

3.02 PREPARATION	C. Verify roof openings are correctly framed.
	D. Verify deck surfaces are dry, free of ridges, warps, or voids.
3.03 INSTALLATION	A. Seal roof deck joints wider than 1/16 inch (1.5 mm) as recommended by shingle manufacturer.
	B. At areas where eave protection membrane is to be adhered to substrate, fill knot holes and surface cracks with later filler.
3.04 CLEANING	A. Clean exposed work upon completion of installation; remove grease and oil films, excess joint sealer, handling marks, and debris from installation, leaving work clean and unmarked, free from dents, creases, waves, scratch marks, or other damage to finish.
	B. Touch-up, repair, or replace damaged asphalt shingles or accessories before Date of Substantial Completion.
END OF SECTION	
SECTION 075400 THERMOPLASTIC MEMBRANE ROOFING	
PART 1 GENERAL	A. Adhered system with thermoplastic roofing membrane.
	B. Insulation, flat and tapered.
1.01 SECTION INCLUDES	A. Adhered system with thermoplastic roofing membrane.
	B. Insulation, flat and tapered.
1.02 REFERENCE STANDARDS	A. ASTM C1177/C1177M - Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing; 2017.
	B. ASTM C1289 - Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board; 2023.
1.03 ADMINISTRATIVE REQUIREMENTS	A. Preinstallation Meeting: Convene one week before starting work of this section.
	B. Review preparation and installation procedures and coordinating and scheduling required with related work.
1.04 SUBMITTALS	A. Product Data: Provide data indicating membrane materials, flashing materials, insulation, surfacing, and fasteners.
	B. Shop Drawings: Submit drawings that indicate joint or termination detail conditions, conditions of interface with other materials, and setting plan for tapered insulation.
1.05 QUALITY ASSURANCE	A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum three years of documented experience.
	B. Installer Qualifications: Company specializing in performing work of this section with at least three years of documented experience and approved by manufacturer.
1.06 DELIVERY, STORAGE, AND HANDLING	A. Deliver materials in manufacturer's original containers, dry and undamaged, with seals and labels intact, unless otherwise indicated.
	B. Store materials in weather protected environment, clear of ground and moisture.
1.07 FIELD CONDITIONS	A. Do not apply roofing membrane during unsuitable weather.
	B. Do not apply roofing membrane when ambient temperature is below 40 degrees F (5 degrees C) or above 90 degrees F (32 degrees C).
1.08 WARRANTY	A. Material Warranty: Provide membrane manufacturer's warranty agreeing to replace material that shows manufacturing defects within five years after installation.
	B. System Warranty: Provide manufacturer's system warranty agreeing to repair or replace roofing that leaks or is damaged due to wind or other natural causes.
PART 2 PRODUCTS	A. Thermoplastic Polyolefin (TPO) Membrane Roofing Materials:
	1. Basis of Design: Carlisle SynTec Systems; Sure-Veld TPO: www.carlisle-syntec.com/#file.
2.01 MANUFACTURERS	1. BASF Corporation: www.neopor.basf.us/#file.
	2. Carlisle SynTec Systems: www.carlisle-syntec.com/#file.
2.02 ROOFING	A. Thermoplastic Membrane Roofing: One ply membrane, fully adhered, over insulation.
	B. Roofing Assembly Requirements:
2.03 MEMBRANE ROOFING AND ASSOCIATED MATERIALS	A. Solar Reflectance Index (SRI): Minimum of 64 based on three-year aged value; if three-year aged data is not available, minimum of 82 initial value.
	B. Field applied coating may not be used to achieve specified SRI.
2.04 ACCESSORIES	A. Cant and Edge Strips: Wood fiberboard, compatible with roofing materials; cants formed to 45 degree angle.
	B. Insulation Joint Tape: Glass fiber reinforced tape as recommended by insulation manufacturer, compatible with roofing materials; 6 inches (152 mm) wide; self adhering.
2.05 INSULATION	A. Polyisocyanurate (ISO) Board Insulation: Rigid cellular foam, complying with ASTM C1289.
	1. Classifications:
2.06 ACCESSORIES	A. Cant and Edge Strips: Wood fiberboard, compatible with roofing materials; cants formed to 45 degree angle.
	B. Insulation Joint Tape: Glass fiber reinforced tape as recommended by insulation manufacturer, compatible with roofing materials; 6 inches (152 mm) wide; self adhering.
2.07 PROTECTION	A. Do not permit traffic over finished roof surface; protect roofing until completion of project.
	B. Touch-up, repair, or replace damaged asphalt shingles or accessories before Date of Substantial Completion.
END OF SECTION	
SECTION 07700 ROOF ACCESSORIES	
PART 1 GENERAL	A. Roof curbs.
	B. Equipment rails.
1.01 SECTION INCLUDES	A. Roof curbs.
	B. Equipment rails.
1.02 REFERENCE STANDARDS	A. 29 CFR 1910.23 - Ladders; Current Edition.
	B. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products; 2017.
1.03 SUBMITTALS	A. Product Data: Manufacturer's data sheets on each product to be used.
	B. Shop Drawings: Submit detailed layout developed for this project and provide dimensioned location and number for each type of roof accessory.
1.04 DELIVERY, STORAGE, AND HANDLING	A. Store products in manufacturer's unopened packaging until ready for installation.
	B. Store products under cover and elevated above grade.
1.05 WARRANTY	A. Manufacturer Warranty: Provide 2-year manufacturer warranty for roof hatches. Complete forms in Owner's name and register with manufacturer.
	B. Extended Correction Period: Correct defective work within 5-year period commencing on Date of Substantial Completion.
PART 2 PRODUCTS	A. Roof Hatch Manufacturers:
	1. Activar Construction Products Group, Inc. - J.L. Industries: www.activarpg.com/#file.
2.01 ROOF CURBS	A. Roof Curbs Manufacturers:
	1. AES Industries Inc: www.aescurb.com/#file.
2.02 ROOF HATCHES AND VENTS	A. Roof Hatch Manufacturers:
	1. Activar Construction Products Group, Inc. - J.L. Industries: www.activarpg.com/#file.
2.03 MEMBRANE ROOFING AND ASSOCIATED MATERIALS	A. Solar Reflectance Index (SRI): Minimum of 64 based on three-year aged value; if three-year aged data is not available, minimum of 82 initial value.
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END OF SECTION	
SECTION 07710 ROOF SPECIALTIES	
PART 1 GENERAL	A. Roof curbs.
	B. Equipment rails.
1.01 SECTION INCLUDES	A. Roof curbs.
	B. Equipment rails.
1.02 REFERENCE STANDARDS	A. 29 CFR 1910.23 - Ladders; Current Edition.
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END OF SECTION	
SECTION 07800 FIRESTOPPING	
PART 1 GENERAL	A. Roof curbs.
	B. Equipment rails.
1.01 SECTION INCLUDES	A. Roof curbs.
	B. Equipment rails.
1.02 REFERENCE STANDARDS	A. 29 CFR 1910.23 - Ladders; Current Edition.
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SECTION 07840 FIRESTOPPING	
PART 1 GENERAL	A. Roof curbs.
	B. Equipment rails.
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