



Advanced Composite Technology



# AC Cap Sheet

ROOFING

## DESCRIPTION

AC Cap Sheet is a rubberized asphalt roll roofing product. AC Cap Sheet consists of a proprietary modified asphalt, a tough fiberglass reinforcing core and a granular surface to protect against UV, weathering and physical damage. AC Cap Sheet can be installed with a modified bitumen adhesive or hot mopped with Type III or Type IV asphalt.

AC Cap Sheet composite is available in 108 sq. ft. (9.3 sq.m.) rolls, 3' x 36' (0.9m x 10.9m).

## USES

AC Cap Sheet is an innovative roofing system for use on low slope wood decks, such as porches, utility buildings, dormers, mobile homes, and commercial buildings. The rugged construction provides outstanding, long term performance. AC Cap Sheet is fast and easy to install. Minimum roof pitch is 1/2" in 12" (12.7mm in .3m).

## APPLICATION

- The deck must be structurally sound, smooth, clean, dry and free from loose materials and contaminants. Proper ventilation is required to prevent condensation or heat build up. AC Cap Sheet should be installed when ambient and substrate temperatures are 40°F (4.4°C) or higher including the 24 hours after installation.

- AC Cap Sheet must be installed directly to AC Base Sheet or AC SBS Base Sheet composite. Apply the base sheet parallel to and abutting the eave. Apply a primed metal drip edge over the base sheet and nail metal drip edge 9" on center. Mechanically fasten the base sheet to deck with approved nails, staples or cap nails, 9" on center at the laps and two staggered rows 18" on center of the field of the roll. Successive courses should overlap the lower course by 3" and repeat the nailing pattern as stated above. End laps should be 6". Cover entire roof with the base sheet. Coat the top of the drip edge with a 2" (50mm) wide troweling of roof cement or modified bitumen adhesive.

### Deck Preparation - Reroof

- AC Cap Sheet may be installed over a single course of existing smooth asphalt roll roofing.

- Existing asphalt roofing must be smooth and dry. Blisters and wrinkles must be cut, nailed flat and sealed with roof sealant. Remove all dust, debris and loose material. Prime roof deck with an asphalt primer that meets ASTM D 41 and apply at the rate of 85-100 square feet per gallon. Allow primer to dry completely.

### Installation

- Cut AC Cap Sheet into manageable lengths. Allow AC Cap Sheet to relax from roll configuration. AC Cap Sheet **must lay flat** at time of installation. In colder weather, place rolls in a heated space prior to application.

### Hot Mop Method

- Just before installation, re-roll the membrane sections with granules on the inside of the roll for easy application. Starting at the eave, apply hot asphalt at a rate of 25lbs. per 100 square feet +/- 10%. Mop area where side laps will occur last. Keep mopped surface to a maximum of 3' ahead of the membrane to prevent cooling of the asphalt before the membrane is applied. Unroll the AC Cap Sheet into the hot asphalt so that there is a 3/8" to 1" bleed of asphalt past the membrane where any laps will occur. Mop the next 3', repeating the process.

- End laps should be a minimum of 6" and be staggered at least 18" to 24" from adjoining end laps. Side laps should be a minimum of 3". All laps should be staggered in conjunction with the laps of the previously installed base sheet.

### Cold Applied Method

- Just before installation, re-roll the membrane sections with granules on the inside of the roll for easy application. Apply modified bitumen adhesive to the base sheet by trowel at a rate of approximately 65 square feet per gallon. Apply adhesive just beyond area the membrane will cover. Allow any solvents to evaporate from the adhesive before applying the membrane. Unroll the membrane into the adhesive.

- End laps should be a minimum of 6" and be staggered at least 18" to 24" from adjoining end laps. Side laps should be a minimum of 3". All laps should be staggered in conjunction with the laps of the previously installed base sheet.

TECHNICAL DATA		
AC Cap Sheet		
PROPERTY	TEST METHOD	MINIMUM VALUE
Tensile Strength	ASTM D 412	68 lb/in
Flexibility	ASTM D 228	Unaffected
Thermal Stability	ASTM D 228	No sliding or blistering
Water Vapor Transmission	ASTM E 96	0.02 g/hr/m2 (max)

### Base Flashing & Curbs

- Over the completed membrane at vertical surfaces (membrane shall extend above the cant strip 2" to 3"), install a base flashing consisting of one ply AC Cap Sheet applied to the primed concrete or masonry surface. Base flashing shall extend a minimum of 8" up the vertical surface and 4" out onto the field of the roof. Wood surfaces shall receive one ply AC Cap Sheet extending from the top of the cant strip to the height of the base flashing. Fasten the wood surface with 1" diameter capped nails. Install the granular surfaced portion as stated above for a concrete or masonry surface. Nail the top edge of the base flashing 9" on center through the tin discs. Sealing the top edge of the base flashing prior to installation of the counter flashing is required.

### Roof Penetrations

- Where projections extend through the roof surface, install a metal roof jack with 4" wide, primed continuous flange on top of the field of the membrane in a bed of modified bitumen adhesive (for nailable surfaces, flange must be nailed 3" on center and 3/4" from perimeter). Install a collar AC Cap Sheet over the flange to extend a minimum of 8" beyond the flange on all sides. Flashing collar should be fully adhered to the metal flange and field of membrane. Seal flashing around the projection with a bead of modified bitumen adhesive.

### SAFETY, STORAGE AND HANDLING

Pallets of AC Cap Sheet shall not be double stacked on the job site. Provide cover on top and sides, allowing for adequate ventilation.

Consult Material Data Safety Sheet for best available information on the safe handling, storage, personal protection, health and environmental considerations.



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