

A History of Innovation

Focusing on tomorrow and proud of its 90-year heritage, SOPREMA remains the leading innovator in the field of roofing and waterproofing products.

SOPREMA has an intensive Research and Development agenda to provide building specifiers and owners with a superior, long-lasting alternative to conventional built-up roofing. SOPREMA's products are safer, easier and faster to install as well as environmentally friendly and cost effective.

SBS modified bitumen is about to change your concept of roofing!

SOPREMA membranes redefine the qualities of high-performance roofing by combining strength and flexibility. SBS modified bitumen increases elasticity by over 1000% and ensures resistance to temperature shifts from -30°C to 105°C on all surfaces regardless of inclination or roof complexity.

The SOPREMA ADVANTAGE!



COLVENT Roofing System

Technical Specifications

Base Sheet Installation

Beginning at the drains and perpendicular to the slope, dry-install the base sheet in parallel strips. Remove the silicone release paper to allow the sheet to adhere to the surface. Overlap side laps at least 75 mm. Align end joints and overlap at least 25 mm. Seal side joints by removing the backing tape and then heating the surface with a degranulator, melting the SBS along the edges of the joints to form a watertight seal. Seal the end joints by heat-welding a 300 mm cover strip centered over each joint. For installation without heating equipment, seal the side joints and position the end joint cover strip with adhesive.

Install screw and plate fasteners around the entire perimeter at 300 mm intervals. Cover the row of fasteners by extending the base flashing ply 100 mm past the fasteners.

Provide a smooth application, free of fishmouths, wrinkles, or tears.

Cap Sheet Installation

Beginning at the drains and perpendicular to the slope, position the cap sheet on the base sheet and heat-weld, overlapping side joints at least 75 mm and end joints at least 150 mm. Stagger joints at ends and between plies at least 300 mm. Terminate the cap sheet at the perimeter.

For adhesive application, position the cap sheet on a full bed of adhesive, using 6 to 8 L of adhesive for every 10 m². Roll the surface to ensure complete, uniform adhesion.

Provide a smooth application, free of fishmouths, wrinkles, or tears.

System Properties

Properties	Standards	COLVENT System
Breaking strength (kN/m)	CAN/CGSB 37.56-98 (L/T)	19.2 / 16.3
Strain energy (kN/m)	CAN/CGSB 37.56-98 (L/T)	9.4 / 9.2
Ultimate elongation (%)	CAN/CGSB 37.56-98 (L/T)	54 / 62
Tear resistance (N)	CAN/CGSB 37.56-98 (L/T)	155 / 150
Static puncture (N)	CAN/CGSB 37.56-98	380
Dimensional stability (%)	CAN/CGSB 37.56-98 (L/T)	0 / 0
Cold bending (°C) - initial - 90 days at 70°C	CAN/CGSB 37.56-98	-30 -30
Softening point (°C)	ASTM D36	≥ 110

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COLVENT Roofing System

A whole new approach to relieving stress.



Colvent offers the best of both worlds for your roof!



A high-performance base sheet that combines the historical predictability of a fully bonded membrane and the advantages of a loose-laid membrane.

COLVENT

COLVENT is specially designed to be installed directly onto COLGRIP insulation without an overlay board. Its unique design reduces the harmful effects of thermal cycling by distributing panel movement. The top surface is coated with a thermofusible film and has practical peel-and-stick overlap while the underside has a series of self-adhesive strips, which make the installation remarkably simple!

The capability of COLVENT to move with the substrate, ensures optimal stress distribution without jeopardizing the membrane and waterproofing integrity!

SAFE AND CONVENIENT

With COLVENT, pungent hot asphalt is a thing of the past, and the insulating overlays traditionally required to compensate for the effects of thermal cycling in fully bonded systems are no longer necessary. COLVENT's basic installation process also makes it one of the fastest membranes to install.

Installation is quick and easy. Simply align, remove the release paper, and allow the sheet to adhere to the installation surface. You'll be surprised at how much time you'll save on installation.



The Colvent Advantage

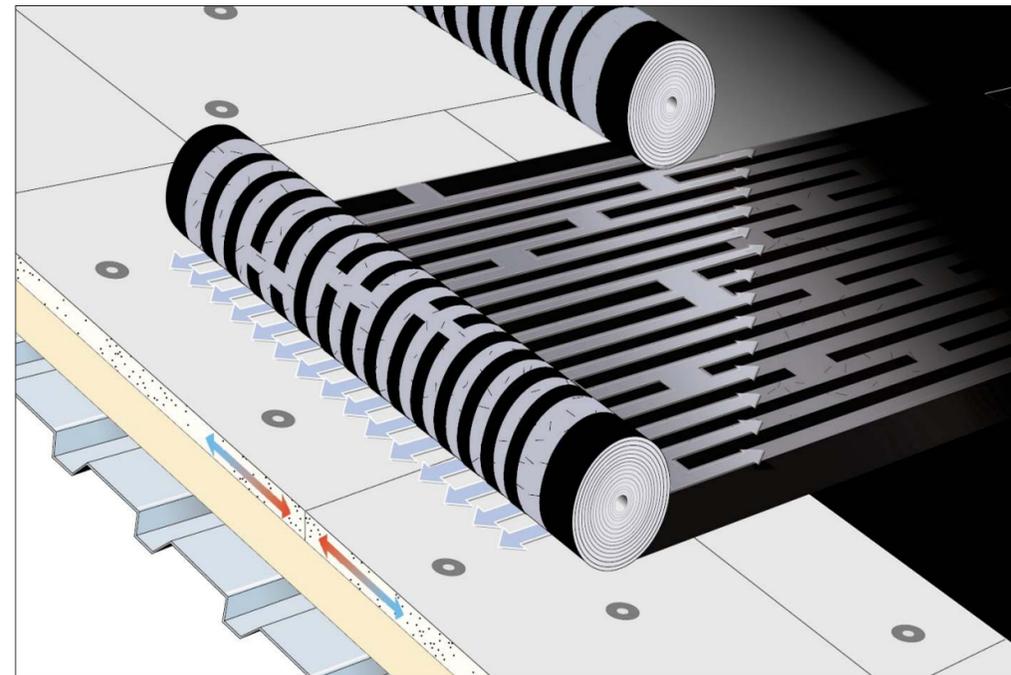
- ⊙ High-performance SBS modified bitumen membrane
- ⊙ Easy-to-install self-adhesive system
- ⊙ No more hot asphalt: just roll out the sheet
- ⊙ Contracts and expands with thermal cycling
- ⊙ Prevents blistering

WHEN VENTILATION MEANS PROTECTION

COLVENT's ventilation system prevents moisture and vapour build-up and puts an end to damaging expansion and contraction. Humidity is eliminated so your roof stays dry and blister-free.

That's what COLVENT is all about!

Protect your investment with the best system available on the market.



Systems and Components

HEAT-WELDED CAP SHEET SYSTEM	
Base sheets	COLVENT-810
Flashing base sheets	SOPRALENE FLAM STICK, SOPRAFLASH
Cap sheets	COLVENT TRAFFIC CAP-860 COLVENT TRAFFIC CAP FR-861
ADHERED CAP SHEET SYSTEM	
Base sheets	COLVENT-820 (adhesive-apply cap sheet at 10°C and up)
Flashing base sheets	SOPRALENE STICK ADHESIVE (self-adhesive)
Cap sheets	COLVENT TRAFFIC CAP-880 COLVENT TRAFFIC CAP FR-881
Adhesives	COLPLY (brush grade and trowel grade)
INSULATION AND ACCESSORIES	
Insulation	COLGRIP : COLGRIP is the ONLY acceptable insulation for use with the COLVENT system.
Accessories	Follow SOPREMA instructions for selecting and using all primers, fasteners, adhesives and other accessories required to install the membrane system.

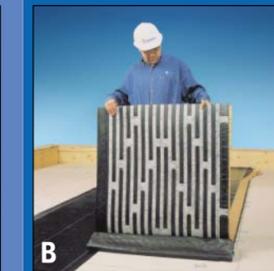
Note : Insulation and accessories applies to both heat-welded and cold adhered installation.

3 steps to great roofing

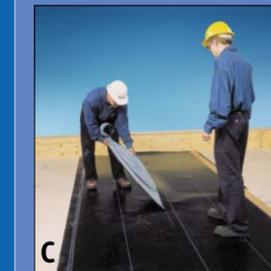
STEP 1



A Position the membrane before removing the release paper.

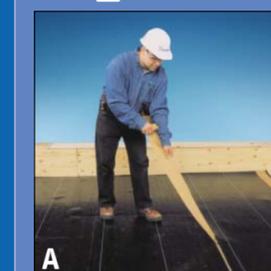


B Peel off the release paper at one end and allow this end of the membrane to stick to the insulating surface.

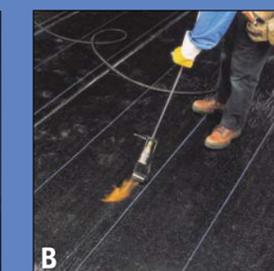


C Remove the release paper and apply pressure to ensure adhesion and remove wrinkles.

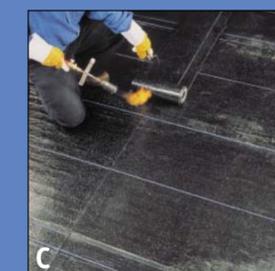
STEP 2



A Peel the backing tape away from the side joints.

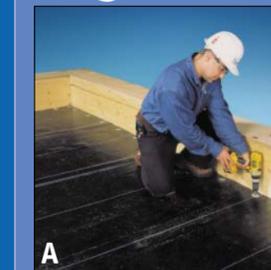


B Seal the side joints by heating the surface with a degranulator.

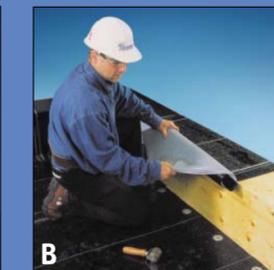


C Seal and heat the aligned end joints by heat-welding a 300 mm cover strip centered over each joint.

STEP 3



A Install the screw and plate fasteners at the upstands at 300 mm intervals.



B Extend base flashing to cover all fasteners and upstands.



C Install cap sheet by heat welding or with Colply adhesive.