350, Lot 8408, Kawasan Perindustrian Krubong, 75250 Melaka.

Sales Office Tel : +606-337 2170
Fax (Sales) : +606-335 7170
Fax (Finance) : +606-335 7199

Distributed by:



SUN-FOIL[®]

Woven Series

New and Improved Version

Certified by CIDB

SN6-FR

Product Description

SUN-FOIL[®] SN6-FR is used as insulation against radiant heat transfer and can be used to its greatest advantage in instances where radiation is the predominant means of heat transfer.

SUN-FOIL[®] SN6-FR is an excellent reflector of all long wave radiant heat that strikes it
- REFLECTIVE OF UP TO 98% of all radiant heat.

Fire Attributes

SN6-FR is classified as Class "O" in accordance to fire tests on building material and structures.

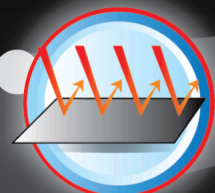
- i.) British Standard, BS 476-6 : Fire Propagation Test
- ii.) British Standard, BS 476-7 : Surface Spread of Flame Test

Thermal Properties

R-value, thermal resistance varies depending on the roof design and total roof configuration.
Please contact our specialist for roof system that complying UBBL and Malaysia Standards.

Awards & Certificates

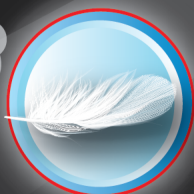
- Malaysia Standard - MS 2095, SIRIM QAS International Sdn. Bhd.
- ISO 9001:2015 & ISO 14001:2015
- Jabatan Bomba dan Penyelamat Malaysia
- CIDB Malaysia
- Malaysia Green Building Confederation (MGBC)
- Asian Reflective Foil Association (ARFA)



Excellent Reflectivity



Chicken Wire Mesh
(Not Required)



Light Weight
(Yet Heavy Duty)



Edge Tear Resistance
(Resulting in Low Wastage)



Moist Barrier
Non-Delamination
(When Soak In Water)



Easy Installation
(Cost Effective)



IMPRESSIVE
APPEARANCE



MAXIMIZE
STRENGTH



CIDB PPS REG. NO:
1160504ML0121



CERTIFICATE NUMBER: JQS-23-0557, JES-23-0284

WOVEN FOIL (Fire Retardant)

SUN-FOIL® SN6-FR is double sided made by high reflectivity pure aluminium and a high quality aluminium film bonded with a layer of HDPE leno woven fabric and a layer of HDPE woven fabric. It provides excellent insulation properties and effective radiant barrier.

SUN-FOIL® SN6-FR is designed light-weight. It is easy to install as it does not require mesh due to high tensile strength and edge tear resistance.

SUN-FOIL® SN6-FR is also flame retardant, waterproof, non-toxic, bacteria free, fungus and corrosion resistant.

TECHNICAL DATA

Description	Test Method	Unit	Value
Grammage	In House	g/m²	165 ± 30
Thickness	In House	µm	400 ± 50
Tensile Strength	AS/NS 1301:448s	kN/m	MD ≥ 12.0 ± 1.0 CD ≥ 12.0 ± 1.0
Edge Tear	TAPPI T470	N	MD ≥ 400 ± 50 CD ≥ 400 ± 50

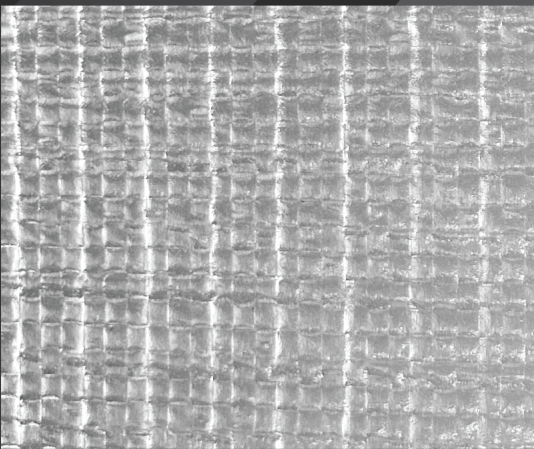
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BQ SPECIFICATION

One layer of approved YH “SUNFOIL” SN6-FR Double Sided Fire Retardant Aluminium Foil with “Extra Heavy Duty” in tensile strength and edge tear resistance for both directions approved with MS 2095.

FIRE RETARDANT TEST FOR SN6-FR

CHARACTERISTIC	TEST METHOD	SPECIFICATION
Fire Propagation of Material Sub-Index, i_1, i_2, i_3	BS 476 ; Part 6	< 6 < 12 (Sirim Report 2023FE0434)
Overall Performance Index		
Surface Flame Spread Test	BS 476 ; Part 7	Class 1 (Sirim Report 2023FE0435)
Classification of Fire Hazard		Class O



SN6-FR

Standard Roll Size: W 1.25m x L 48m



- Pure Aluminium
- FR PE Tie Layer
- HDPE Woven Fabric
- FR PE Tie Layer
- Leno Woven Fabric
- FR PE Tie Layer
- Aluminium Film



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Distributed by:

