

**System Configuration**

- S4-AHX** (515, 3-500, emulsion)
- S4-BHX** (515, 3-506, emulsion)
- S4-AIX** (501, 3-506, emulsion)
- S4-BIX** (501, 3-506, emulsion)

**Materials per 100 sqft of roof area:**

*Base Sheet Options (choose one of the following):*

- One (1) ply of **515** 25.0 lbs.
- One (1) ply of **501** 30.6 lbs.

*Ply Sheet Options (choose one of the following):*

- Three (3) plies of **500** 7.2 lbs. per ply/21.6 lbs.
- Three (3) plies of **506** 9.2 lbs. per ply/27.6 lbs.

*Surfacing:*

- Emulsion roof coating: 3.0-5.0 gallons

*Adhesive for roofing plies:*

- ASTM D 312 Type III, or IV 25.0 lbs. per ply/per sq.

*Insulation:*

- Specified

*Weight per square (-insulation):*

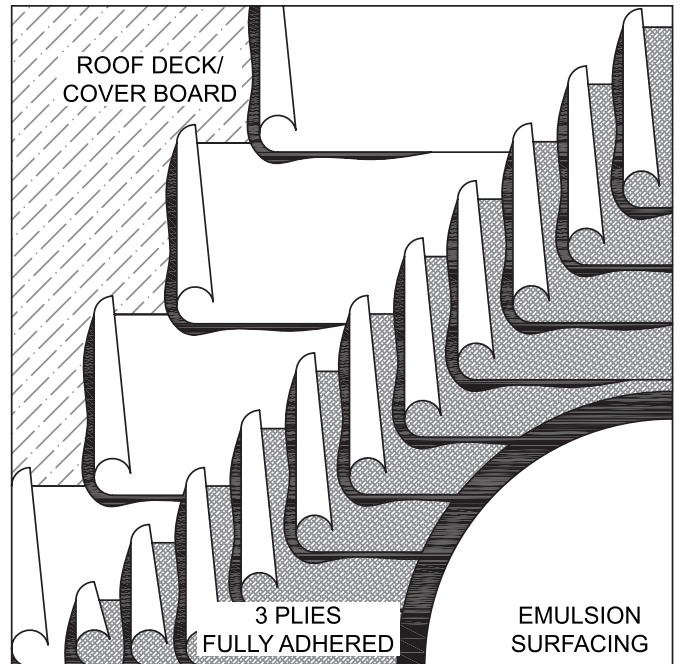
- 172.4 lbs. to 202.6 lbs.**

**Roof deck and general information:** Roof deck must be clean, dry, smooth, and structurally sound to receive the new roofing system. Drainage must be incorporated in the design to prevent ponding water. For more information, please refer to the current Malarkey Specification Manual: General requirements and Commercial Installation Instructions.

**Special requirements:** This roofing system can be installed as illustrated on slopes up to 1" in 12". Slopes that are greater than 1" in 12" are to be installed in a strapped fashion using ASTM D312 Type IV asphalt, and wood nailers/insulation stops to facilitate back nailing of the roofing system. For more information, please refer to the current Malarkey Specification Manual: General Requirements/Strapped Installations.

**Application: Hot Mopped** – Install base Sheet according to instructions in section 4-5 of this manual. Turn up all cant strips and down all roof edges. Install all base/interplies so that the water is over (shingle fashion) or parallel to (strapped), but never against the laps in a uniform mopping of hot asphalt at the nominal rate of 25 lbs. per ply, per square. Broom all interplies to ensure contact between the asphalt and the bottom of the membranes. Back nail all felts at the wood nailers (strapped installations only) using 1" cap head nails 1" from the leading edge, ensuring that each nail is covered by the specified number of interply Sheets. Allow the roof to weather (30 to 90 days, based on the coating manufacturers requirements), clean and coat as specified.

**Valleys and Waterways:** Prior to the application of interply Sheets, all valleys and waterways shall receive an extra layer of Malarkey ply Sheet (or comparable product) which shall be at least full width Sheet and shall extend at least 12 inches (30 cm) up to the inclines out of the valleys.



Four-ply, hot mopped, built-up roofing system with conventional plies, and a emulsion surfacing sheet over an approved roof deck.

**Flashings:** Install all primed flashings (lead, metal, scuppers, etc.) in a layer of plastic cement on top of the interply and stripped off with two (2) plies of reinforcement, feathering each ply 3" from the edge of the flange and corresponding ply. Install cap Sheet after all flashings have been stripped in.

**Base flashings:** Base flashing stripped ply(s) are to be installed over the interply before the installation of the field surfacing. Stripping ply(s) are to extend 3" beyond the toe of the cant and up the vertical surface of all flat to vertical transitions (curb, walls, roof top equipment, etc.). Install the specified cap Sheet base flashing extending 6" beyond the toe of the cant and up the vertical surface. Terminate the base flashing as shown in the commercial roofing details of the current Malarkey Specification Manual. Install field surfacing.

**Fire Ratings:** The specification carries a **Class 'A'** rating up to 1/2" in 12" over the following decks: Wood, Metal, Concrete, Lightweight Concrete, Structural Wood Fiber, and Gypsum. *This exact listings for this roofing system can be found in the current edition of the ITS Warnock Hersey Directory of listed Products. For other ratings, contact the Malarkey Technical Services Department.*