

# PROTECTO SILL SYSTEM SPECIFICATION

## PRODUCT DESCRIPTION

The Protecto Wrap Protecto Sill System combines Protecto Wrap Detail Tape, Sill Tape and Tak Primer/Adhesive to form a flexible flashing around openings in timber and steel framed buildings.

The Tak Primer /Adhesive is applied to provide superior adhesion for the tapes. The Detail Tape is moulded into the corners of the framing opening .The Sill tape is then applied and folded out onto to the face of the opening. Head Flashing tape is used at the joinery heads to seal the flashing onto the wall underlay.

- Protecto Tak – a light blue spray on primer/adhesive used to prepare the surface for the application of the tapes. Available in a 369gm can.
- Detail Tape – a 1mm thick highly conformable tape that can be stretched and moulded to any shape. Available in 150mm wide x 15m long rolls.
- Sill Tape – a .5mm thick polyethylene backed asphalt adhesive tape.

## STORAGE

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

## FEATURES /BENEFITS

- A true flexible flashing system as specified by WANZWIS, E2/AS1 and the New Zealand Building Code.
- 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 wall underlay.
- Can be used on all accepted wall underlays including bituminous paper.
- **Specified for use with RAB systems.** Install to RAB manufacturers specifications.

## DURABILITY

On the basis that the exposure to the weather does not exceed 90 days the Protecto Sill System can expect to have a serviceable life equal to that of the cladding.

When used as a waterproofing tape over the joins in RAB board the exposure can be 90 days.

## 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 materials have a recommended shelf life of 1 year.

## **SURFACE PREPARATION**

The surface to receive Protecto Tape must be clean, dry and free of any foreign matter that may adversely affect adhesion. It is recommended that the tapes be installed between 10°C and 32°C.

When the Protecto Wrap Sill system is used in conjunction with LOSP treated timber, the timber must be allowed to breathe for a minimum of 7 days prior to application.

The wall underlay must extend over the opening and be cut on a 45° angle away from each corner. The flaps are folded into the opening and secured to the interior face of the framing.

## **INSTALLATION**

### **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 250mm 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 125mm 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
- 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.***

### **SILL TAPE**

Install Sill Tape in separate pieces across the sill and 200mm 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.

## **SILL TAPE (Continued)**

### **Jamb Installation**

- Cut a 200mm 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 wall underlay but fix the head flashing directly over the top of the wall underlay.**

#### **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 40mm onto the head flashing and 35mm onto the wall underlay.

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

***Smooth the 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**

The materials used in the Protecto Sill System are warranted free of defect in manufacture for a period of 15 years. This warranty is limited to the replacement of the product only.

## **NOTE**

Some sealants can cause damage to the tapes. Please check the compatibility with the sealant manufacturer before using any sealant that may contact the tapes.

**\*The building industry typically uses bitumen containing sill wraps for doors and windows. The NZBC code dictates that a sealant conforming to ISO 11600 Group F Class 25LM is to be used as the window Joint sealant. Sealants that conform to the ISO standard are NOT compatible with bitumen containing sill wraps and degradation of the sealant may occur. Even sill wraps that have a polyethylene protective film are considered as incompatible as long-term isolation of the materials is not guaranteed.**

**In order to ensure a long-term seal that will meet NZBC requirements an impervious aluminium tape Danko TD830 has to be applied to the sill Tapes to provide a barrier between the tapes and the Bostik Seal n Flex1.**