Bradford™ thermoseal™

wallwrap XP

Boost the performance of your wall insulation

UNDERSTAND THE XP DIFFERENCE

When the building stud cavity is filled with wall batt insulation, conventional (single sided inward facing) wall wraps are no longer able to contribute an additional air-gap R-Value to the wall system. Thermoseal Wall Wrap XP overcomes this problem by using an outward facing patterned antiglare surface to allow you create a more energy efficient wall system by boosting the performance of your wall batt insulation.

CONVENTIONAL WALL WRAP WITH NO WALL BATT INSULATION

Conventional wall wrap installed with no wall insulation works by utilising the empty stud cavity (without wall insulation) to generate a reflective air-gap R-Value.

Full R-Value from Wall Wrap	R_T1.2 Summer

CONVENTIONAL WALL WRAP WITH R1.5 WALL BATT INSULATION

Conventional wall wrap installed with wall insulation can no longer contribute a reflective air-gap R-Value now the stud cavity is filled with insulation.

No R-Value from Wall Wrap, only the wall insulation	R_T2.0 Summer

WALL WRAP XP WITH R1.5 WALL BATT INSULATION

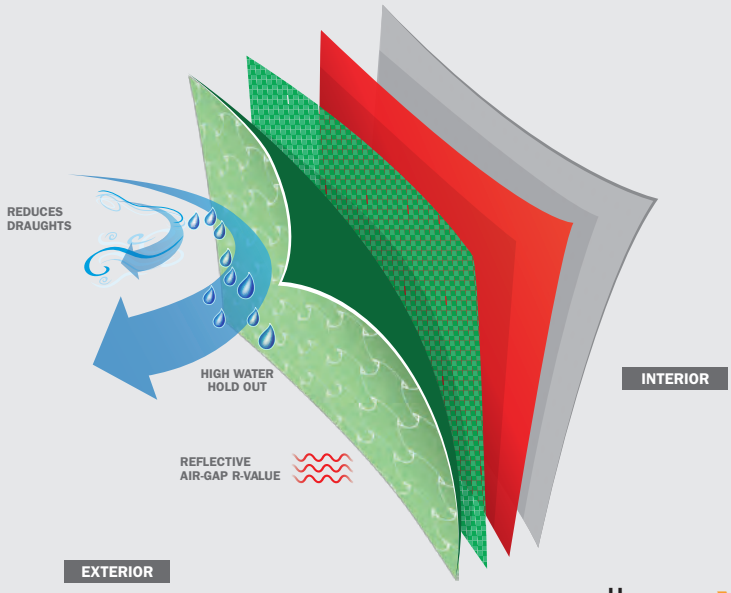
Wall Wrap XP installed with wall insulation contributes a reflective air-gap R-Value even with the stud cavity filled with insulation so you get the added benefits of both insulation systems.

Full R-Value from Wall Wrap XP plus the wall insulation	R_T2.5 Summer

KNOW THE BENEFITS

- **Provides an air-gap R-Value even when the wall insulation is in contact with the wall wrap** – conventional wall wraps only provide an R-Value contribution when the stud cavity is empty.
- **Allows reduction of wall insulation or incremental increase in wall insulation performance** – the tables on the next page highlight the significant performance gains you can achieve.
- **Wall Wrap XP is constructed from a lightweight polymer which is tough and complies to the BAL ember standard,** so you can use it in bush fire prone areas with confidence.

HOW WALL WRAP XP WORKS



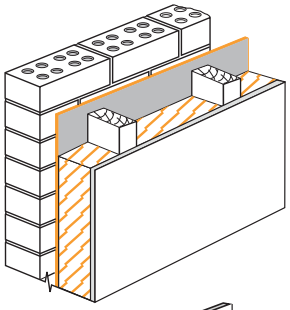
wallwrapXP

THERMAL PERFORMANCE

Wall Wrap XP typically provides up to an additional R_T0.5 contribution* to the wall system when compared to a conventional wall wrap with wall insulation batts positioned in the stud cavity.

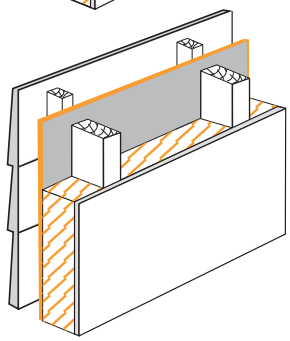
Simply select the relevant construction type and wall insulation from the table below, then compare the summer and winter performance improvement.

Ask your Energy Rater to calculate the improvement in energy efficiency of your home when you install wallwrap**XP**



BRICK VENEER

Construction: 40mm brick cavity – with Wall Wrap and wall batt insulation in a stud frame as noted below, plus 10mm Gyprock™ internal lining.



LIGHTWEIGHT CLAD

Construction: Fibre cement cladding with 25mm batten – Wall Wrap and wall batt insulation in a stud frame as noted below, plus 10mm Gyprock™ internal lining.

	SUMMER PERFORMANCE COMPARISON		WINTER PERFORMANCE COMPARISON	
R1.5 Wall Batt System (70mm Stud)	**Conventional**	**XP**	**Conventional**	**XP**
Brick Veneer with 40mm air gap	R_T = 2.0	**R_T = 2.5**	R_T = 2.2	**R_T = 2.7**
Lightweight Clad with 25mm batten	R_T = 1.8	**R_T = 2.3**	R_T = 2.0	**R_T = 2.5**
R2.0 Wall Batt System (90mm Stud)	**Conventional**	**XP**	**Conventional**	**XP**
Brick Veneer with 40mm air gap	R_T = 2.5	**R_T = 3.0**	R_T = 2.7	**R_T = 3.3**
Lightweight Clad with 25mm batten	R_T = 2.3	**R_T = 2.7**	R_T = 2.5	**R_T = 3.0**
R2.5 Wall Batt System (90mm Stud)	**Conventional**	**XP**	**Conventional**	**XP**
Brick Veneer with 40mm air gap	R_T = 3.0	**R_T = 3.5**	R_T = 3.2	**R_T = 3.8**
Lightweight Clad with 25mm batten	R_T = 2.8	**R_T = 3.2**	R_T = 3.1	**R_T = 3.5**
R2.7 Wall Batt System (90mm Stud)	**Conventional**	**XP**	**Conventional**	**XP**
Brick Veneer with 40mm air gap	R_T = 3.1	**R_T = 3.7**	R_T = 3.4	**R_T = 4.0**
Lightweight Clad with 25mm batten	R_T = 3.0	**R_T = 3.4**	R_T = 3.3	**R_T = 3.8**

Construction Details

This product complies with the requirements of AS/NZS4859.1 – stated thermal performance is the application's Total R–Value.

1. The contribution of the Wall Wrap to Total R-Value depends on installation and environmental conditions.
2. In wall applications, a minimum air-gap of 25mm is required for lightweight clad walls and 40mm for brick veneer walls on the outward facing antiglare surface to contribute to thermal performance.
3. The R-Value is calculated in a non-ventilated cavity in accordance with the BCA.
4. Temperature difference 6°C for heat flow out and 12°C for heat flow in as per requirement of AS/NZS4859.1
5. Emittance of the antiglare (outward) foil surface 0.09 or less – the inward surface is non-reflective.
6. Conventional wall wrap is defined as a single sided (inward facing) reflective foil laminate – emissivity <0.05.
7. No allowance has been made for cavities partially filled with batts that are thinner than the stud depth.

*See table for actual difference ranging from R0.4 to R0.6.

WALL WRAP XP & TAPE PRODUCT RANGE

PRODUCT	DUTY CLASSIFICATION	WIDTH (mm)	ROLL LENGTH (m)	M² PER ROLL	PRODUCT CODE
Thermoseal Wall Wrap XP	Medium	1350	30	40.5	125825
Thermoseal Wall Wrap XP	Medium	1350	60	81	124652

When required to join or seal Bradford Wall Wrap XP, it is recommended to use either Bradford 493 reinforced foil tape or an equivalent polymer tape. CSR Bradford recommends taping of joints, discontinuities and penetrations to improve the performance of this product and in all instances where a vapour barrier is required.

PRODUCT	WIDTH (mm)	ROLL LENGTH (m)	ITEM PER CARTON	PRODUCT CODE
493 Reinforced Foil Tape	48	50	24	17366
493 Reinforced Foil Tape	72	50	16	17369

SPECIFYING WALL WRAP XP

How to specify Bradford WALL WRAP XP for your home

The wall wrap shall be Bradford Wall Wrap XP with an outward facing patterned antiglare surface emissivity of ≤0.09 and tested in accordance with AS/NZS 4200.1:1994.

NEED TO KNOW MORE

For more information or advice on the best system for your property, contact CSR Bradford on **1300 850 305, bradfordenquiries@csr.com.au** or visit **www.bradfordinsulation.com.au**

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