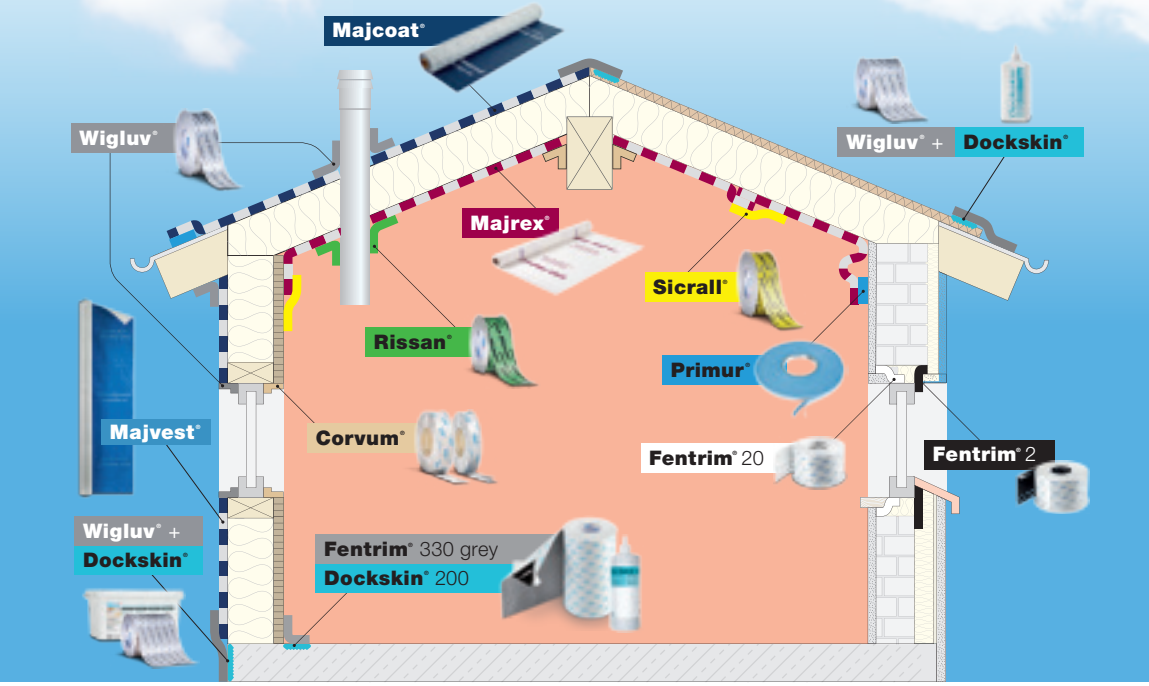
Manual

for the professional craftsman

All you need to know about the quick and reliable application of SIGA high-performance products.



free of domestic toxins

siga.swiss

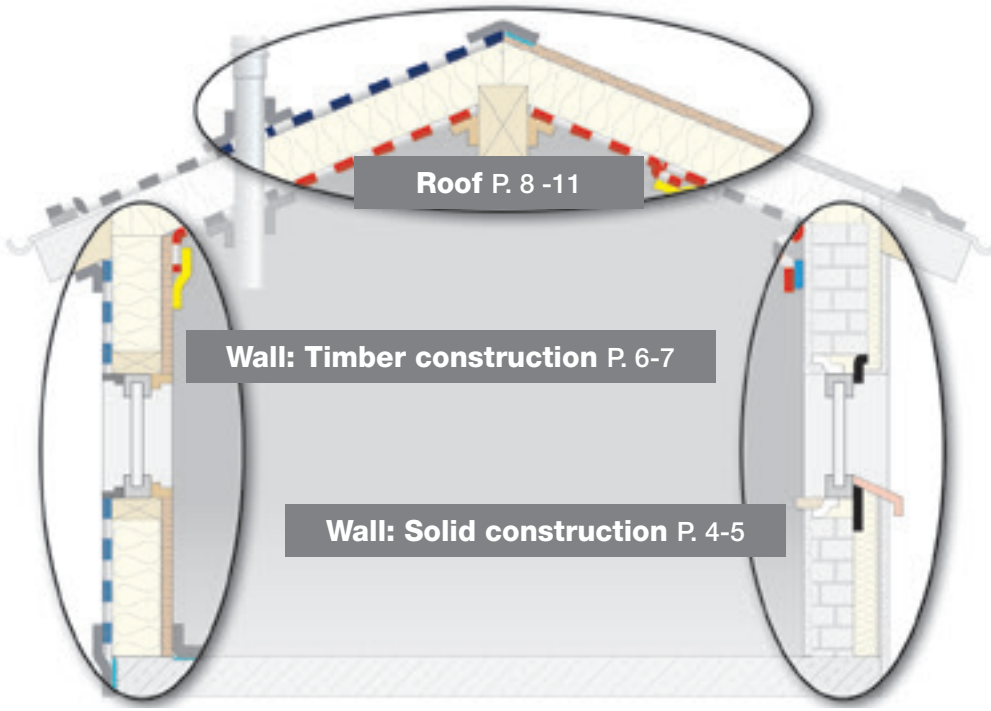
SIGA

air and windtightness system free of domestic toxins

- ✓ permanently reduce your energy consumption
- ✓ no draught
- ✓ no building damage

Construction feature and **SIGA** solution

Construction feature and **SIGA** solution



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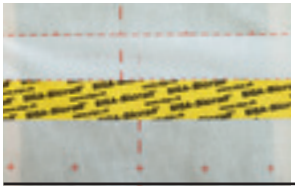

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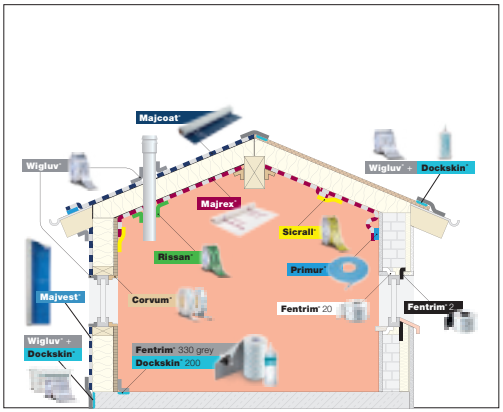
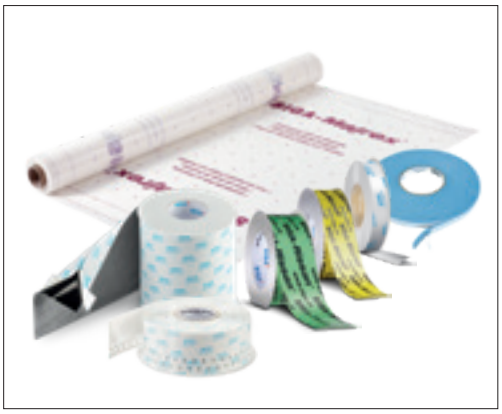
Expert knowledge
Airtight on the inside

Making the building envelope airtight



- Buildings must be constructed to be permanently airtight.
- Leaking areas in the building shell cause high energy loss, unpleasant draughts and can result in massive damage to the building due to mould.

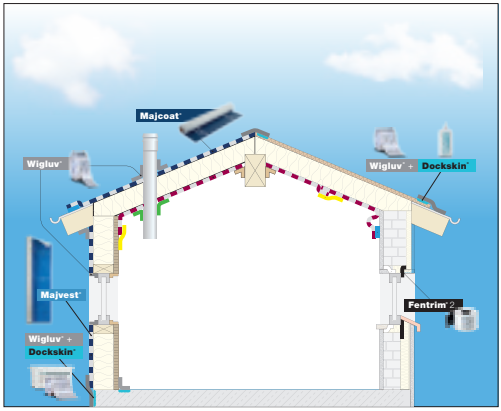
- To create the airtight building shell, vapour control layers are applied to the inside of the building and sealed airtight. All overlaps, joints and penetrations must be carefully sealed airtight.



- Use the following high-performance **SIGA** products for the reliable sealing of your airtight building shell:
- They are extremely strong, free from residential toxins, environmentally friendly and secure a permanently airtight building shell.

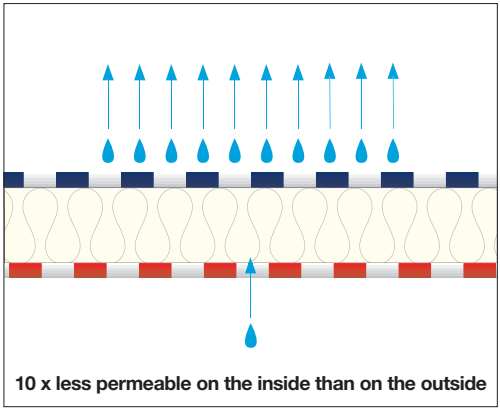
- Proof of airtightness is provided with the Blower-Door-Test.

Making the building envelope wind and rainproof



- The wind-tight building shell is created by the permanently sealed roof underlay membrane and facade membrane.
- When the envelope is not wind-tight, cold outside air can easily cool down the insulation. Snow, rain, insects and wood pests can enter the construction unhindered and damage it.

- All overlaps, joints and penetrations must be carefully sealed windtight.

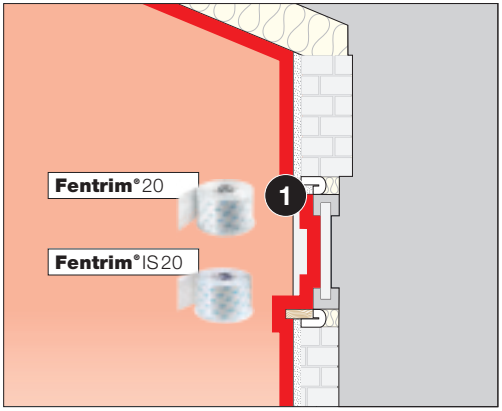


10 x less permeable on the inside than on the outside

- The diffusion resistance value of the roof underlay membranes and facade membranes is lower than that for vapour control layers so that the moisture does not collect underneath the membrane.

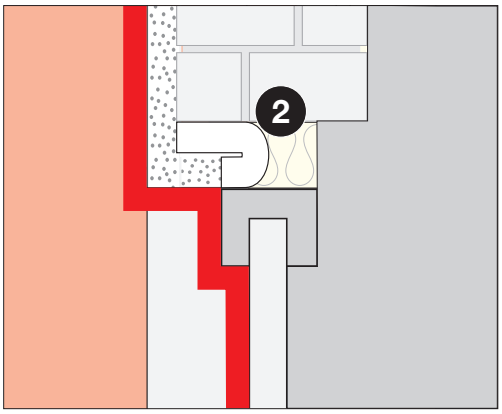
- High thermal demands and the multitude of surfaces require high-quality products which bond securely and durably.
- **SIGA** offers a comprehensive system of products perfectly tailored to your requirements.
- So you can easily avoid damage to your building!

Airtight joining of window



Functional level 1 inside the room: airtightness
- Each window joining inside the room must be airtight.

The airtight building level
- Prevents uncontrolled thermal loss
- Stops the penetration of humid indoor air in to the functional level 2 (heat insulation)
- Prevents condensates and mould
- Prevents drafts

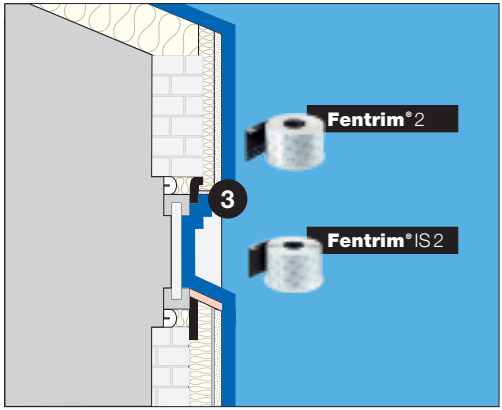


Functional level 2 centre: heat insulation
- Transfers the load of the window

Ensures heat and sound insulation
- Must always remain dry, is protected by the functional level 1 and 3.

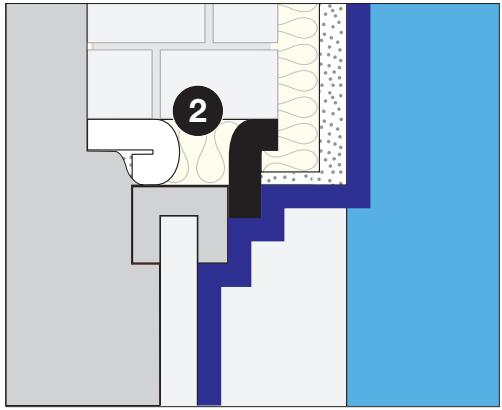
- Use the high-performance **SIGA** products Fentrim IS 20 and Fentrim 20 for the reliable airtight joining of your windows.
- Fentrim is quick and easy to apply, has an extremely strong adhesion and is immediately 100% tight.

Wind-tight and rainproof joining of window

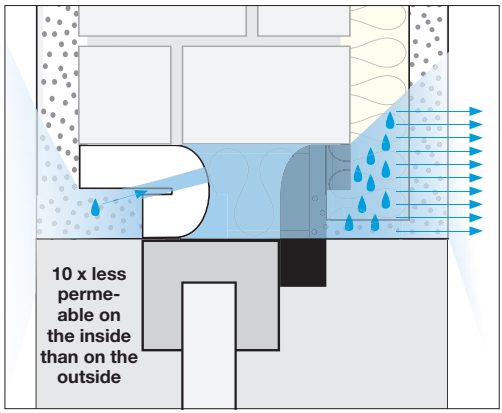


Functional level 3 outside: driving rain and windtightness

- Outside joints of windows and doors must be windproof and impermeable to driving rain.



- Stops the penetration of driving rain in to the functional level 2 (heat insulation)
- Prevents condensates and mould
- Prevents ingress of wind and thus draughts



Diffusion gradient:
With regard to water vapour diffusion, the principle **"**10 x less permeable on the inside than on the outside**"** applies.

- sd = 20 m for inside application
- sd = 2 m for outside application

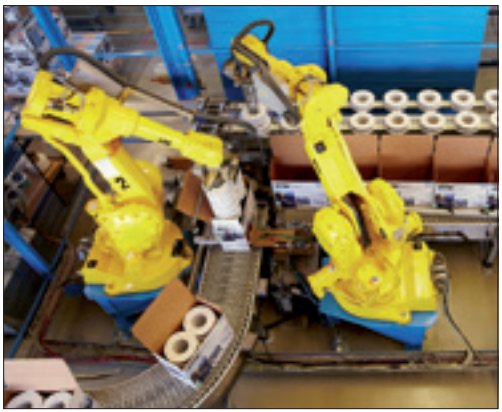
- Use the high-performance **SIGA** products Fentrim IS 2 and Fentrim 2 for the reliable windtight joining of your windows.
- Fentrim is quick and easy to apply, has an extremely strong adhesion and is immediately 100% tight.

SIGA-house-tight

SIGA benefits

✓ **innovative**
every year the **SIGA**-research team applies for numerous patents

✓ **in partnership**
SIGA annually trains
- 2,500 building and construction professionals at the **SIGA** Academy in Switzerland
- 30,000 craftsmen and architects on site at the customers' premises



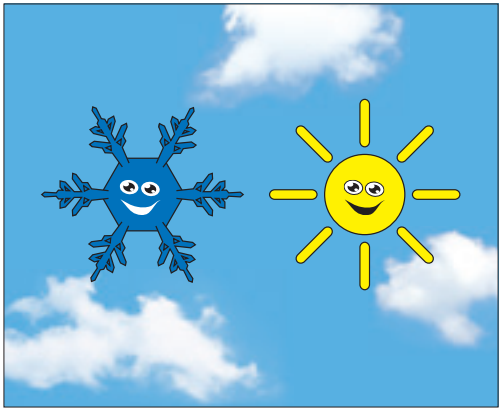
✓ **professional**
SIGA production processes guarantee best quality

Factory at Schachen

Factory at Ruswil

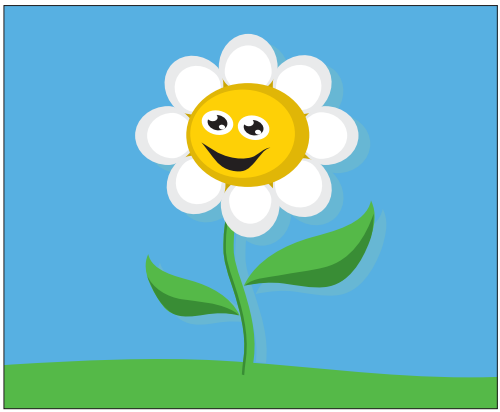
✓ **international**
SIGA produces at 2 locations in Switzerland and employs 500 employees in over 27 countries

Product benefits



✓ **strong adhesiveness in cold and heat**
construction professionals save time and achieve maximum safety

✓ **resistant to ageing**
construction professionals prevent future structural damage to buildings - protecting their clients' and their own best interests



✓ **no residential toxins**
no pollutants in the ambient air

✓ **SIGA In an open system**
In addition, free choice of commercially available vapour control layers and roof underlay membranes in combination with **SIGA** high-performance adhesives

Wall: Solid construction
Airtight on the inside

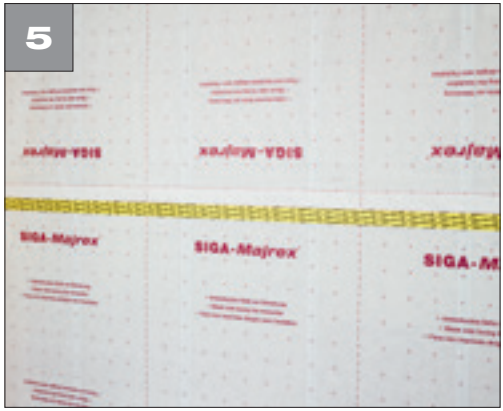
Mounting vapour control layer for internal wall insulation

- Use double-sided adhesive Twinet when mounting vapour control layers on metal or timber substructures
- Avoids leaky stapling points

- Apply vapour control layer with the writing facing you

- Overlap the vapour control layer by approx. 10 cm

- Seal overlap with Sicrall avoiding tension and wrinkles



How it should look:

- Vapour control layer mounted on substructure and bonded to be permanently airtight

Majrex® P. 115 | **Sicrall**® 60 P. 118 | **Twinet**® P. 126

Wall: Solid construction
Airtight on the inside

Joining vapour control layer to solid wall construction - plastered masonry

1 Apply bead before mounting the vapour control layer

or

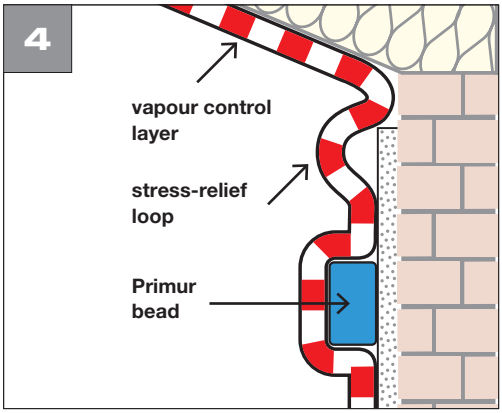
2 Apply bead after mounting the vapour control layer

- Clean the substrate
- Apply Primur, align and press it down
- Cut with a knife and press on

3

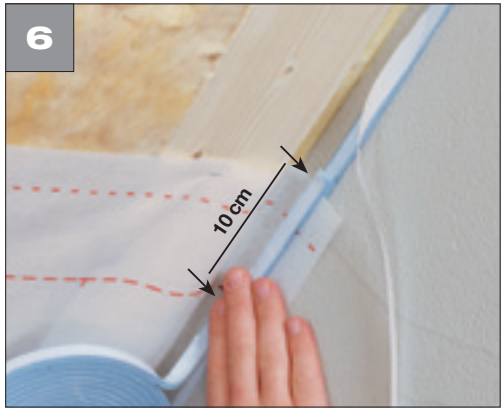
- Remove backing strip

4



- Make a stress-relief loop in the vapour control layer

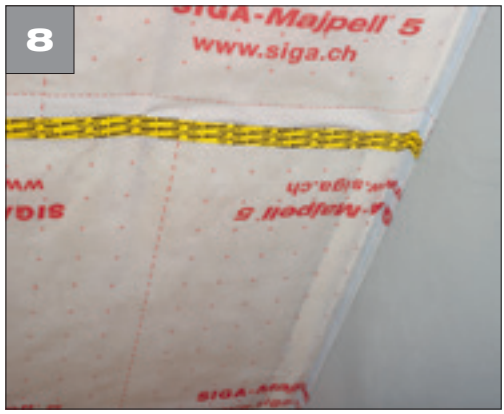
- Press vapour control layer firmly onto Primur bead free from creases and tension



For overlaps:

- Apply a short bead of Primur (about 10 cm) to vapour control layer at the overlap

- Mount second membrane, press it on

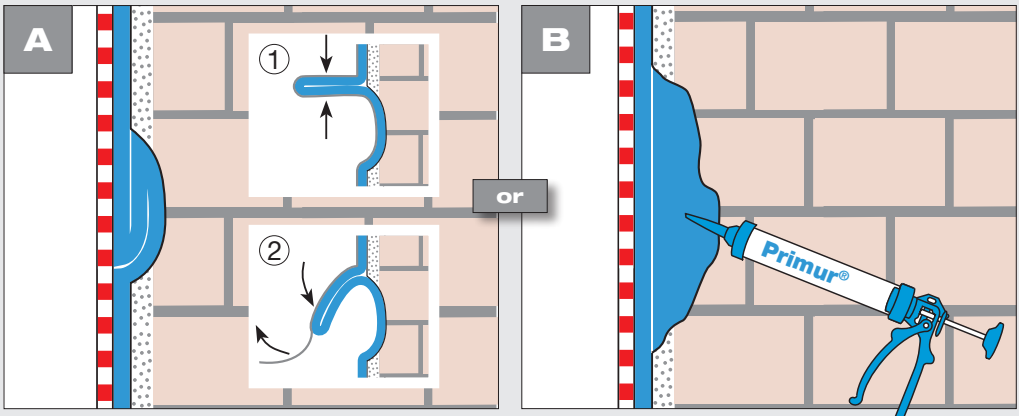


How it should look:

- Vapour control layer is airtightly sealed againstplastered masonry with Primur roll

Wall: Solid construction
Airtight on the inside

Tips and tricks



For unevenness
- Make a loop in the bead ① and fill unevenness airtightly ②

- Apply Primur roll
- Then fill the unevenness airtightly using the Primur tubular bag

Primur® Roll P. 123 | **Majrex®** P. 115 | **Majpell®** 5 P. 116

Joining vapour control layer to solid wall construction - plastered masonry

Apply Primur compound using the SIGA tubular bag applicator gun

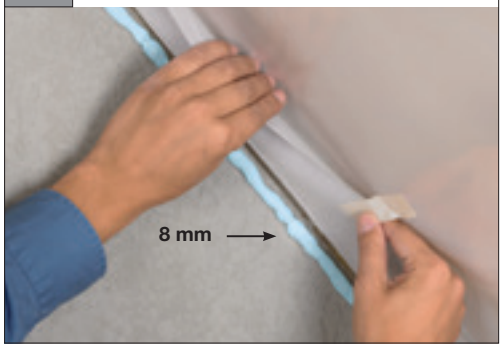
- Twin-spiked nozzle opens Primur bag
- Transparent tube shows fill level

or

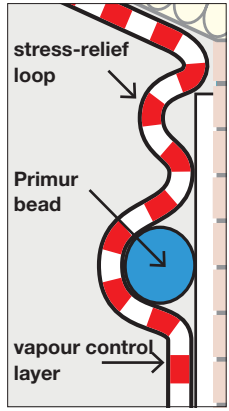
Apply Primur compound using the SIGA cartridge applicator gun

- Sturdy applicator gun with long-lasting professional quality
- With drip stop – hands and gun remain clean

A **Wet method**



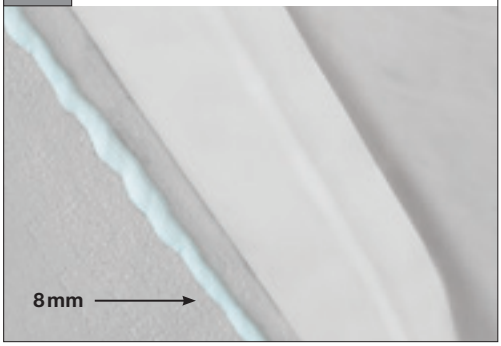
- Apply an 8 mm Primur bead
- Release secured vapour control layer immediately



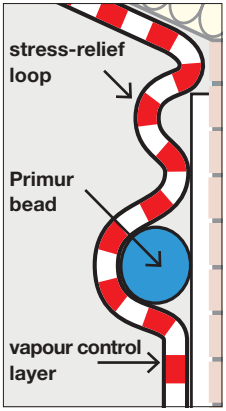
- Make a stress-relief loop in the vapour control layer
- Gently press vapour control layer onto Primur bead – **do not press flat!**
- Primur bead must remain at least 4 mm thick

Wall: Solid construction
Airtight on the inside

B **Dry method**



- Apply an 8 mm Primur bead and **allow it to dry** for 1 to 3 days

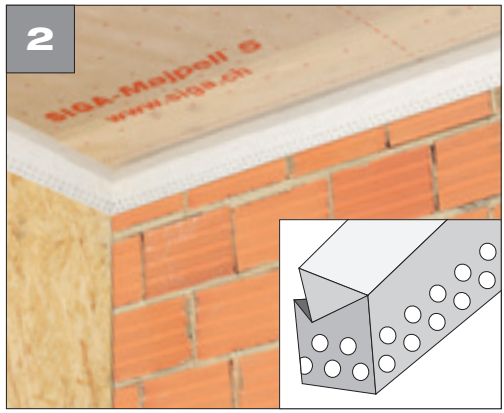


- Make a stress-relief loop in the vapour control layer
- Press vapour control layer **firmly** onto the Primur bead without tension or wrinkles

Primur® cartridge P. 122

Primur® tubular bag P. 122

Joining vapour control layer to solid wall construction – non-plastered masonry or concrete



- Affix 50 mm side to vapour control layer
- Affix perforated 85 mm side to solid wall construction
- Apply free from stress and tension
- Press on firmly

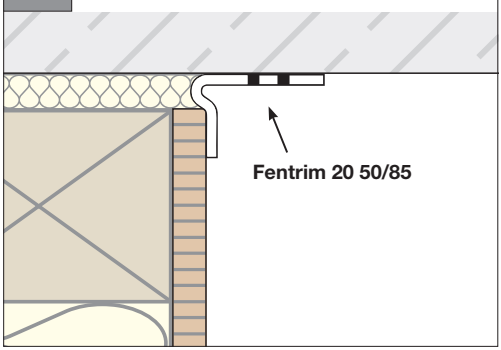
Note:

- If Fentrim 20 50/85 is mounted on **non-plastered** masonry it must be plastered over to form the airtight layer
- The width of the substrate to be plastered covered by Fentrim must not exceed 60 mm without counting the Fentrim perforated zone.

Fentrim®20 50/85 P. 140

Joining timber to solid wall construction – non-plastered masonry or concrete

1 Schematic diagram



- Joining timber wall construction to **non-plastered** masonry or concrete

2

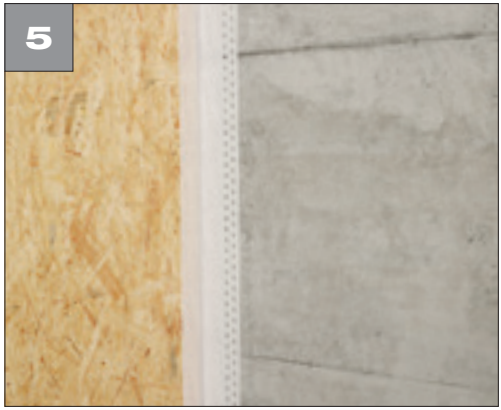
- Affix 50 mm side to wood-based panel

3

- Unfold Fentrim 20 50/85
- Press on firmly

4

- Remove backing strip
- Fixing
- Apply free from stress and tension
- Press on firmly



How it should look:

- Timber wall construction joined to non-plastered masonry or concrete

Note:

- If Fentrim 20 50/85 is mounted on **non-plastered** masonry it must be plastered over to form the airtight layer
- The width of the substrate to be plastered covered by Fentrim must not exceed 60 mm without counting the Fentrim perforated zone.

Fentrim® 20 50/85 P. 140

Joining window to solid wall construction - Tips and tricks

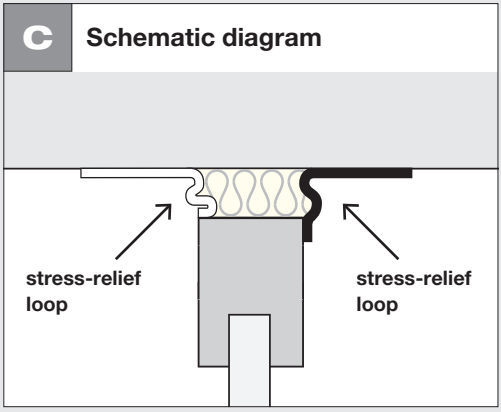
A

- Clean all substrates to ensure high adhesive strength

B

- Fold the front end of the protruding backing strip back so that it is ready at hand and can be easily removed later
- Install the window

C **Schematic diagram**



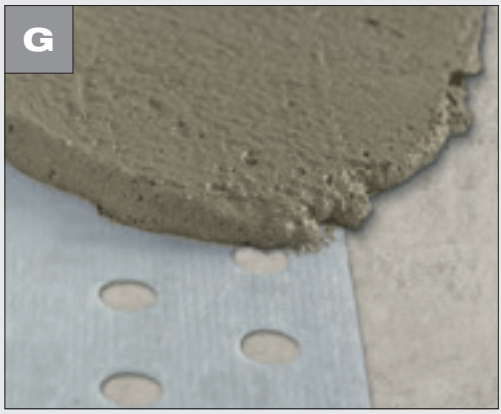
- Apply free from stress and tension

D

- Press the tape on firmly with a roller to ensure even more protection

- Fill joint seam with insulation material without cavities

- Overlap the tape at the joints by approx. 5 cm



If Fentrim is plastered:

- Don’t seal more than 50 % of the soffit or reveal depth and max. 60mm without counting the Fentrim perforated zone.

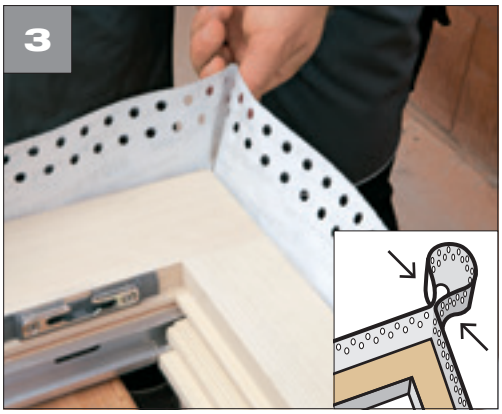
Leakages, cracks, penetrations:

- Seal using the reliable high-performance sealant Meltell

Preparing the skirt – without windowsill joint profile

Initial situation:
- Frame provided

- **Bond laterally to** frame at the bottom starting in the centre
- Press on firmly

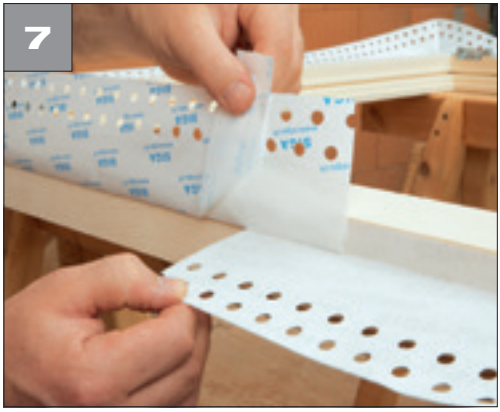


Corners:
- Form a loop: 1.5 x joint width
- Bond or press together firmly

- Repeat on all sides
- Press on firmly

Overlaps:
- Apply with about 5 cm overlap
- Cut off

Overlaps:
- Apply with about 5 cm overlap

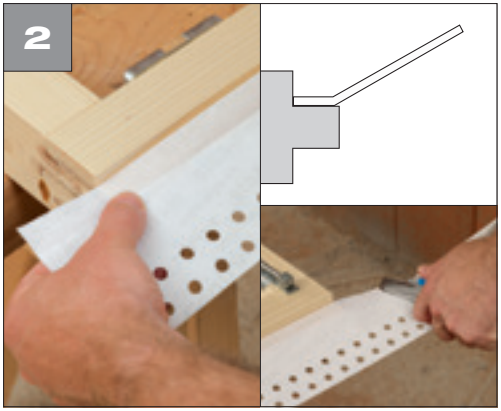


- Fold back protruding backing strip
- Align and fix free from tension

After skirt preparation for the inside with Fentrim 20:
- Turn frame
- Prepare the skirt for the outside with Fentrim 2 or Fentrim IS 2

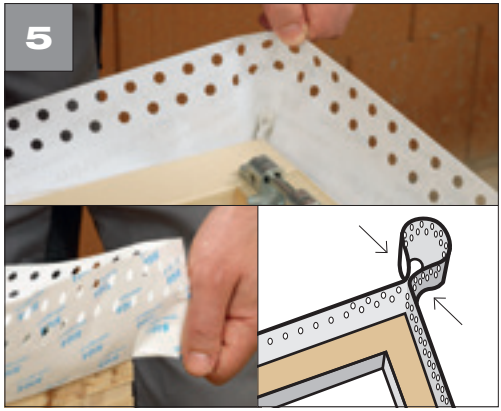
Preparing the skirt – without windowsill joint profile

Initial situation:
- Frame provided

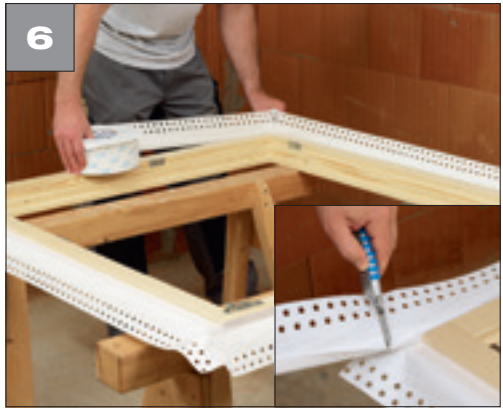


- Bond to the windowsill joint profile at the **bottom**
- Projecting by joint width + approx. 6 cm on both sides
- Press on firmly

- Bond laterally to the frame
- Projecting by about the joint width at the bottom
- Press on firmly



Top corners:
- Form a loop: 1.5 x joint width
- Bond or press together firmly
- Repeat on the other side



- Bond to all sides of the frame
- Press on firmly
- Projecting by the joint width at the bottom
- Cut off

Bottom corners:
- Make a rectangular cut up to the folded edge
- Fold over
- Press on firmly
- Repeat on the other side

After skirt preparation for the inside with Fentrim 20:
- Turn frame
- Prepare the skirt for the outside with Fentrim 2 or Fentrim IS 2

Join skirt to masonry

Initial situation:
- Window installed with prefabricated skirt

- Remove protruding backing strip step by step
- Align and fix free from tension
- Remove second backing strip
- Press on firmly

Bottom corners:
- Bond laterally to the reveal
- Form trough
- Repeat on the other side

- Align and fix free from tension
- Bond to bottom of trough
- Press on firmly

Top corners:
- Bond loop into corner free from tension
- Press on firmly
- Repeat on the other side

How it should look:
- Prefabricated skirt attached to masonry

Joint plastered:

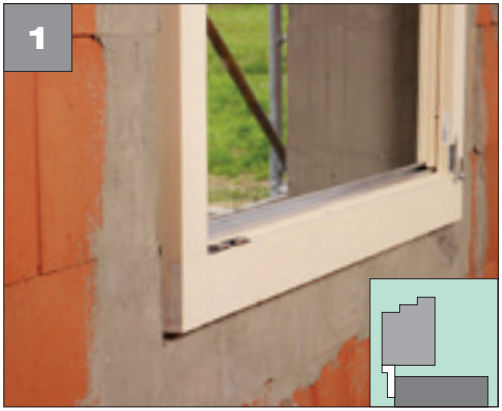
Joint covered:

Fentrim® & **Fentrim® IS**
application identical

Fentrim® 20 P. 142

Fentrim® IS 20 P. 144

Connection for windows, protruding inside



Initial situation:
- Window installed with prefabricated skirt

- Bond with the narrow side to the edge at the frame bottom
- Projecting about 10 cm on both sides
- Press on firmly

Corners:
- Cut narrow side up to the folded edge at an angle of 45°

- Fold over
- Press on firmly
- Repeat on all sides

- Remove protruding backing strip
- Align and fix free from tension
- Remove second backing strip
- Press on firmly
- Repeat on all sides

How it should look:
- Window connection inside

Joint plastered:

Joint covered:

Fentrim® & **Fentrim® IS**
application identical

Fentrim® 20 P. 142

Fentrim® IS 20 P. 144

Joining window to base plate

Initial situation:
- Floor-deep window / façade element installed

- Clean the substrates to be bonded
- Apply Dockskin 200
- Use a roller to apply thinly and over the entire surface of the concrete floor
- Wait until Dockskin 200 is completely dry

- Roll out Fentrim to required length
- Add approx. 15–20 cm on both sides (to form sides of trough)
- Cut Fentrim to required length

- Remove about 10 cm of 1st backing strip and stick to window / façade element using a small area of adhesion
- Extend approx. 15-20 cm on left and right

- Remove 1st backing strip little by little
- Align and fix tension-free
- Press on firmly

- Remove more backing strip little by little
- Bend without introducing tension
- Press on firmly

How it should look:

- Floor-deep window / façade element connected to concrete floor

Dockskin® 200 S. 138

Fentrim® 330 grey S. 139

Sealing of leakages, cracks, penetrations

Penetrations
• e.g. bolts, screws, brackets

• Cracks, joints, imperfections

• Unevenness, leakages

Meltell® 210 white S. 137

Penetrations
• e.g. bolts, screws, brackets

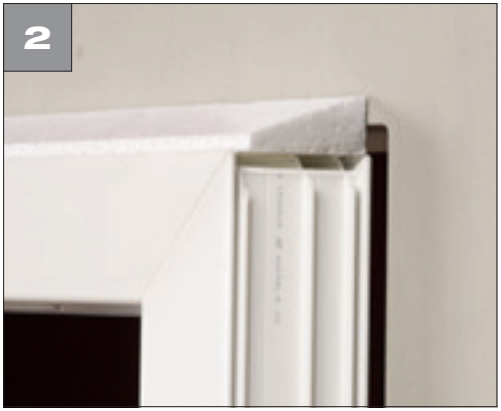
Penetrations
• e.g. cable penetrations

• Cracks, joints, imperfections

Meltell® 220 black S. 137

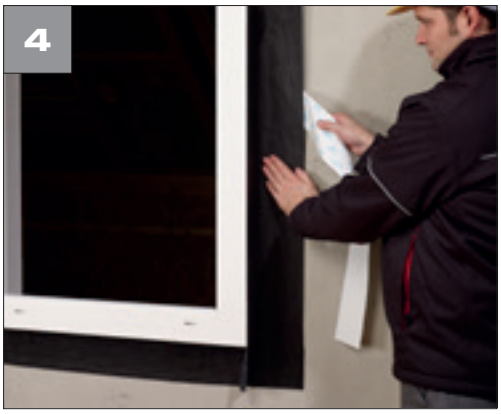
Joining window to solid wall construction

- Window installed on the outside surface



- Suggestion: Mount a wedge for better water discharge ≥5°. Observe the manufacturer's specification

- Bond the narrow side to the edge at the frame bottom
- Projecting on both sides
- Remove backing strip and press on firmly
- Cut into the excess, bisecting the angle, and press on



- Bond the narrow side to the lateral edge of the frame
- Projecting on both sides
- Remove backing strip and press on firmly

5

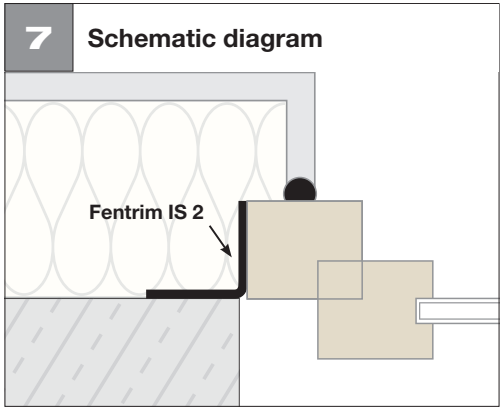
- Bond the narrow side to the top edge of the frame
- Projecting on both sides
- Remove backing strip and press on firmly
- Cut into the excess, bisecting the angle, and press on

6

How it should look:

- Window installed on the outside surface joined

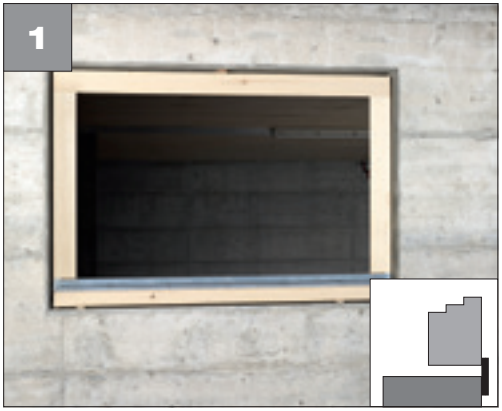
7 **Schematic diagram**



Window installed on the outside surface sealed airtight with Fentrim IS 2

Fentrim® IS 2 P. 145

Joining window to solid wall construction



- Window installed flush with the outside surface

- Bond with the small side to the frame flush with the frame bottom edge
- Projecting about 10 cm on both sides
- Press on firmly

- Remove protruding backing strip step by step
- Align and fix free from tension

- Repeat on all sides

How it should look:
- Window joined outside

Thereafter:
- Cover connection with insulation

Joint plastered:

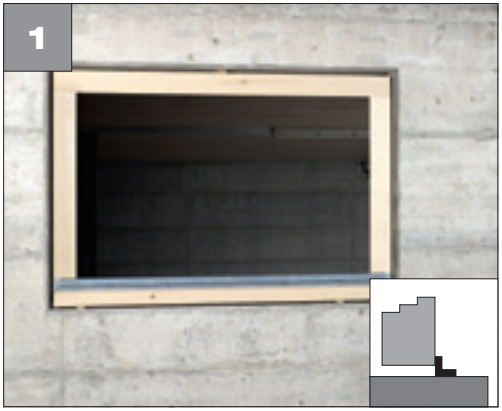
Joint covered:

Fentrim® & Fentrim® IS
application identical

Fentrim® 2 P. 143

Fentrim® IS 2 P. 145

Joining window to solid wall construction



- Window installed centrally

- Bond the narrow side to the edge at the frame bottom
- Projecting by joint width + approx. 6 cm on both sides; form trough
- Press on firmly
- Cut off

- Remove protruding backing strip
- Align and fix free from tension
- Remove second backing strip
- Press on firmly

- Bond laterally to the frame
- Bond laterally to the reveal

• Repeat on all sides

How it should look:
• Window joined outside

Joint plastered:

Joint covered:

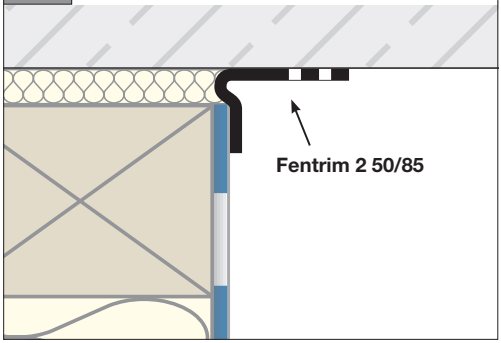
Fentrim® & Fentrim® IS
application identical

Fentrim® 2 P. 143

Fentrim® IS 2 P. 145

Joining facade membrane to solid wall construction

1 **Schematic diagram**



- Joining facade membrane to **non-plastered** masonry or concrete

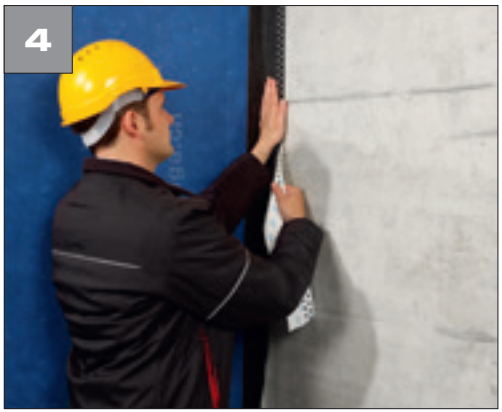
2

- Affix 50 mm side to facade membrane

3

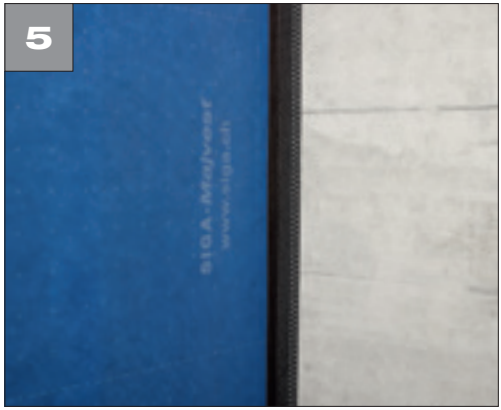
- Unfold Fentrim 2 50/85
- Press on firmly

4



- Remove protruding backing strip step by step
- Fixing
- Apply free from stress and tension
- Press on firmly

Windtight and rainproof on the outside



How it should look:

- Facade membrane bonded to non-plastered masonry or concrete

- The width of the substrate to be plastered covered by Fentrim must not exceed 60 mm without counting the Fentrim perforated zone.

Fentrim® 2 50/85 P. 141

Wall: Solid construction
Windtight and rainproof on the outside

Joining roof underlay membrane to solid wall construction - plastered masonry

Example of a dormer wall connection:

Example of a chimney:

- Clean the substrate and roof underlay membrane
- Apply Primur, align it and press on firmly
- Make a stress-relief loop in the membrane, press down the membrane firmly without tension or wrinkles
- Cut off any excess membrane

Primur® roll P. 123

Alternatively:

Example of a chimney:

- Bond the membrane with Dockskin and Wigluv 100 or Wigluv 150 to the masonry or plaster

Wigluv® 100 & 150 P. 130

Dockskin® P. 127

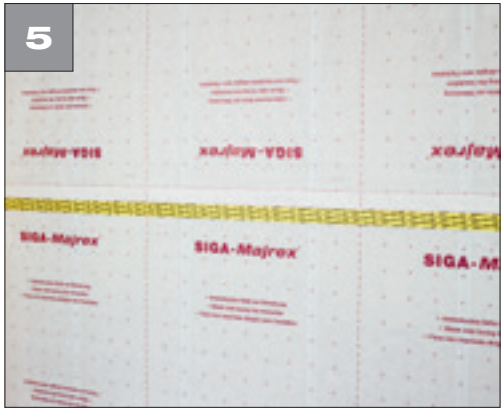
Mounting vapour control layer on timber substructures

- Use double-sided adhesive Twinet when mounting vapour control layers on timber substructures
- Avoids leaky stapling points

- Apply vapour control layer with the writing facing you

- Overlap the vapour control layer by approx. 10 cm

- Seal overlap with Sicrall avoiding tension and wrinkles



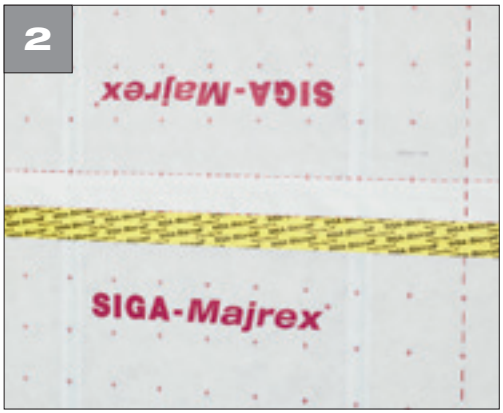
How it should look:

- Vapour control layer mounted on substructure and bonded to be permanently airtight

Majrex® P. 115 | **Majpell® 5** P. 116 | **Twinet®** P. 126

Vapour control layer overlaps

- Release the Sicrall backing strip
- Position Sicrall in the centre of the overlap and secure it in place
- Remove backing strip
- Apply Sicrall free of tension and creases and press it down vigorously by hand



How it should look:

- The overlap is sealed with Sicrall 60 and permanently airtight

Butt-joint

- Apply Sicrall along the centre of the joint
- Press it on with a hard rubber roller
- Improves the immediate adhesion

Sicrall® 60 P. 118

Injection hole

- Pull out Sicrall 170
- Measure to the required length
- Tear over the blade

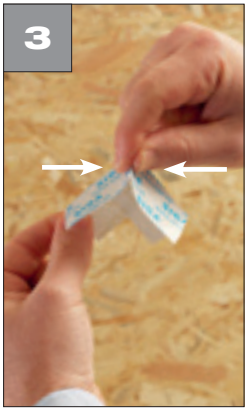
- Sicrall is easy to tear-off at perforation

- Press it on with a hard rubber roller
- Improves instant adhesion and is easy to use

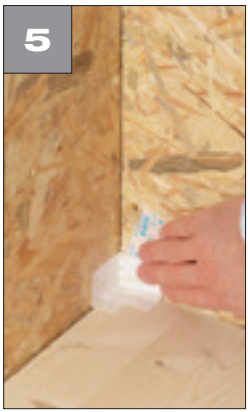
Sicrall® 170 P. 119

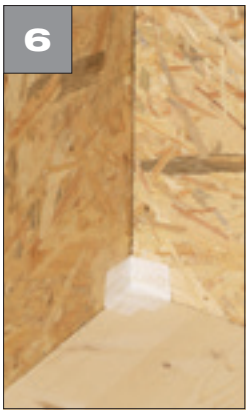
Inside and outside corners

- Unfold a short piece of Corvum
- **Make a cut in** centre of side without backing strip
- Fold over at a 90° angle
- Bond together



- Prefold to fit tightly into corner
- Fold back backing strip

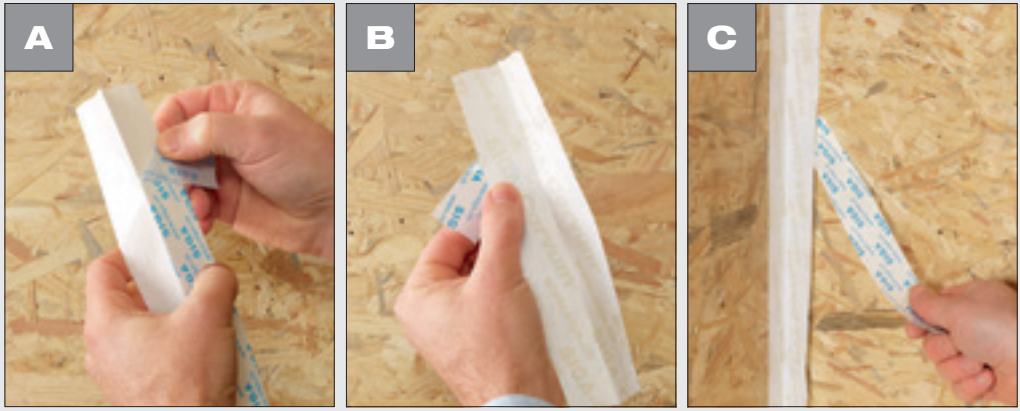




- Stick down Corvum corner and press on well
- Repeat first in every inside corner

- Then connect the inside corners:
- Position Corvum accurately in corner and bond side without backing strip first, pressing on firmly
- Remove backing strip and press on

Tips and tricks



Using the backing strip for simple and quick application:

- First fold back the front end of the backing strip,
  this way, the backing strip is ready at hand and can be quickly removed later
- Then apply Corvum to fit

Corvum® 30/30 P. 124

Wall joint - timber construction outside corner

- Affix Corvum to wall with folded edge flush against outside edge
- Add about 3 cm at each end and cut off

- Remove backing strip
- Unfold

- Cut into the corner from the inside out, approximately bisecting the angle
- **Start cut just short of corner!**

- Fold around outside corner
- Press on

- Repeat on each side

- Fit a short piece of Corvum into corner
- Remove the backing strip
- Press on
- Repeat on each side

How it should look:

- Outside corner is permanently airtightly sealed with Corvum 30/30

Corvum® 30/30 P. 124

Joining window to timber wall construction

- Cut off a short piece, unfold
- Make a 12 mm cut in the centre of one side

- Fold over at a 90° angle
- Bond together
- Make a corner crease

- Remove backing strip

- Press into inside corner
- Affix 12 mm side of Corvum to window frame
- Repeat in each inside corner

- Then connect the inside corners:
- Affix 12 mm side of Corvum to window frame
- Measure and cut to the correct length

- Remove backing strip
- Unfold
- Press on
- Repeat on each side

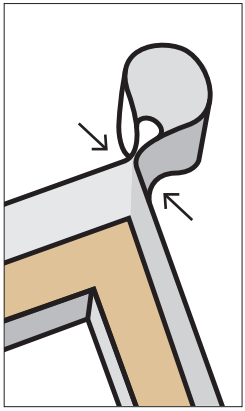
How it should look:

- Recessed window frame airtightly bonded with Corvum 12/48
- Corvum is invisible behind cladding

Corvum® 12/48 P. 125

Joining window to timber wall construction alternative:

- Bond to windowsill joint profile **at the bottom**
- Projecting by joint width plus approx. 6 cm on both sides
- Press on firmly

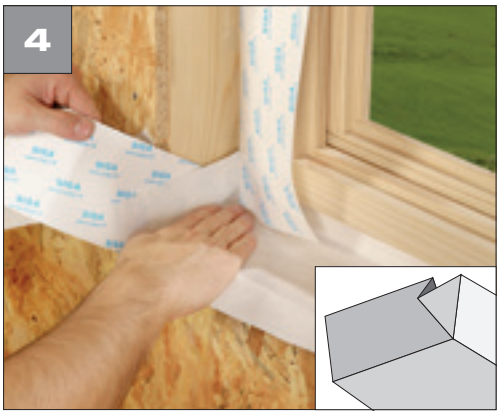


- Bond laterally to the frame
- Press on firmly

Top corners:

- Form a loop: 1.5 x joint width
- Bond or press together firmly
- Repeat on the other side

- Install the window



- Form trough

- Cut into the corners
- Remove backing strip and press on firmly

- Repeat on each side

How it should look:

- Window frame joined airtight to timber wall construction

Fentrim® IS 20 P. 144

Base joint inside

Initial situation:
- Wooden wall installed

- Clean the substrates to be bonded
- Apply Dockskin 200
- Use a roller to apply thinly and over the entire surface of the concrete floor
- Wait until Dockskin 200 is completely dry

- Roll out Fentrim to required length
- Add approx. 15–20 cm on both sides (to form sides of trough)
- Cut Fentrim to required length

- Remove about 10 cm of 1st backing strip and stick to wooden wall using a small area of adhesion
- Allow approx. 15 – 20 cm to extend to left and right

- Remove 1st backing strip little by little
- Align and fix tension-free
- Press on firmly

- Remove more backing strip little by little
- Bend without introducing tension
- Press on firmly

How it should look:
- Wooden wall is joined to concrete floor

Dockskin® 200 P. 138

Fentrim® 330 grey P. 139

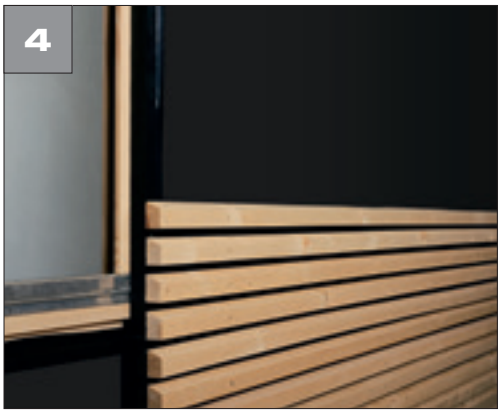
Mounting facade membrane for open facades – using SOB

- Apply Majvest 700 SOB with the smooth side facing you
- Secure the membrane above the adhesive joint using a stapler

- Lay the second membrane
- Overlap membranes by 10 cm
- Remove the two backing strips and press the bond firmly down

After sealing:

- For final attachment of the membrane mount counter slatting **in structure direction directly on the bearing structure**



How it should look:

- Majvest 700 SOB and Wigluv black behind permanently open facade
- Suitable for facades with joint holes of ≤ 50 mm and a surface proportion of max. 40%

Mounting facade membrane for open facades – without SOB

- Apply Majvest 700 with the smooth side facing you
- Secure the membrane in the overlap area using a stapler

- Lay the second membrane
- Overlap membranes by 10 cm
- Align Wigluv black centrally with the overlap and secure in place
- Apply it without tension and creases and press on **firmly**

Majvest® 700 SOB P. 132

Majvest® 700 P. 132

Wigluv® black P. 131

Mounting facade membrane for closed facades

1

- Apply Majvest with the lettering facing you

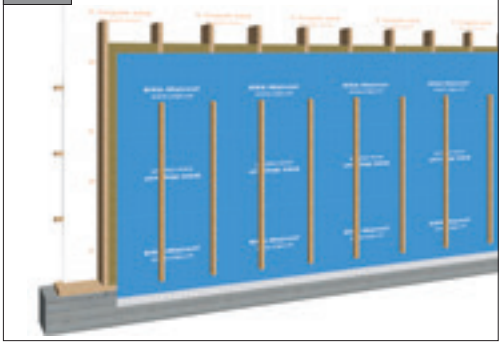
2

For closed facades:
- Align Wigluv centrally along the overlap and secure in place
- Apply it without tension and creases and press on **firmly**

3

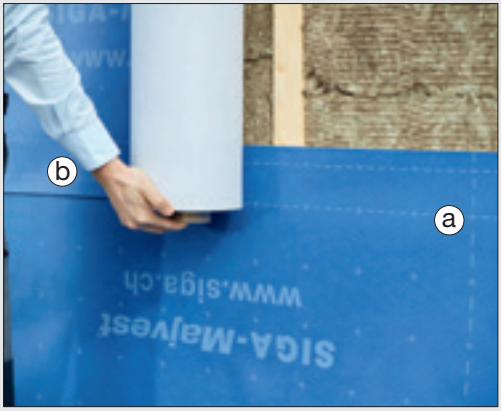
After sealing:
- For final attachment of the membrane mount counter slatting **in structure direction directly on the bearing structure**

4 **Rear-ventilated facades**

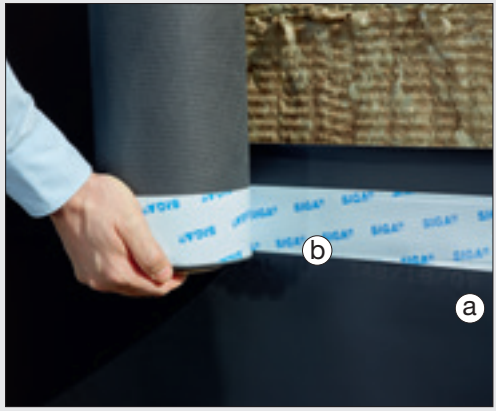


- Majvest is suitable for rear-ventilated facades with closed facade covering

Tips and tricks



Majvest overlap:
- Align Majvest with the (a) overlapping line and lay it.
- Align Wigluv with the (b) bonding line and bond it.
- Press the bond on **firmly**.



Majvest 700 SOB overlap:
- Align Majvest with the lettering (a) or the backing strip (b) and lay it.
- Remove the backing strip and bond SOB.
- **Or else without SOB:** Align Wigluv black centrally and bond.
- Press the bond on **firmly**.

Majvest® P. 133

Wigluv®60 P. 128

Facade membrane penetration

- Cut off Wigluv 20/40: leave approx. 4 cm on both sides
- Separate the narrow backing strip and affix in the corner
- Separate the wide backing strip and press on firmly
- Cut the corner at 45°

- Fold over
- Press on

- Repeat at each side of the penetration

Windtight and rainproof on the outside

How it should look:

- Square penetration sealed windtight using Wigluv 20/40.

How it should look:

- Penetration of open facade sealed in a windtight manner using Wigluv black 20/40
- Suitable for facades with joint holes of ≤ 50 mm and a surface proportion of max. 40%

For closed facades:

Wigluv® 20/40 P. 129

For open facades:

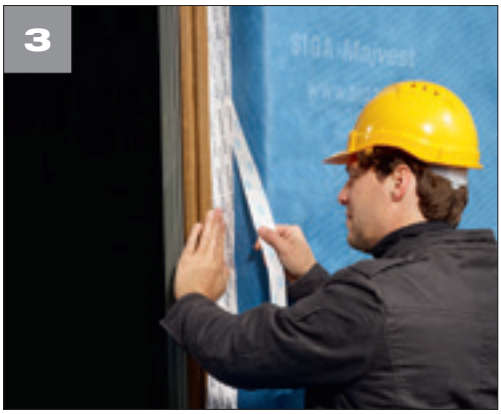
Wigluv® black 20/40 P. 131

Joining window to facade membrane

- Pre-fold the corner using Wigluv 20/40
- Affix precisely in the window corner
- Repeat at all corners

Connect corners:

- Align Wigluv 20/40 in the corner
- Remove narrow backing strip
- Affix the narrow side to the window frame and press on

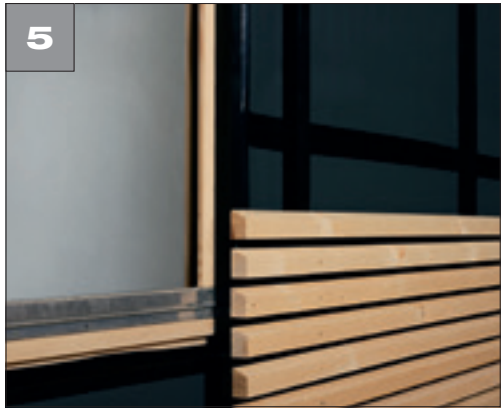


- Remove the wide backing strip
- Affix the wide side to the facade membrane and press on firmly

Windtight and rainproof on the outside

How it should look:

- Window sealed windtight using Wigluv 20/40



How it should look:

- The window next to a visible facade is sealed windtight with Wigluv black 20/40
- Suitable for facades with joint holes of ≤ 50 mm and a surface proportion of max. 40%

For closed facades:

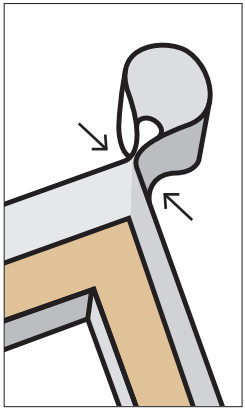
Wigluv ® 20/40 P. 129

For open facades:

Wigluv ® black 20/40 P. 131

Joining window alternatively to facade membrane

- Bond to windowsill joint profile **at the bottom**
- Projecting by joint width plus approx. 6 cm on both sides
- Press on firmly



- Bond laterally to the frame
- Press on firmly

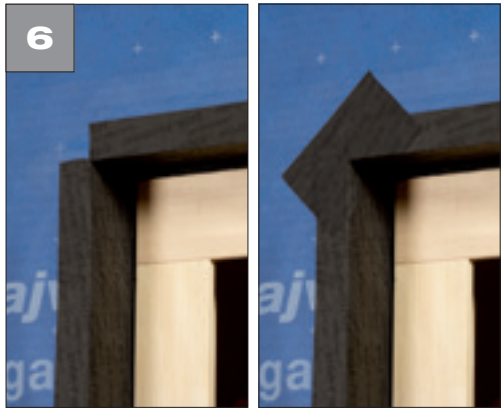
Top corners:

- Form a loop: 1.5 x joint width
- Bond or press together firmly
- Repeat on the other side

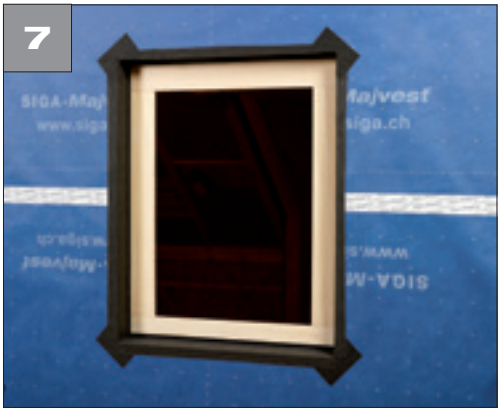
- Install the window
- Suggestion: Mount a wedge for better water discharge ≥5%.
- Bond bottom edge diagonally
- Form trough

- Cut into the corners
- Bond Fentrim over the complete sill depth

- Bond Fentrim laterally over the complete reveal depth



- Cut into top corners
- Fold over and bond the excess
- Bond top corners diagonally, cut in, fold over and press on firmly



How it should look:

- Window frame joined to facade membrane impermeable to driving rain and windtight

Fentrim® IS 2 P. 145

Outdoor base joint

- Shake **SIGA-Dockskin**
- Apply a covering coat
- Depending on temperature and substrate, wait until Dockskin is transparent and sticky

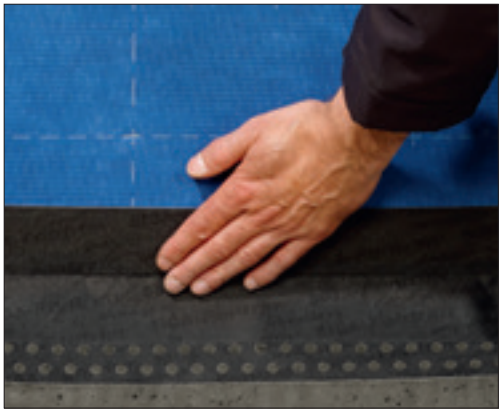
- Apply Wigluv in the middle, align
- Peel off backing strips one after the other, press down
- **Note:** make sure to apply sufficient Wigluv on the concrete and woodfibre boards

Dockskin® P. 127

Wigluv® 100 & 150 P. 130

Windtight and rainproof on the outside

Alternatively:



- Affix 50 mm side to facade membrane
- Affix perforated 85 mm side to concrete base
- Apply free of tension and creases and press it down vigorously

Alternatively:

- Apply Primur roll, align and press it down
- Remove backing strip
- Apply facade membrane free of tension and creases and press it down vigorously
- **Note:** This joint is suitable for Majvest and Majvest 700

Fentrim® 2 50/85 P. 141

Primur® roll P. 123

Mounting vapour control layer under flat or inclined roofs

1

- Use double-sided adhesive Twinet when mounting vapour control layers on timber or metal substructures
- Avoids leaky stapling points

2

- Apply vapour control layer with the writing facing you

3

- Seal overlap with Sicrall avoiding tension and wrinkles

4

How it should look:

- Vapour control layer mounted on rafters / substructure and bonded to be permanently airtight

After sealing

- Attach battens
- Mount the interior cladding (protects against mechanical influences and UV radiation)

- For wide joists or extremely high insulation material weight we recommend installation of the membrane in the direction of the rafters, sealing in the rafter area and longitudinal installation of the battens

Majrex® P. 115 | **Majpell** 5 P. 116 | **Twinet**® P. 126

Airtight on the inside

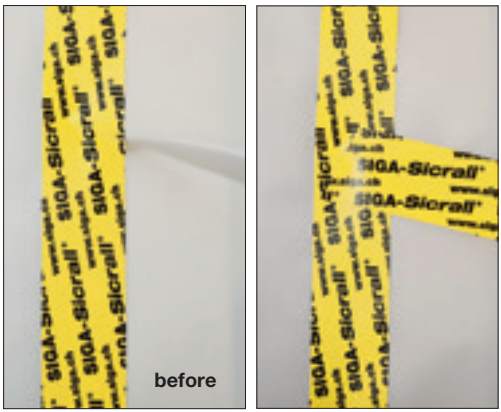
Vapour control layer overlaps

- Release the Sicrall backing strip
- Position Sicrall in the centre of the overlap and secure it in place

- Remove backing strip
- Apply Sicrall free of tension and creases and press it down vigorously

How it should look:

- The overlap is sealed with Sicrall 60 and permanently airtight



Sealing the crease so that it is airtight:

- Seal the crease in a "T" shape away from the overlap using Sicrall

Butt-joint

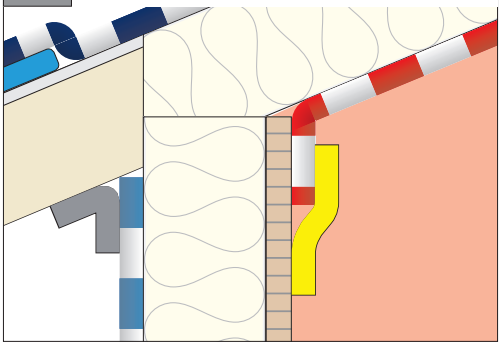
1

- Apply Sicrall along the centre of the joint

2

- Press it on with a hard rubber roller
- Improves the immediate adhesion

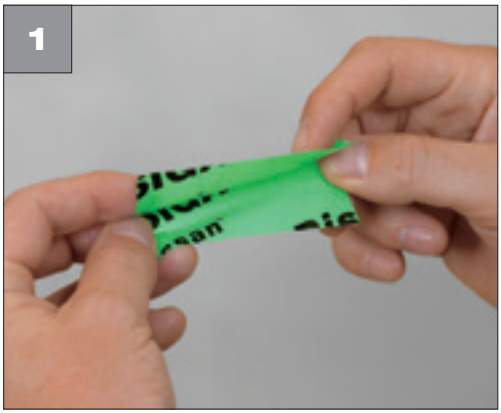
3 **Schematic diagram**



- Vapour control layer joined to timber wall with Sicrall

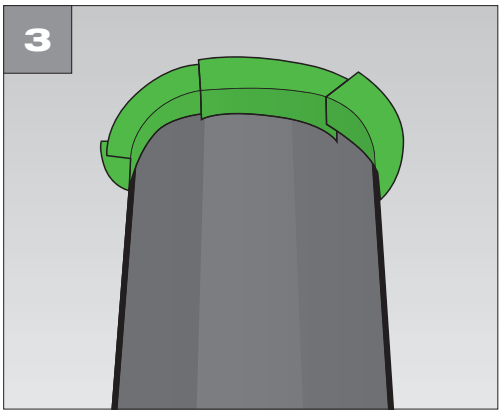
Sicrall® 60 P. 118

Circular penetration



- Crease Rissan lengthwise

- Apply Rissan half to the pipe and half to the the vapour control layer without tension



- Apply Rissan around circular parts in layers

How it should look:

- The circular penetration is airtightly sealed with layers of Rissan 60

Tips and tricks

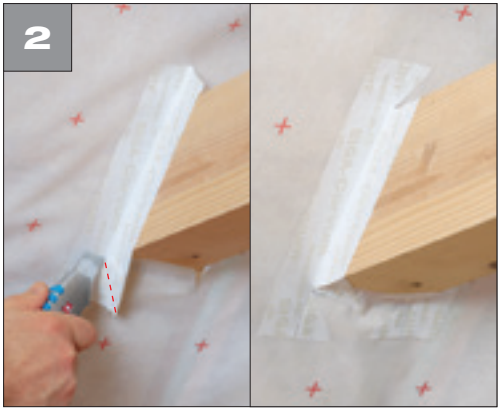
- For short pieces, separate Rissan from its backing strip
- Pull on Rissan and the backing strip simultaneously

- Block Rissan roll with one hand
- Use other hand to tear off Rissan over blade with a quick jerking movement

Rissan ® 60 P. 120

Angular penetration

- Cut Corvum to length: add about 3 cm at each end
- Bond tightly into corner for joists (with folded edge against joist)
- Remove the backing strip
- Unfold, press on



- Cut into the excess, bisecting the angle
- **Start cut just short of the corner of the joist!**
- Repeat on each side of the joist

How it should look:

- Joist permanently airtightly sealed with Corvum 30 / 30

Corvum® 30/30 P. 124

Purlin joint

- Bond Corvum accurately to the purlin below the rafters with the pre-folded edge at the top
- Press on firmly

- Successively remove backing strip and bond vapour control layer to smooth inner of Corvum
- Press on firmly

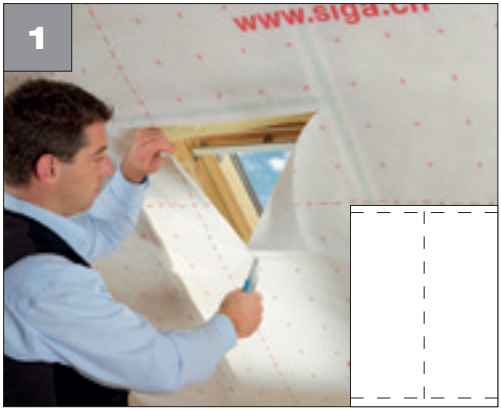
- Unfold Corvum and mount vapour control layer

How it should look:

- The purlins have been airtightly bonded with Corvum 30/30

Corvum® 30/30 P. 124

Skylight joint



• Cut vapour control layer

• Cut vapour control layer to reveal depth

• Affix Corvum to vapour control layer with the folded edge flush with the sheet edge
• Press on

• With the backing strip folded back insert Corvum accurately into the groove, **affix Corvum all the way to the corner**
• Successively remove backing strip
• Press on

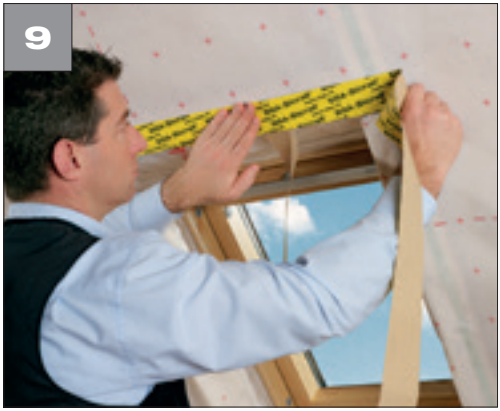
- Mount the remaining vapour control layer sheets: Cut sheet to size
- Affix Corvum with the folded edge flush with the sheet edge on three sides

- With the backing strip folded back insert Corvum accurately into the groove
- **Affix Corvum all the way to the corner**
- Successively remove backing strip
- Press on

- Seal the sides

- Cut out 90° angle pieces from 4 short pieces of Corvum
- Seal the corners

9



- Finally seal the overlaps using Sicrall 60

10

How it should look:

- Skylight permanently airtightly sealed with Corvum 30/30 and Sicrall 60

Corvum® 30/30 P. 124

Mounting vapour control layer for injection insulation

1

- Prepare rafter bottom side with Twinet to prevent uncontrolled filling of neighbouring field
- **Attention:** Twinet is not designed for permanent carrying of the insulation material weight

2

- Apply vapour control layer with the writing facing you, **press firmly onto Twinet**
- Overlap the membranes by approx. 10 cm

3 **crosswise to the supporting structure**

or

4 **longitudinally to the supporting structure**

- **Before injecting the insulation material:**
  Install battens (to carry the insulation material weight)

Airtight on the inside

- Make a star cut
- Inject insulation material
- Provide tight joists with an air outlet hole

- Paste over injection hole using Sicrall 170

- Finally install interior cladding (protects against mechanical influences and UV radiation)

- Further information about injection insulation is available at **www.siga.swiss** or in our user folder
- Ask your SIGA contact person if you have any technical questions
- Always use the injection insulation material according to the manufacturer's instructions
- Installation of vapour control layer with stapler: staple distance ≤ 10 - 15 cm
- SIGA Majrex and SIGA Majpell 5 can be used with all types of injection insulating material

Tips and tricks

In case of wide rafter fields:

- When the vapour control layer is installed crosswise the seals of the overlaps can be reinforced by additional pieces of Sicrall crosswise to the overlap.

- We recommend (e.g. for flat roofs, wide joists or extremely high insulation material weight) installation of the membrane in the direction of the rafters, sealing in the rafter area and longitudinal installation of the battens.

Majrex® P. 115 | **Majpell®** 5 P. 116 | **Sicrall** 170 P. 119

Mounting vapour control layer for roof renovation from the outside

- Fit a sheet of insulating material with a solid structure between the rafters (protects vapour control layer against sharp, protruding objects)
- Seal vapour control layer at the lowest part of the rafters using Twinet

- **Apply Majrex** with the unprinted side facing towards you
- Overlap membranes by approx. 10 cm, fix in place with Twinet and additionally with a stapler if required
- See photo 2a for mounting of Majpell 5

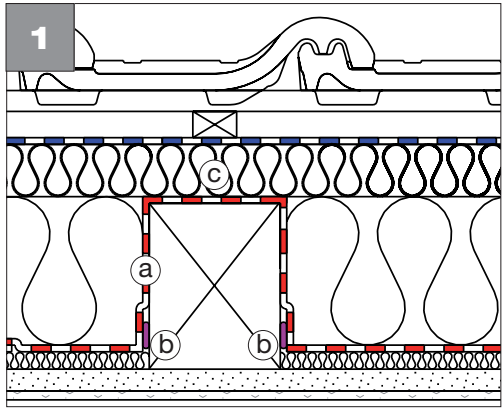
- Seal overlaps and penetrations airtightly using Wigluv 60
- Not suitable for makeshift coverage/ construction coverage

- Fill insulation material in compartments in a tight fit

Airtight on the inside

Roof renovation from the outside with Majpell 5:

- **Lay Majpell 5** with the smooth side and the writing facing you



- Seal vapour control layer (a) airtight at the bottom of the rafters with Twinet (b)
- Thermal insulation layer (c) above the rafters R ≥ 1.1
- For locations > 800 above sea level plan with a building physicist

Majrex® P. 115 | **Majpell**® 5 P. 116 | **Twinet**® P. 126

Mounting vapour control layer for above-rafter insulation

1

- **Apply Majrex** with the unprinted side facing towards you
- Overlap membranes by approx. 10 cm, fix in place with Twinet and additionally with a stapler if required

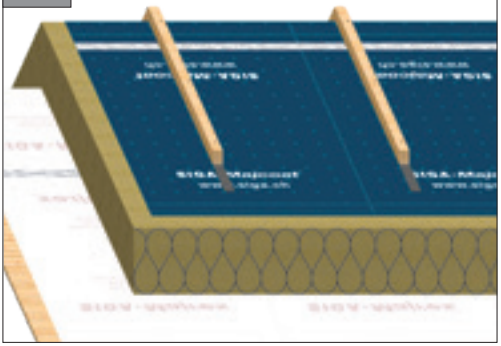
2

- Seal overlaps and penetrations airtightly using Wigluv 60
- Not suitable for makeshift coverage/ construction coverage

3

How it should look:
- Majrex for above-rafter insulation

4 **Schematic diagrams**



Above-rafter insulation with Majpell 5:
- **Lay Majpell 5** with the smooth side and the writing facing you

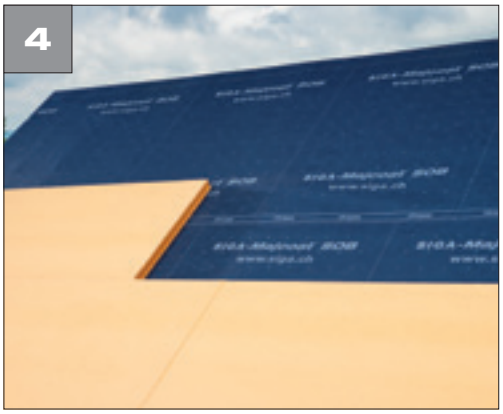
Majrex® P. 115 | **Majpell**® 5 P. 116 | **Wigluv**® 60 P. 128

Installation of breathable membrane for alternative exterior renovation

- Fit sorptive insulating material without cavities to top edge of rafters
- If the previous insulation is to remain in place, add at least 40 mm of sorptive insulation (Figures 5 and 6)

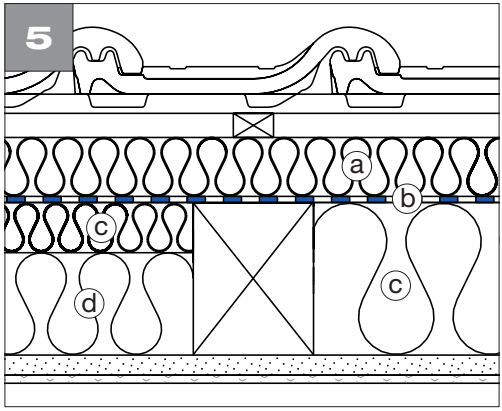
- Lay the membrane with the writing facing you
- Secure the membrane in the overlap area using a stapler

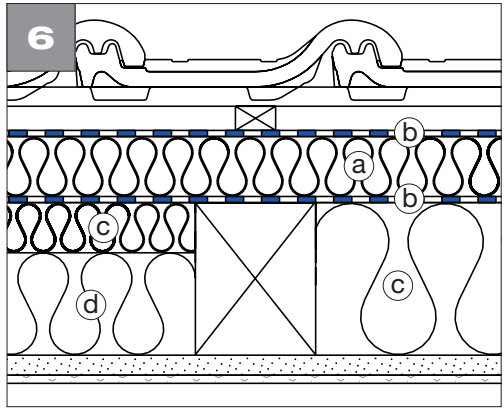
- Lay the second membrane
- Ensure that there is an overlap of 10 cm
- Remove the two backing strips and press the bond firmly down in the application area



- Lay diffusion-open thermal insulation above Majcoat (SOB) ≥ 52 mm

Windtight and rainproof on the outside





ⓐ Diffusion-open thermal insulation layer above rafters ≥ 52 mm
ⓑ Majcoat & Majcoat SOB / Majcoat 150 & Majcoat 150 SOB bonded so that it is airtight and rainproof
ⓒ Sorptive thermal insulation ≥ 40 mm laid without cavities
ⓓ Existing mineral rock wool laid without cavities
Important note: For locations ≥ 800 above sea level, plan with a building physicist

Majcoat® SOB P. 134

Majcoat® 150 SOB P. 135

Installation of underlay and roof membranes - with SOB

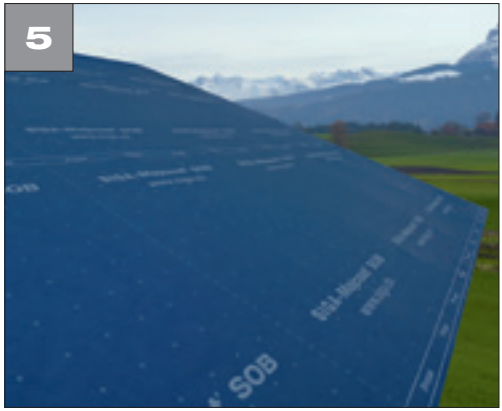
- Apply the membrane with the lettering facing you

- Fix the membrane above the adhesive joint using a stapler

- Lay the second membrane
- Overlap the membranes by approx. 10 cm
- Remove both backing strips

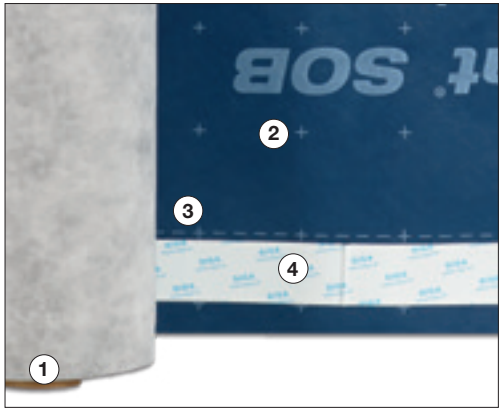
- Press the bond firmly down in the application area
- Install battens

Windtight and rainproof on the outside



How it should look:

See **Tips and tricks for installation** P. 102-104



- **Protruding roll core** (1) protects Majcoat SOB up to the very last metre
- **Cutting aid** (2) **bonding aid** (3) and **twin-adhesive zone with adhesive applied on both sides** (4) save time

Majcoat® SOB P. 134

Majcoat® 150 SOB P. 135

Installation of underlay and roof membranes

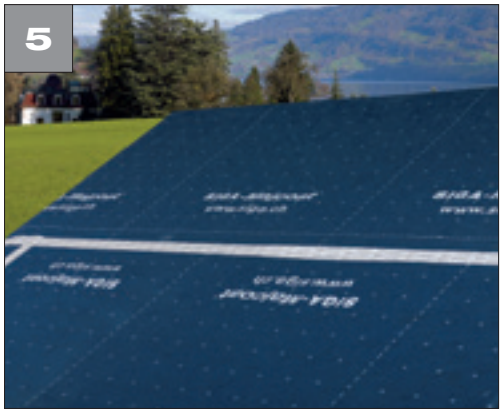
- Apply the membrane with the lettering facing you

- Secure the membrane in the overlap area using a stapler

- Lay the second membrane
- Overlap the membranes by approx. 10 cm and secure them in the bonding area with a stapler

- Seal the underlay and roof membranes rainproof and windtight with Wigluv 60
- Install battens

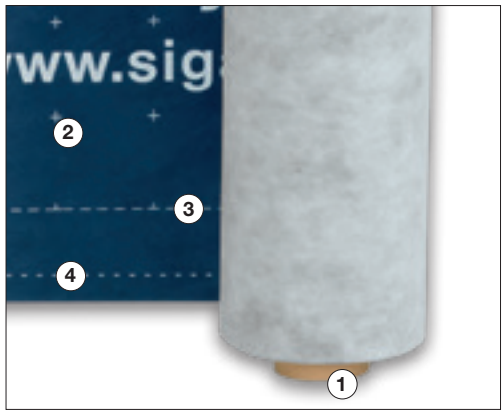
Windtight and rainproof on the outside



How it should look:

- The overlap is permanently windtightly sealed with Wigluv 60

See **Tips and tricks for installation** P. 102-104



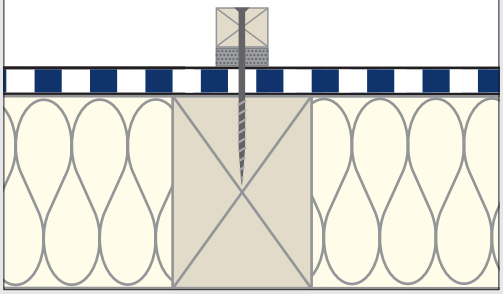
- **Protruding roll core** (1) protects Majcoat up to the very last metre
- **Printed cutting** (2) **laying** (3) and **bonding aid** (4) save time

Majcoat® P. 134

Majcoat® 150 P. 135

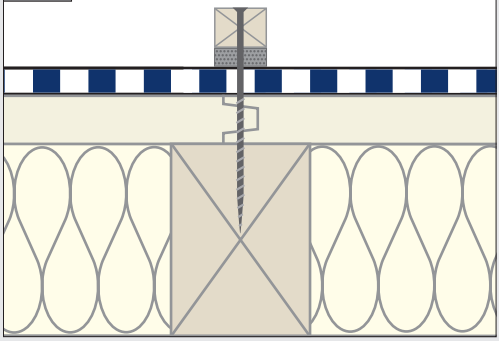
Tips and tricks

A Battens on supporting structure



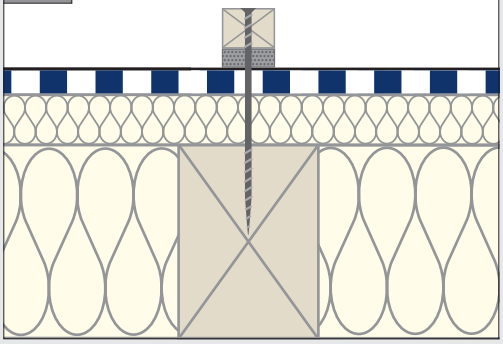
- Mount counter battens in the direction of the supporting structure - directly on the supporting structure, e.g. rafters
- **Important:** counter battens must rest on the underlay with their complete surface

B Battens on boarding/ roof underlay membrane



- Mount counter battens directly on boarding or underlays which have been laid flush

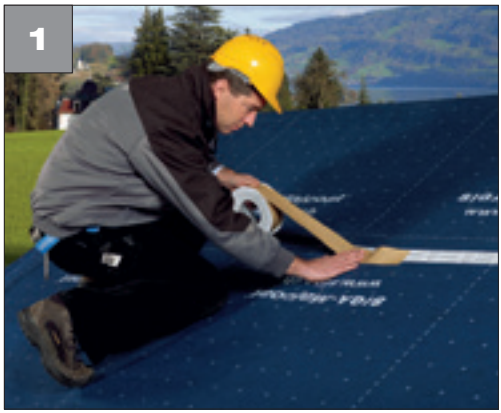
C Heat insulating layer between battens and supporting structure



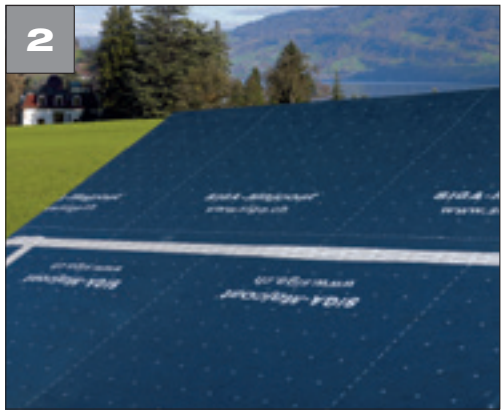
- Mount using suitable screws (e.g. full thread)
- Sufficient pressure resistance of heat insulation
- Wood-based softboards must be declared as under-roof /underlay boards
- Water carrying layer must be the same height at all points

Windtight and rainproof on the outside

Roof underlay membrane overlap



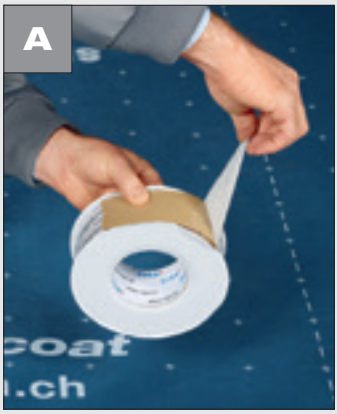
- Align Wigluv centrally along the overlap and secure in place
- Bond without tension and creases and press on firmly
- The printed bonding aid saves time

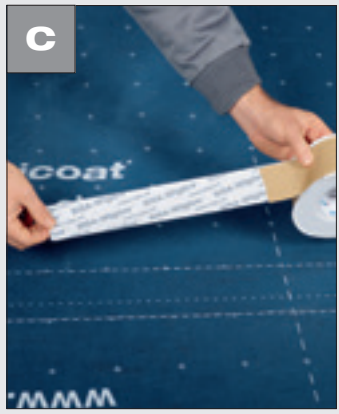


How it should look:

- The overlap is permanently windtightly sealed with Wigluv 60

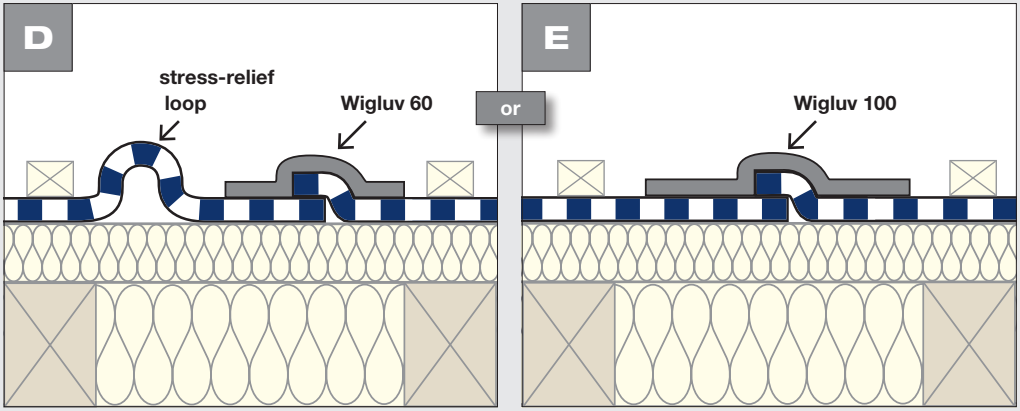
Tips and tricks





- Release Wigluv from its backing paper
- Unroll a turn of Wigluv so that the backing strip is at the top
- **Advantage:** backing strip separates automatically on unrolling

Windtight and rainproof on the outside



- Membranes show different expansion and shrinkage characteristics
- **Make a stress-relief loop in the membrane** or seal overlaps with **Wigluv 100** if:
  · the counter battens do not rest on the solid underlay with their complete surface or
  · the membrane is laid vertically

Wigluv® 60 P. 128

Wigluv® 100 P. 130

Windtight and rainproof on the outside

Roof underlay membrane penetration

- Guide the membrane precisely around the circular penetration
- **Note: Start sealing at the lowest point!** Provides extra protection against water penetration

- Fix Wigluv half on the circular penetration, then half on the membrane
- Press down firmly
- Apply subsequent pieces in overlapping layers

How it should look:

- Circular penetration sealed windtightly in layers with Wigluv 60
- Water will reliably run off

Wigluv ®60 P. 128

Mounting of nail sealing tape

- Stick the nail sealing tape to the counter batten
- **Nail sealing tape should not exceed the width of the counter batten**

- Use backing strip for simple and quick application:
- Fold back the starting part of the backing strip
- Backing strip is handy and can be removed quickly later

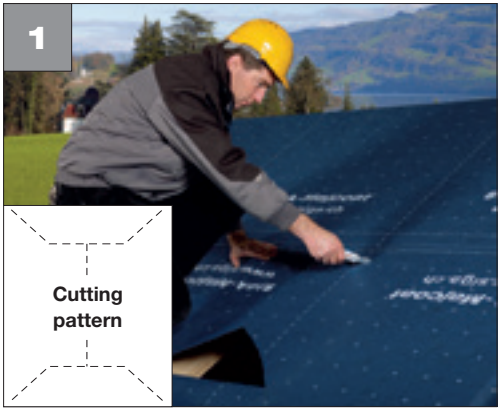
- Align the counter batten with the backing strip folded back on the roof underlay membrane

- Separate the backing strip and press the counter batten down

- Finally mount the roof underlay membrane by screwing or nailing the counter battens to a solid support

Nail sealing tape ® P. 136

Skylight joint



- Make a Y-cut in the roof underlay membrane to the size of the installation frame (see cutting pattern)
- Fold back the sides

- Fit the skylight into the mounting frame
- Screw it on
- **Read and observe the instruction manual supplied by the skylight manufacturer!**

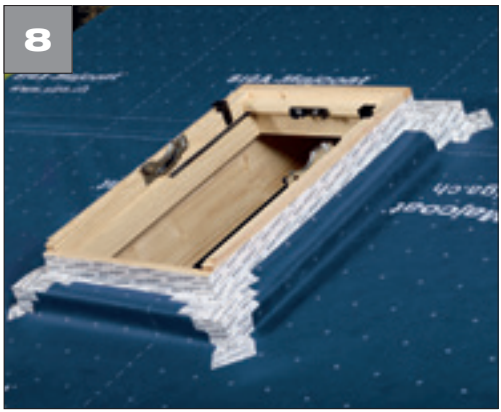
- Secure the roof underlay membrane to installation and skylight frame on all sides

- Cut off approx. 3 cm below the top of the skylight frame

Windtight and rainproof on the outside

- Seal the corners windtight with short pieces
- **Note: Start sealing from the lowest point!**
  Provides extra protection against water penetration

- Seal the roof underlay membrane all round the skylight frame so that it is windtight



How it should look:

- Skylight sealed windtightly with Wigluv 60
- Provide the penetration with extra protection with a deflection plate

Wigluv ® 60 P. 128

Bonding woodfibre boards

Requirements for secure bonding:

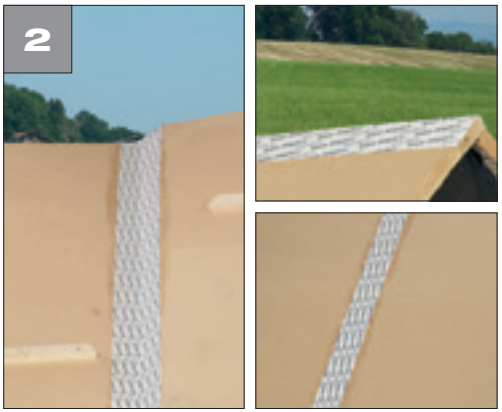
- The substrate must be sustainable, swept clean and free of ice. It must not be adhesive-repellent

To create extreme adhesion:

- Shake high-performance primer Dockskin
- Apply a covering coat (a)
- Depending on the temperature and substrate wait until Dockskin is **transparent** and **sticky** (b)

Joint, valley, roof ridge

- Prime with Dockskin
- Apply Wigluv in the middle, align



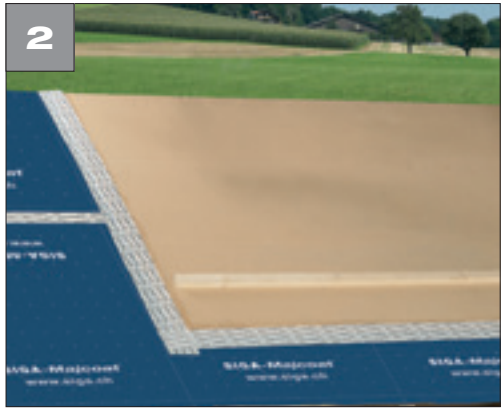
How it should look:

- Valley, ridge and joint are sealed windtightly with Dockskin and Wigluv 100 or 150

Windtight and rainproof on the outside

Covering membrane

- Prime woodfibre board with Dockskin
- Apply Wigluv in the middle, align
- Remove both backing strips simultaneously, press on



How it should look:

- The transfer area between the covering membrane and the woodfibre board is sealed windtightly with Dockskin and Wigluv 100

Dockskin® P. 127

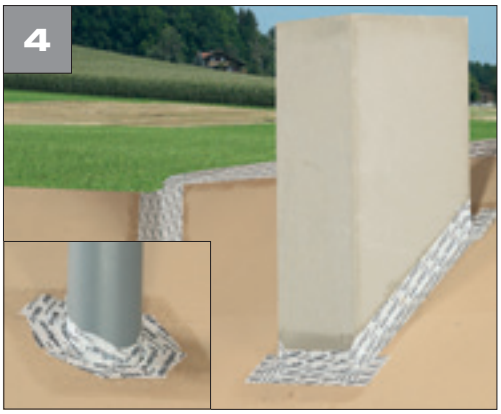
Wigluv® 100 & 150 P. 130

Penetration

- Prime with Dockskin
- Starting at the bottom and working upwards, cut Wigluv at both ends with approx. 5 cm excess
- Bond half of Wigluv onto the penetration and then half onto the woodfibre board

- Cut into the excess bisecting the angle and fold over
- **Do not apply the knife right in the corner!**

- **Starting at the bottom and working upwards:** repeat on each side



How it should look:

- The penetration is sealed windtightly with Dockskin and Wigluv 100

Windtight and rainproof on the outside

Skylight

- Prime with Dockskin
- **Starting at the bottom and working upwards:** cut Wigluv to length with approx. 5 cm excess at both ends
- Bond half of Wigluv onto the frame and then half onto the woodfibre board

- Cut into the excess bisecting the angle and fold over
- **Cut just short of the corner!**

- **Starting at the bottom and working upwards:**
  Repeat on each side

How it should look:

- The skylight is sealed windtightly with Dockskin and Wigluv 150

- ***Hygrobrid***®
  increased safety in every construction
- **dimensionally stable**
  can be laid quickly and without wrinkles
- **printed cutting and laying aid**
  time saving

phA CERTIFIED COMPONENT Passive House Institute

Product specifications

Product	Article no.	Width	Length	m^2	Weight	Pallet
Majrex 1.5 m	8310-150050	1.5 m	50 m	75 m^2	13.5 kg	30 rolls

Modified PE/PA reinforced with PET fibres • Thickness: 0.3 mm • Weight per unit area: 150 g/m^2
CE, EN 13984, type A • UV stable: 12 weeks • Fire behaviour: class E (according to EN 13501-1)
Hygrobrid + moisture variable • Temperature resistance: -40 °C to +80 °C

Majpell®5

The vapour control layer for roof, wall and ceiling structures

✓ **s_d value 5 m**
safety through high moisture management potential

✓ **flexible**
can be laid quickly and easily

✓ **printed cutting and laying aid**
time saving

Product specifications

Product	Article no.	Width	Length	m²	Weight	Pallet
Majpell 5 3 m	8510-300050	3 m	50 m	150 m²	22 kg	20 rolls
Majpell 5 1.5 m	8510-150050	1.5 m	50 m	75 m²	11 kg	30 rolls

PO layer, reinforced with PP fibres • Thickness: 0.4 mm • Weight per unit area: 126 g/m²
CE, EN 13984, type A • UV-stable: 12 weeks • Fire behaviour: class E (according to EN 13501-1)
s_d value: 5 m • Vapour resistance: 1 MNs/g • Temperature resistance: -40 °C to +80 °C

✓ **s_d value 25 m**
safety through high diffusion resistance

✓ **flexible**
can be laid quickly and easily

✓ **printed cutting and laying aid**
time saving

Product specifications

Product	Article no.	Width	Length	m²	Weight	Pallet
Majpell 25 3 m	8520-300050	3 m	50 m	150 m²	19.5 kg	20 rolls
Majpell 25 1.5 m	8520-150050	1.5 m	50 m	75 m²	9.5 kg	30 rolls

PO layer, reinforced with PP fibres • Thickness: 0.4 mm • Weight per unit area: 120 g/m²
CE, EN 13984, type A • UV-stable: 12 weeks • Fire behaviour: class E (according to EN 13501-1)
s_d value: 25 m • Temperature resistance: -40 °C to +80 °C

Sicrall® 60

Single-sided high-performance tape for overlaps

- ✓ **extremely strong adhesion**
  reliable, long-term building value
- ✓ **sturdy carrier material**
  saves time in case of long overlaps
- ✓ **hand-tearable**
  time saving

phA CERTIFIED COMPONENT Passive House Institute

Product specifications

Product	Article no.	Box	Pallet	Width	Length
Sicrall 60	4510-6040	10 rolls	48 boxes	60 mm	40 m

Special reinforced paper: splash-water resistant, hand-tearable • For above-rafter insulation and renovation from the outside, we recommend Wigluv 60 for the permanent airtight sealing of vapour control layers at overlaps
Temperature resistance: -40 °C to +100 °C

Suitable for airtight bonding acc. to:

CH: SIA 180: D: EnEV, DIN 4108-7 AT: ÖNORM B 8110-2: UK: BS 5250

✓ **17 cm wide**
airtight pasting-over
of injection holes

✓ **box with cutting gauge**
and built-in blade
quick and accurate cutting

✓ **in dispenser box**
roll is protected
against dirt at all times

Product specifications

Product	Article no.	Box	Pallet	Width	Length
Sicrall 170	4510-6040	10 rolls	48 boxes	60 mm	40 m

Special reinforced paper: splash-water resistant, hand-tearable • For permanently windtight sealing of injection holes and leaks in the exterior area, we recommend you use Wigluv 150
Temperature resistance: -40 °C to +100 °C

Suitable for airtight bonding acc. to:
CH: SIA 180: D: EnEV, DIN 4108-7 AT: ÖNORM B 8110-2: UK: BS 5250

Rissan® 60

Single-sided high-performance tape for circular penetrations

✓ **extremely strong adhesion**
reliable, long-term
building value

✓ **smooth carrier material**
clings tightly around
pipes and cables

✓ **elastic**
keeps joints sealed despite
structural movements

Product specifications

Product	Article no.	Box	Pallet	Width	Length
Rissan 60	2510-6025	10 rolls	42 boxes	60 mm	25 m

Special, reinforced PE film, elastic • For above-rafter insulation and renovation from the outside, we recommend Wigluv 60 for the permanent airtight sealing of vapour control layers with circular penetrations
Temperature resistance: -40 °C to +100 °C

Suitable for airtight bonding acc. to:

CH: SIA 180 D: EnEV, DIN 4108-7 AT: ÖNORM B 8110-2: UK: BS 5250

- ✓ **extremely strong adhesion**
  reliable, long-term building value
- ✓ **elastic**
  keeps joints sealed despite structural movements
- ✓ **slit backing strip**
  simple and quick to apply

Product specifications

Product	Article no.	Box	Pallet	Width	Length
Rissan 100	2510-10025	6 rolls	42 boxes	100 mm	25 m
Rissan 150	2510-15025	4 rolls	42 boxes	150 mm	25 m

Special, reinforced PE film, elastic • The bond must not be under standing water
Temperature resistance: -40 °C to +100 °C

Suitable for airtight bonding acc. to:
CH: SIA 180 D: EnEV, DIN 4108-7 AT: ÖNORM B 8110-2 UK: BS 5250

✓ **durably elastic**
reliably absorbs structural movements

✓ **durably self-adhesive**
no supporting lath required

✓ **solvent-free**
unlimited durability, resistant to ageing

Product specifications

Product	Article no.	Pallet	Box	Contents	Coverage:
Primur tubular bag	3520	50 boxes	12 tubular bags + 5 nozzles	600 ml	12 - 16 m
Primur cartridge	3510	75 boxes	12 cartridges	310 ml	6 - 8 m

Container made of PP, no aluminium • 100 % recyclable
Primur can be painted over • Keep out of reach of children!
Temperature resistance: -40 °C to +100 °C

Suitable for airtight bonding acc. to:
CH: SIA 180: D: EnEV, DIN 4108-7 AT: ÖNORM B 8110-2 UK: BS 5250

- ✓ **extremely high adhesive strength without drying time**
  indoor and outdoor joints can be subjected to loads immediately
- ✓ **apply Primur roll before mounting the vapour control layer**
  clean and 50 % less working time
- ✓ **constantly 4 mm thick and elastic**
  reliably absorbs structural movements

Product specifications

Product	Article no.	Box	Pallet	Width	Thickness	Length
Primur roll	3540-1208	10 rolls	40 boxes	12 mm	4 mm	8 m

The bond must not be under standing water
Primur can be painted over
Temperature resistance: -40 °C to +100 °C

Suitable for airtight bonding acc. to:

CH: SIA 180: D: EnEV, DIN 4108-7 AT: ÖNORM B 8110-2 UK: BS 5250

Corvum® 30/30

High-performance tape for angular penetrations, purlins, inside and outside corners and skylights

- ✓ **pre-folded 30/30 mm**
  precise and secure in corners
- ✓ **1 backing strip already removed**
  simple and quick bonding
- ✓ **1 backing strip protruding**
  easy to remove

Product specifications

Product	Article no.	Box	Pallet	Width	Length
Corvum 30/30	5200-303025	10 rolls	40 boxes	30/30 mm	25 m

Special reinforced paper: splash-water resistant • Temperature resistance: -40 °C to +100 °C

Suitable for airtight bonding acc. to:

CH: SIA 180: D: EnEV, DIN 4108-7 AT: ÖNORM B 8110-2 UK: BS 5250

Europ. Patent: 1508436 + 1508648 / US Patent No. 7.445.828 B2

- ✓ **pre-folded 12/48 mm**
  invisible behind cladding
- ✓ **1 backing strip already removed**
  simple and quick bonding
- ✓ **1 backing strip protruding**
  easy to remove

Product specifications

Product	Article no.	Box	Pallet	Width	Length
Corvum 12/48	5200-124825	10 rolls	40 boxes	12/48 mm	25 m

Special reinforced paper: splash-water resistant • Temperature resistance: -40 °C to +100 °C

Suitable for airtight bonding acc. to:

CH: SIA 180: D: EnEV, DIN 4108-7 AT: ÖNORM B 8110-2 UK: BS 5250

Europ. Patent: 1508436 + 1508648 / US Patent No. 7.445.828 B2

Twinet®

Double-sided tape for the pre-installation of vapour control layers on hard substrates

- ✓ **extremely adhesive on both sides**
  quick, safe installation without stapler
- ✓ **protective coating prevents soiling**
  simple to apply up to the end
- ✓ **tearproof backing strip**
  saves time

Product specifications

Product	Article no.	Box	Pallet	Width	Length	Non-woven carrier thickness
Twinet 20 mm	6610-2050	10 rolls	75 boxes	20 mm	50 m	0.35 mm

Twinet is not suitable for permanent load-bearing applications • After installation, the vapour control layer must be additionally fastened, e.g. using jack rafters, counter battens, facing
Temperature resistance: -40 °C to +100 °C

Dockskin®

High-performance primer for strengthening sandy and fibrous substrates

✓ **quick drying**
saves time

✓ **strong adhesion**
extremely good adhesion on soft fibre boards, masonry and concrete

✓ **usable on cold substrates from -10° C**
solvent-free

Product specifications

Product	Article no.	Coverage with Rissan/Wigluv 100	Coverage with Rissan/Wigluv 150	Box	Pallet
Dockskin 4 kg	5920	~140 m	~100 m	-	96 containers
Dockskin 1 kg	5930	~35 m	~25 m	8 bottles	56 boxes

Water-based, solvent-free acrylate-copolymer dispersion • Shelf life: 18 months from the date of sale if unopened • Clean the brush immediately with water • Keep out of reach of children! Temperature resistance: -40 °C to +100 °C

- ✓ **high adhesive strength at high and low temperatures** reliable, long-term building value
- ✓ **diffusible s_d < 2 m** prevents condensation build-up
- ✓ **resistant to driving rain and impermeable to water** permanent protection for roof and facade

Product specifications

Product	Article no.	Box	Pallet	Width	Length
Wigluv 60	7510-6040	10 rolls	48 boxes	60 mm	40 m

Diffusible, special PO film • s_d-value < 2 m • Vapour resistance: <0.4 MNs/g • Hand-tearable, elastic, impermeable to water • Suitable for makeshift coverage/construction cover • The bond must not be under standing water • Minimum roof pitch: 10° • Temperature resistance: -40 °C to +100 °C

Europ. Patent: 1847577

- ✓ **slit and tearproof backing strips 20/40**
  precise and quick in corners
- ✓ **diffusible s_d < 2 m**
  prevents condensation build-up
- ✓ **high adhesive strength at high and low temperatures**
  reliable, long-term building value

Product specifications

Product	Article no.	Box	Pallet	Width	Length
Wigluv 20/40	7510-6040	10 rolls	48 boxes	60 mm	40 m

Diffusible, special PO film • s_d-value < 2 m • Vapour resistance: <0.4 MNs/g • Elastic, impermeable to water • The bond must not be under standing water • Minimum roof pitch: 10°
Temperature resistance: -40 °C to +100 °C

Europ. Patent: 1847577

- ✓ **high adhesive strength at high and low temperatures**
  reliable, long-term building value
- ✓ **diffusible s_d < 2 m**
  prevents condensation build-up
- ✓ **slit backing strip**
  simple and quick to apply

Product specifications

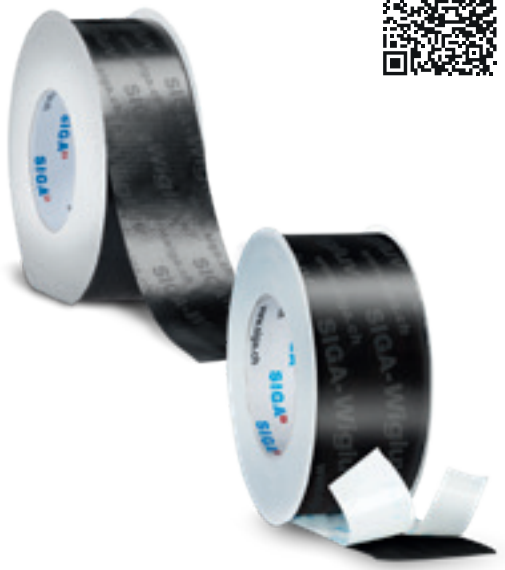
Product	Article no.	Box	Pallet	Width	Length
Wigluv 100	7510-10025	6 rolls	42 boxes	100 mm	25 m
Wigluv 150	7510-15025	4 rolls	42 boxes	150 mm	25 m

Diffusible, special PO film • s_d-value < 2 m • Vapour resistance: <0.4 MNs/g • Elastic, impermeable to water • The bond must not be under standing water • Minimum roof pitch: 10°
Temperature resistance: -40 °C to +100 °C

Europ. Patent: 1847577

Wigluv® black & black 20/40

Single-sided high-performance tape for overlaps, penetrations and windows



✓ **extremely UV-stable**
highly resistant to ageing on black facade membranes

✓ **high adhesive strength at high and low temperatures**
reliable, long-term building value

✓ **diffusible s_d < 2 m**
prevents condensation build-up

Product specifications

Product	Article No.	Box	Pallet	Width	Length
Wigluv black	7509-6040	10 rolls	48 boxes	60 mm	40 m
Wigluv black 20/40	7509-6025	10 rolls	42 boxes	20/40 mm	25 m

Diffusible special PO film • sd value < 2 m • Elastic, impermeable to water, UV-stable (freely exposed to the elements for 12 months) • Minimum roof pitch: 10° • The bond must not be under standing water • Temperature resistance: -40 °C to +100 °C
Suitable for facades with joint holes of ≤ 50 mm and a surface proportion of max. 40%

Wigluv black: hand-tearable
Wigluv black 20/40: slit and tear-resistant backing strip

Europ. Patent: 1847577

Majvest® 700 & 700 SOB

The facade membrane for permanently open facades

- ✓ **extremely UV-stable**
  resistant to ageing
  and permanently tight
- ✓ **SIGA adhesive strength «on board»**
  sticks permanently and extremely well at high and low temperatures
- ✓ **robust and dimensionally stable**
  easy to apply and
  visually very pleasing

Product specifications

Product	Article No.	Width	Length	m^2	Weight	Pallet
Majvest 700 SOB	8975-150033	1.5 m	33.4 m	50 m^2	16 kg	20 rolls
Majvest 700	8970-150033	1.5 m	33.4 m	50 m^2	15 kg	20 rolls

2-layered, acrylic coating on robust polyester fleece • Thickness: 0.6 mm
Weight per unit area: 270 g/m^2 • CE, EN 13859-2 • sd value: 0.02 m
Resistant to driving rain, waterproof: W1 (according to EN 1928)
Fire behaviour: Class B s1, d0 (according to EN 13501)
Temperature resistance: -40 °C to +80 °C • Meets the requirements of EN 13859-2 after 5000 hours of artificial ageing.

Suitable for facades with joint holes of ≤ 50 mm and a surface proportion of max. 40%

✓ **3-layer, tear-proof and flexible**
can be laid easily,
quickly and securely

✓ **for all closed facades**
for all-purpose application

✓ **cutting and bonding aid**
time saving

Product specifications

Product	Article no.	Width	Length	m²	Weight	Pallet
3 m	8910-300050	3 m	50 m	150 m²	22 kg	20 rolls
1.50 m	8910-150050	1.5 m	50 m	75 m²	11 kg	20 rolls

3-layered, functional layer, reinforced on both sides with PP fibre-fleece • Thickness: 0.5 mm • Weight per unit area: 135 g/m² • CE, EN 13859-2 • s_d value: 0.05 m • Vapour resistance: <0.01 MNs/g
Resistant to driving rain, waterproof: W1 (according to EN 1928) • Fire behaviour: class E according to EN 13501-1 • Temperature resistance: -40 °C to +80 °C • The roof pitch must be at least 10°

Outdoor exposure: 4 weeks

✓ **SIGA adhesive strength «on board»**
sticks permanently and extremely well at high and low temperatures

✓ **3 layers, functional layer protected by 2 fleeces**
resistant to driving rain and durably moisture-diffusing

✓ **sturdy and tear-proof**
no damage in construction phase

Product specifications

Majcoat

Article no.	Width	Length	m²	Weight	Pallet
8710-150050	1.5 m	50 m	75 m²	16 kg	30 rolls

Majcoat SOB

Article no.	Width	Length	m²	Weight	Pallet
8720-150050	1.5 m	50 m	75 m²	17 kg	30 rolls

3 layers, functional layer reinforced on both sides with PP non-woven • Thickness: 0.6 mm
Weight per unit area: 190 g / m² • CE, EN 13859-1 / EN 13859-2 • s_d value: 0.1 m
Vapour resistance: <0.02 MNs/g • Resistant to driving rain, waterproof: > W1 (according to EN 1928)
Fire behaviour: class E (according to EN 13501-1) • Temperature resistance: -40 °C to +80 °C • The roof pitch must be at least 10°

Suitable as roof underlay for normal and increased requirements according to SIA 232
Complies with the ZVDH product data sheet Breathing membranes class UDB-A according to table 1
Suitable as roof membrane class USB-A
Suitable for makeshift coverage/construction cover for up to 8 weeks
Suitable SIGA accessories: Wigluv, Primur roll, SIGA nail sealing tape II
Majcoat SOB: Suitable as rainproof roof underlay according to ÖNORM B 4119

✓ **SIGA adhesive strength «on board»**
sticks extremely strong at high and low temperatures

✓ **imprinted laying aid**
fast and easy application

✓ **sturdy**
tear and abrasion resistant

Product specifications

Majcoat 150

Article no.	Width	Length	m^2	Weight	Pallet
8730-300050	3 m	50 m	150 m^2	24 kg	20 rolls
8730-150050	1.5 m	50 m	75 m^2	12 kg	30 rolls

Majcoat 150 SOB

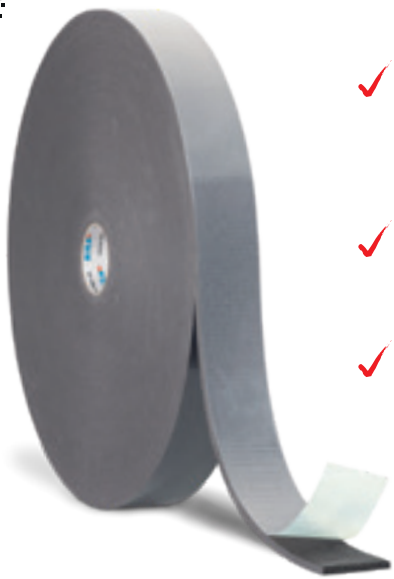
Article no.	Width	Length	m^2	Weight	Pallet
8740 -150050	1.5 m	50 m	75 m^2	13 kg	30 rolls

3 layers, functional layer reinforced on both sides with PP non-woven • Thickness: 0.55mm
Weight per unit area: 150 g / m^2 • CE, EN 13859-1 / EN 13859-2 • s_d value: 0.05 m
Vapour resistance: <0.01 MNs/g • Resistant to driving rain, waterproof: > W1 (according to EN 1928)
Fire behaviour: class E (according to EN 13501-1) • Temperature resistance: -40 °C to +80 °C • The roof pitch must be at least 10°

Suitable as roof underlay for normal and increased requirements according to SIA 232
Complies with the ZVDH product data sheet Breathing membranes class UDB-A according to table 1
Suitable as roof membrane class USB-A
Suitable for makeshift coverage/construction cover for up to 4 weeks
Suitable SIGA accessories: Wigluv, Primur roll, SIGA nail sealing tape II
Majcoat 150 SOB: Suitable as rainproof roof underlay according to ÖNORM B 4119

Nail sealing tape®

For permanently rainproof sealing when installing battens



- ✓ **extremely adhesive on both sides**
  resistant to driving rain,
  suitable for makeshift coverage
- ✓ **pre-assembly on counter batten**
  simple and quick application
- ✓ **4 mm thick special foam**
  reliable,
  long-term building value

Product specifications

Product	Article no.	Box	Pallet	Width	Thickness	Length
Nail sealing tape 50 mm	2005-50430	10 rolls	18 boxes	50 mm	4 mm	30 m

For roof gradients > 10° • Not recommended for PVC membranes • Minimum roof pitch: 10°
Temperature resistance: -40 °C to +100 °C • Nail sealing tape should not exceed the width of the counter batten

- ✓ **short drying time**
  immediate reliable sealing
- ✓ **durable bonding with SIGA tapes**
  reliable, long-term building value
- ✓ **easy to squeeze with high stability**
  ease of application in winter and summer

Product specifications

Product	Article no.	Box	Pallet	Content
Meltell 210 white	3720-0600.01	12 tubular bags + 6 nozzles	50 boxes	600 ml
Meltell 220 black	3720-0600.02	12 tubular bags + 6 nozzles	50 boxes	600 ml

Silane-terminated specialty polymers • Temperature resistance: -40 °C to +100 °C
Processing temperature: From -10 °C
Shelf life: 12 months from the date of production if unopened (see carton/container imprint)

Dockskin® 200

High-performance primer for strong anchoring of SIGA adhesive tapes on mineral substrates

- ✓ **dries quickly on damp substrates**
  immediate and reliable sealing
- ✓ **strong anchoring**
  reliable, long-term building value
- ✓ **easy to apply and highly economical**
  saves time and money

Product specifications

Product	Article no.	Content per bottle	Coverage with Fentrim (100mm primer surface)	Coverage with Fentrim (200mm primer surface)	Coverage with Fentrim (300mm primer surface)	Box	Palett
Dockskin 200	5820-1000	1 kg	100 m	50 m	30 m	6 bottles	54 boxes

Solvent-free polyurethane mixture • Shelf life: 12 months from the date of production if unopened (see carton/container imprint) • Keep out of reach of children! • Temperature resistance: -40°C to +100°C • Processing temperature: -10°C to +40°C

Fentrim® 330 grey

High performance single-sided adhesive tape when bonding wall and window elements to the floor on the inside

- ✓ **extremely high adhesive strength at high and low temperatures**
  easy to apply, immediately 100% tight
- ✓ **robust and flexible**
  reliable, no building damage
- ✓ **tearproof, slit backing strip**
  saves time and money

Product specifications

Product	Article no.	Box	Palett	Length
Fentrim 330 grey 150 mm	9430-015025.03	4 rolls	35 boxes	25 m
Fentrim 330 grey 200 mm	9430-020025.03	2 rolls	42 boxes	25 m
Fentrim 330 grey 300 mm	9430-030025.03	2 rolls	35 boxes	25 m
Fentrim 330 grey 400 mm	9430-040025.03	2 rolls	21 boxes	25 m

Fire behaviour: class E (according to EN 13501-1) • Temperature resistance: -40°C to +100°C • Suitable for installation as per RAL guidelines

Suitable for airtight bonding acc. to: CH: SIA 331/343/274 D: EnEV, DIN 4108-07 AT: ÖNORM B 5320 UK: BS 5250

- ✓ **extremely high adhesive strength on entire surface** easy to apply, immediately 100 % tight
- ✓ **pre-folded, without backing strip** fastest bonding to building components
- ✓ **non-woven with perforated zone suited for plastering-over** strong plaster adhesion on masonry

phA CERTIFIED COMPONENT Passive House Institute

Product specifications

Article no.	Box	Pallet	Width	Length
9511-508525	6 rolls	30 boxes	50/85 mm	25 m

Fire behaviour: class E (according to EN 13501-1) • Temperature resistance: -40 °C to +100 °C

Suitable for airtight bonding acc. to:
CH: SIA 180: D: EnEV, DIN 4108-7 AT: ÖNORM B 8110: UK: BS 5250

Europ. Patent: 1339924 / US Patent No. 7.445.828 B2

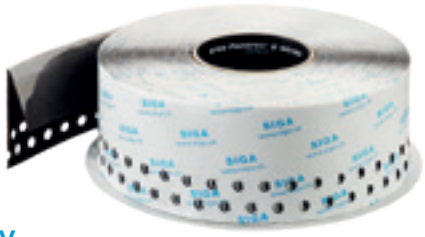
Fentrim® 2 50/85

Driving rain resistant high-performance tape with perforated plastering zone for plastered joints, for outdoor application

✓ **extremely high adhesive strength on entire surface**
easy to apply, immediately 100 % tight

✓ **pre-folded, without backing strip**
fastest bonding to building components

✓ **non-woven with perforated zone suited for plastering-over**
strong plaster adhesion on masonry



Product specifications

Article no.	Box	Pallet	Width	Length
9512-508525	6 rolls	30 boxes	50/85 mm	25 m

Fire behaviour: class E (according to EN 13501-1) • Temperature resistance: -40 °C to +100 °C
The bond must not be under standing water

Suitable for airtight bonding acc. to:

CH: SIA 180: D: EnEV, DIN 4108-7 AT: ÖNORM B 8110-2 UK: BS 5250

Europ. Patent: 1339924 / US Patent No. 7.445.828 B2

Fentrim® 20

Airtight high-performance tape with perforated plastering zone for window and door frames, for indoor application

- ✓ **extremely high adhesive strength on entire surface**
  easy to apply, immediately 100 % tight
- ✓ **15 mm pre-folded, without backing strip**
  fastest bonding to window frames
- ✓ **non-woven with perforated zone suited for plastering-over**
  strong plaster adhesion on masonry

Product specifications

Product	Article no.	Box	Pallet	Width	Length
100 mm	9511-158525	6 rolls	35 boxes	15/85 mm	25 m
150 mm	9511-1513525	4 rolls	35 boxes	15/135 mm	25 m
200 mm	9511-1518525	2 rolls	49 boxes	15/185 mm	25 m

Fire behaviour: class E (according to EN 13501-1)
Suitable for installation as per RAL guidelines
Temperature resistance: -40 °C to +100 °C

Suitable for airtight bonding acc. to:

CH: SIA 331/343/274 D: EnEV, DIN 4108-7 AT: ÖNORM B 5320 UK: BS 5250

Europ. Patent: 1339924 / US Patent No. 7.445.828 B2

Fentrim® 2

High-performance tape resistant to driving rain with perforated plastering zone for window and door frames, for outdoor application

- ✓ **extremely high adhesive strength on entire surface**
  easy to apply, immediately 100 % tight
- ✓ **15 mm pre-folded, without backing strip**
  fastest bonding to window frames
- ✓ **non-woven with perforated zone suited for plastering-over**
  strong plaster adhesion on masonry

Product specifications

Product	Article no.	Box	Pallet	Width	Length
100 mm	9512-158525	6 rolls	35 boxes	15/85 mm	25 m
150 mm	9512-1513525	4 rolls	35 boxes	15/135 mm	25 m
200 mm	9512-1518525	2 rolls	49 boxes	15/185 mm	25 m

UV resistance / atmospheric exposure: up to 3 months • **Fire classification:** class E (according to EN 13501-1)
Suitable for installation as per RAL guidelines • The bond must not be under standing water
Temperature resistance: -40 °C to +100 °C

Suitable for airtight bonding acc. to:

CH: SIA 331/343/274 D: EnEV AT: ÖNORM B 5320 UK: BS 5250

Europ. Patent: 1339924 / US Patent No. 7.445.828 B2

Fentrim® IS 20

Airtight high-performance tape without perforated plastering zone for window and door frames, for indoor application

✓ **extremely high adhesive strength on entire surface**
easy to apply,
immediately 100 % tight

✓ **15 mm pre-folded, without backing strip**
fastest bonding to window frames

✓ **bonding from -10° C**
fast and tight window installation all year-round

Product specifications

Product	Article no.	Box	Pallet	Width	Length
75 mm	9611-156025	8 rolls	35 boxes	15/60 mm	25 m
100 mm	9611-158525	6 rolls	35 boxes	15/85 mm	25 m
150 mm	9611-1513525	4 rolls	35 boxes	15/135 mm	25 m
200 mm	9611-1518525	2 rolls	49 boxes	15/185 mm	25 m
250 mm	9611-1523525	2 rolls	35 boxes	15/235 mm	25 m
300 mm	9611-1528525	2 rolls	35 boxes	15/285 mm	25 m

Fire behaviour: class E (according to EN 13501-1)
Suitable for installation as per RAL guidelines
Temperature resistance: -40 °C to +100 °C

Suitable for airtight bonding acc. to:
CH: SIA 331/343/274 D: EnEV, DIN 4108-7 AT: ÖNORM B 5320 UK: BS 5250

Europ. Patent: 1339924 / US Patent No. 7.445.828 B2

Fentrim® IS 2

High-performance tape resistant to driving rain without perforated plastering zone for window and door frames, for outdoor application

✓ **extremely high adhesive strength on entire surface**
easy to apply, immediately 100 % tight

✓ **15 mm pre-folded, without backing strip**
fastest bonding to window frames

✓ **bonding from -10° C**
fast and tight window installation all year-round

Product specifications

Product	Article no.	Box	Pallet	Width	Length
75 mm	9612-156025	8 rolls	35 boxes	15/60 mm	25 m
100 mm	9612-158525	6 rolls	35 boxes	15/85 mm	25 m
150 mm	9612-1513525	4 rolls	35 boxes	15/135 mm	25 m
200 mm	9612-1518525	2 rolls	49 boxes	15/185 mm	25 m
250 mm	9612-1523525	2 rolls	35 boxes	15/235 mm	25 m
300 mm	9612-1528525	2 rolls	35 boxes	15/285 mm	25 m

UV resistance / atmospheric exposure: up to 3 months • **Fire classification:** class E (according to EN 13501-1)
Suitable for installation as per RAL guidelines • The bond must not be under standing water
Temperature resistance: -40 °C to +100 °C

Suitable for airtight bonding acc. to:
CH: SIA 331/343/274 D: EnEV AT: ÖNORM B 5320 UK: BS 5250

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SIGA safety

Warranty

The SIGA warranty covers the product characteristics guaranteed in the product data sheets when used in accordance with the manual.
The information in this manual is provided to facilitate ordinary intended use or ordinary suitability for use and is based on our knowledge and experience. However, it does not discharge users from their responsibility for reviewing suitability and use. With the publication of a new version of the manual, the previous version loses its validity. The currently applicable version is available on the internet.
The warranty is excluded if an application does not comply with the instructions in the manual, or:

- in case of unusual influences on the product, in particular of chemical or mechanical nature
- if permanent mechanical strain (e.g. due to tensile forces resulting from insulation material weight) has an impact on the seal
- in case of multi-layered membranes or panelling materials without sufficient cohesive strength
- in case of open facade cladding with Majcoat/Majvest
- for Dockskin, if the adhesion is not executed with Wigluv, Rissan, Sicrall, Corvum, Primur, Twinet, or Fentrim
- if SIGA Fentrim IS is plastered over directly
- in case of airtight sealing in sauna and swimming pool applications
- if SIGA Fentrim / Fentrim 50/85 are applied directly on to a wood-based softboard
- in case of bonds against standing, non-pressing water according to DIN 18195 to 18535 / SIA 271
- if the requirements for a safe installation of the membranes are not fulfilled: The substrate must be free from any protruding, harmful objects such as screws etc.
- if the requirements for reliable bonding are not fulfilled: The substrate must be dry, uninterrupted, even, capable to bear loads, free of dust and grease and must not repel adhesives. Clean substrate before bonding and perform adhesion test on site. If necessary, strengthen with high-performance primer Dockskin / Dockskin 200. Caution! The bonds must not be under standing water. Creases or tensions in the membranes/ tape must be relieved by cutting and resealed.

Prerequisite for safe plastering over SIGA Fentrim:

- Before starting the plastering work make a plastering test on site
- Follow the recommendations of the plaster manufacturer

SIGA early warning system:
Thanks to the unique SIGA early warning system, any modifications and new developments in the field of standard substrates, boards or membranes, are systematically recorded and taken into account in the further development of SIGA products. Therefore, you should arrange for a regular inventory turnover to ensure that you always have SIGA products that are state-of-the-art in terms of technology and ecology.

Manual:
This manual can become invalid if new knowledge is acquired or new developments are made. The currently valid manual is available at www.siga.swiss

International Tests:

Technical details

Adhesive: SIGA high-perfomance adhesives are free of solvents, VOC, high boilers, plasticizers, chlorine and formaldehyde. They cannot be removed after application.

Working temperature: From -10 °C; Majcoat SOB from -15 °C;
Primur cartridge and tubular bag: from +5 °C

Ageing resistance: Durable adhesive power;
made without rubber, resins or solvents to prevent embrittlement.

Storage: Store SIGA products **cool** and **dry** in original packaging. In addition, store Primur cartridges, Primur tubular bags and Dockskin **frost-free**, and Majrex, Majpell, Majcaot and Majvest **away from UV radiation**. For Dockskin 200 and Meltell, **observe the use-by date**.

Developed and produced by: © SIGA

SIGA substrate matrix

Suitable substrates	**Twinet**®	**Rissan**® 60	**Rissan**® 100 & 150	**Sicrall**® 60 & 170	**Corvum**® 30/30 & 12/48	**Primur**® cartridge/tubular bag	**Primur**® roll	**Wigluv**® black	**Wigluv**® 60 & 20/40	**Wigluv**® 100 & 150	**Fentrim**® 20 & **Fentrim**® IS 20	**Fentrim**® 330 grey	**Fentrim**® 2 & **Fentrim**® IS 2	**Meltell**®
Wood	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
Hard wood-based panels	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
Softboards										✔[1]			✔[1]	
Gypsum plaster boards / gypsum fibre boards		✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
Cement fibre boards							✔	✔	✔	✔			✔	✔
Concrete, masonry, plaster			✔[1,2]			✔	✔	✔[1,2]		✔[1,2]	✔[2]	✔[2]	✔[2]	✔
Bituminous sheeting, EPDM in the base area			✔				✔			✔	✔	✔	✔	✔
Rigid insulation (EPS/XPS/PU)			✔							✔	✔	✔	✔	✔
Metal	✔	✔	✔	✔	✔		✔	✔	✔	✔	✔	✔	✔	✔
Hard plastics	✔	✔	✔	✔	✔		✔	✔	✔	✔	✔	✔	✔	✔

[1] Strengthen substrate with Dockskin.
[2] Strengthen dusty, soiled or non-load-bearing substrates with Dockskin or Dockskin 200.

If necessary, all above listed substrates can be primed with Dockskin or Dockskin 200.

Note: For the correct choice of product for the intended application, the substrate matrix, the application recommendations and product information in this manual must be considered.

Suitable membranes	**Twinet**®	**Rissan**® 60	**Rissan**® 100 & 150	**Sicrall**® 60 & 170	**Corvum**® 30/30 & 12/48	**Primur**® cartridge/tubular bag	**Primur**® roll	**Wigluv**® black	**Wigluv**® 60 & 20/40	**Wigluv**® 100 & 150	**Fentrim**® 20 & **Fentrim**® IS 20	**Fentrim**® 330 grey	**Fentrim**® 2 & **Fentrim**® IS 2	**Meltell**®
Vapour control layers / diffusion retarder membranes • Smooth to slightly rough PE/PA/PO/PP membranes • Kraft papers • Aluminium sheeting	✔	✔	✔	✔	✔	✔	✔				✔	✔		✔
Vapour control layers / diffusion retarder membranes for above-rafter insulation and roof renovations • Smooth to slightly rough PE/PA/PO/PP membranes • Aluminium sheeting	✔					✔	✔		✔	✔				
Breathable membranes /roof underlay membranes and roof membranes (does not apply to bitumen and PVC membranes))	✔*						✔	✔	✔	✔				
Facade membranes for closed facades							✔		✔	✔			✔	
Facade membranes for open facades							✔	✔						

* Select the product dimension according to the processing recommendation in this instruction manual.

Note: For use other than the installation aid, for the correct choice of product for the intended application, the substrate matrix, the application recommendations and product information in this manual must be considered.

SIGA 1966

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