

System Configuration

M4-AHV (515, 2-500, 660 cap)
M4-AIV (515, 2-506, 660 cap)
M4-BHV (501, 2-500, 660 cap)
M4-BIV (501, 2-506, 660 cap)

Materials per 100 sq/ft of roof area:

Base Sheet Options (choose one of the following):

One (1) ply of 515	25.0 lbs.
One (1) ply of 501	30.7 lbs.

Ply Sheet Options (choose one of the following):

Two (2) plies of 500	7.2 lbs./14.4 lbs.
Two (2) plies of 506	8.4 lbs./16.8 lbs.

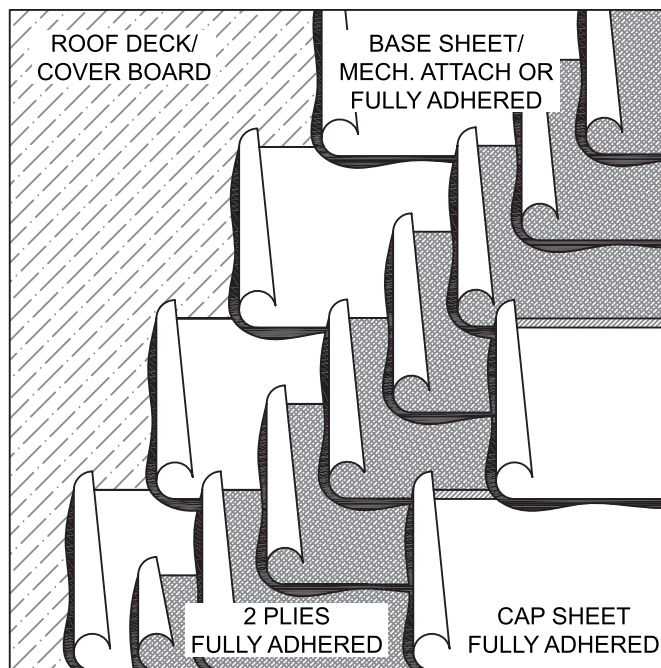
Cap Sheet:

One (1) ply of 660	100.0 lbs.
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<i>Adhesive for roofing plies:</i>	ASTM D312 Type III, or IV
	25.0 lbs. per ply/per sq.

<i>Insulation:</i>	Specified
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<i>Weight per square (-insulation):</i>	214.4 lbs. to 247.5 lbs.
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Four ply, hot mopped, built-up roofing system with a fiberglass base, ply, and a high-performance SBS polymer modified fiberglass/poly-ester scrim cap sheet installed over an approved roof deck.

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 Sections 3.6 and 3.7 of this manual. Turn up all cant strips and down all roof edges. Install all interplies so water runs 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 plies to ensure contact between the asphalt and the bottom surface roofing felts. Back-nail felts at the wood nailers (strapped installations only) using 1" cap head nails 1" from the leading edge, ensuring each nail is covered by the specified number of interply sheets. Cap sheet will be installed so water runs over (shingle fashion) or parallel to (strapped), but never against the laps. Cut cap to 1/3 of the total length (10.6') an allow to relax prior to installation. Position cap membrane for installation and embed into a uniform mopping of asphalt applied at the rate of 25 lbs. per square. Ensure contact between the asphalt and bottom of the sheet. Stagger all end laps a minimum of 12".

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 a full width sheet and shall extend at least 12 inches (30 cm) up the inclines out of valleys.

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.). After the installation of the field surfacing, install the specified SBS 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.

Fire Ratings: The specification carries a **Class 'A'** rating up to **1" 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 fire ratings, contact the Malarkey Technical Services Department.*

Note: *When installing this system over an insulated roof deck, the base sheet attachment will change from a mechanical to fully adhered.*