SOLITEX® UM connect
Application Instructions

All in one - Vapor permeable airtight Roof-underlayment and Ventilation cavity system

Faster and safer construction of
metal roofs and panelized/shingled walls

pro clima®

Preparing the sheathing/substrate

Remove all nails, screws, splinters etct. hat could damage the membrane . Clean the sheating with a rag or use a broome or vacuum to remove (saw-) dust etc.
Make sure area is free of silicones and grease.

Unroll first membrane section

Roll out first layer of membrane, starting at the drip edge.. 3d-mesh facing up. Straigth and parallel to the bottom edge. Leave at least 2" (5cm) overlap to transition to vertical elements (dormers/walls) for later sealing of those junctions/interruptions.

Lining up membrane

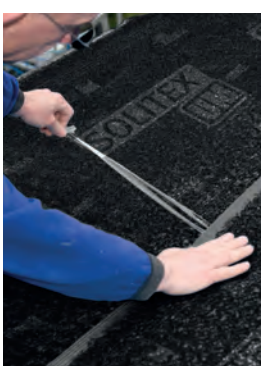
Line up membrane to bottom of roof/drip edge. Use markings 59" (1.50m) from edge to help make the top and bottom parallel. Stretch the membrane taut, without any wrinkles in both directions during applicaiton.

Mechanical attachement of membrane

Use galvanized stapled (T50) min. 3/8"(10mm) wide and 5/16" (8mm) legs every 4-6" along the top of the membrane - in the area that will be covered by the shiplap, above the ‚connect' zone for best protection against leaks.

Roll out next layer and overlap

Second layer is rolled out, straightened and shiplapped. The 3d mesh does not cover the overlap for easier application, as you can use the edge of the mesh as a guide to create the correct overlap.



"Connect" the overlap

Assure the overlap is dry and free of dust, silicones and grease. Verify adhesion in case of doubt.
Fold lapped membrane up, remove release papers and press down firmly in sections. Make sure to pressurize the entire joint and that it is free of tension and creases.

Pressurize the adhesive joint

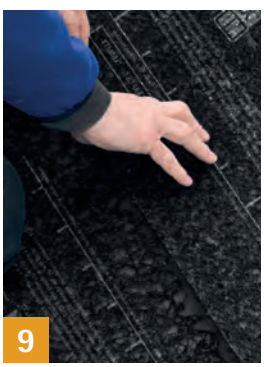
Make sure to pressurize the joint firmly. The force of the pressurisation will determine the ultimate strength of the bond, not the length of the pressurisation.

Vertical butt joint: remove 3d mesh

Pull back approximately 4" (10cm) of the 3d mesh.

Vertical butt joint: cut 3d mesh

Cut off approximately 2" (4-5 cm) of 3d mesh.
Put lower membrane down and staple in the overlap area..

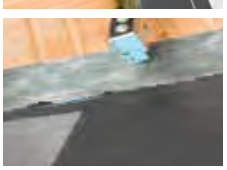


Horizontal joint: ridge

Cut of membrane+mesh on other side of ridge at edge of mesh of membrane on other pitch. Release 4" (10cm) of 3d mesh of upper membrane. Remove connect release paper on lower membrane, staple down upper ship-lapped membrane less then 1/2" from edge.

Tape joint of overlap

Fold released part of 3d mesh back and apply TESCON VANA to centered on overlap, working in sections. Covering all staples with tapeUse pro clima PRESSFIX to pressurize tape properly and easily. Saving time and prevent stress on your fingers



Valleys

Apply an un-interrupted layer of SOLITEX MENTO or UM (with mesh removed) in center of valley. Fold edges over 3" (7.5cm) at edge and staple sparingly 6" o.c. (15cm). No other staples are allowed in valleys - if needed use DUPLEX to secure bottom of membranes in valley area.

TESCON VANA
SOLID acrylic PSA tape for water-proof overs and vertical butt joints, connections etc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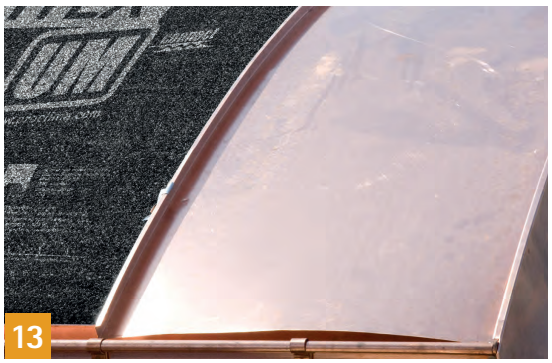
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Gutter/drip edge – other interruptions

Use DUPLEX double sided tape or TESCON VANA to connect the membrane to the drip edge. Use TESCON VANA at all verical interruptions (dormers, walls etc).

Use other pro clima system products at pipes (ROFLEX), skylights (TESCON Profil/Profect) etc.

Recommendations and requirements

SOLITEX UM should be laid with the 3d mesh/printed side facing up. Can be applied in horizontal or vertical orientation over solid sheathing (OSB, Plywood, Woodfiberboards, exterior gypsum) as roofunderlayment or weather resistive barrier (WRB).
If used as temporary waterproof layer during constrution the horizontal application is required.
Stapling/mechanical fastening shouldn't be made in areas where water/condesate run off is concentrated (valleys, crickets, etc).

Applying roofing / cedar etc

Pnce all membrane joints and connections have been taped and sealed, the roof/siding of walls can be installed.

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In case of nail/screw penetrations in roof, use the nail sealing tape TESCON NAIDECK to safely protect these holes (for instance under standing seam clips) with this tape.

Temporary roof

Roof pitches need to be 3:12 (>14°) and higher for SOLITEX membrane to work as temporary roof. Lower pitched roofs can be protected down to 0.6:12 (3°) from back side condensation or accidential blown in rain/snow from vented ridges IF the roofing applied above it will waterproof (ie standing seam metal etc. no clay tiles or similar)

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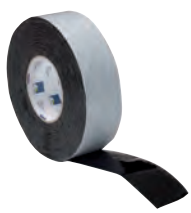

TESCON NAIDECK
Double sided butyl nail/screw sealing tape, that seals through the membrane for additional waterproof connection.

DUPLEX
Double sided acrylic PSA tape for overlaps and vertical butt joints-klebung der Bahnenkopfstöße und Anschlüsse

DUPLEX tape dispenser
For quick and one handed applicaiton of pro clima DUPLEX (65' Rolls 20).
Unroll, press and cut in one action

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