

# SWEPCO BUILT-UP ROOF SYSTEM SPECIFICATION 304

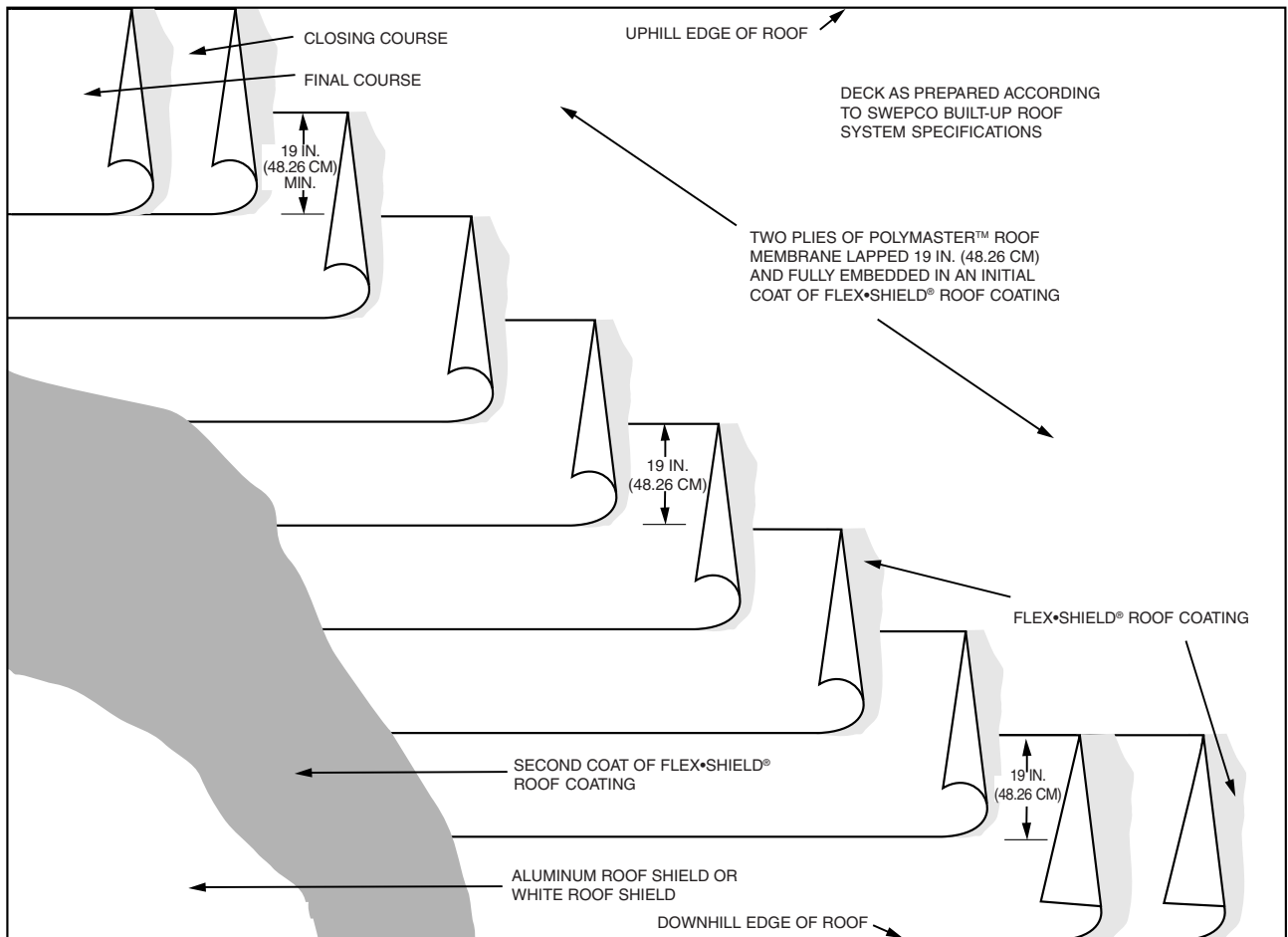
TYPE OF DECK: Cast-in-place Concrete

PRODUCTS	MATERIAL REQUIRED PER 100 SQ. FT. (PER M2)	APPROX. DRY WT. PER 100 SQ. FT. (PER M2)
Aluminum Roof Shield (Optional) <sup>1</sup> <b>OR</b> White Roof Shield (Optional) <sup>1</sup>	0.33 gal. (0.13 liter) <b>OR</b> 0.75 gal. (0.31 liter)	1.42 lb. (0.07 kg) <b>OR</b> 3.17 lb. (0.15 kg.)
Flex•Shield® Roof Coating	6.44 gal. (2.62 liter)	26.21 lb. (1.28 kg)
Heavy Duty PolyMaster™ Roof Membrane	216.00 sq. ft. (2.16 m <sup>2</sup> )	2.40 lb. (0.12 kg)
Heavy Duty Patching Compound <sup>2</sup>	1.00 lb. sq. ft. (4.88 kg/m <sup>2</sup> ) of flashings	
Heavy Duty Patching Fabric <sup>2</sup>	1.00 sq. ft./sq. ft. (1.00 m <sup>2</sup> /m <sup>2</sup> ) of flashings	

<sup>1</sup> Because they significantly improve the performance of the system, use of one of these optional reflective surfacings is highly recommended.

<sup>2</sup> 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 Patching Fabric, 1.00 lb. lineal ft. (1.49 kg/m) when using 12 in. (30.48 cm) wide Patching Fabric and 3.00 lb./lineal ft. (4.46 kg/m) when using 36 in. (91.44 cm) wide Patching Fabric. When used without Patching Fabric, application is normally at the rate of 1.00 lb./sq. ft. (4.88 kg/m<sup>2</sup>).

<sup>3</sup> 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 PolyMaster™ Roof Membrane. No torn or damaged PolyMaster™ Roof Membrane shall be installed.

## 2. PREPARATION

The roof deck shall be prepared according to specifications presented in "SWEPCO BUILT-UP ROOF SYSTEM GENERAL SPECIFICATIONS". However, pre-treatment of the deck with SWEPCO Concrete Primer is not required.

## 3. INSTALLATION OF THE ROOF MEMBRANE

Starting at the low (downhill) edge of the roof, install two plies of PolyMaster™ Roof Membrane embedded in an initial coat of Flex•Shield® Roof Coating applied at the rate of 2.00 gal. per 100 sq. ft. (0.82 liter/m<sup>2</sup>). (See diagram on opposite side). Lap edges 19 in. (48.26 cm) and ends 6 in. (15.24 cm), insuring proper embedding and sealing of all laps. Continue installing courses of PolyMaster™ Roof Membrane in shingle fashion until the entire roof surface is covered. The amount of lap of the final course of PolyMaster™ Roof Membrane will vary, but, in no event shall it be less than 19 in. (48.26 cm). Immediately after embedding the PolyMaster™ Roof Membrane in the first coat of Flex•Shield® Roof Coating, the entire roof membrane should be given a second coat of Flex•Shield® Roof Coating at the rate of 2.00 gal. per 100 sq. ft. (0.82 liter/m<sup>2</sup>).

IMPORTANT NOTE: The key to durability of this built-up roof system is proper embedding of the PolyMaster™ Roof Membrane between two coats of Flex•Shield® Roof Coating. The PolyMaster™ Roof Membrane must be thoroughly embedded in the first coat of the coating while it is still wet. It should be broomed in until it is thoroughly saturated

(brownish- black in color). Care must be taken to insure adequate sealing of all laps. The second coat can then be applied.

## 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 SYSTEMS GENERAL SPECIFICATIONS".

## 5. OPTIONAL REFLECTIVE SURFACINGS

Because they significantly improve the performance of the system, use of one of these optional reflective surfacings is highly recommended.

### a. Aluminum Roof Shield

After Flex•Shield® Roof Coating has cured for 14 days, Aluminum Roof Shield can be uniformly applied over the entire roof surface at the rate of 0.33 gal. per 100 sq. ft. (0.13 liter/m<sup>2</sup>). It can be applied using spray equipment, squeegee or brush.

### b. White Roof Shield

After Flex•Shield® Roof Coating has cured for 14 days, White Roof Shield can be uniformly applied over the entire roof surface in two coats at the rate of 0.38 gal. per 100 sq. ft. (0.15 liter/m<sup>2</sup>) each. It can be applied using spray equipment, squeegee or brush.

## APPLICATION PRECAUTIONS

SWEPCO Flex•Shield® Roof Coating will freeze. It should not be applied in temperatures below 40°F (4°C), nor should it be applied in rainy weather or if rain is expected before complete curing can take place. Normally only 24 hours are required for curing, but in cool, cloudy, damp or humid conditions curing can take longer. Avoid thick build-ups or puddles of the coating as this can cause shrinkage cracking.

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J-6959-0695

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