

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

Section 07570 - Traffic Topping

Introduction

Systems described under this Section are intended to be installed on exterior walking surfaces which do not enclose habited space.

Where horizontal surfaces enclosing habited spaces are intended to be regularly occupied or otherwise used for the building occupants' activities, refer to the requirements of Section 07590 Horizontal Traffic Surfacing.

Specify a complete traffic topping system, making the materials manufacturer responsible for the roofing and flashing system. Require the materials manufacturer to make periodic inspections of the work in progress to ensure that the completed work will qualify for the required warranties.

This is a section where the consultant should use a "performance specification". Do not specify proprietary manufacturer's names or materials, and do not restrict vendors to a limited list.

Traffic topping repairs and modifications which are part of a renovation project should follow these standards as much as possible. Existing warranties must not be compromised. The consultant must prepare a complete specification and details for the required repair work. Generic "flashing as required" notes are not acceptable.

Be sure to coordinate specification requirements with traffic topping, flashing, and parapet wall details.

Part 1 - General

- Require that materials manufacturer(s) and installer(s) demonstrate 5 years of successful installations of similar systems.
- Require submittal of manufacturer's literature describing the system, and samples of proposed membrane materials.
- Require a pre-installation conference, scheduled after the substrates are complete, and including the Contractor, Architect, Owner, materials manufacturer, and installing subcontractor(s).
- Traffic topping is a finish material, not a staging platform for further construction work. Include the following provisions:
 - Specifically prohibit "phased installation" of traffic topping
 - Specifically prohibit patches in the finished membrane
 - Require that finished decks be protected with plywood sheets for any and all construction traffic, and that all equipment moving be accomplished with rollers
- Specify expanded warranties as follows:
 - 5 year warranty from the installer covering defects in installation
 - 10 year warranty from the materials manufacturer including defects in materials and installation, and guaranteeing to maintain the system in a waterproof condition for the life of the warranty
 - Renewal option for an additional 10 years from the materials manufacturer
 - Full replacement value without proration
 - Include all components of the traffic topping assembly, from the deck up
 - Include sealing of all perimeters, joints, and penetrations
 - Both furnished on the University's special warranty form

Part 2 - Products

- Expressly prohibit the use of asbestos-containing materials.
- Require that all primary and secondary materials be supplied by a single manufacturer, or approved by the primary materials manufacturer, to ensure single-point responsibility for the installation and warranty.
- Specify a manufacturer's standard traffic topping system as follows:
 - UL Class A fire rating
 - Manufacturer's proprietary primer
 - Fully-adhered, fabric-reinforced, rubberized urethane waterproof membrane
 - Elastomeric polyurethane wear surface, with integral color and slip-resistant finish
 - Minimum system thickness 225 mils
 - Integral cove flashing

Part 3 - Execution

- Specifically require the traffic topping to be installed in accordance with the manufacturer's recommendations.
- Refer to and describe the appropriate SMCNA details for each edge and penetration condition.
- Require the traffic topping installer to receive, accept, and install, all sheet metal flashings.
- Specifically prohibit:
 - Pitch pans
 - Guy wires fastened directly to the deck
- Specify (or detail) 3/4" plywood nailers at all parapet walls.
- Require a spray test after completion of the roofing system, to be witnessed by the Contractor, Architect, Owner, materials manufacturer, and installing contractor(s).

End of Section 07570