

PX40

By POLY X Insulation



95-97%

UP TO

REFLECT 95-97% OF RADIANT HEAT (SILVER SIDE)



Fire Retardant Formulated



Reinforced Netting



Heavy Duty Aluminum Foil



Anti Scratch Layer

www.Polyx.com.au

PX40

Your reflective insulation

Utilizes fire retardant XPE foam



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PX 40 complies to Australian insulation standards and requirements.

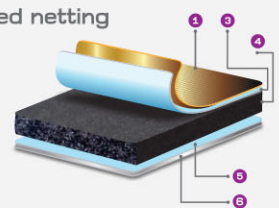


Anti-Glare side emittance 0.05

Silver Side emittance 0.03

A double-sided foil with fire retardant XPE foam between double layered bubbles for triple the strength efficiency and thermal break.

- 1 Anti-Glare reinforced netting
- 2 Poly backing
- 3 foam 4 mm.
- 4 Poly backing
- 5 Pure aluminum foil



Preference:

solution reduces up to 95-97% of radiant heat **gain** in summer, reduces heat **loss** in winter

Cost Efficiency:

Competitive price and long-lasting performances

Safety:

Exceptional fire safety qualities including safe fire-retardant additives and non-dripping technology

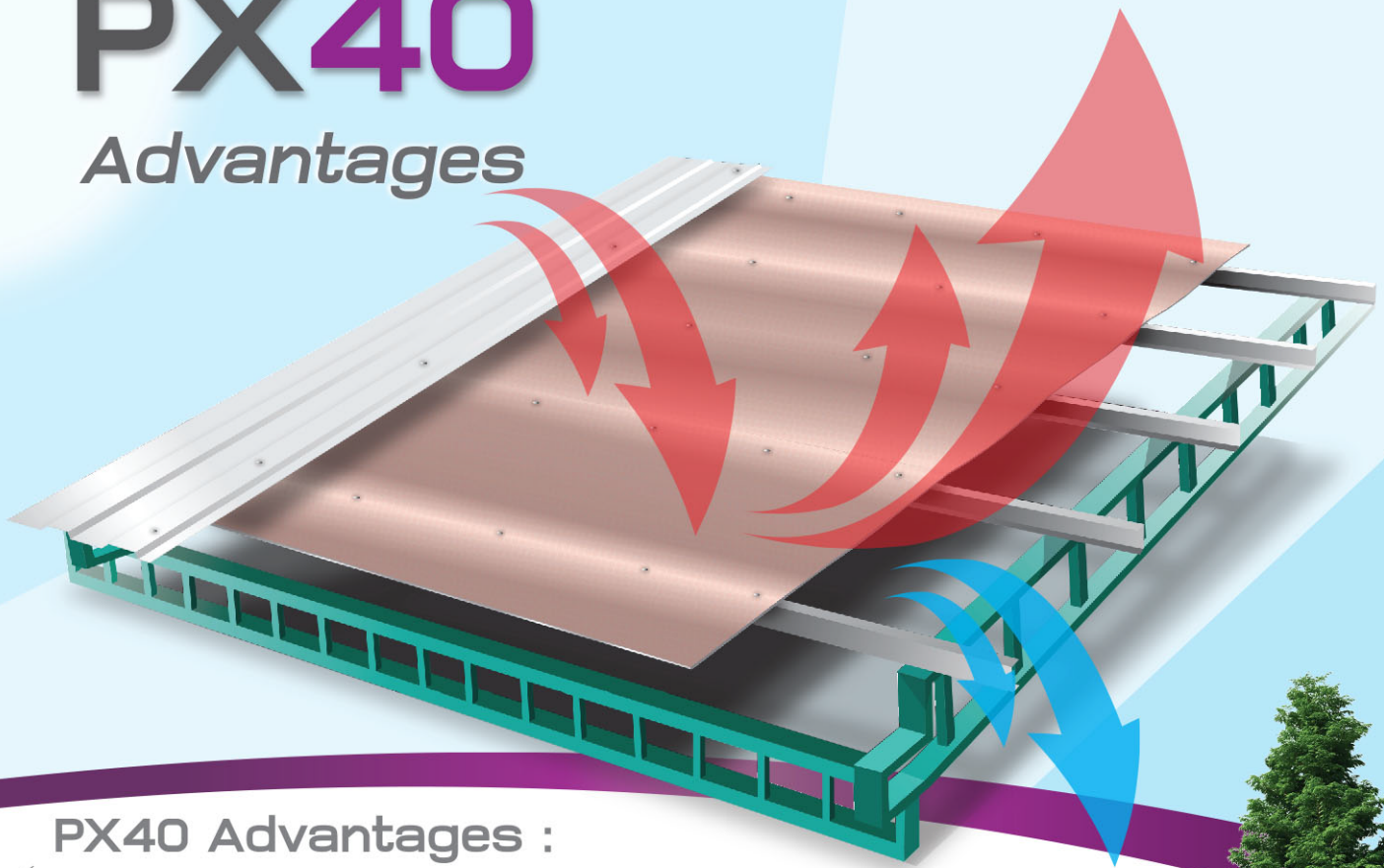
Easy to Install:

Quick and easy installation with 15 ★ years product warranty

★ (For full warranty cover) please check with your supplier.

PX40

Advantages



PX40 Advantages :

- ✓ Designed to comply with thermal break insulation requirements
- ✓ Advance high R-Value performance reflecting up to 95-97% of radiant heat flow
- ✓ Significantly lowers the use of energy in buildings
- ✓ Help to achieve 6 stars rating in residential buildings
- ✓ Delivers easy, cost effective BCA section J solutions for roofs, ceiling walls and floors
- ✓ Water proof, not affected by moisture, no bacterial growth and fiber free.
- ✓ Reduces handling, storage and transport costs
- ✓ Certified by Ecospecifier and avoiding ozone depleting substances
- ✓ Endorsed by Asian Reflective Foil Association (ARFA)
- ✓ Designed to comply with thermal break insulation requirements



Poly X PX40 Specifications :

Thickness (nominal)	mm	± 4.5
Foam	mm	4
Emittance (ASTM)	%	3 to 5
Reflectivity (ASTM)	%	95 to 97
Foil Thickness	μ	9/18
Foil Purity	%	>99
Weight (nominal)	gsm/m2	370 ± 5%
Standard Roll Size	m x m	1.35 m. x 30 m.
Effective Coverage	m2	40.5
Standard Roll Weight (Gross)	kg	15 kg ± 5%
Roll Diameter	mm	450 ± 5%



International Accreditation



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Standard	Property	Result
ASTME 408	Foil Emittance	Anti-Glare Side 0.05
ASTME 408		Silver Side 0.03
AS/NZS 4201.1	Resistance to Dry Delamination	Pass
AS/NZS 4201.2	Resistance To Wet Delamination	Pass
AS/NZS 4201.3	Pliable Building Membranes and Underlays-Shrinkage	<0.5%
AS 1301.448s-2019	Tensile Strength	Medium Duty
AS/NZS 4200.1-2017	Edge Tear Resistance	Extra Heavy Duty
ASTM E96-2016	Water Vapour Transmission	Class 2
AS/NZS 3100	Surface Resistance	Electrically Conductive
ASTM C518	Thermal Resistance	0.12 m2 K/W
AS 1530.2	Flamability Index	1

Product Description

Poly X PX40 incorporates a special Low-E copper antiglare foil and has a built in reinforcing net to add extra strength. It combines a unique layered inner core of fire retardant XPE foam with a second Low-E reflective aluminium foil layer.

The external copper antiglare surface reflects 95% of radiant heat, while the internal silver side reflects 95-97% and the XPE foam inner core reduces heat flow transferring from one surface to the next.

Poly X PX40 excels in laboratory testing for all mandatory Australian Standards and National Construction Code certification benchmarks. Poly X products have been certified by AWTA Melbourne and are engineered to comply with Australian Standards.

Thermal Performance

Outdoor Temperature	12°C	36°C
Roof System	Heat Flow Up	Heat Flow Down
Metal Roof (commercial roof) 1° to 5° pitch, naturally ventilated, flat ceiling	R _T 1.40	R _T 4.35
Metal Roof (combo with R2.5 ceiling batts) 22° pitch, naturally ventilated, flat ceiling	R _T 4.00	R _T 5.30
Metal Roof 22° pitch, naturally ventilated, flat ceiling	R _T 1.30	R _T 2.73
Tiled Roof 22° pitch, naturally ventilated, flat ceiling	R _T 1.12	R _T 2.26
Metal Roof (Warehouse/Shed) 1° to 5° pitch, no ceiling	R _T 0.94	R _T 2.0-2.7
Concrete Roof with Ceiling	R _T 1.51	R _T 3.57
Wall System	Heat Flow Out	Heat Flow In
Brick Veneer Wall With plasterboard	R _T 2.21	R _T 1.95
Brick Veneer Wall With 1.5 bulk insulation & plasterboard	R _T 3.01	R _T 2.77
Double Brick Cavity Wall Poly X™ dividing cavity & plasterboard	R _T 2.47	R _T 2.20
Floor System	Heat Flow Down	Heat Flow Up
Framed Floor With subfloor perimeter enclosed	R _T 3.70	R _T 2.25

The contribution of PolyX™ products to a Total R-Value depends on the installation and environmental conditions. The values shown are Total R-Values for the building system, calculated using Reflect 3 computer software validated by James M Fricker M.I.E.Aust M.AIRCH CPEng and re based on installed product service in accordance with AS/NZS 4859.1 & 2:2018 Refer to the PolyX™ products tech manual for further details. The information in this brochure is believed to be true at the time of publication.

PolyX™ reserves the right to change specifications without notice, and have no obligation of liability for the persons misrepresenting or misusing this information in any manner whatsoever.

Insulation Compliance  ✓ AS / NZS 4859.1 ✓ AS / NZS 4200.1	Fire Compliance  ✓ AS 1530.2	ISO 9001:2015-QUALITY  Poly X Insulation is manufactured under the strict quality management system of 9001:2015 	Ecospecifier Global  PX40 is registered under Polyshield insulation and it is approved by Ecospecifier Global certificate scheme	 PX40 By Poly X Phone 1300 669 285 www.Polyx.com.au
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Selecting Poly X insulation for your buildings with the high performance copper color antiglare and our high quality product, PX40 will ensure that it is comfortable to use all year round.