

# TRADE – SILL SPECIFICATION

## TIMBER / STEEL FRAMING

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### PRODUCT DESCRIPTION

**TRADE-SILL** - has been developed as a secondary water ingress protection system for 100mm, 150mm & 200mm (nominal) deep window and door openings in timber and steel framed building in conjunction with flexible wall underlays..

**PROTECTO TAK SPRAY** – is a spray adhesive to be used with Trade Sill Tape to assist with adhesion. Protecto Tak Spray has a blue colourant for easy identification.

**TRADE –SILL** is a self-adhering membrane composed of a tough cross laminated high density Polyethylene surface coated on one side with a layer of recycled butyl hybrid adhesive. TRADE-SILL must not be considered as a primary flashing.

**TRADE-SILL** is covered on the underside by a paper backing and the upper face by white polyethylene sheeting. The tape is 0.5mm thick and is supplied in rolls, 75mm, 150mm, 200mm & 250mm wide by 25m long. Also 150mm wide by 10m long.

### FEATURES AND BENEFITS

- **TRADE-SILL** is a one component secondary flashing system.
- **BRANZ Appraised** as a flexible flashing system on Timber and Steel framing.
- **TRADE-SILL** can be used on all accepted wall underlay's including bituminous paper.
- **TRADE-SILL** can be left exposed to Weather and UV for up to **90 days**.
- Laps can be formed with a 100mm overlap, reducing waste.

- Meets the requirements of the New Zealand Building Code (NZBC) Acceptable Solution E2/AS1, paragraph 9.1.5(b).

### SURFACE PREPARATION

The surface to receive Trade Sill 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 Trade Sill 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 over WALL UNDERLAY**

### **PRIMING**

Ensure all surfaces are clean and dry. Spray on Protecto Tak Spray to all surfaces that are to receive Trade Sill Tape. The primed surface should be tacky when touched and have a light blue colour. The curing time will vary depending on the temperature. If the surface loses its tack, re-apply the Tak Spray.

### **SILL AREA**

#### ***After Priming***

- Measure and mark 150mm up from the bottom corners of the opening.
- Measure the sill length.
- Measure and cut a length of TRADE-SILL 300mm longer than the sill length.
- Roll up the cut length with the white upper face to the inside of the roll. Peel back 50 mm of the backing paper to expose the black adhesive.
- Align the TRADE-SILL with the 150mm mark and flush with the inside edge of the opening. Apply the tape down the frame and into the corner.
- When the sill jamb junction is reached ensure the tape is pressed firmly into the corner.
- Continue removing the backing paper and sticking the TRADE-SILL across the length of the sill, tightly into the opposite corner and up the other jamb. Keep the tape flush with the inside edge of the opening and the overhang to the outside of the framing.
- At the corner and starting at the front edge of the tape overhang, carefully cut the tape back towards the framing stopping 3mm from the opening corner.
- Fold the overhang onto the face of the framing and smooth firmly into place.
- Cut two 50mm by 150mm or 200mm strips of TRADE-SILL, remove the backing paper. Adhere diagonally across each corner, overlapping the corner by 3mm to create a seal at the corner junction.

**Press the overlap tightly into the corner to form a tight bond between the tapes.**

### **TOP CORNERS**

#### ***After Priming***

- Cut 2 x 300mm lengths of TRADE-SILL.
- Remove the backing paper and fold the tape in half, keeping the adhesive side of the membrane to the outside of the fold.
- Position the tape into the corner, flush with the inside edge of the framed opening.
- Adhere the tape down the inside of the opening. Press the tape firmly into the corner junction then continue across the top of the opening.
- At the corner and starting at the front edge of the tape overhang, carefully cut the tape back towards the framing stopping approximately 3mm from the opening corner.
- Fold the overhang onto the face of the framing and smooth firmly into place.
- Cut two 50mm by 150mm or 200mm strips of tape, remove the backing paper. Adhere diagonally across each corner, overlapping the corner by 3mm to create a seal at the corner junction.

**Press the overlap tightly into the corner to form a tight bond between the tapes.**

***Smooth all tape firmly into place to maximize adhesion.***

### **HEAD FLASHING - TRADE-SILL 75mm**

**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 TRADE-SILL 75mm Flashing Tape 100mm longer than the head flashing.

Begin applying the Flashing Tape 50mm beyond 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 Flashing Tape should run past each end of the head flashing by 50mm.

***Smooth the tape firmly into place to enhance adhesion.***

### **RAB JOINT SEALING**

Marshall Innovations SUPER-STICK is recommended for RAB systems. Always check with RAB supplier for suitability.

### **REPAIRS**

TRADE-SILL can be repaired by covering with a second piece of tape that extends 50mm beyond the damaged area. Ensure the tape surface is clean and dry before overlaying.

Should air become trapped behind the membrane at any stage of the installation, roll the trapped air to the outside of the tape.

### **STORAGE**

Store all materials in a dry place at temperatures between 10° C and 32° C. Do not store in direct sunlight.

### **SHELF LIFE**

The product has a recommended shelf life of two years from date of manufacture.

### **SAFETY PRECAUTIONS**

Material safety data sheets are available on [www.mwnz.com](http://www.mwnz.com).

### **DURABILITY**

Provided it is not exposed to the weather or ultra-violet light for more than 90 days TRADE-SILL will be durable and serviceable for at least 15 years (compatible with that of the joinery).

### **WARRANTY**

The materials used in TRADE-SILL are warranted to be free of defects in manufacture for a period of 15 years. This warranty is limited to the replacement of the product only.

### **NOTE:**

The membrane may dis-colour some sealants. It is advisable to check with the sealant manufacturer to confirm the suitability of any sealant that could come in contact with the tape.

The building industry has historically used bitumen / butyl sill tapes for doors and windows. The NZBC code dictates that a sealant conforming to ISO11600 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 tapes and degradation of the sealant may occur. Even sill tapes 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.

Marshall Innovations recommend SUPER-STICK Building Tape where wet seals are specified to avoid issues with Plasticiser Migration. Call Marshall Innovations for further information. Ph. 0800 776 9727