



SOLITEX MENTO®

Application Guide

SOLITEX MENTO®
PLUS



SOLITEX MENTO®
5000



SOLITEX MENTO®
ULTRA



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® 5000, SOLITEX MENTO® PLUS or SOLITEX MENTO® ULTRA can be installed according to AS 4200.2-2017 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 www.proclima.com.au/warranties.

Basic Membrane Layering



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.



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.



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.



Staple Bottom Corners

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



Tape Staples

When not hidden under overlap joints staples are potential leaks. Use a patch of TESCOX EXTORA® to seal the staples in this case.

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.

Continue to the next page for overlap connections and further information.

SYSTEM

Weather Resistive Barrier

Roof



Overlap Connections Using SOLITEX MENTO® connect

IMPORTANT

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

Purlins spacing should be made appropriate for the cladding type and also ensuring local work safe requirements are met when necessary.

**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 ≥ 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 even on a wet surface.



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®



Connections >15°

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



Slope >10° - 15° DUPLEX

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



Tape Overlap with TESCON EXTORA®

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



Slope ≥ 5° - 10° Seal and Tape

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



Apply ORCON® CLASSIC Bead Under the Overlap

If you are not using SOLITEX MENTO® connect apply a bead of ~ 5 mm ORCON® CLASSIC and place the top layer onto the bead.



Apply TESCON EXTORA® Using the PRESSFIX Tool

Seal the overlap with TESCON EXTORA® 60 mm tape. Apply pressure using the PRESSFIX tool.

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 Pitch ≥ 5° - 10°
Laid over a rigid substrate the overlap joints are sealed with ORCON® CLASSIC and over taped with TESCON EXTORA® and pressure applied with the PRESSFIX tool.



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



ORCON® CLASSIC is a durable sealing glue suitable for bonding all pro clima Products to any building material.

SYSTEM

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Counter Battens at Low Slope

IMPORTANT

TESCON® NAIDECK sealing strips must 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 strip 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

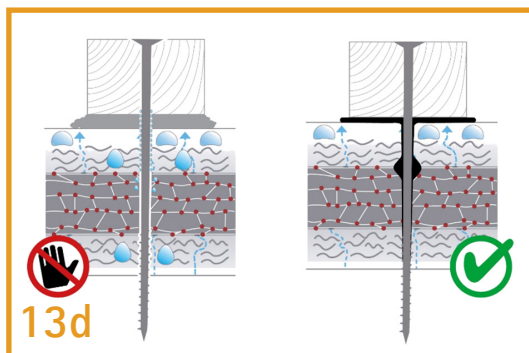
Fix the counter battens while ensuring pressure is applied for optimum sealing of the fixings.



13c

TESCON® NAIDECK Self Sealing Products

TESCON® NAIDECK and TESCO® NAIDECK mono patch are butyl-based products which self-seal into nail and screw fixings.



13d

Nail Sealing with TESCO® NAIDECK

13e

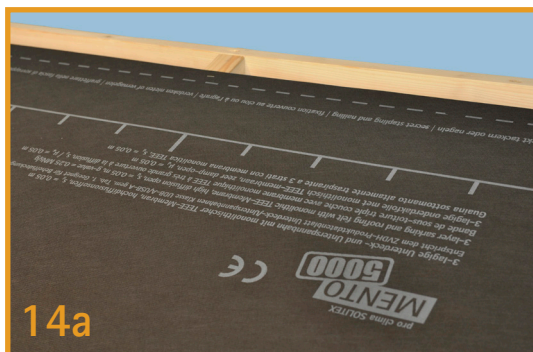
Check Roofing Guide

The requirements for the use of TESCO® NAIDECK are specified in the Roofing Guide.
<https://proclima.com.au/soliteX-mento-plus/>

Continue to the next page for ridge finishing skillion/cathedral and further information.



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 ridge and staple in place.



14c

Seal the Overlap Using TESCON EXTORA®

Overlap min. 150 mm over the opposite roof section and make connection using TESCON 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.



14f

Alternatively Seal with Wide TESCON EXTORA®

Alternatively, stick a wide strip of TESCON EXTORA® 100 mm or 150 mm onto the ridge.

SYSTEM

Weather Resistive Barrier

Roof



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.

**Finish Membrane 25 mm Below Apex**

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

**Fix Counter Battens to Meet at Apex**

The counter battens are fixed to hold the membrane in place. TESCON® NAIDECK may be used for increased safety and at low slopes.

**Add 400 mm Wide Weather Capping Strip**

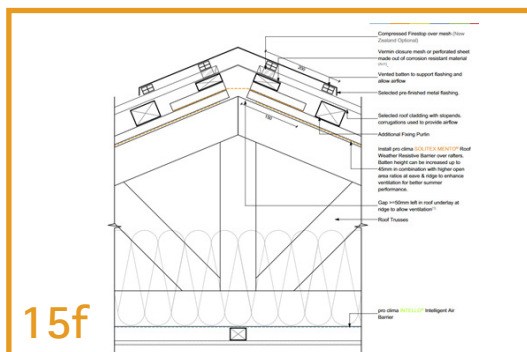
Cut a strip of SOLITEX MENTO® min. 400 mm wide and fix over the ridge using staples as required. The capping should be even on both side.

**Add Spacer Block**

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

**Ventilated Ridge Assembly**

www.proclima.com.au



Valley Detailing



16a

Mark Position of Valley Membrane Layer

Mark a line on both sides of the valley to the exact position where the valley layer will sit.



16b

Fix One Side of Valley Membrane Layer

Triangulate the membrane aligning the edge at your marking. Staples should not be placed closer than 200 mm to the apex of the valley.



16c

Fix the Other Side Using Triangulation Stapling

Fix the membrane on the opposite side of the valley to the mark. Ensure a suitably taut install without sag but allow uninhibited counter batten placement.



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

Fold the membrane into the valley and cut it 100 mm out the valley line. This ensures the membrane overlaps covering all exposed staples.



16f

Overlap Membrane Over the Valley Line

Overlap the membrane over the top of the valley piece (16e).

IMPORTANT

The exact marking of the membrane valley layer is important to achieve a taut valley piece without sags, but ensure it is not too taut as to accidentally inhibit the counter batten placement.

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.

SYSTEM

Weather Resistive Barrier

Roof



IMPORTANT

It is important to allow for drainage of water and condensate, as well as ventilation at the valleys. A 50 mm gap is left between the valley batten and the counter battens to allow for water and airflow.

**Tape the Valley Joint with TESCO EXTORA®**

Tape the overlap to the valley. Ensure there are no exposed staples within the valley bottom region. If so, tape over the staples with TESCO EXTORA®.

**Fix Valley Battens (When Required)**

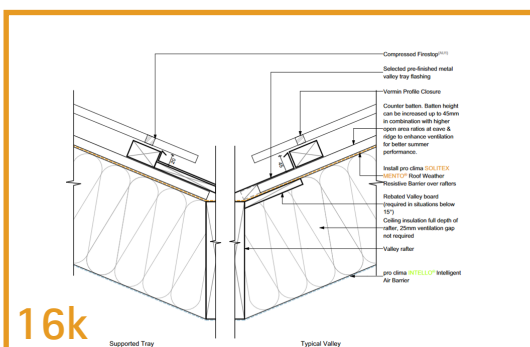
Fix the counter batten minimum 100 mm from the valley bottom line. The valley counter batten acts as support for the purlins.

**Reflect Batten Structure on Both Sides of Valley**

The batten configuration should be installed such that it is symmetrical on both sides of the valley.

**Valley Membrane Overlaps**

Move along with the next layer with a minimum 150 mm overlap to the lower layer and tape joint with TESCO EXTORA®.

**Ventilated Ridge Assembly**

www.proclima.com.au

Continue to the next page for hip detailing and further recommendations.



Hip Detailing



17a

Install First Side to Extend Over Hip

Run the membrane from one side to the hip to extend over to the end of the rafters or as necessary to complete eave detail.



17b

Install Second Side of Hip

Fold back first side. Finish second side on a rafter/truss to enable connection with first side. Use as many staples as needed, they will be covered later.



17c

Staple at the Overlap Near the Eave

Fix the membrane taut to allow taping. Vertical overlap should be at least 150 mm.



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 between 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 of the membranes.

When installing pro clima membranes, consider the necessary safety precautions and fall protections in your local jurisdiction.



Recommendations and requirements

- It is recommended that the roof cladding be installed as soon as possible after installing the membrane and close attention is paid to wind forecasts.
- If windy conditions on site are expected, it is recommended that counter batten fixings are placed 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, even on a pitch.
- Although 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.
- To protect the construction during the building phase SOLITEX MENTO® can be used as a temporary roof cover for up to 180 days when used with TESCON® NAIDECK to seal fixings.
- The system components TESCON® NAIDECK nail sealing tape, ORCON® CLASSIC joint adhesive and TESCON EXTORA® for sticking overlaps or joints must be used in accordance with this guide.
- Pro Clima does not recommend the install of SOLITEX MENTO® under 5° roof pitch as this can result in ponding.
- SOLITEX MENTO® membranes must be laid with the printed side facing the installer.
- The membranes are to be installed as an underlay or sarking membrane horizontally (parallel to the eave) in a taut manner with no sagging.
- When using SOLITEX MENTO® the spacing between the rafters is restricted to a maximum of 1 m.
- 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 minimum open area ratio of 200 cm²/m.
- 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®.
- SOLITEX MENTO®, TESCON EXTORA® and TESCON® NAIDECK form a continuous system. Any damage or tears should be patched with TESCON EXTORA®.

Certification

GLOBAL



Declare.*

* SOLITEX MENTO® 5000 and SOLITEX MENTO® PLUS only.

Your local support

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