

Monoform Cold Process Built-Up Roof System Nailable Decks, Uninsulated

Approvals

ASTM, UL, CRRC, Energy Star,
Title 24



General

APOC Specification AC4-N-MF-252 is a highly reflective, Cold Process Cool Roof System that is designed to provide an energy efficient, waterproof membrane on new construction and re-roofing applications. This cold process, built up application eliminates the use of hot asphalts and the odor, fire and burn hazards associated with their use. The application of this system can reduce roof top temperatures, lower cooling demand by up to 50%, increase the life expectancy of existing HVAC systems, and provide a sustainable roof membrane with extendable warranties. This system is designed for use over wood or other approved nailable decks. Design and installation of deck must result in positive drainage of water from the roof surface. Water must be completely removed in a prompt manner and not allowed to pond on the roof surface as defined by NRCA. All structural and deck repairs must be completed in accordance with published NRCA and local Building Code guidelines. All general instructions from current APOC Roofing Systems Manual, Product Data Sheets, Job Specific Pull Sheets and Master Specification are included as part of this specification.

Flashings

Flashing details can be found in APOC Roofing Systems Manual. See project specific details for additional information.

Roofing Membrane

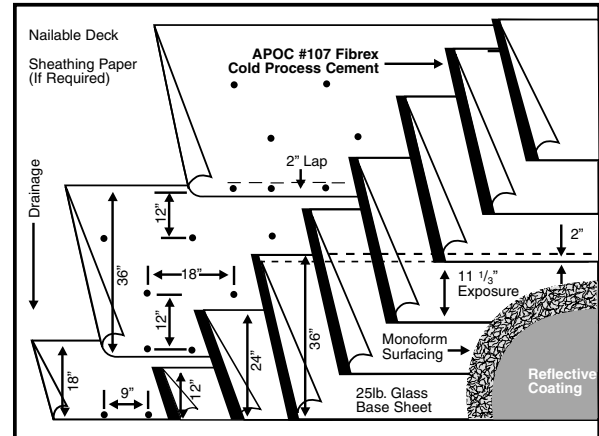
Base Sheet: Over diagonal sheathing, T&G and plank roof decks install one layer of rosin paper. The buffer sheet is installed with mineral surface down using minimum 1" Simplex type nails or approved mechanical fasteners with 2" side laps and 4" end laps. Sheets shall be cut in lengths of 18' and allowed to relax. Install first sheet with a width of 18" and all remaining sheets at full width. Base sheet shall be nailed 9" o/c on side laps and 18" o/c staggered in two rows 12" from each edge.

Interply Sheets: Over base sheet, install ply sheets set in 2 gallons per square of APOC #107 Fibrex Cold Process Cement. Sheets shall be cut in lengths of 18' and allowed to relax. Install first sheet with a width of 12". Install second sheet at 24" width. Apply remaining ply sheets at full width in shingle fashion overlapping previous sheet by 24²/₃", leaving an 11¹/₃" exposure. All end laps shall be 6" and shall be staggered a minimum of 3' apart. NOTE: Two ply sheets must cover base sheet across entire roof system.

Monoform Surfacing

Apply Monoform surfacing at the rate of 9 gallons of APOC #300 Asphalt Emulsion and 3 lbs. of chopped fiberglass roving per square. Application shall use special chopped glass and emulsion spray rig and shall be completed in a smooth and uniform manner without tufts or uneven spray patterns.

FOR USE OVER EXISTING ROOF SURFACES



Materials (per 100 sq. ft.)

ITEM/DESCRIPTION	WEIGHT
Sheathing Paper: _____ Required on diagonal sheathing decks only	n/a
Buffer: _____ 1 layer 80 lb. UL rated inverted cap sheet	80 lbs.
Interply: _____ 3 layers of UL rated G-2 25 lb. base sheet	75 lbs.
Adhesive: _____ Base sheets set in APOC #107 Fibrex Cold Process Cement @ 2 gallons per layer	45 lbs.
Monoform: _____ 9 gallons of APOC #300 emulsion 3 lbs. of chopped fiberglass	39 lbs. 3 lbs.
Coating: _____ APOC #252 Acrylic Elastomeric @ 3 gallons	22 lbs.
Approximate Dry Weight	264 lbs.

Reflective Coating

APOC #252 shall be applied in two uniform coats at 1¹/₂ gallons per square per coat over entire surface including flashings, vents, parapet walls and ductwork. First coat shall be APOC #252 Gray Base Coat and second coat shall be APOC #252 White Top Coat. Apply APOC #252 in a cross hatch pattern ensuring smooth and continuous film over the surface. Two coats must be applied for a total coverage rate of 3 gallons per square. Apply second coat perpendicular to first coat. Allow a minimum of 4 hours between coats depending on drying conditions.