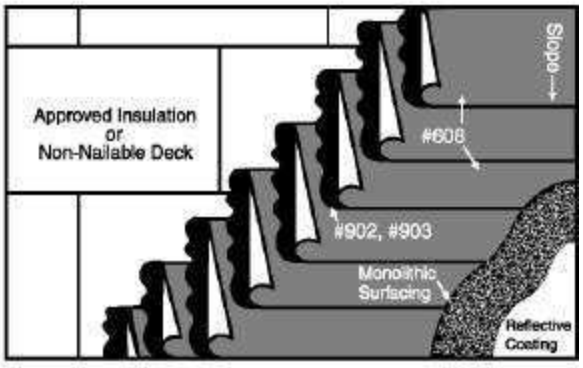
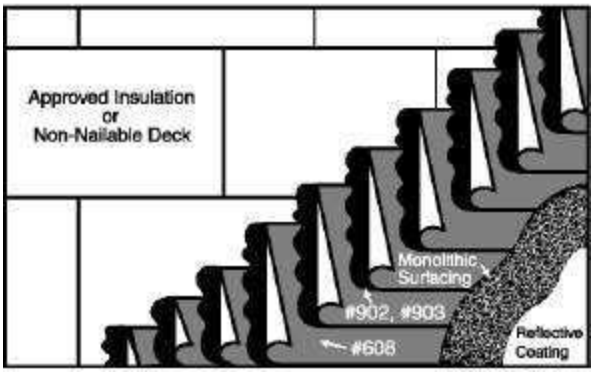
MONOLITHIC SURFACE MODIFIED ROOFING SYSTEM OVER INSULATION (*OR NON-NAILABLE DECK*)

3-PLY



GUIDE SPEC H3-IMC-MR

4-PLY



GUIDE SPEC H4-IMC-MR

DESCRIPTION

✍✍*Cold applied modified built-up roof. Consists of Insulation and 3 or 4 plies of Henry #608 Modified Ply Sheets, or #606 Modified Base Sheet over Non-Nailable Deck and 2 or 3 plies of #608 Modified Ply Sheets adhered with #902 or #903 Cold Adhesive. Membrane is surfaced with Asphalt Emulsion reinforced with Chopped Fiberglass and finished with Reflective Coating. Specification suitable over approved insulation and non-nailable deck.*

✍✍*Complies with U.L. Class A up to 3 in 12 slope*

✍✍*#280 White Elastomeric Roof Coating or #869 Elastomeric Aluminum Roof Coating Energy Star qualified*

✍✍*Roof warranties available. Consult with Henry Representative for requirements in your area.*

INSERT PART 1 GENERAL as part of this specification

PART 2 PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

A. Materials manufactured or supplied by Henry Company, 2911 Slauson Ave., Huntington Park, CA 90255. (323) 583-5000 or (800) 486-1278.

2.02 PRODUCT DELIVERY

A. Bulk delivery material shall be accompanied by a Henry Company bill of lading.

2.03 MATERIALS

A. BASE PLY
   1. #606 Modified Underlayment, Inverted

B. INTERPLY 2 or 3 layers
   1. #608 30# Modified Fiberglass Ply Sheet

C INTERPLY ADHESIVE 2 gallons per 100 ft.^{2}/ply
   1. #902 Permanent Bond Adhesive (Western U.S.) **or**
   2. #903 High Solids Adhesive (Eastern U.S.)

D. SURFACING - 9 gallons with 3 lbs. glass/square
   1. #107 Asphalt Emulsion **or**
   2. #100 Elastomulsion
   3. and #189 Chopped Fiberglass

E. REFLECTIVE SURFACING
   1. #229 Aluminum Emulsion - 1½ gallons per 100 ft.^{2} **or**
   2. #869 Elastomeric Aluminum Roof Coating- 1½ to 2 gallons per 100 ft.^{2} **or**
   3. #220 Fibered Aluminum Coating 1½ gallons per 100 ft.^{2} **or**
   4. #280 Premium White Elastomeric Coating – 1 to 1¼ gallons per 100 ft.^{2} over #291 Base Coat **or**
   5. #280DC Premium Elastomeric White Roof Coating - 1 to 1¼ gallons per 100 ft.^{2} over #291 Base Coat.
   6. #291 Premium Elastomeric Base Coat - 1 to 1¼ gallons per 100 ft.^{2}.

F. INSULATION (Edit as required)
   1. *(INSERT APPROVED INSULATION,* R-Value _____.
   2. Overlay *board* of ½ minimum perlite, fiberboard or Henry ¼ Re-Cover board over Polyisocyanurate or EPS.
   3. #111 INSUL-BOND cold adhesive.

G. MISCELLANEOUS PRODUCTS
   1. Primer
      a. #104 Asphalt Primer or

b. #103 VOC Compliant Primer
2. #906 Plastic Cement
3. #209 ElastoMastic
4. ModifiedPlus NP180s/s SBS modified base flashing.
5. Ruftac □ 75 mil - SBS modified self-adhesive membrane
6. Reinforcing Glass □ Yellow
7. Walk pads
8. Approved mechanical fasteners

PART 3 □ APPLICATION

3.01 GENERAL
A. Henry Company's General Requirements and Product Data are a part of this specification.
B. (Include if reroofing) Do not remove any more roofing than can be replaced the same day.

3.02 EXAMINATION
A. Inspect deck and advise Owner's Representative of any corrections required before proceeding with roofing.

3.03 PREPARATION
A. Sweep or vacuum all surfaces prior to commencement of roofing. Allow surface to dry before proceeding.
B. Cut base and ply sheets into appropriate lengths. Allow to flatten before application.

3.04 INSULATION (Edit as required)
A. GENERAL. Lay insulation in parallel courses. Stagger end joints in adjoining courses. Apply insulation flush to parapets and wood nailers.
B. COLD ADHESIVE ATTACHMENT. Over roof surface set insulation in INSUL-BOND adhesive in accordance with manufacturer's requirements.
C. ALTERNATE □ MECHANICAL ATTACHMENT. Mechanically attach insulation using a minimum of one fastener per 2.7 sq.ft.. Install additional, perimeter and corner fasteners if required to meet a 1-90 FM wind up-lift rating.
D. SECOND LAYER. Install second layer in #111 INSUL-BOND cold adhesive. Stagger joints with the layer below.
E. Do not install any more insulation than can be roofed the same day.
F. Over insulation install 3 or 4 plies in cold adhesive. Select Paragraphs 3.06A2 or 3.06A3.

3.05 BASE PLY □ CONCRETE DECKS WITHOUT INSULATION
A. Install #605 granule side down with 2□ side laps and 4□ end laps. Apply first sheet with a 12□ width and remaining sheets full width. Adhere ply with 9□ diameter spot application of *[#902] or [#903]* cold applied adhesive 18□ on center, staggered in two rows 12□ from each edge.
B. Complete installation with two or three interplies installed shingle fashion. Select from Paragraphs 3.06A1 or 3.06A2.

3.06 MEMBRANE APPLICATION
A. INTERPLIES **(Select 1)**
1. OVER BASE SHEET COMPLETE 3-PLY ASSEMBLY: Install two (2) #608 interply sheets set in a uniform application of *[#902] or [#903]* cold applied adhesive at a rate of 2 gallons per 100 ft.^{2} Apply first sheet with an 18□ width then over that a full width piece. Install the remaining sheets full width overlapping preceding sheet 19□ On slopes >1½□ 12□, backnail interply sheets 2□ from top edge, 12□ on center. On slopes over 3□ in 12□, install interplies parallel to slope blindnailing 4□ end laps only, 6□ o.c.
2. OVER INSULATION 3-PLY ASSEMBLY or BASE SHEET 4-PLY ASSEMBLY: Install three #608 interply sheets set in a uniform application of *[#902] or [#903]* cold applied cement at 2 gallons per 100 ft.^{2} Starting at the low point, apply 12□ wide piece, then over that, one 24□ wide, over both, a full width piece. Install remaining sheets full width overlapping preceding sheet 24-2/3□
3. OVER INSULATION 4-PLY ASSEMBLY: Install four #608 Modified interply sheets set in a uniform application of *[#902] or [#903]* cold applied adhesive at a rate of 2 gallons per 100 sq.ft.. Starting at the low point, apply a 9□ wide piece, then over that, one 18□ wide, then over that, one 27□ wide. Over these 3 partial sheets, install a full width 36□ piece. The following sheets are to be applied full width, overlapping the preceding sheets by 27-1/2□

B. Before the end of each day, roll the membrane with a 75 lb. (minimum) weighted roller. Provide waterstops and seal all terminations.

3.07 FLASHINGS
A. Install Flashing Specification #180.

3.08 SURFACING (Monolithic System)
A. After adhesive has thoroughly cured (no solvent odor is evident and laps cannot be pulled apart), sweep or pressure blow dust and debris from the roof surface to provide a clean surface. Hose and/or scrub off with water any residue accumulation.
B. Protect adjacent walls not scheduled for emulsion and reflective coating. Protect equipment, roof top units, etc. from overspray.
C. Cover prepared surfaces with [#107] or [#100] asphalt emulsion at rate of not less than 9 gallons/100 ft.^{2} but sufficient quantity to achieve 72 dry mils. Evenly blend emulsion with ¾" Henry #189 Fiberglass Roving reinforcing sprayed with equipment approved by Henry Company. Tufting of the glass fibers is not acceptable.

D. Spray emulsion in a pattern into laps of membrane so that when system is dry, there are no voids or bridging of glass over any seam of the membrane.

E. Spray base flashings and other designated surfaces with the Monolithic System.

3.09 REFLECTIVE COATING

A. Allow emulsion surfacing to cure. Clean surface of dust and debris. Scrub out pockets of residue.

B. SELECT ONE:

1. Apply [#229 Aluminum Emulsion] or [#869 Elastomeric Aluminum Coating] or [#220 Fibered Aluminum Coating] at a rate not less than 1½ gallons /100 ft.^{2} in one coat.

2. White Elastomeric Coating: Apply [#280] or [#280DC] White Elastomeric Roof Coating over a base coat of #291.

a. Apply #291 Premium Elastomeric Base Coat at a rate not less than one gallon/100 ft.^{2}. per coat.

b. Apply [#280] or [#280DC] White Elastomeric Roof Coating at a rate not less than one gallon/100 ft.^{2} per coat.

c. Apply base and top coat the same day. Allow to dry thoroughly between coats. Schedule work so second coat can dry before nightfall. Apply second coat at right angles to first coat

3. Any areas that peel must be redone before the project will be considered complete.