

SECTION 071113 – BITUMINOUS DAMPROOFING

PART 1: GENERAL

1.1 Scope of Standard

- A. This standard provides general guidance concerning the specific references to moisture penetration through foundation walls and similar surfaces subject to high humidity, dampness and direct water contact, but not subject to hydrostatic pressures.
- B. Project conditions and requirements vary, thus precluding the absolute adherence to the items identified herein in all cases. However, unless there is adequate written justification, it is expected that these guidelines will govern a study of test boring data to determine amounts of ground water present in the construction site and determine if hydrostatic pressure is a concern.

1.2 Quality Control

- A. Damproofing shall be compatible with the substrate or primer on which it is adhered. Also, verify compatibility of flashing material and adhesives with damp proofing materials.
- B. Material must be installed per manufacturer instructions. Coating thickness shall be protected from backfill by a soft (compressible) material.
- C. All concrete slabs including walks and parking areas) shall be placed on 6 mil plastic. Reinforcing shall be held in place using non penetrating chairs or supports.

1.3 General Requirement

- 1. Normally all below grade building spaces should be protected by either a membrane or a bituminous coating of waterproofing on alteration projects.
- 2. Slabs on grade should be protected by either a membrane, med mat, or by plastic sheets, depending on conditions.
- 3. Slabs above grade in potentially wet areas shall receive a waterproof membrane system. Sleeves and openings in the slab shall be properly flashed. This protection is required over occupied spaces and under docks or penthouse floor slabs.
- 4. Penthouse floors, especially under large air handlers and interior cooling towers shall receive a waterproof coating with proper drainage.
- 5. All containment including dikes, curbs, shall be properly waterproofed with proper drainage.

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6. All horizontal areas should be tested by flooding after the waterproof membrane system has been applied.
7. A five year guarantee is required for all waterproofing work.

A. BELOW GRADE CONSTRUCTION

1. Sheet or Roll Membrane
 - a. All surfaces shall be primed with a manufacturers approved primer. Membrane overlapped 2-1/2" min. at seams. Apply elastomeric mastic to all seams and edges. At all corners, cracks, and construction joints, two layers of membrane shall be applied.
2. Liquid Applied Damproofing
 - a. Acceptable Products and Manufacturers:
Bituthene by Grace Construction Products Division
Polyguard No. 650 by Polyguard Products, Inc.

B. VAPOR BARRIERS/RETARDANTS

1. A vapor barrier is required for all WVU buildings applied to exterior walls and roofs.
2. The vapor barrier for exterior walls shall be made of either a polyethylene sheet or a butyl rubber liquid compound.
3. Vapor barriers over pools and freezers require added protection.

PART 2: PRODUCTS – NOT USED

PART 3: EXECUTION – NOT USED

END OF SECTION 071113