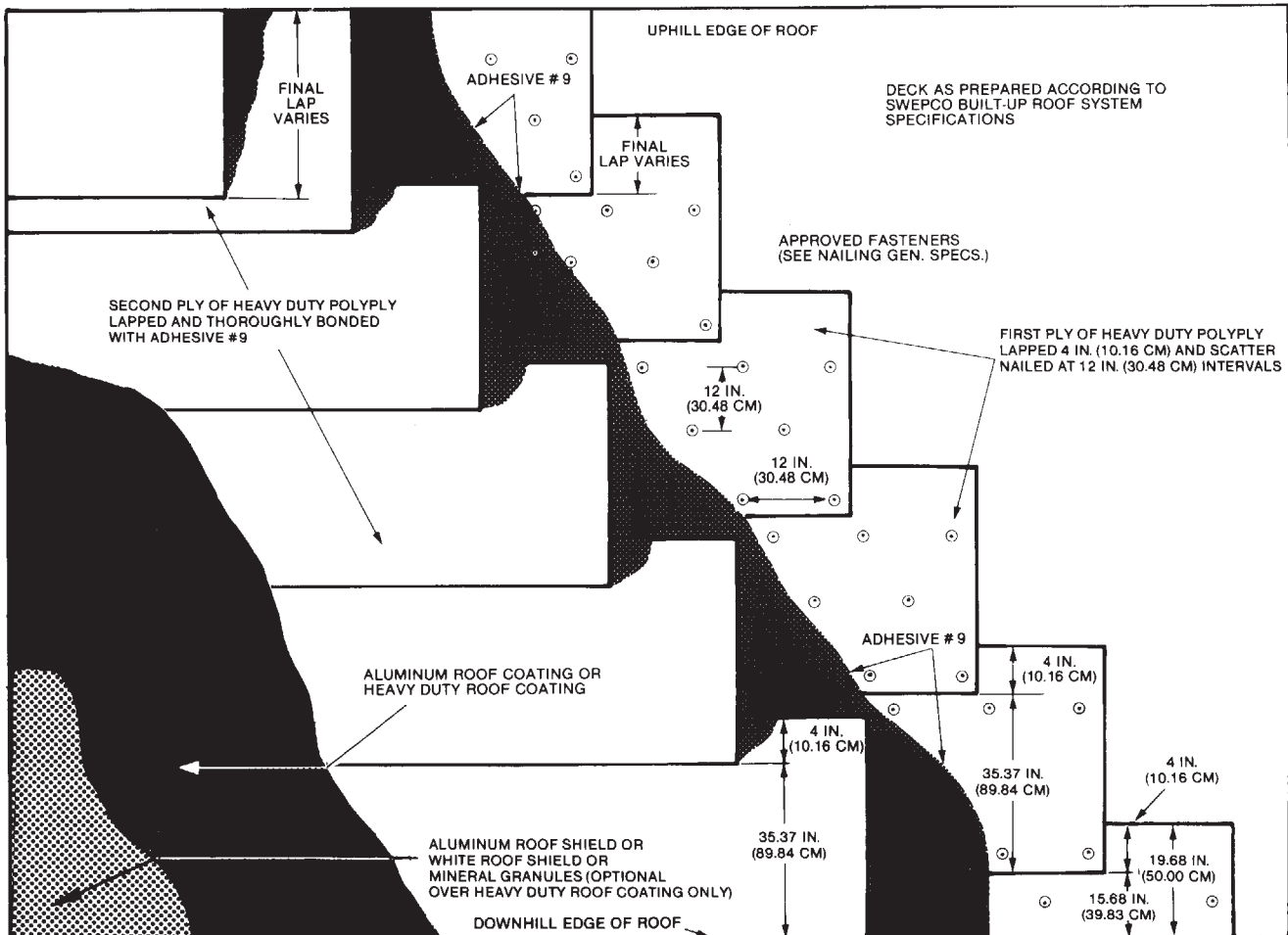


SWEPCO BUILT-UP ROOF SYSTEM SPECIFICATION 201

TYPE OF DECK: Cast-in-place Gypsum, Precast Gypsum Plank, Light Weight Insulating Concrete

PRODUCTS	MATERIALS REQUIRED PER 100 SQ. FT. (PER M ²)	APPROX. DRY WT. PER 100 SQ. FT. (PER M ²)
Aluminum Roof Shield (Optional) ¹ OR White Roof Shield (Optional) ¹ OR Mineral Granules (Optional) ¹	.33 gal. (.13 liter) OR .75 gal. (.31 liter) OR 60.00-90.00 lb. (2.93-4.39 kg)	1.42 lb. (.07 kg) OR 3.17 lb. (.15 kg) OR 60.00-90.00 lb. (2.93-4.39 kg)
Aluminum Roof Coating OR Heavy Duty Roof Coating	1.50 gal. (.61 liter) OR 2.50 gal. (1.02 liter)	7.44 lb. (.36 kg) OR 13.63 lb. (.67 kg)
Heavy Duty PolyPly	232.06 sq. ft. (2.32 m ²)	76.56 lb. (3.71 kg)
Sheathing Paper ²	108.00 sq. ft. (1.08 m ²)	5.40-16.20 lb. (.26-.79 kg)
Adhesive #9	1.74-2.32 gal. (0.71-0.95 liter)	9.43-12.57 lb. (0.46-0.61 kg)
Heavy Duty Patching Compound ³	1.00 lb./sq. ft. (4.88 kg/m ²) of flashings	
Heavy Duty Patching Fabric ⁴	1.00 sq. ft./sq. ft. (1.00 m ² /m ²) of flashing	
Nails	Approximately 120 (13)	

- ¹ These optional reflective surfacings are designed for use when Heavy Duty Roof Coating is specified as the surface coating. Because they significantly improve the performance of the system, they are highly recommended.
- ² Sheathing Paper is not required on cast-in-place gypsum and light weight insulating concrete decks. It is required on precast gypsum plank decks if joints are not grouted. See "SWEPCO BUILT-UP ROOF SYSTEM GENERAL SPECIFICATIONS" for installation instructions. Weight can vary depending upon type selected.
- ³ Heavy Duty Patching Compound is applied at the rate of 0.50 lb./lineal ft. (0.74 kg/m) when using 6 in. (15.24 cm) wide Heavy Duty Patching Fabric, 1.00 lb. lineal ft. (1.49 kg/m) when using 12 in. (30.48 cm) wide Heavy Duty Patching Fabric and 3.00 lb./lineal ft. (4.46 kg/m) when using 36 in. (91.44 cm) wide Heavy Duty Patching Fabric. When used without Heavy Duty Patching Fabric, application is normally at the rate of 1.00 lb./sq. ft. (4.88 kg/m²).
- ⁴ Heavy Duty Patching Fabric is available in 150 ft. (45.72 m) rolls of 6 in. (15.24 cm), 12 in. (30.48 cm) and 36 in. (91.44 cm) width. Order one roll in appropriate width for each 150 lineal feet (45.72 m) to be patched.



INSTALLATION INSTRUCTIONS

IMPORTANT: Carefully read and observe all safety precautions and instructions on SWEPCO Product container labels.

1. WORKMANSHIP

All work shall be performed in an efficient and workmanlike manner. Under no circumstances shall there be any evidence of wrinkles, fish mouths, or other indications of poor laminations or defects in the installed Heavy Duty PolyPly. No torn, wet or damaged Heavy Duty PolyPly shall be installed.

2. PREPARATION

The Roof Deck shall be prepared according to specifications presented in "SWEPCO BUILT-UP ROOF SYSTEM GENERAL SPECIFICATIONS". As a precautionary measure to insure good lamination of the plies of Heavy Duty PolyPly, it is allowable and in cooler climates recommended that Heavy Duty PolyPly be unrolled and allowed to uncurl for the times listed below or until completely flat:

TEMPERATURE	TIME
100°F (38°C)	5 Min.
80°F (27°C)	10 Min.
60°F (16°C)	30 Min.

3. INSTALLATION OF ROOF MEMBRANE

This system is composed of two plies of Heavy Duty PolyPly.

First Ply:

Starting at the low (downhill) edge of the roof, install a single ply of Heavy Duty PolyPly. See diagram on opposite side. Note starter course is only 19.68 in. (49.99 cm) wide. All others are full 39.37 in. (100 cm) wide. Scatter nail all courses at 12 in. (30.48 cm) intervals, leaving the uphill 4 in. (10.16 cm) unnailed. Lap edges 4 in. (10.16 cm) and ends 6 in. (15.24 cm). Continue installing courses of Heavy Duty PolyPly in shingle fashion until entire roof surface is covered. The amount of lap of the final course will vary depending on the actual size of the roof, but, in no event, shall it be less than 4 in. (10.16 cm).

Second Ply:

Starting at the low (downhill) edge of the roof, install one ply of Heavy Duty PolyPly. Bond all courses with Adhesive #9 at the rate of 1.50-2.00 gal. per 100 sq. ft. (0.61-0.82 liters/m²). Lap edges 4 in. (10.16 cm) and ends 6 in. (15.24 cm) insuring complete bonding of all laps. Continue installing courses in shingle fashion until the entire roof surface is covered. The amount of the edge lap of the last course will vary depending on the actual size of the roof, but, in no event, shall it be less than 4 in. (10.16 cm). It is important that each ply be "rolled in" prior to installing the next ply. Should wrinkles or fishmouths develop, simply lift the Heavy Duty PolyPly, stretch, and set the Heavy Duty PolyPly back into the Adhesive #9 and roll it in.

A small "bleed out" of Adhesive #9 at the side laps and ends will assure a good seat at the seams.

4. SEALING THE ROOF MEMBRANE

All edges, parapet walls, joints and protrusions through the roof deck must be flashed and sealed as prescribed in "SWEPCO BUILT-UP ROOF SYSTEM GENERAL SPECIFICATIONS".

5. COATING THE MEMBRANE

a. Aluminum Roof Coating

Brush out all large patches of Adhesive #9 which may be on the exposed area of Heavy Duty PolyPly. SWEPCO Heavy Duty Roof Coating is applied uniformly over the entire roof at the rate of 1.50 gal. per 100 sq. ft. (.61 liter/m²). It may be applied with spray equipment, squeegee or brush.

b. Heavy Duty Roof Coating

SWEPCO Heavy Duty Roof Coating is applied uniformly over the entire roof at the rate of 2.50 gal. per 100 sq. ft. (1.02 liter/m²). It may be applied with spray equipment, squeegee or brush.

6. OPTIONAL REFLECTIVE SURFACINGS

Use of one of the following reflective surfacings is recommended when SWEPCO Heavy Duty Roof Coating is specified as the final surface coating. Because they significantly improve the performance of the system, they are highly recommended.

a. Aluminum Roof Shield

After a minimum curing period of 60 to 90 days for Heavy Duty Roof Coating, Aluminum Roof Shield can be uniformly applied over the entire roof surface at the rate of .33 gal. per 100 sq. ft. (.13 liter/m²). It can be applied using spray equipment, squeegee or brush.

b. White Roof Shield

After a minimum curing period of 60 to 90 days for Heavy Duty Roof Coating, White Roof Shield can be uniformly applied over the entire roof surface in two coats at the rate of .38 gal. per 100 sq. ft. (.15 liter/m²) each. It can be applied using spray equipment, squeegee or brush.

c. Mineral Granules

On roofs with slopes of 2.50 in. per ft. (20%) or less, mineral granules can be uniformly embedded into Heavy Duty Roof Coating as it is being applied or within 30 minutes after application. The recommended rate is 60.00-90.00 lb./100 sq. ft. (2.93-4.39 kg/m²). On roofs with slopes of less than .25 in. per ft. (2%) mineral granules are highly recommended. Special considerations are necessary on roofs with slopes greater than 2.50 in. per ft. (20%). Contact the Application Services Department for instructions.