SECTION 075100 - BUILT-UP BITUMINOUS ROOFING

PART 1 GENERAL

1.01 SECTION INCLUDES
A. Built-up roofing membrane, conventional application.
B. Roofing cant strips, accessories, and roofing vents.

1.02 RELATED REQUIREMENTS
A. Section 061000 - Rough Carpentry: Wood nailers and curbs.
B. Section 077200 - Roof Accessories: Prefabricated curb for mechanical equipment.

1.03 REFERENCE STANDARDS
A. NRCA (RM) - The NRCA Roofing Manual; 2018.

PART 2 PRODUCTS

2.01 ROOFING - CONVENTIONAL APPLICATION
A. Built-up Bituminous Roofing: Asphalt felt membrane, four ply.

2.02 BITUMINOUS MATERIALS

2.03 ACCESSORIES
A. Cant Strips: Wood; pressure preservative treated.
B. Strip Reglet Devices: Galvanized steel, maximum possible lengths per location, with attachment flanges.

PART 3 EXECUTION

3.01 MEMBRANE APPLICATION
A. Install built-up bituminous roofing system in accordance with manufacturers recommendations and NRCA (RM) applicable requirements.
B. Equiviscous Temperature (EVT) at Point of Application: Comply with NRCA (RM) recommendations.
C. Apply membrane plies, weather lap edges and ends, and mop with 20 lbs/square (100 sq ft) (9 kgs/square (9.3 sq m)) of bitumen per ply. Apply plies 2 on 2 in same direction.
D. Apply smooth, free from air pockets, wrinkles, fish-mouths, or tears.
E. At intersections with vertical surfaces:
   1. Extend membrane and base sheet over cant strips and up a minimum of 4 inches (100 mm) onto vertical surfaces.
   2. Mop on base flashing of two additional plies of felt and one ply of base flashing material.
F. Around roof penetrations, mop in and seal flanges and flashings with two additional plies of felt.
G. Coordinate installation of roof penetrations and related flashings.

3.02 ROOF COATING INSTALLATION - CONVENTIONAL APPLICATION
A. Apply roof coatings in accordance with roofing and coating manufacturers' instructions.
B. Apply aluminized asphalt coating to bitumen top surface at the rate of 1-1/2 to 2 gal/square (100 sq ft) (5.68 L to 7.57 L/square (9.3 sq m)).

3.03 FIELD QUALITY CONTROL
A. See Section 014000 - Quality Requirements, for general requirements for field quality control and inspection.

3.04 PROTECTION
A. Protect installed roofing and flashings from construction operations.
B. Where traffic must continue over finished roof membrane, protect surfaces using durable materials.

END OF SECTION 075100