



# SOLITEX MENTO®

## Application Guide

SOLITEX MENTO®  
1000



SOLITEX MENTO®  
3000



Weather Resistive Barrier for Weathertight Roof Systems

Highly durable, weathertight roofing system, for condensation protection and summer heat management in all roofing types





SOLITEX MENTO® 1000 / SOLITEX MENTO® 1000 connect, SOLITEX MENTO® 3000 / SOLITEX MENTO® 3000 connect, can be installed according to BRANZ Appraisal No. 876 and BRANZ Appraisal No. 855 respectively, or as per pro clima installation method outlined in the details below.

For more information on the market leading, comprehensive and transparent pro clima System Warranty please visit <https://proclima.co.nz/statements>.

## Basic Membrane Layering



1

### Preparing Roof Framing

Ensure all rafters/trusses are aligned and free from splinters. Mark where top edge of membrane will go to achieve suitable overlap for desired eave detail.



2

### Staple at Top Edge Within Overlap Line

Pull top edge taut and staple within the overlap zone to minimize staple holes exposed to potential water run-off.



3

### Triangulate and Fasten with Staples

After fixing at two extremity points along top edge, pull the membrane down taut at the center and fix with 2 - 3 staples at the center bottom position.



4

### Staple Bottom Corners

Pull taut and fix each bottom corner with 2 - 3 staples.



5

### Tape Staples

When not hidden under overlap joints staples are potential leaks. Use a patch of TESCON EXTORA® to seal the staples in this case. Apply pressure using the PRESSFIX tool.

### IMPORTANT

Calculate and mark where the top edge of the membrane will finish. This ensures you will have enough membrane overhang to complete your eave details as designed.

Ensuring a continuous membrane with minimal joints provides the best outcome.

## SYSTEM

Weather Resistive Barrier

Roof



## Overlap Connections Using SOLITEX MENTO® connect

## IMPORTANT

Vertical counter battens are important to achieve appropriate ventilation, drainage for condensate, and additional fixing of the membrane.

**6** Fix Counter Battens and Purlins

Fix counter battens to hold the first layer. The battens should finish 50 mm short of the overlap line to ensure they do not inhibit the connection.

**7** Minimum Counter Batten Height of 20 mm

Minimum counter batten height for drainage and ventilation shall be 20 mm. Taller batten height of  $\geq 45$  mm provides additional summer heat removal.

**8** Overlap SOLITEX MENTO®

The membrane shall be overlapped 150 mm. The white line represents the 150 mm overlap line and can be used as guidance to align successive layers.

**9a** Connections Using SOLITEX MENTO® connect

Remove both release papers and ensure the adhesive layers are fully connected and free from creases or wrinkles.



**TESCON EXTORA®**  
Pressure sensitive adhesive tape for overlaps and end laps in the SOLITEX MENTO® system.

**9b** Use PRESSFIX on SOLITEX MENTO® connect Joints

Apply pressure to create a strong connection.



Ensure membranes are not subject to grinding sparks.



**PRESSFIX** is a malleable plastic tool for applying pressure to pro clima adhesive TESCON® tapes to ensure long term durable bonding.



## Overlap Connections Using SOLITEX MENTO®



10

### Connections >15°

Apply TESCON EXTORA® 60 mm to the horizontal joints with 30 mm onto each side of the joint. Apply pressure with the PRESSFIX tool.



11a

### Slope < 15° DUPLEX

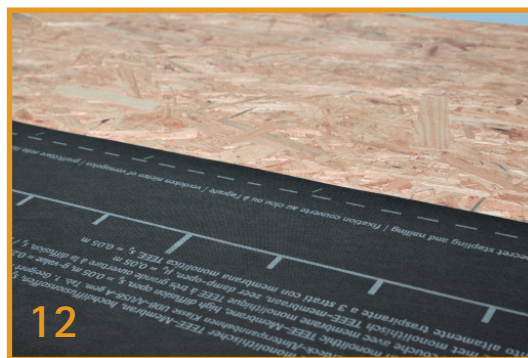
Apply DUPLEX double-sided tape 5 -10 mm away from the overlap line. Remove release paper to make the connection. Use the PRESSFIX tool to apply pressure.



11b

### Tape Overlap with TESCON EXTORA®

Tape overlap to create a weather resistant and continuous layer. Apply pressure with the PRESSFIX tool.



12

### Slope ≥ 5° - 10° Seal and Tape

At low slopes, solid sheathing is necessary to avoid ponding. The solid sheathing ensures an easy membrane installation.

## IMPORTANT

Roof Pitch >10° - 15°  
DUPLEX double sided tape is used to connect the overlap joints then over taped with TESCON EXTORA® and pressure applied with the PRESSFIX tool.

Roof pitches 15° or less, we recommend that SOLITEX MENTO® connect with the integrated sealing tape systems is used where possible.



DUPLEX is a double-sided adhesive tape for overlap connections.

## SYSTEM

Weather Resistive Barrier

Roof



## Counter Battens at Low Slope

## IMPORTANT

TESCON® NAIDECK sealing tape should be used at low slopes equal to or less than 10° and installed between the counter battens and the SOLITEX MENTO® membrane.

Compression of the TESCO® NAIDECK and optimum sealing is achieved when the battens are screw fixed.



TESCON® NAIDECK is a double-sided self-sealing tape designed to seal nail/screw penetrations in counter battens.



13a

**Apply TESCO® NAIDECK and Position Battens**

Remove backing paper from TESCO® NAIDECK and place the counter batten in position to align with the rafters or trusses underneath.



13b

**Fixing the Counter Battens**

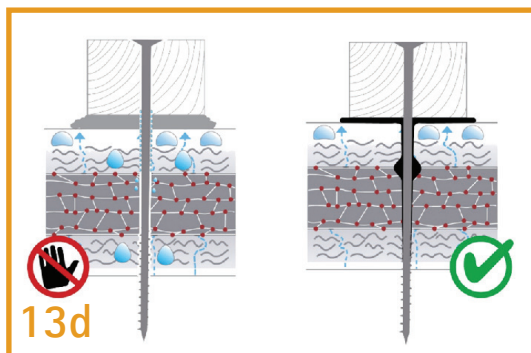
Fix the counter battens while ensuring pressure is applied for optimum sealing of the fixings.



13c

**TESCON® NAIDECK Self Sealing Product**

TESCON® NAIDECK is a butyl-based product which self-seals into nail and screw fixings.



13d

**Nail Sealing with TESCO® NAIDECK**



## Ridge Finishing Skillion/Cathedral



14a

### Align Membrane with Top of Ridge

The top course of SOLITEX MENTO® should finish near the top of the ridge. Cut off the SOLITEX MENTO® flush with the ridge apex if necessary.



14b

### Unventilated Skillion/Cathedral Rafters

In the case of fully insulated rafters, overlap the membranes min. 150 mm over the rafter and staple in place.



14c

### Seal the Overlap Using TESCOX EXTORA®

Overlap min. 150 mm over the opposite roof section and make connection using TESCOX EXTORA®. Apply pressure using the PRESSFIX tool.



14d

### Fix Counter Battens

If the roof pitch is lower than 15° follow steps 13a & 13b.



14e

### Purlin Location Must Allow for Ridge Ventilation

Place the ridge purlin either side of the ridge to allow for ventilation and fixing of ridge capping as per your specified architectural detail.



## Ridge Finishing Truss Roof – Ventilated Attic

### IMPORTANT

Pro Clima recommends ventilated ridges in truss roof structures where insulation placement is on the ceiling line, unless otherwise specifically designed by a qualified design professional.



#### 15a Finish Membrane 25 mm Below Apex

Cut the membrane at the ridge to ensure that the edge is clear of the apex by 25 mm. The total opening width shall be 50 mm.



#### 15b Fix Counter Battens to Meet at Apex

The counter battens are fixed to hold the membrane in place.



#### 15c Weather Capping Strip

Cut a strip of SOLITEX MENTO® min. 400 mm wide and fix over the ridge. The capping should be even on both sides with a minimum overlap of 150 mm.



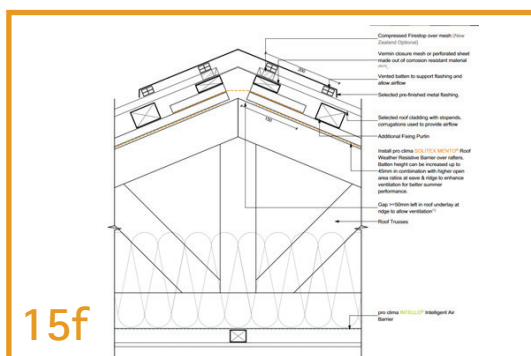
#### 15d Add Spacer Block

The spacer block is added to allow airflow under the ridge batten as in step 15e.



#### 15e Fix Battens and Ridge Batten

The ridge batten shall be fixed to the spacer block and the roof cladding finished as per architectural detail.



### 15f

#### Ventilated Ridge Assembly

<https://proclima.co.nz/construction-details-library/>



## Valley Detailing



16a

### Mark Position of Valley Membrane Layer

Mark a line on one side ensuring that the centre of the membrane will fall in centre of the valley.



16b

### Fix One Side of Valley Membrane Layer

Fix the edge of the the membrane in line with your markings. Staples should not be placed closer than 200 mm to the apex of the valley.



16c

### Fix the Opposite Side of the Membrane

Fix the membrane on the opposite side of the valley. Ensure a suitably taut installation without sagging.



16d

### Fix 200 mm Out from the Valley Bottom Line

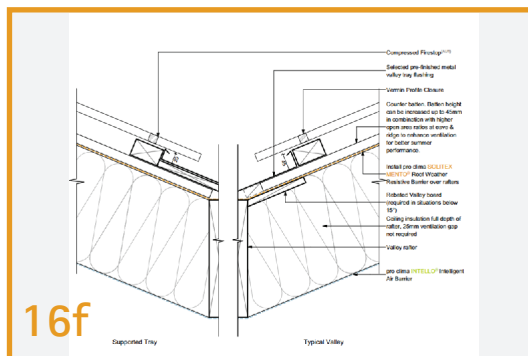
Ensure no staple fixings are made within 200 mm of the valley bottom line.



16e

### Cut Adjoining Membrane in Line with Valley

Cut adjoining membrane 100 mm up from the apex of the valley. This ensures the membrane overlaps cover all exposed staples.



16f

### Ventilated Valley Assembly

<https://proclima.co.nz/construction-details-library/>

### IMPORTANT

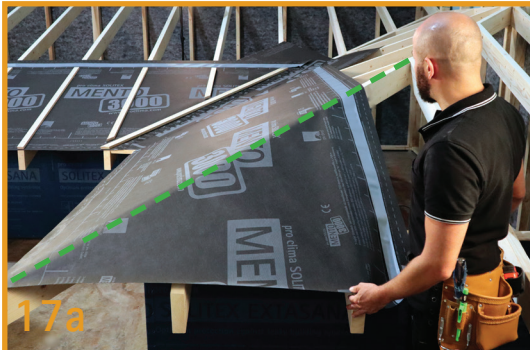
The exact marking of the membrane valley layer is important to achieve a taut valley installation without sags.

Any condensate or leaks funnel towards valleys and it is critical to ensure staples and joins are not made within 200 mm of the valley bottom line.





## Hip Detailing



17a

### Install First Side to Extend Over Hip

For the first run, extend it over the hip to the bottom of the rater/truss on the opposite side.



17b

### Install Second Side of Hip

When installing the run on the opposite side, ensure you achieve the required overlap of 150 mm.



17c

### Staple at the Overlap Near the Eave

Fold your first runs overlap down and over the hip, fixing, so it is taut.



17d

### Tape Overlap with TESCON EXTORA®

Tape the overlap. A taut install makes it easier. Apply pressure using the PRESSFIX tool.



17e

### Overlap Using MENTO® connect

Install the counter batten on the same day to ensure no damage from the wind and weather during the construction process.



17f

### Connect Walls to Roof Membrane

Junctions to walls need to have a 150 mm overlap from SOLITEX EXTASANA® onto SOLITEX MENTO® using TESCON EXTORA® & the PRESSFIX tool.

### IMPORTANT

DO NOT USE ANGLE GRINDERS near pro clima membranes as sparks can affect the weatherproofing performance.



### Recommendations

- It is recommended that the counter battens are installed immediately in accordance with the fixing recommendations in this guide.
- pro clima KAFLEX can be used for cable penetrations when necessary.
- pro clima ROFLEX can be used for pipe penetrations when necessary.
- SOLITEX MENTO® provides a level of weather protection prior to cladding it is designed to work in conjunction with the cladding systems to provide in service weathertightness.
- The system components TESCON® NAIDECK nail sealing tape, Duplex double-sided adhesive tape and TESCON EXTORA® for adhering overlaps or joints must be used in accordance with their application guide.
- The membrane must not be secured in areas where water collects to drain off (e.g. in valley bottoms).
- In the case of insulated attic ceilings, ridge ventilation should be provided in accordance with this guide. In addition, the eaves should be provided with permanent ventilation apertures.
- The recommendations in this guide use staples as a temporary fixing method to hold SOLITEX MENTO® as it is being applied to timber framed roof structures. Staple holes should be hidden in overlap joints where possible and stapling limited. Otherwise cover it with patches of TESCON EXTORA®.

### Certification

NZ



GLOBAL



Declare.

### Your local support

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