LOW SLOPE ROOFING SYSTEM SPECIFICATION
THREE-PLY CONVENTIONAL GRAVEL

System Configuration

G3-XHX (3-500, gravel)
G3-XIX (3-506, gravel)

Materials per 100 sq/ft of roof area:

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:	
ASTM D 1863 commercial grade, washed, opaque gravel	400.0 lbs.
Adhesive for roofing plies:	ASTM D 312 Type III, or IV 25.0 lbs. per ply/per sq. 60.0 lbs. flood coat for surfacing
Insulation:	Specified
Weight per square (-insulation):	**556.6 lbs. to 562.6 lbs.**

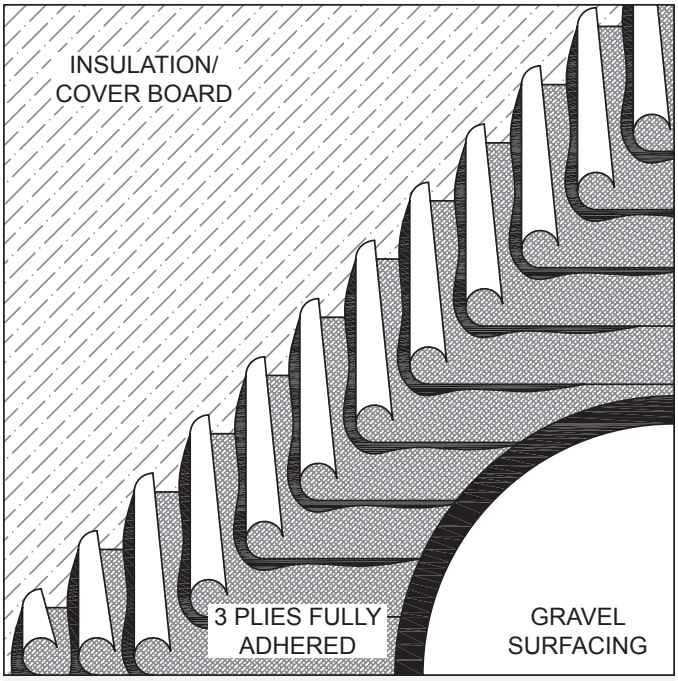
Roof deck and general information: Roof deck must be clean, dry, smooth, and structurally sound to receive the new roofing system. Drainage must be incorporated in the design to prevent ponding water. For more information, please refer to the current Malarkey Specification Manual: General requirements 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 D 312 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* - inter-plies are to be fully adhered to the cover board. Turn up all cant strips and down all roof edges. Install all inter plies 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 inter-plies 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 inter-ply sheets. Install gravel surfacing in a flood coat of asphalt applied at the nominal rate of 60 lbs. per square.

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 to the inclines out of the valleys.

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



Three-ply, hot mopped, built-up roofing system with conventional plies and gravel surfacing over an approved roof deck.

Base flashings: Base flashing stripping ply(s) are to be installed over the inter-ply 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 (curbs, 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 3” in 12” over the following decks: Wood, Metal, Concrete, Lightweight Concrete, Structural Wood Fiber, and Gypsum. *The exact listing 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.*