

LOW SLOPE

PART 1: GENERAL

- 1.01 Related Work
- .1 Rough carpentry: Section [XXXXX]
 - .2 Metal flashing and trim: Section [XXXXX]
 - .3 Caulking: Section [XXXXX]
 - .4 Sky lights: Section [XXXXX]
 - .5 Other: Section [XXXXX]
- 1.02 References
- .1 CAN/CGSB-37.29-[M89] Rubber-Asphalt Sealing Compound.
 - .2 CGSB 37-GP-56M-[80] Membrane, Modified, Bituminous, Prefabricated, and Reinforced for Roofing.
 - .3 Other: [XXXXX]
- 1.03 Storage and Handling
- .1 Store Low Slope membrane and accessories in a dry location, in original containers.
 - .2 If product is stored outside, it must be elevated on a platform and be protected with a waterproof cover which will shed water away from the material.
 - .3 Store all products in an upright position. Do not double stack unless product is on pallets and packaged as received from factory. Never stack more than two pallets high without racking.
 - .4 In cold weather store Low Slope membranes in heated area and take onto roof immediately prior to use.
 - .5 Store adhesives and primers between 15°C (60°F) and 26°C (80°F), or restore to temperature range before use.
 - .6 Store combustible materials away from heat and open flame.
 - .7 Do not store membranes at ambient temperatures above 49°C (120°F).
- 1.05 Environmental Requirements
- .1 Install Low Slope in temperatures above 5°C (40°F).
 - .2 Verify adhesion regularly during cold temperature applications.
 - .3 Store rolls in heated location until needed on the roof.
 - .4 Minimum-working temperatures shall take into consideration a factor for wind chill. Application temperature shall be considered to be the temperature minus half of the wind speed as recommended by the Canadian Roofing Contractors Association (CRCA).
- 1.06 Protection
- .1 Protect membrane from site damage during application. Cover traffic areas with appropriate protection to serve as walkways to prevent any damage to the membrane.
- 1.07 Submittals
- .1 Submit in writing, a document stating that the applicator of the primary membranes specified in this Section is recognized by the manufacturer as suitable for the execution of the Work.
- 1.08 Quality Assurance
- .1 Perform Work in accordance with the printed requirements of the membrane manufacturer and this specification. Advise designer of any discrepancies prior to commencement of the Work.
 - .2 Maintain one copy of manufacturers' literature on site throughout the execution of the Work.
 - .3 At the beginning of the Work and at all times during the execution of the Work, allow access to site by the roofing membrane manufacturers representative.
 - .4 At the request of the [architect] [engineer] [consultant], submit documentation certifying that the roofing membranes comply with CGSB 37-GP-56M.
 - .5 Materials used in this Section, including primers, mastics and membranes shall be fully compatible and shall be sourced from one manufacturer.

LOW SLOPE GUIDE SPECIFICATION

1.10 Warranty

- .1 Contractor hereby warrants that the modified bituminous roofing and membrane flashings will stay in place and remain leakproof in [accordance with GC24], but for two years.
- .2 Roofing membrane manufacturer hereby warrants that the Low Slope 2 Ply membrane and membrane flashings will not leak as a result of faulty materials for a period of twenty years.
- .3 Roofing membrane manufacturer hereby warrants that the Low Slope 1 Ply membrane and membrane flashings will not leak as a result of faulty materials for a period of fifteen years.

PART 2: PRODUCTS

SPEC NOTE: Choose 2.01.1 for Low Slope Two Ply, 2.01.2 for Low Slope One Ply.

- 2.01 .1 Membrane Sheet: Membrane sheet shall be Low Slope Two Ply Self-Adhering Granulated Roofing Membrane as manufactured by Bakor, an SBS modified bitumen membrane having a minimum thickness of 3.3mm (130 mils) and fibrous glass reinforcement meeting CGSB 37-GP-56M.
- .2 Membrane Sheet: Membrane sheet shall be Low Slope One Ply Self-Adhering Granulated Roofing Membrane as manufactured by Bakor, an SBS modified bitumen membrane having a minimum thickness of 3.3mm (130 mils) and fibrous glass reinforcement meeting CGSB 37-GP-56M.
- .3 Termination, flashing and end lap sealant: Polybitume® 570-05 Polymer Modified Sealing Compound.
- .4 Nails: 1" diameter. Round-Top steel cap nails, corrosion resistant roofing nails conforming to CSA B111.

PART 3: EXECUTION

- 3.01 .1 Examination: Verify that all deck surfaces and substrates are acceptable for installation of the system.
- .2 Placement of membrane shall be completed with full regard to the finished appearance. Lap seams shall be uniformly spaced and staggered. Where possible, install membrane sheets in full equally sized sections.
- .3 Apply termination sealant around all roof penetrations and along roof rake and eave drip edge details to form a watertight membrane.
- .4 Roll all seams sufficient to ensure full contact and bond.

3.02 Sheet Installation (Low Slope two Ply)

Spec Note: Use sections 3.02.1 through 3.02.9 for Low Slope Two Ply, Use 3.02.10 through 3.02.17 for Low Slope One Ply.

- .1 Unroll membrane and allow to relax prior to installation as per manufacturers requirements.
- .2 Create starter strip by cutting away the granulated portion of the membrane. Place membrane starter strip along roof eave and nail along top edge at 300mm spacing.
- .3 Install metal drip edge on top of starter course and along rake edge and fasten at 300mm spacing.
- .4 Place full sheet over starter strip and align with bottom of metal drip edge. Nail membrane through selvedge two rows spaced 300 mm apart. Fold back lower portion and apply termination sealant on metal drip edge.
- .5 Termination sealant to be applied along eave and rake as membrane installation progresses.
- .6 Remove release film and roll onto starter strip.
- .7 Install subsequent full sheets by aligning bottom edge with limit of granulated surface. Nail membrane within limits of selvedge and roll back lower portion.
- .8 Remove release film and zip strip from previously applied roll.
- .9 Apply firm pressure over entire surface to ensure full contact and adhesion.

Spec Note: Use sections 3.02.10 through 3.02.17 for Low Slope One Ply

- .10 Apply Aquaprime at a rate of 7 m²/L (300ft²/gallon) and allow to dry to a firm film.
- .11 Install metal drip edge along eave and rake edge and fasten at 300mm spacing.
- .12 Unroll membrane and allow to relax prior to installation as per manufacturers requirements. Place full sheet over starter strip and align with bottom of metal drip edge. Release film from upper portion of membrane. Fold back lower portion and apply termination sealant on metal drip edge.
- .13 Termination sealant to be applied along eave and rake as membrane installation progresses.
- .14 Remove release film and roll onto drip edge. Firmly press edge into termination sealant.
- .15 Install subsequent full sheets by aligning bottom edge with limit of granulated surface.
- .16 Remove release film from upper section first, then remove film from lower section and remove zip strip from previously applied roll.
- .17 Apply firm pressure over entire surface to ensure full contact and adhesion.

3.03 End Laps

- .1 Align sheets and provide minimum 150 mm (6") overlap.
- .2 Apply termination sealant to granule surface of underlying membrane and spread with trowel.
- .3 Remove release film and roll membrane into place over termination sealant. Firmly press edge into termination sealant.

3.04 Ridge Detail (Low Slope 2 Ply).

- .1 Create starter strip by cutting away the granulated portion of the membrane. Place membrane starter strip along roof ridge with release at the outside edge.
- .2 Nail top and bottom of starter strip at 300 mm (12") centres.
- .3 Cut consecutive sheets to size and place over starter strip. Apply termination sealant and nail membrane sheets within limits of seldge.
- .4 Remove release paper and firmly press edge into termination sealant.

3.05 Closed Valley Detail

- .1 Run initial membrane sheets through valley and extend past valley for at least 300 mm (12").
- .2 Align and place subsequent sheets starting at valley. Measure and cut membrane sheets at the valley in a straight even line parallel with slope.
- .3 Seal valley lap seams using termination sealant over granulated portion of underlying membrane and spread with trowel.
- .4 Remove release film and roll membrane into place over termination sealant. Firmly press edge into termination sealant. <>