MEMBRANES

VERRASHIELD
Watergate



Synthetic Wall Wrap

- Weathertight building membrane to keep your building dry, safe and thermally efficient
- NCC compliant.
- Wall wrap for both residential and commercial
- Suitable for Class 2 to Class 9 buildings constructed with timber and steel framing in accordance with the NCC 2022.
- Suitable for Class 2 to Class 9 buildings constructed with timber and steel framing in accordance with the BCA
- Can be used in conjunction with thermal breaks on steel framed buildings
- Fire retardant.

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PRODUCT DATA

Product Description

Verra VerraShield Watergate is specifically designed as a pliable building membrane behind exterior wall cladding. Made from synthetic materials, Verra VerraShield Watergate is fire retardant, water resistant and vapour permeable.

Verra VerraShield Watergate is a laminated pliable building membrane, designed to allow water vapour to pass through from inside the wall cavity, whilst water from the exterior is kept out.

The water vapour transfer rate of the product has been optimised to minimise condensation risk in homes without compromising its primary water barrier properties. Its unique construction allows for easier installation, while maintaining performance qualities.

The product is simply fixed to timber framing using construction staples and is made to stretch around corners providing a tight fit and reducing the risk of staple tear. It will provide temporary weather protection during construction.

Product Code	Width	Length	Coverage
100000074465	1370mm	36.5m	50m2*
100000074466	2740mm	30m	82m2*
100000077947	1500mm	30m	45m2*

** Note: m2 is the roll size. For actual coverage, allow for laps and joins.*

Scope of Use

Verra VerraShield Watergate can be used as a wall wrap on both residential and commercial buildings within the following scope:

- Class 1 and Class 10 buildings; and
- Class 2 to Class 9 buildings subject to specific weathertightness design; and
- Constructed with timber and steel framing
- in accordance with the BCA; and
- With absorbent (e.g. timber, brick or fibre cement) or non-absorbent wall claddings (e.g. metal or plastic) directly fixed to framing; or installed over an 18 mm minimum drained cavity; and
- With masonry veneer in accordance with BCA; and
- Situated in non-cyclonic wind zones up to, and including N3.
- Is suitable to be used in conjunction with thermal breaks on steel framed buildings.

General

- Fire retardant.
- Unaffected by LOSP or other solvent based treated timber. However, LOSP or other solvent based treated timber must have sufficient time for the solvent to flash off in a well ventilated area. Recommended minimum 7 days.

Limitations

- Must not be used as a roof sarking.
- Verra VerraShield Watergate is not designed to withstand prolonged exposure to the weather elements. The exterior wall cladding should be installed within 60 days.
- Areas that are damaged should be repaired or replaced prior to the installation of the exterior cladding.
- Verra VerraShield Watergate is not a vapour barrier.

Compliance

When Verra VerraShield Watergate wall wrap is used, installed and maintained in accordance with the statements and conditions outlined in Verra Insulation literature, the product will contribute to meeting the following provisions of the NCC:

- **NCC 2022 Volume 1**
  - Part F3P1 – Weatherproofing
  - Part F8P1 – Condensation and water vapour management Part G5P1 – Bushfire resistance
- **NCC 2022 Volume 2**
  - Part H2P2 – Weatherproofing
  - Part H4P7 – Condensation and water vapour management Part H7P5 – Buildings in bushfire prone areas

Flammability

Verra VerraShield Watergate has the following properties and classification for flammability:

- < 1 mm thickness
- Flammability Index <5 (AS 1530.2:1993)
- Flammability Index Classification: Low (AS/NZS4200.1:2017)
- Complies with NCC Clause C2D10(6)(f)

Durability

Verra VerraShield Watergate is expected to have a serviceable life equal to that of the wall cladding provided it is:

- Not damaged.
- Installed in accordance with instruction guide.
- Not left exposed to the weather for more than 60 days prior to exterior wall cladding installation, and any areas that are damaged are repaired or replaced.
- Installed strictly in accordance with AS/NZS 4200.2:2017 (pliable building membranes and underlays – part 2: installation), in addition to the Verra installation guide.
- Compatible with cladding system used.*

** Note: Specifiers and product user must test for wall cladding system compatibility with the membrane before installation.*

INSTALLATION INSTRUCTIONS

Application Method

- Verra VerraShield Watergate membrane must be fixed with printed side facing the exterior.
- The membrane is applied to all exterior walls from below bearers to the top plate. Extend 35 mm below bottom wall plate or bearer. Always run the membrane horizontally.

Note: Strictly follow standard AS 4200.2:2017 (Pliable building membranes and underlays – part 2: installation).

- **Timber Framing:** Fix securely to the frame with fasteners such as galvanised 6-8 mm staples or 20 mm large head galvanised clouts at 300 mm centres horizontally and vertically. Ensure Verra VerraShield Watergate is pulled taut before fastening.
- **Steel Framing:** Ensure frame is free from oil, dust and dirt. Fix securely using a construction grade double-sided tape or adhesive.

Note: Check adhesive compatibility with Verra VerraShield Watergate and the steel framing materials before use.

- **If using a tape:** Apply double-sided tape onto steel frame studs and only peel off the forward-facing liner once the membrane is ready to be installed. When ready, peel off approximately 2 m of tape liner at a time and press the membrane onto tape. Ensure the membrane is taut.

Note: The double-sided tape is to temporarily hold the membrane in place until the batten and/or cladding is installed. The screws used to fix the batten or cladding are the permanent fixings for Verra VerraShield Watergate.

- A minimum 150 mm lap (untaped) or 50 mm lap (taped) is required at joins, and all vertical laps must be made over studs. Have the upper sheets lapped over the lower sheets to ensure that direction of laps will allow water to be shed to outside of the membrane.
- Only when windows, doors or other penetrations are ready for installation, do you slit the membrane. The Watergate Plus shall be cut and dressed to achieve the desired function of the membrane in accordance with AS/NZS 4200.2:2017. Kingspan Thermakraft Aluband and Kingspan Thermakraft Thermaflash window flashing tapes are recommended as the window flashing system as it provides a secondary weather resistant barrier.
- Repair small tears with any Kingspan Thermakraft window flashing tape or Kingspan Thermakraft White General Purpose joining tape. Larger damaged areas can be repaired by covering with new material with minimum 150mm lapping and then taping. For best practice, these tapes can also be used for taping joins and for taping around other penetrations.
- For masonry veneer and cladding over cavity: When used in conjunction with bulk insulation installed in the framed wall cavity and a wall cladding installed over a cavity, the designer and installer must allow for adequate restraint to prevent the insulation/membrane from bulging into the drainage cavity. Reference should be made to AS 3999:2015 (Bulk Thermal Insulation – Installation) and the relevant cladding supplier's requirements.
- When used behind masonry veneer cladding, the brick ties must be fixed to the face of the stud only.
- During windy conditions, strapping can be used to ensure the membrane does not blow off.

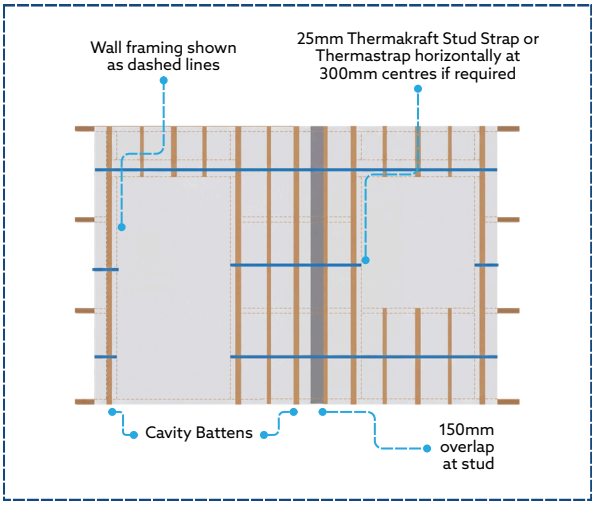


Figure 1.



Figure 2. Fix Verra VerraShield Watergate securely to the frame.



Figure 3. On arrival of doors and windows, cut the membrane at each opening on a 45° angle away from each corner. Pull the membrane flaps inside and fasten to the inside of frame.

Application Tips

Verra VerraShield Watergate is unaffected by LOSP or other solvent based treated timber. However, LOSP or other solvent based treated timber must have sufficient time for the solvent chemical to flash off in a well ventilated area. Recommended minimum 7 days.

Verra VerraShield Watergate is not designed to withstand prolonged exposure to the weather elements. The exterior wall cladding should be installed within 60 days.

PRODUCT INFORMATION

Properties AS/NZS 4200.1:2017	Property Performance	Classification
Resistance to Dry Delamination - AS/NZS 4201.1:1994	Pass	Not Applicable
Resistance to Wet Delamination - AS/NZS 4201.2:1994	Pass	Not Applicable
Folding Endurance (machine direction) - AS 1301.423:2008	⩾ 2.00	Not Applicable
Folding Endurance - AS/NZS 1301.423:2008	⩾ 1.70	Not Applicable
Surface Water Absorbency AS/NZS 4201.6:1994	⩾ 100 g/m2	High
Water Vapour Permeance ASTM E96 Method B	⩾ 1.1403 µg/N.s	Class 4 - Vapour Permeable
Resistance to Water Penetration AS/NZS 4201.4:1994	⩾ 100 mm	High
Edge Tear Resistance Tappi T470, AS/NZS 4200.1:2017	⩾ 45 N	Light Wall
Burst Strength AS 2001.2.19:1998	⩾ 200 N	Light Wall
Flammability Index AS 1530.2:1993	⩽ 5	Low
Air Resistance ISO 5636/5-1986	⩾ 0.1 MN.s/m3	Air Barrier
Emittance	0.90/0.90	NN (Non-reflective)
Electrical Conductivity AS/NZS 3100:2017	⩾ 10 MΩ	Non-Conductive

Handling and Storage

Verra VerraShield Watergate membrane must be handled with care to prevent damage such as tearing and roll deformation. Due to the width of the product, care should be taken when installing in windy conditions.

The product must be stored under cover well away from direct moisture, rainfall contact and sunlight (UV). Care should be taken not to stack other materials on top of the product.

Product Warranty

Standard Verra Insulation Warranty applies. Refer to VerraShield Insulation Warranty Statement for further details. This is available online at **verrashield.com.au** or call **1300 VERRA SHIELD**.

CONTACT DETAILS

DISTRIBUTOR

Verra Pty Ltd

Address: 44/119 Corio Quay Rd
North Shore, VIC 3214
Australia

Phone: 1300 93 83 68
Email: info@verra.au
Web: www.verrashield.com.au

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