

High performance insulation systems for new homes





Polyair Performa XHD is a high grade radiant heat barrier and extra heavy duty sarking in one product. It boosts the thermal performance of roofs and walls while improving the comfort and energy efficiency of a home.

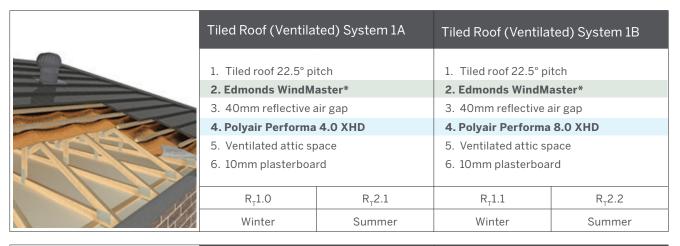
| TYPICAL ROOF SARKING AND WALL WRAP PRODUCTS | POLYAIR PERFORMA XHD |
|--|--|
| Medium to heavy duty sarking | Multi layered thermo reflective insulation and extra heavy duty sarking in one product |
| Non-reflective outward face | Special antiglare coated outward facing foil that reflects up to 95% of the sun's radiant heat |
| Less than 1mm thick | Incorporates an insulating foam core up to 8mm thick |
| Inward facing reflective foil | Inward facing reflective foil |

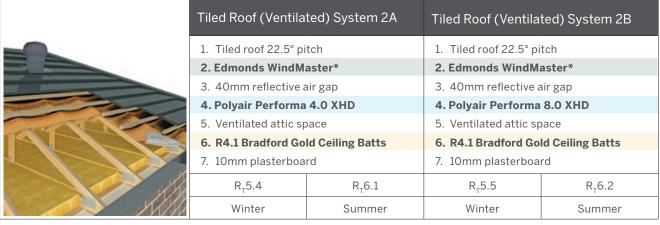


Roof Systems

| | Metal Roof (Ventila | ated) System 1A | Metal Roof (Ventila | ated) System 1B | |
|--|---|-----------------------------|---|------------------------------|--|
| A CONTRACTOR OF THE PARTY OF TH | Metal roof 22.5° p Edmonds WindMa 40mm reflective a Polyair Performa Ventilated attic sp 10mm plasterboa | aster* air gap 4.0 XHD bace | 1. Metal roof 22.5° pitch 2. Edmonds WindMaster* 3. 40mm reflective air gap 4. Polyair Performa 8.0 XHD 5. Ventilated attic space 6. 10mm plasterboard | | |
| | R_T 1.1 R_T 2.4 Winter Summer | | R ₇ 1.2 Winter | R _T 2.5 Summer | |

| | Metal Roof (Ventila | ated) System 2A | Metal Roof (Ventilated) System 2B | | |
|--|--|--------------------|--|--------------------|--|
| | 1. Metal roof 22.5° p 2. Edmonds WindM | | Metal roof 22.5° pitch Edmonds WindMaster* | | |
| | 40mm reflective air gap 4. Polyair Performa 4.0 XHD | | 40mm reflective air gap A. Polyair Performa 8.0 XHD | | |
| | 5. Ventilated attic space 6. R4.1 Bradford Gold Ceiling Batts | | 5. Ventilated attic space 6. R4.1 Bradford Gold Ceiling Batts | | |
| | 7. 10mm plasterboard | | 7. 10mm plasterboard | | |
| | R _T 5.6 | R _T 6.4 | R _T 5.7 | R _⊤ 6.5 | |
| | Winter | Summer | Winter | Summer | |





TOTAL R-VALUE ASSUMPTIONS

*Ventilated attic space based on incorporating minimum 2x wind driven ventilators such as Edmonds WindMaster 300mm throat ventilator (total aggregate area 0.14m²) in conjunction with Edmonds eave vents of not less than 0.2% of the plan ceiling area. Refer to explanation in the BCA 3.12.1.2(b)(ii). The contribution of Polyair Performa XHD to a Total R-Value depends on the installation and environmental conditions. The Total R-Value will be reduced in the event of the accumulation of dust on upward facing surfaces and in those cavities that are ventilated. Thermal calculations are based on Australian parameters and in accordance with AS/NZS 4859.1:2002/Amdt.1. Continued over page...

Wall Systems

| Brick Veneer Syste | em 1A | Brick Veneer System 1B | | |
|---|--------------------------|---|--------------------|--|
| 1. 110mm external b 2. 35mm reflective a 3. Polyair Performa 4. 90mm reflective a | ir gap 4.0 XHD iir gap | 1. 110mm external brick wall 2. 35mm reflective air gap 3. Polyair Performa 8.0 XHD 4. 90mm reflective air gap | | |
| 5. 10mm plasterboa | rd | 5. 10mm plasterboa | rd | |
| R _T 2.0 | R _⊤ 1.9 | R _T 2.1 | R _T 2.0 | |
| Winter | Summer | Winter | Summer | |

| | Brick Veneer System 2A | | Brick Veneer System 2B | |
|--|---|--------------------|---|--------------------|
| | 1. 110mm external brick wall 2. 35mm reflective air gap 3. Polyair Performa 4.0 XHD | | 1. 110mm external brick wall 2. 35mm reflective air gap 3. Polyair Performa 8.0 XHD | |
| | 4. R1.5 Bradford Gold Wall Batt | | 4. R1.5 Bradford Gold Wall Batt | |
| | 5. 10mm plasterboard | | 5. 10mm plasterboa | rd |
| | R _⊤ 3.0 | R _T 2.7 | R _⊤ 3.1 | R _⊤ 2.8 |
| | Winter | | Winter | Summer |

| | Brick Veneer Syste | em 3A | Brick Veneer System 3B | | |
|--|--|--------------------|---|--------------------|--|
| | 1. 110mm external b 2. 35mm reflective a 3. Polyair Performa | ir gap | 1. 110mm external brick wall 2. 35mm reflective air gap 3. Polyair Performa 8.0 XHD | | |
| | 4. R2.5 Bradford Gold Wall Batts | | 4. R2.5 Bradford Gold Wall Batts | | |
| | 5. 10mm plasterboard | | 5. 10mm plasterboa | rd | |
| | R _T 4.0 | R _T 3.7 | R _T 4.1 | R _T 3.8 | |
| | Winter | Summer | Winter | Summer | |

| Brick Cavity System 1A | | Brick Cavity System 1B | | |
|--|--------------------|--|--------------------|--|
| 1. 110mm external b 2. 20mm reflective a | | 1. 110mm external brick wall 2. 20mm reflective air gap** | | |
| 3. Polyair Performa | 4.0 XHD | 3. Polyair Performa 8.0 XHD | | |
| 4. 20mm reflective a | nir gap | 4. 20mm reflective air gap | | |
| 5. 110mm internal br | rick wall | 5. 110mm internal brick wall | | |
| 6. 10mm plasterboa | rd or render | 6. 10mm plasterboa | rd or render | |
| R _⊤ 2.0 | R _⊤ 1.9 | R _⊤ 2.1 | R _T 2.0 | |
| Winter Summer | | Winter | Summer | |

TOTAL R-VALUE ASSUMPTIONS

continued: The contribution of Polyair Performa XHD towards the Total R-Value depends on installation and environmental conditions. For upward facing surfaces of horizontal or sloping reflective insulation in non-vented cavities where no special precautions for prevention of dust ingress have been included, the Total R-Value is calculated based on an emittance for the case of dust cover in accordance with AS/NZS4859.1 Paragraph K3.2(a)(ii), unless otherwise stated. For calculation purposes, the air gaps are assumed as still parallel air gaps unless otherwise stated and the membrane continuous. ** Refer to brick cavity alternative solution report for installation requirements.



POLYAIR PERFORMA XHD CLASSIFICATION

| PROPERTY | REFERENCE | RESULT |
|---|---|--|
| Emittance | AS/NZS 4201.5:1994/ASTM E408 | Double-sided reflective Antiglare (outer face) E0.05 Silver (inner face) E0.03 |
| Material thermal resistance | ASTM C518 as part of AS/NZS 4859.1:2002/Amdt.1 | R _m 0.10 Performa 4.0 XHD R _m 0.20 Performa 8.0 XHD |
| Duty | Table 1 – AS/NZS 4200.1:1994 | Extra heavy duty |
| Vapour barrier | ASTM E96 | Medium |
| Water barrier | AS/NZS 4201.4:1994 | High |
| Absorbency | AS/NZS 4201.6:1994 | Unclassified |
| Shrinkage | AS/NZS 4201.3:1994 | <0.5% |
| Resistance to dry delamination | AS/NZS 4201.1:1994 | Pass |
| Resistance to wet delamination | AS/NZS 4201.2:1994 | Pass |
| Surface corrosion | AS/NZS 4859.1:2002 | Pass |
| Flammability index | AS 1530.2 | Low (≤5) |
| Early fire hazard Indices Ignitability Spread of flame Heat evolved Smoke developed | AS/NZS 1530.3 AS/NZS 1530.3 AS/NZS 1530.3 AS/NZS 1530.3 AS/NZS 1530.3 | 0 0 0 0 2 |

VENTILATION & CONDENSATION

Roof space ventilation is recommended for use in conjunction with Polyair to improve summer heat flow performance and assist in the management of condensation in winter. Further information on condensation management can be found on the Bradford website and in cold climates the Enviroseal range of vapour permeable products should be considered to further reduce condensation risk. Information on ventilation can be found at edmonds.com.au

Polyair Performa XHD range

REFLECTIVE INSULATION (RATED AS REFLECTIVE INSULATION AND SARKING)

AS/NZS 4859.1:2002/amdt 1. Section 9 - Group 1 type reflective insulation product.

SPECIFICATION TABLE

| Bradford® polyair performa® xhd | THICKNESS (mm) | ROLL SIZE (m x mm) | m² PER ROLL (m²) | ROLL DIAMETER (mm) | ROLL WEIGHT (kg) | PRODUCT CODE |
|--|-------------------|-----------------------|---------------------|-----------------------|------------------------|--------------|
| Performa 4.0 XHD | 4 | 22.25 x 1350 | 30 | 410 | 13 | 152161 |
| Performa 4.0 XHD | 4 | 40 x 1350 | 54 | 560 | 19 | 152429 |
| Performa 8.0 XHD | 8 | 22.25 x 1350 | 30 | 520 | 16 | 152472 |

| ACCESSORIES | WIDTH (mm) | LENGTH (m) | GRADE | REFERENCE | PRODUCT CODE |
|----------------------------------|---------------|---------------|---------|-----------|--------------|
| Dainfayaad alumiiniyya fail tana | 48 | 50 | Premium | 493 | 17366 |
| Reinforced aluminium foil tape | 72 | 50 | Premium | 493 | 17369 |

AUSTRALIA'S LEADING INSULATION COMPANY BACKED BY AN AUSTRALIAN ICON

CSR Bradford has been leading the Australian insulation industry for over 80 years and now extends its comprehensive range of products with Polyair thermo reflective insulation.

CSR Bradford is backed by CSR Building Products Ltd, which is the name behind some of the market's most trusted and recognised building material brands such as Gyprock™ plasterboard, PGH™ bricks and pavers, Monier[™] roof tiles and Viridian[™] glass to name a few.

The strength of the CSR brand in the Australian market provides architects, builders and home owners with a high level of confidence in the building materials and systems that CSR supplies.

WANT TO KNOW MORE?

Visit reflectiveinsulation.com.au or call CSR Bradford on 1300 850 305



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the intended use and application.

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