

## **DIVISION 7 - THERMAL AND MOISTURE PROTECTION**

### **Section 07100 - Waterproofing and Dampproofing**

#### **Introduction**

Waterproofing and dampproofing are not interchangeable materials. Project may have one, both, or neither.

Waterproofing is a relatively secure system, and is used on surfaces which enclose habited space and where moisture penetration is not acceptable.

Dampproofing is a less restrictive system, and is used to reduce moisture migration through exterior surfaces such as retaining walls and planters.

Where such surfaces are intended to be subject to foot traffic, and therefore are not "roofs", refer to the requirements of Section 07590 Horizontal Traffic Surfacing.

Pay particular attention to the drainage course against the wall and to perimeter drains. Describe requirements for these elements on the drawings.

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.

#### **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).
- 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 or dampproof condition (as applicable) for the life of the warranty
  - Include sealing of all perimeters, joints, and penetrations
  - Renewal option for an additional 10 years from the materials manufacturer
  - Full replacement value without proration
  - Both furnished on the University's special warranty form

#### **Part 2 - Products**

- Expressly prohibit the use of asbestos-containing materials.
- Require that all 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 waterproofing system which includes the following:
  - Joint preparation
  - Continuous self-healing sheet membrane, or

- Fluid-applied membrane which cures in place to form a continuous monolithic self-healing membrane
- Termite-resistant protection board embedded in a fluid-applied coating to prohibit displacement
  
- Specify a dampproofing system which includes the following:
  - Joint preparation
  - At least two layers of trowel-grade bituminous coating with interweaved mesh membrane reinforcement
  - Termite-resistant protection board embedded in bituminous coating to prohibit displacement

### **Part 3 - Execution**

- Require that the in-progress installation be observed by the materials manufacturer to ensure that the complete assembly will qualify for the required warranty.
  
- Require that all penetrations be installed in the wall prior to membrane application, so they can be properly sealed by the membrane installer. Avoid the installation of unnecessary sleeves and pay particular attention to the detailing of those that are required.

### **End of Section 07100**