



## EPDM SYSTEMS PERFORMANCE EXAM Master Tools, Equipment and Materials (TEM) List

1. Qualified Assessors must inspect all tools, equipment and materials for defects prior to use and ensure defective or otherwise unsuitable items are replaced or defects corrected prior to conducting this performance exam.
2. All items must be readily available for candidates before starting an assignment.

✓	QTY.	UNIT	ITEM DESCRIPTION	NOTES
<b>HAND TOOLS</b>				
	1	Each	Nail pouch with belt	Pouch with minimum two compartments. Adjustable belt size. Suspenders optional. Hammer loop optional.
	1	Each	Silicone- or Teflon-coated membrane seam roller	Minimum 2-inch-wide roller
	1	Each	10-inch scissors/shears, minimum 4-inch cut	Sheath optional
	1	Each	Utility knife with HOOK blade	Maintain sharp blade inventory
	1	Each	Utility knife with STRAIGHT blade	Maintain sharp blade inventory
	1	Each	25-foot retractable tape measure	For general measuring tasks
	1	Each	36-inch-wide soft bristle push broom	For general cleaning and smoothing membranes into adhesive
	1	Each	Claw hammer or roofing hatchet	For fastener hand installation
	1	Each	Chalk line with chalk	For snapping lines to align membrane field sheets
	1	Each	9-inch roller handle with extension pole	For use with standard paint/adhesive disposable rollers
	1	Each	9-inch roller cover	For applying bonding adhesive to flat surfaces, roller nap as specified by membrane manufacturer
	1	Each	4-inch roller handle	For use with standard paint/adhesive disposable rollers
	1	Each	4-inch roller cover	For applying bonding adhesive to flat or vertical surfaces or confined areas; roller nap as specified by membrane manufacturer
	1	Each	Disposable paint brush	For applying bonding adhesive on vertical surfaces or at confined areas
	1	Each	Abrasive pad holder with abrasive pads	Scrub-type pads for applying membrane primer
	1	Each	Silicone- or Teflon-coated membrane roller	Minimum 4-inch-wide roller for adhering field sheets to substrate at smaller surface areas
	1	Box/bag	Clean white cotton rags	For membrane cleaning tasks
	1	Each	High contrast (white or yellow) grease crayon marker or other compatible marking pen/crayon	For marking EPDM membrane sheets. Type of marker recommended by material manufacturer.

**POWER TOOLS AND DEVICES**


	1	Each	Mechanical fastener electric drill with bits	Bits must match the fastener type; spare bits recommended
	1	Each	Type SJ or SJO heavy-duty electric extension cords	To match all power tool requirements and distance to power source
	1	Each	Ground fault circuit interrupter device; external or built into power source	To match power source and power tool requirements
	1	Each	Power source, building-integrated or generated	To match power tool requirements
	1	Each	Flat- and Philips-head screwdriver	For miscellaneous attachment or maintenance tasks

**SAFETY EQUIPMENT AND SUPPLIES**

	1	Pair	Chemical-resistant gloves	Meeting product manufacturer’s published Safety Data Sheet requirements
	1	Pair	Utility cut-resistant gloves	Kevlar® or other comparable material for general hand protection from cuts and scrapes
	1	Pair	Z-87.1-compliant safety glasses with side shields	Meeting product manufacturer’s published SDS requirements
	1	Each	Personal fall-arrest system, including harness, lanyard, line, rope grab and anchor device with PFAS manufacturer’s instructions	All certification candidates are required to demonstrate proper inspecting, donning, adjusting, attaching and using a PFAS harness, lanyard and lifeline in conformance with the equipment manufacturer’s instructions; demonstrate using a rope grab device; and explain how the anchor device should be located and attached to a roof though they are not required to set up an anchor device.
O p t i o n a l	1	Each	Long-sleeve cotton or wool work shirt, various sizes	Certification candidates are instructed to bring their personal work clothing. Performance exams may not be administered without candidate wearing protective clothing when required by the system manufacturer’s SDS.

**NOTE:** Additional in-house safety equipment is provided by testing locations or made readily available on a jobsite by the controlling contractor. Examples of these items include fire extinguishers, first aid kits, eye wash facilities and proper ventilation. A complete safety checklist is found in the Qualified Assessors performance assignment instructions.

**ROOFING MATERIALS AND SUPPLIES**

	10	Lineal feet	Minimum 0.073-inch-thick by 1-inch-wide extruded aluminum termination bar with caulking lip	
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	10	Lineal feet	Minimum 45- or 60-mil-thick by 60-inch-wide reinforced EPDM membrane roll	ASTM D4637, Type II for all EPDM performance assignments. Standard low-slope performance exam mockup sizes may require cutting typical 10-foot-wide EPDM sheet widths to a smaller width that provides at least 8-lineal feet of factory-cut sidelap seam edges.
	24	Lineal feet	Minimum 45- or 60-mil-thick by 18-inch-wide reinforced or nonreinforced flashing membrane	ASTM D 4637, Type I or Type II, as required by system manufacturer for flashing sheets
	4	Lineal feet	Pressure-sensitive cured 6-inch cover strip	ASTM D4637, Type II for bonding over sheet splice cuts and preparing T-patch covers, as required by system manufacturer
	5	Pieces	Premolded outside corners	Provided by system manufacturer for parapet wall and curb flashing outside corners
	50	Pieces	Field membrane seam fasteners and plates	Length and type as required by system manufacturer, job-site requirements or mockup conditions
	50	Pieces	Cap nail fasteners	Optional membrane attachment at curbs or perimeters. Length and type as required by system manufacturer and available mockup conditions.
	25	Each	1 ¼-inch corrosion-resistant self-piercing pancake- or round-head screw fasteners	ASTM A153 (hot-dipped galvanized) or F1941 (electroplated) screw fasteners for attaching termination bar
	1	Gallon	Membrane cleaner solution	As required by the system manufacturer
	1	Gallon	Membrane primer	As required for seam bonding by the system manufacturer
	40	Lineal feet	3-inch-wide EPDM seam tape	As required for seam bonding by the system manufacturer
	1	Gallon	Flashing sheet bonding adhesive	Compatible bonding adhesive as required by the system manufacturer. This is typically the same adhesive used to bond field sheets. System manufacturer specifications or available mockup conditions may require additional adhesive.
	3	Gallons	Field sheet bonding adhesive	Compatible bonding adhesive as required by the system manufacturer. This is typically the same adhesive used to bond flashing sheets. System manufacturer specifications or available mockup conditions may require additional adhesive.
	1	Each	Prefabricated pipe boot flashing, including draw band	As required by system manufacturer