6 MB - SECTION 6 - MEMBRANE

6.1 General

6.1.1 The direct mopping of hot bitumen adhered roofing materials or modified bituminous membranes to steel roof decks is not permitted.

6.1.2 Unless otherwise approved, SBS modified bituminous membrane shall be comprised of a two ply membrane consisting of a base sheet and a cap sheet. All SBS modified bituminous membrane components must be from the same manufacturer.

6.1.3 Modified bituminous membrane systems can be categorized as a conventional design (membrane applied above insulation), a protected membrane design (membrane applied below insulation) or a combination design (membrane applied between two insulation layers).

6.1.4 For all designs the modified bituminous membrane shall be uniformly adhered to and supported by an accepted substrate. The membrane shall be joined and sealed to the vapour retarder membrane extension at perimeters and penetrations.

6.1.5 Application of a modified bituminous roofing systems must not be undertaken when the air temperature at roof level is colder than -18°C, with a wind velocity of more than 14.5 km/h, equivalent to a wind chill of -26°C. Roofing systems components shall not be applied during periods of rain, snow or similar moisture conditions.[56]

6.2 Design Considerations

6.2.1 Roof assemblies must meet the standards as set up by the authority having jurisdiction.

6.2.2 When developing a modified bituminous membrane system design, the design authority shall take the following items into consideration:

6.2.3. Drainage Provision

6.2.3.1. The Warranty Certificate does not warrant the roof drainage system.

6.2.3.2. The Warranty Certificate covers the watertight integrity of the membrane and the seal of the roof flashing component, e.g. lead flashing, drain or scupper flange. The design authority shall ensure that the drainage system is designed in accordance with the governing Plumbing and Building Code to provide positive drainage and accommodate minimum roof drainage slopes as follows:

6.2.3.2.1. Minimum 1:100 (1%) for Conventional Membrane Designs.

6.2.3.2.2. Minimum 1:50 (2%) for Protected Membrane and Combination Designs.

6.2.3.3. Some isolated ponding water can be anticipated when drainage slope is provided.

6.2.3.4. ARCA Warranty Ltd. recommends that emergency or overflow drainage be incorporated into the roof drainage systems. The Warranty Certificate requires that emergency drainage be provided in designs using “flow control” type roof drains.

6.2.3.5. Splash pads shall be installed beneath drain outlets discharging water onto lower roofs to prevent the erosion of the membrane protection and damage to the membrane.

6.2.4. Roof Slope

6.2.4.1. Modified bituminous membrane base sheets may be adhered with hot bitumen when the roof slope is 1:6 (16.7%) or less. When the roof slope is 1:8 (12.5%) or less the membranes may run parallel or perpendicular to the roof slope.

[56] MB 6.1.5 Revised April 30, 2020 (TB-2020-02)

6.2.4.2. Bitumen adhered modified bituminous membrane base sheets shall be mechanically fastened to nailers when roof slope is greater than 1:8 (12.5%). The membranes shall run parallel to the roof slope.

6.2.4.3. A single ply of modified bituminous membrane cap sheet may be used when roof slope exceeds 1:16 (6.25%).

6.2.4.4. For insulated conventional roof designs, mechanically fastening of the membrane base sheet requires securement when the deck slope exceeds 1:8 (12.5%). The design of the insulation blocking system is the responsibility of the design authority and is not covered by the Warranty Certificate.

6.2.4.5. Protected membrane and combination designs do not require mechanical fastening of the membrane.

6.2.4.6. To qualify for an ARCA 15 Year Warranty Certificate, each self-contained roof area shall have positive drainage with a minimum slope of 1:50 (2%).

6.2.4.7. Enclosed roof sections that include photovoltaic equipment shall be independently drained and shall have positive drainage with a minimum slope of 1:50 (2%).

6.2.4.8. Modified bituminous membrane base sheets adhered with adhesive shall be mechanically fastened at the head lap on the high side when roof slope is greater than 1:8 (12.5%). The membranes shall run parallel to the roof slope.[57]

6.2.5. Temporary Membrane

6.2.5.1. A separator is required over wood decks prior to application of the vapour retarder as a temporary membrane.

6.2.5.2. An auxiliary leveling surface is required over steel decks prior to application of the vapour retarder as a temporary membrane.

6.2.5.3. For two-stage construction, the installation of the vapour retarder membrane is the first stage. The vapour retarder membrane shall be inspected and repaired prior to the remaining roofing components being installed.

6.2.5.4. Un-insulated conventional and protected membrane designs do not qualify for two-stage construction.

6.3. Modified Bituminous Roofing System Components

6.3.1. Asphalt

6.3.1.1. When asphalt is the bitumen used to adhere modified bituminous base sheets, the asphalt shall be manufactured in compliance with CSA A123.4-04. The asphalt type is based on the roof slope as follows:

6.3.1.1.1. For slopes 1:12 (8.3%) and less: Type 2 Asphalt

6.3.1.1.2. For slopes 1:6 (16.7%) and less: Type 3 Asphalt. Additional membrane fastening required when roof slope exceeds 1:8 (12.5%).

6.3.1.2. Bitumens must not be heated in excess of their Final Blowing Temperature, i.e. the temperature at which the bitumen was oxidized.

6.3.1.3. Equiviscous Temperature (EVT) is the recommended application temperature range for bitumen and shall be measured at the point of application. EVT is provided by the bitumen manufacturer and may differ with the bitumen type.

6.3.1.4. Asphalt shall be applied over the substrate at its Equiviscous Temperature (EVT) application range using an approximate application rate of 1.2 kg/m² (25 lbs/100 ft².). The asphalt may

[57] MB 6.2.4.8. Revised April 30, 2020 (TB-2020-02)

be applied by hand with a roofer's mop or mechanically applied with an asphalt applicator. The asphalt shall be applied with sufficient coverage to ensure full adhesion of the base sheet. For cold weather applications, the mopping distance between the hot asphalt and the base sheet roll shall not exceed 1000mm (1 meter) at the point of application.

6.3.2. Adhesive[58]

6.3.2.1. A membrane manufacturers' accepted adhesive, when used in compliance with the manufacturer's written application instructions, may be used to uniformly adhere accepted modified bituminous membrane cap sheets base sheets to either accepted modified bituminous base sheets or accepted modified bituminous combination membrane base sheets.

6.3.2.2. The membrane manufacturer's adhesives have been evaluated by ARCA Warranty Ltd. for specific applications and are not accepted as general purpose roofing adhesives and are not to be substituted for other accepted membrane manufacturer's membrane adhesives.

6.3.2.3. Adhesive temperature parameters shall be followed prior, during and after adhesive application to ensure required curing parameters have been followed. Ensure adhesive shelf life has not been exceeded.

6.3.3. SBS Modified Bituminous Membranes

6.3.3.1. Modified bituminous membranes shall comply with the requirements of CGSB 37-GP-56M / CSA A123.23-15. All modified bituminous membrane components shall be from the same manufacturer. When a Warranty Certificate is required, select the appropriate membrane system from the list of ARCA Warranty Ltd. accepted SBS modified bituminous systems.

6.3.3.2. To prevent moisture infiltration membrane rolls shall be covered during shipment and storage out of doors. Store rolls on end and on pallets above the roof/ground surface. Do not stack pallets to prevent damaging roll ends.

6.3.3.3. Polyurethane foam adhesive shall not be used to adhere membrane base sheets.

6.3.4. Membrane Base Sheets

6.3.4.1. Base sheet membranes may be polyester, fiberglass or composite reinforced with the top surface covered with plastic film or sanded.

6.3.5. Combination Membrane Base Sheets

6.3.5.1. Combination membrane base sheets are roofing panels comprised of supporting accepted mineral wool insulation, fire resistance fiberboard, asphalt core board or high-density polyisocyanurate insulation substrate with an attached factory laminated modified bituminous base sheet. Combination membrane base sheets may be accepted as an alternate to coverboard.[59]

6.3.5.2. Combination membrane base sheets may be polyester, fiberglass or composite reinforced with the top surface covered with plastic film or sanded.[60]

[58] MB 6.3.2 Added April 30, 2020 (TB-2020-02)
[59] MB 6.3.5.1 Revised April 6, 2022 (TB-2022-02)
[60] MB 6.3.5.2 Added April 30, 2020 (TB-2020-02)

6.3.6. Membrane Cap Sheets

6.3.6.1. Cap sheets shall be polyester reinforced or shall contain polyester reinforcement. Cap sheets may be smooth surfaced for use in protected membrane and combination designs or granular surface coated for use in conventional designs.

6.3.6.2. Membrane cap sheets may be thermally fused, torched, adhered with an adhesive or self-adhered to the base sheet membrane.[61]

6.3.6.3. Oxidized asphalt is not accepted for adhering membrane cap sheets.[62]

6.4. Installation

6.4.1. Membrane Base Sheets[63]

6.4.1.1. General

6.4.1.1.1. For modified bituminous membrane systems, the use of cant strips at roof junctions is optional.

6.4.1.1.2. Membrane base sheets may be applied in an application of hot bitumen, mechanically fastened, adhered with approved membrane adhesive, thermally fused, or self-adhesive self-adhered.

6.4.1.1.3. The membrane base sheet shall not be left exposed to the weather for more than ninety (90) days prior to the application of the cap sheet membrane.

6.4.1.1.4. Base sheet membranes shall be unrolled, permitted to relax and re-rolled prior to their application. Commence base sheet application at roof drains or at slope bottoms and install membrane rolls to shed water away from the side laps. When using hot asphalt, restrict bitumen bleed out at lap edges. During cold applications, base sheet membrane may be heated to soften the bitumen and aid adhesion.

6.4.1.1.5. Nailing of base sheet extensions in any form is not permitted.

6.4.1.1.6. The completed base sheet shall be inspected for defects and repaired prior to cap sheet application.

6.4.1.2. Bitumen Applied Membrane Base Sheets

6.4.1.2.1. Membrane base sheets may be adhered with hot bitumen to wood fiberboard, glass faced gypsum cover board, gypsum fiber roof cover board, asphalt core board and primed concrete substrates.

6.4.1.2.2. Membrane base sheets may be adhered with hot bitumen to minimum 4.7mm (3/16”) thick asphalt core board when polyisocyanurate insulation forms the insulation layer.

6.4.1.2.3. For protected membrane designs, the base sheet may be mopped in hot bitumen to a glass faced gypsum cover board or gypsum fiber roof cover board auxiliary leveling surface attached to the structural deck.

6.4.1.2.4. Base sheet side and end laps may be sealed with hot bitumen. Base sheet side laps shall be a minimum 64mm (2.5”) wide, end laps a minimum of 150mm (6”) wide. Stagger base sheet side and end laps a minimum distance of 300mm (12”) from adjacent laps.

6.4.1.2.5. When using hot asphalt, restrict bitumen bleed out at lap edges.

[61] MB 6.3.6.2 Revised April 30, 2020 (TB-2020-02)
[62] MB 6.3.6.3 Revised April 30, 2020 (TB-2020-02)
[63] MB 6.4.1 Revised April 30, 2020 (TB-2020-02)

6.4.1.2.6. Bitumen adhered base sheets shall be turned up the vertical substrate a minimum of 75mm (3”) and adhered with a mopping of hot bitumen at the perimeter of each self-contained roof section.

6.4.1.2.7. The bitumen adhered base sheet extension shall be anchored to the vertical substrate, except at the curbed roof penetrations, employing one of the following methods:

6.4.1.2.7.1. A continuous flat steel bar, 25mm x 1.1mm x 3048mm long, minimum AZ 55 galvalume coated, pre-punched with 7.0mm diameter holes located 12.7mm (1/2") from each end and at 150mm (6") centres for the remainder of its length. Minimum #14 corrosion resistant fasteners, appropriate for the vertical substrate, shall attach the bar. The bottom of each bar shall be located no higher than 25mm (1") above the surface of the membrane base sheet.

6.4.1.2.7.2. When there is a reduced perimeter height, minimum 12.7mm (1/2") thick primed plywood, extending above the surface of the membrane base sheet, shall completely cover the 75mm (3") high base sheet extension and the vertical substrate. Minimum #14 corrosion resistant screws, spaced at maximum 300mm (12”) centres, shall uniformly attach both the sheathing and base sheet extension to the vertical substrate.

6.4.1.2.7.3. Corrosion resistant 50mm (2") diameter circular metal fastening plates and minimum #14 screws, approved by the membrane manufacturer, spaced at maximum 300mm (12") centres are accepted substitutes. The bottom of the fastening plate shall be placed no lower than 25mm (1") above the base sheet surface.

6.4.1.3. <u>Mechanically Fastened Membrane Base Sheets</u>

6.4.1.3.1. Mechanically fastened membrane base sheets shall terminate at the base of vertical projections or at the toe of the cant strip.

6.4.1.4. <u>Adhesive Applied Membrane Base Sheets</u>

6.4.1.4.1. Adhesive applied membrane base sheets shall terminate at the base of vertical projections or at the toe of the cant strip.

6.4.1.5. <u>Torch Applied Membrane Base Sheets</u>

6.4.1.5.1. Membrane base sheets may be torch adhered to concrete, glass faced gypsum cover board, gypsum fiber roof cover board and asphalt core board substrates, where approved by ARCA Warranty Ltd. and the membrane manufacturer.

6.4.1.5.2. For protected membrane designs, the base sheet may be torch adhered to a glass faced gypsum cover board or gypsum fiber roof cover board auxiliary leveling surface attached to the structural deck.

6.4.1.5.3. Base sheet side and end laps may be thermally fused. Base sheet side laps shall be a minimum 64mm (2.5”) wide, end laps a minimum of 150mm (6”) wide. Stagger base sheet side and end laps a minimum distance of 300mm (12”) from adjacent laps.

6.4.1.5.4. Torch applied membrane base sheets shall terminate at the base of vertical projections or at the toe of the cant strip

6.4.1.6. Self-Adhered Membrane Base Sheets

6.4.1.6.1. Self-adhered membrane base sheets are not to be applied to fiberboard substrates

6.4.1.6.2. Self-adhered membrane base sheets shall terminate at the base of vertical projections or at the toe of the cant strip.

6.4.1.6.3. Self-adhered membrane base sheets shall have their side laps heat sealed with either a torch using a round nosed trowel to butter the edges or a hot air welder.[64]

6.4.2. Combination Membrane Base Sheets

6.4.2.1. The membrane base sheet and coverboard layer may be substituted with an accepted combination panel comprised of supporting accepted mineral wool insulation, fire resistance fiberboard, asphalt core board or high-density polyisocyanurate insulation substrate with an attached factory laminated modified bituminous base sheet. Combination membrane base sheets comprise both the membrane base sheet and the coverboard for a two-ply SBS membrane system.[65]

6.4.2.2. When the membrane base sheet is laminated to either fire resistant fiberboard (FR) or asphalt core board, the combination membrane base sheets may be adhered with hot bitumen, an approved adhesive or mechanically fastened to the structural decking when applied in accordance with the membrane manufacturer's application requirements.

6.4.2.3. Laminated mineral wool insulation combination panels may only be mechanically fastened to the roof decking with fasteners and plates approved by the membrane manufacturer.

6.4.2.4. Combination membrane base sheets shall have their end lap joints aligned over all substrates.

6.4.2.5. When the combination membrane base sheet incorporates an end lap which must be lifted to be heat sealed, a minimum 150mm (6") wide continuous fire prevent tape backing strip, centered and placed under the end lap joint is required to protect the insulation from the torch flame.[66]

6.4.2.6. When the combination membrane base sheet incorporates a 25mm to 50mm (1" to 2") factory installed end lap, the end laps shall be covered with a minimum 300mm (12") wide continuous strip of a compatible modified bituminous base sheet centered over the joint and thermally fused to completely cover and waterproof the combination membrane base sheet end lap junction.

6.4.2.7. Combination membrane base sheets shall have their side and end laps offset a minimum distance of 150mm (6") from the underlying joints of the insulation.

6.4.2.8. When combination membrane base sheets are adhered with hot bitumen, mechanically fastened or with membrane manufacturer's accepted polyurethane foam insulation adhesive, polystyrene insulation shall be first covered with a minimum layer of 9.5mm (3/8") high-density coverboard with board joints offset a minimum distance of 150mm (6") from the layer preceding.[67]

6.4.2.9. When mechanically fastening combination membrane base sheets, each fastener/plate location shall be waterproofed with a compatible SBS base sheet patch sized to adequately cover the plate, sealed to the surface of the exposed base sheet membrane.

6.4.2.10. Combination membrane base sheets shall have their side laps heat sealed with either a torch using a round nosed trowel to butter the edges or a hot air welder.

[64] MB 6.4.1.6.3 Added April 14, 2025 (TB-2025-02)
[65] MB 6.4.2.1 Revised April 6, 2022 (TB-2022-02)
[66] MB 6.4.2.5 Revised October 1, 2020 (TB-2020-09)
[67] MB 6.4.2.8 Revised October 23, 2023 (TB-2023-05), December 14, 2023 (TB-2023-06)

6.4.3. Membrane Cap Sheets[68]

6.4.3.1. General

6.4.3.1.1. Membrane cap sheets may be self-adhered, adhered with an approved manufacturer's adhesive or thermally fused to the base sheet.

6.4.3.1.2. Begin cap sheet installation by centering a double-selvage edge starter roll centered over the roof drain centerline or at the bottom of the slope. When a starter roll is not available, de-granule side laps by embedding granules by heating and troweling in granules from a 75mm (3") width along the non-selvage edge.

6.4.3.1.3. Allow rolls to relax and re-roll granule side in, starting at the roll ends.

6.4.3.1.4. Stagger cap sheet end and side laps a minimum distance of 300mm (12") from the base sheet membrane laps. Check all lap edges for proper adhesion and seal

6.4.3.1.5. At end laps cut underlying cap sheet selvage edge corners at 45° angle and trowel in granules for a minimum width of 150mm (6") to form the end lap.

6.4.3.1.6. All overlapping surfaces shall be de-granulated or granule free prior to torch adhering.

6.4.3.1.7. Terminate cap sheets at the base of vertical projections or at the toe of the cant when cant strips are used.

6.4.3.2. Adhesive Applied Membrane Cap Sheets

6.4.3.2.1. Adhesive applied membrane cap sheets shall be adhered within manufacturer's specified temperature parameters with a notched squeegee to ensure manufacturer approved application rates are obtained.

6.4.3.2.2. Adhesive applied membranes require pressure from a hard roller to achieve optimum adhesion and uniform contact of substrates to surfaces.

6.4.3.2.3. Apply ARCA accepted adhesive for the first 125mm (5") of the end lap. Keep adhesive back approximately 25mm (1") to accommodate a hot-air welded end lap seal.

6.4.3.2.4. Apply ARCA accepted adhesive for the first 50mm (2") of the side lap. Keep adhesive back approximately 25mm (1") to accommodate a hot-air welded side lap seal.[69]

6.4.3.3. Self-Adhered Membrane Cap Sheets

6.4.3.3.1. All end laps on self-adhered membrane cap sheets shall be heat sealed and checked for proper adhesion and seal.

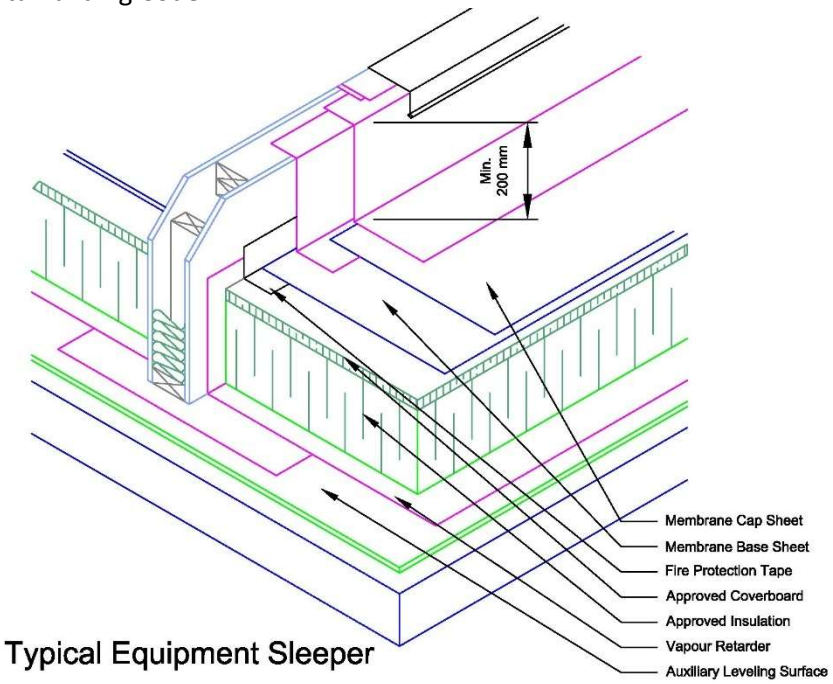
6.4.3.3.2. Self-Adhered membranes require pressure from a hard roller to achieve optimum adhesion and uniform contact of substrates to surfaces.[70]

[68] MB 6.4.3 Revised April 30, 2020 (TB-2020-02)
[69] MB 6.4.3.2 Revised February 15, 2023 (TB-2023-01)
[70] MB 6.4.3.3 Revised February 15, 2023 (TB-2023-01)

6.5. Membrane Load Protection

6.5.1. Under no circumstances shall any equipment load be supported directly on the surface of an unprotected membrane.

6.5.2. For roof mounted equipment exceeding 91kg (200 lbs.) in mass or when roof point loads exceed 5 kPa (105 PSF), they shall be supported on structural curbs, structural sleepers or structural pedestals attached to the structure or decking that extend a minimum distance of 200mm (8”) above the finished roof surface. Roof mounted equipment includes antennae, signs, service lines, skylights, hatches and walkways. For new construction where H.V.A.C. equipment is elevated above the roof membrane, a minimum clearance of 300mm (12") shall be provided beneath the equipment to permit installation of the roofing system. Equipment supports shall be designed by a structural engineer and shall conform to the Alberta Building Code.



Typical Equipment Sleeper

6.5.3. Equipment loads maximum 91kg (200 lbs.) in mass, may be supported by free floating sleepers or support pads loose laid over the roofing system. Free floating sleepers shall be pressure preservative treated wood, pre-cast concrete, metal or specialty product. Free floating sleepers and pads shall be placed on a minimum 25mm (1") thick layer of Type 4 extruded polystyrene insulation with a minimum compressive strength of 240 kPa (35 PSI) attached to the base of the supports without the use of mechanical fasteners. A ply of mineral surfaced cap sheet applied to the membrane may be substituted for the Type 4 extruded polystyrene insulation protection layer.

6.5.4. When guy wires are used to anchor roof mounted equipment, their anchorage points shall be waterproofed with 200mm (8") high curbs or with gum boxes.

6.5.5. H.V.A.C. units, skylights and hatches shall be supported by insulated metal or wooden curbs supported by and fastened to the structural deck to prevent displacement that extend a minimum distance of 200mm (8") above the surface of the roofing system.

6.5.6. To protect the membrane from concrete paver damage, a minimum 25mm (1") thick layer of Type 4 extruded polystyrene insulation shall be placed between the pavers and the SBS

cap sheet surface. Place the Type 4 extruded polystyrene insulation so that the roof drainage is free to flow under the pavers.[71]

6.5.7. Roof areas containing photovoltaic installations are not eligible for an ARCA 15 Year Warranty Certificate.

6.5.8. To qualify for an ARCA 15 Year Warranty Certificate, membrane protection shall be installed around all roof mounted mechanical equipment.[72]

6.6. Roof Terraces

6.6.1. Roof Terraces are to be installed over a minimum 6.4mm (1/4") asphalt impregnated core board membrane protection layer.

6.6.2. The designer must take into consideration the compressive strength of the underlying materials to prevent damage to the insulation and roofing membrane from concentrated loads exceeding 91kg (200 lbs.) in mass or when roof point loads exceed 5 kPa (105 PSF) which may exceed design limits. It is recommended that an ARCA approved HD coverboard is installed under the membrane for additional protection.[73]

6.6.3. Roof areas with roof terraces are eligible for five (5) or ten (10) year Warranty Certificates only.

6.6.4. The cost to remove and replace the roof terrace material to facilitate access to the roof membrane for investigation and repair of workmanship related leaks is included however; it is the responsibility of the building owner to cover costs for removal and replacement of items that were not installed by the roofing contractor. It is recommended that the design of the roof terrace incorporate future service and maintenance requirements.

6.6.5. Roof leaks as the result of membrane damage due to the work and activities of others, maintenance or from contaminants are not covered under the Warranty Certificate.

[71] MB 6.5.6 Revised October 20, 2022 (TB-2022-06)
[72] MB 6.5.8 Revised October 20, 2022 (TB-2022-06)
[73] MB 6.6.2 Revised February 11, 2022 (TB-2022-01)

6.7. Accepted SBS Modified Bituminous Membrane Systems

6.7.1. Accepted Base Sheets[74][75][76][77][78][79][80][81][82][83][84][85][86][87]

IKO

Base Sheet Membranes	**Attachment Method**					**Surfaces (Bottom/Top)** *S=Sanded Surface SA=Self-Adhered TF=Thermofusible Film RF = Release Film O=Other*	**ARCA Warranty Certificate**		
	Adhered (adhesive)	*Adhered (asphalt)*	*Self Adhered*	*Mech. Fast.*	*Torch*		*5 Year*	*10 Year*	*15 Year*
ArmourStick HD-Base			●			SA / RF	●	●	
Armourbond Flash			●			SA / TF	●	●	
Armourbond Flash Sand			●			SA / S	●	●	
Armourbond 180 Base			●			SA / RF	●	●	●
Fast-N-Stick 180 Base				●		S / TF	●	●	●
Fast-N-Stick HD Base Sheet				●		S / TF	●	●	●
Modiflex MF-95		●				S / S	●	●	
Modiflex MP-180		●				S S	●	●	
Protectobase 180	●	●		●		O / TF	●	●	●
Protectobase 180 Sanded	●	●		●		O / S	●	●	●
Torchflex HD-FF					●	TF / TF	●	●	●
Torchflex TF-95					●	TF / TF	●	●	
Torchflex TP-180					●	TF / TF	●	●	●
ShieldBase 180	●	●		●		O / TF	●	●	●
ShieldBase 180 Sanded	●	●		●		O / S	●	●	●

Approved Adhesives: IKO Millenium Adhesive (Protectobase, Protectobase 180, ShieldBase 180 & ShieldBase 180 Sanded ONLY)

7879808182

Polyglass

Base Sheet Membranes	**Attachment Method**					**Surfaces (Bottom/Top)** *S=Sanded Surface SA=Self-Adhered TF=Thermofusible Film O=Other*	**ARCA Warranty Certificate**		
	Adhered (adhesive)	*Adhered (asphalt)*	*Self Adhered*	*Mech. Fast.*	*Torch*		*5 Year*	*10 Year*	*15 Year*
Elastoflex S6		●		●	●	S / TF	●	●	
Elastoflex S6		●		●	●	S / S	●	●	
Elastoflex SA Base			●			SA / TF	●	●	
Elastoflex VP					●	TF / TF	●	●	
Elastoflex SA Base Plus			●			SA / TF	●	●	
Elastoflex SA Base Polar			●			SA / TF	●	●	

Approved Adhesives:

8384858687

[74] MB 6.7.1 Revised April 30, 2020 (TB-2020-02)
[75] MB 6.7.1 Revised June 16, 2022 (TB-2022-03)
[76] MB 6.7.1 Revised February 27, 2025 (TB-2025-01)
[77] MB 6.7.1 Revised June 10, 2025 (TB-2025-04)
[78] MB 6.7.1 Revised July 20, 2020 (TB-2020-08)
[79] MB 6.7.1 Revised June 21, 2021 (TB-2021-04)
[80] MB 6.7.1 Revised April 14, 2025 (TB-2025-02)
[81] MB 6.7.1 Revised August 21, 2025 (TB-2025-04)
[82] MB 6.7.1 Revised October 21, 2025 (TB-2025-05)
[83] MB 6.7.1 Revised October 13, 2021 (TB-2021-06)
[84] MB 6.7.1 Revised April 6, 2022 (TB-2022-02)
[85] MB 6.7.1 Revised December 14, 2023 (TB-2023-06)
[86] MB 6.7.1 Revised September 25, 2024 (TB-2024-03)
[87] MB 6.7.1 Revised October 21, 2025 (TB-2025-05)

Soprema

Base Sheet Membranes	**Attachment Method**					**Surfaces (Bottom/Top)** *S=Sanded Surface SA=Self-Adhered TF=Thermofusible Film O=Other*	**ARCA Warranty Certificate**		
	Adhered (adhesive)	*Adhered (asphalt)*	*Self Adhered*	*Mech. Fast.*	*Torch*		*5 Year*	*10 Year*	*15 Year*
Colvent Base 830			●			SA / TF	●	●	
Colvent Base 840			●			SA / S	●	●	
Elastophene PS		●				S / TF	●	●	
Elastophene Sanded		●				S / S	●	●	
Elastophene 180 PS		●				S / TF	●	●	
Elastophene 180 Sanded		●				S / S	●	●	
Soprafix Base 630				●		S / TF	●	●	●
Sopralene Flam 180					●	TF / TF	●	●	●
Sopraply Base 510		●				S / TF	●	●	
Sopraply Base 520					●	TF / TF	●	●	●
Sopraply Flam Stick			●			SA / S	●	●	
Sopraply Stick Duo			●			SA / S	●	●	
Sopraply Stick			●			SA / S	●	●	
Sopraflash Flam Stick			●			SA / S	●	●	
Sopraflash Stick Duo			●			SA / S	●	●	
Sopraflash Stick			●			SA / S	●	●	
2-1 Soprasmart FB	●	●		●		O / TF	●	●	
2-1 Soprasmart Board	●	●		●		O / TF	●	●	●
2-1 Soprasmart Board Sanded	●	●		●		O / S	●	●	●
2-1 Soprasmart ISO HD	●	●		●		O / TF	●	●	●
2-1 Soprasmart ISO HD Sanded	●	●		●		O / S	●	●	●
2-1 Soprasmart ISO HD HP	●	●		●		O / TF	●	●	●
2-1 Soprasmart ISO HD HP Sanded	●	●		●		O / S	●	●	●
2-1 Soprasmart Rock		●		●		O / TF	●	●	

Approved Adhesives: Soprema Duotack Adhesive (2-1 Soprasmart products ONLY)

88 89 90919293

[88] MB 6.7.1 Revised February 5, 2021 (TB-2021-02)
[89] MB 6.7.1 Revised June 23, 2020 (TB-2020-06)
[90] MB 6.7.1 Revised March 31, 2021 (TB-2021-03)
[91] MB 6.7.1 Revised December 4, 2024 (TB-2024-05)
[92] MB 6.7.1 Revised April 14, 2025 (TB-2025-02)
[93] MB 6.7.1 Revised December 5, 2025 (TB-2025-06)

6.7.2. Accepted Cap Sheets [949596]

IKO

Cap Sheet Membranes	**Attachment Method**				**Surfaces (Bottom/Top)** *S=Sanded Surface SA=Self-Adhered TF=Thermofusible Film GR=Granules O=Other*	**ARCA Warranty Certificate**		
	Adhered (adhesive)	*Adhered (asphalt)*	*Self Adhered*	*Torch*		*5 Year*	*10 Year*	*15 Year*
ArmourStick HD-Cap			●		SA / GR	●	●	
Prevent TP-250 Cap				●	TF / GR	●	●	●
Prevent TP-250 Cap 5.0				●	TF / GR	●	●	●
Prevent TP-HD-Cap				●	TF / GR	●	●	●
Torchflex TP-180 Cap				●	TF / GR	●	●	
Torchflex TP-250 Cap				●	TF / GR	●	●	●
Torchflex TP-250 Cap 5.0				●	TF / GR	●	●	●
Torchflex TP-HD-Cap				●	TF / GR	●	●	●

Approved Adhesives:

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Polyglass

Cap Sheet Membranes	**Attachment Method**				**Surfaces (Bottom/Top)** *S=Sanded Surface SA=Self-Adhered TF=Thermofusible Film GR=Granules O=Other*	**ARCA Warranty Certificate**		
	Adhered (adhesive)	*Adhered (asphalt)*	*Self Adhered*	*Torch*		*5 Year*	*10 Year*	*15 Year*
Elastoflex S6 G				●	TF / GR	●	●	
Elastoflex S6 G HP				●	TF / GR	●	●	
Elastoflex VP G HP				●	TF / GR	●	●	
Elastoflex SA P			●		SA / GR	●	●	
Elastoflex SA P Polar			●		SA / GR	●	●	

Approved Adhesives:

9899100

Soprema

Cap Sheet Membranes	**Attachment Method**				**Surfaces (Bottom/Top)** *S=Sanded Surface SA=Self-Adhered TF=Thermofusible Film GR=Granules O=Other*	**ARCA Warranty Certificate**		
	Adhered (adhesive)	*Adhered (asphalt)*	*Self Adhered*	*Torch*		*5 Year*	*10 Year*	*15 Year*
ColPly Traffic Cap Flex	●				S / GR	●	●	
Sopralene Mammouth GR				●	TF / GR	●	●	
Sopralene Flam 180 GR				●	TF / GR	●	●	
Sopralene Flam 180 FR GR				●	TF / GR	●	●	
Sopralene Flam 250 GR				●	TF / GR	●	●	●
Sopralene Flam 250 FR GR				●	TF / GR	●	●	●
Sopraply Stick Traffic Cap			●		SA / GR	●	●	
Sopraply Traffic Cap				●	TF / GR	●	●	●
Sopraply Traffic Cap FR				●	TF / GR	●	●	●

Approved Adhesives: Soprema Colply Traffic Cap Flex approved with Soprema ColPly EF Flashing Cement ONLY.

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[94] MB 6.7.2 Revised April 30, 2020 (TB-2020-02)
[95] MB 6.7.2 Revised June 16, 2022 (TB-2022-03)
[96] MB 6.7.2 Revised June 10, 2025 (TB-2025-04)
[97] MB 6.7.2 Revised July 20, 2020 (TB-2020-08)
[98] MB 6.7.2 Revised October 13, 2021 (TB-2021-06)
[99] MB 6.7.2 Revised April 6, 2022 (TB-2022-02)
[100] MB 6.7.2 Revised September 25, 2024 (TB-2024-03)
[101] MB 6.7.2 Revised June 23, 2020 (TB-2020-06)