



Marshall
Waterproofing
Professional Solutions

SPECIFICATION
FOR
TEKTON WEATHERIZATION
SYSTEM

BRANZ Appraisal Certificate # 621 (2008)

www.mwnz.com



TEKTON WEATHERIZATION SYSTEM SPECIFICATION

PRODUCT DESCRIPTION

The Tekton Weatherization System consists of Tekton Building Wrap and Tekton Seam Tape together with Protecto Wrap One Piece Sill Tape or The Protecto Wrap Sill System.

The Tekton weatherization System is used behind wall claddings to form a secondary weather resistant barrier for timber and steel framed buildings.

The Tekton Building Wrap is fixed directly to the outside of the framing. The building wrap over the openings is then cut and fixed to the inside face of the framing. Tekton Seam Tape is applied over the seams and Protecto Wrap One Piece Sill Tape or The Protecto Wrap Sill System installed around the openings.

- **Tekton Building Wrap** is a synthetic breather-type building wrap for use as a wall wrap and air barrier.
- **Tekton Seam Tape** is a white polypropylene film coated with a cold weather acrylic adhesive. When applied over the seams of the installed building wrap it results in the continuity of the building wrap and assists in creating an effective drainage plane. Tekton Seam Tape can also be used to repair small rips, punctures or tears in the building wrap material.
- **Protecto Wrap One Piece Sill Tape** is a polyethylene faced, modified SBS rubberized asphalt, self adhesive membrane. One Piece Sill tape is a one component secondary flashing system for 100mm (nominal) deep openings in timber and steel framing.
- **Protecto Wrap Protecto Sill System** combines Protecto Wrap Detail tape, Sill Tape and Tak Primer/Adhesive to form a secondary flashing system around 100mm (nominal) and 150mm (nominal) deep openings in timber and steel framing.

FEATURES /BENEFITS

TEKTON WEATHERIZATION SYSTEM

- A system that combines a range of respected products to form a secure construction envelope.
- Highly compatible product integration.
- A fully BRANZ appraised weatherization system.
- Can be exposed to UV and weather for up to 60 days.
- A system that combines superior strength, water holdout and flexibility with ease of installation.
- Meets the requirements of the New Zealand Building Code (NZBC) Clause B2 Durability and Clause E2 External Moisture.

TEKTON BUILDING WRAP

- Tekton Building wrap can be used in all wind zones up to and including very high.
- Tekton Building Wrap is fire retardant with a zero flammability index and can be used without restriction on all buildings.
- Tekton Building Wrap can be installed as an air barrier to walls that are not lined, such as gable ends.
- Tekton Building Wrap has superior water hold out - keeping framing drier while permanent cladding is installed.
- Tekton Building Wrap has 50 year durability.
- Tekton Building Wrap can be left exposed for up to 60 days.
- Tekton Building Wrap has optimal surfactant resistance (will not lose integrity if exposed to soaps, detergents and cleaning chemicals).
- Tekton Building Wrap is Branz appraised # 548 (2007)

TEKTON WEATHERIZATION



FEATURES /BENEFITS (Continued)

TEKTON SEAM TAPE

- High adhesion and tensile strength.
- Wide temperature application range.
- 60 Days UV exposure rating.
- Maximizes energy efficiency by sealing all joints.
- Improves air tightness and contributes to a secondary line of defence against exterior moisture penetration.

PROTECTO WRAP ONE PIECE SILL TAPE (OPTION 1)

- Requires no adhesives or fixings to hold in place.
- The One Piece Sill Tape can be used on all accepted building wraps including bituminous paper.
- The tape can be overlapped by 100mm to join to another roll. There is no wastage.
- The One Piece Sill is BRANZ appraised # 591 (2008)

PROTECTO WRAP SILL SYSTEM (OPTION 2)

- BRANZ Appraised as a flexible flashing system for use around openings in timber and steel framed buildings.
- Zero waste as tapes can be joined by overlapping 100mm.
- A versatile and flexible system that can be used on bevelled sills, variable jamb angles and to seal around penetrations in building wrap.
- Can be used on all accepted building wraps including bituminous paper.
- Available in 150mm and 200mm wide rolls.

DURABILITY

Provided the system is not exposed to the weather or Ultra-violet light for more than 60 days the Tekton Weatherization System will be durable and serviceable for at least 15 years (compatible with that of the joinery). Tekton Building Wrap meets the durability requirements of NZBC B2.3.1(a), 50 years and B2.3.1(b), 15 years.

SAFETY PRECAUTIONS

The materials must be kept away from direct exposure to heat and flames. Extra precautions must be taken when using the Protecto Tak Primer/Adhesive in areas where there is insufficient ventilation. Do not breathe the fumes and avoid skin contact.

SHELF LIFE

The products have a recommended shelf life of 2 years from date of manufacture.

STORAGE

Store all materials under cover, in clean dry conditions and away from direct exposure to sunlight. Do not remove the tapes from the carton until ready to use and always replace in the carton for storage.

SURFACE PREPARATION

Studs must be provided at a maximum of 600mm centres. Nogs must be fitted flush between the studs at a maximum of 1200mm centres. The framing must be free from any sharp protrusions that may damage the wrap.

Where cavity battens are installed at greater than 450 mm centres, the wrap must be supported between the battens to prevent the wrap bulging into the cavity space when insulation is installed.

TEKTON WEATHERIZATION

INSTALLATION

TEKTON BUILDING WRAP

The branded side of the wrap must face away from the framing. The wrap must run horizontally and extend from the upper side of the top plate to the underside of the bearers or wall plates supporting ground floor joists, or below bottom plates on concrete slabs.

Horizontal laps must be no less than 75mm with the direction of the lap ensuring that water is shed to the outside.

End laps must be made over framing and be no less than 150mm wide.

Fix the wrap into place using 6-8mm zinc plated staples, hot dip galvanised large head clouts, tek screws or proprietary wrap fixings.

Tekton Building Wrap can be added as a second layer over head flashings as per E2/AS1 or the headflashing can be sealed to the wrap using Protecto Wrap Head Flashing Tape.

When fixing wrap in windy conditions, care must be taken due to the large sail area created by the roll widths.

- Position the roll of Tekton Building Wrap against the framing with a short length of wrap free of the roll.
- Align the guide marks printed on the Tekton Building Wrap with visible studs and nail /staple to the framing
- Unroll the wrap across the framing and fix to all framing members at a maximum of 300mm centres.
- Keep the wrap straight and taut over the framing.
- The wrap should be run over any openings and these should be left covered until the windows and doors are ready to be installed.

To form the openings cut the wrap at a 45 degree diagonal in from each corner. Fold and staple the wrap to the inside of the framed opening. Excess wrap can be trimmed to finish flush with the internal face of the framing.

TEKTON SEAM TAPE

Apply Tekton Seam tape to all horizontal and vertical building wrap lap joints. The lap joint should sit halfway under the tape width. Press all tape firmly into position to enhance adhesion.

The Tekton Seam Tape can also be used to repair small rips, punctures or tears in the building wrap material. For bigger repairs overlap the area with new building wrap and tape into place. The overlapping material must extend at least 150mm beyond the damaged area.

PROTECTO WRAP ONE PIECE SILL TAPE (OPTION 1)

- Measure and mark 150mm up from the LHS bottom corner of the opening .
- Measure the sill length.
- Measure and cut a length of One Piece Sill Tape 300mm longer than the sill length.
- Roll up the cut length with the branded face to the inside of the roll. Peel back 50 mm of the backing paper to expose the black adhesive.
- Align the Protecto Wrap One Piece Sill tape with the 150mm mark on the jamb and flush with the inside edge of the opening. Apply the tape down the frame and into the corner.

NOTE: The divided side of the tape must face to the outside of the opening.

- When the sill jamb junction is reached ensure the tape is pressed firmly into the corner.
- Continue removing the backing paper and sticking the One Piece Sill Tape across the length of the sill and up the other jamb. Keep the tape flush with the inside edge of the opening.
- Fold the upper front piece of the branded flap back into the opening to expose the lower section of the combination tape.

INSTALLATION (CONTINUED)

PROTECTO WRAP ONE PIECE SILL TAPE (OPTION 1)

- Starting at one end, remove the release film and fold the flexible membrane onto the face of the opening. (Do not overstretch the membrane)

NOTE: For ease of installation, adhere the middle and ends of the membrane onto the face of the opening before removing the release film.

- Fold the branded flap forward and cut at the corners.
- Fold the branded flap over the top of the exposed membrane.

TOP CORNERS

- Cut a 300mm length of One Piece Sill Tape
- Remove the backing paper and fold the tape in half, keeping the adhesive membrane to the outside of the fold.
- Position the tape into the corner. Adhere the tape down the side, then across the top of the opening. The tape must be pressed firmly into the corner

NOTE: The divided side of the tape must face to the outside of the opening.

- Fold the branded flap back into the opening to expose the lower section of the combination tape.
- Remove the release film and fold the flexible membrane onto the face of the opening. (Do not overstretch the membrane)

NOTE: For ease of installation adhere the ends of the membrane onto the face of the opening before removing the release film.

- Fold the branded flap forward and cut at the corners.
- Fold the branded flap over the top of the exposed membrane.

NOTE: When correctly installed to the top corners, the tape should extend 150mm down the jamb and 150mm across the lintel and be folded 50mm approx. out onto the face of the opening.

HEAD FLASHING

For the taping of head flashings use Protecto Wrap Head Flashing Tape with Tak Primer.

After installation of the One Piece Sill Tape firmly smooth all tape to ensure maximum adhesion.

Adhesion increases after the tape has been in place for a period of time.

PROTECTO WRAP SILL SYSTEM (OPTION 2)

PRIMING

Ensure all surfaces are clean and dry. Spray a light film of Protecto Tak Primer/Adhesive to all surfaces that are to receive the Sill System tapes. The spray is coloured light blue for easy identification. Allow the Tak Spray sufficient time to cure. The spray should not pull away from the surface when touched. The curing time will vary depending on the temperature. The spray can be left uncovered for a reasonable length of time, however the tapes should be applied soon after application of the Tak Spray to avoid contamination of the prepared surface.

DETAIL TAPE

Detail Tape must be installed to all corners.

AFTER PRIMING

- Cut a 300mm length of Detail Tape.
- Remove the backing paper and fold the length in half with the exposed membrane to the outside.
- Position into the corner and smooth the first half of the tape onto the jamb. Keep the tape flush with the inside edge of the framing.
- Fold the remaining 150mm of tape across the lintel or sill and press firmly into place, particularly into the corner junction.
- Pinch the corner of the tape and pull away to free the corner of the release film.
- Remove the release film.
- Fan your fingers across the surface of the tape and using your thumb take hold of each direction of tape

INSTALLATION (CONTINUED)

DETAIL TAPE

- Gently pull the tape forward and around onto the face of the opening.
- Smooth the tape firmly into place to enhance adhesion.

Do not overstretch the tape. The corner will form as the tape is folded onto the face of opening.

Do not allow the detail tape to come in contact with itself.

This process is repeated for all corners of the opening.

For the top corners the installation is now complete.

PROTECTO WRAP SILL SYSTEM (OPTION 2)

SILL TAPE

Install Sill Tape in separate pieces across the sill and 300mm up the jambs.

Sill Installation

AFTER PRIMING

- Cut a length of Sill Tape slightly shorter than the length of the sill.
- Roll up the length of Sill Tape keeping the backing paper to the outside of the roll.
- Peel back 100mm of backing paper.
- Align the tape with the inside edge of the framing, keeping the overhang to the outside.
- Press the exposed end of the tape into the sill - jamb junction, adhering the Sill Tape to the top of the already installed Detail Tape.
- Continue removing the backing paper and adhering the Sill Tape along the entire length of the sill.
- Starting in the centre of the tape, fold the overhang of Sill Tape onto the face of the opening.

Jamb Installation

- Cut a 300mm length of Sill tape.
- Remove the backing paper.

- Align the length of Sill Tape with the inside edge of the framing and starting at the jamb - sill junction, smooth the tape onto the jamb.
- Fold the overhang of Sill Tape onto the face of the opening.

Smooth all tape firmly into place to enhance adhesion.

HEAD FLASHING TAPE

To fit the head flashing do not cut the building wrap but fix the head flashing directly over the top of the building wrap.

AFTER PRIMING

- Cut a length of Head Flashing Tape 100mm longer than the head flashing.
- Begin applying the Head Flashing Tape 50mm from the end of the installed head flashing. Apply the tape so that it adheres 25mm onto the head flashing and 25mm onto the building wrap.

The Head Flashing Tape should run past each end of the head flashing by 50mm.

Smooth all tape firmly into place to enhance adhesion.

REPAIRS

Should air become trapped under the tapes at any stage of installation, smooth the trapped air to the outside of the tape.

If minor damage occurs then another piece of tape can be used for repair as long as it extends at least 100mm beyond the damaged area. If the damage is more than minor then the installed tape must be replaced.

WARRANTY

All products used in the Tekton Weatherization System are warranted to be free of defect in manufacture for a period of 15 years. This warranty is limited to replacement of the products only. Marshall Waterproofing NZ/AUS Ltd (the distributor) is not liable for incorrect installation or any accidental or wilful damage to the product.