DIVISION 07—THERMAL AND MOISTURE PROTECTION

FORMAT
1. Technical specifications content and numbering system shall be based on 2004 CSI MasterFormat

BASIS OF DESIGN
1. BGSU Design Standards are minimum requirements. Exceptions to these standards are allowed provided they are approved by Design & Construction.
2. In instances where fewer than 3 manufacturers are indicated, the Architect/Engineer (A/E) shall insert “or approved equal” in the Products section of the technical specifications.
3. All submitted substitute products shall be brought to the attention of Design & Construction, prior to approval.

07100 WATERPROOFING
1. Machine and equipment rooms floors The following are minimum requirements to assure adequately designed waterproof for and other areas subject to flooding from equipment failure or seepage from exterior sources.
2. Drawings shall fully detail the installation of the membrane.
3. Continuous membrane risers shall be provided above the finished floor surface at vertical wall, pads, curbs, pipes, and ducts through the slab. Risers shall be at least as high as the lowest curb and shall be bonded to the vertical surface.
4. Concrete foundation walls around elevator pits and around basements, from grade to footings, shall be treated with membrane waterproofing. When elevators open into areas subject to flooding, opening sills must be above membrane riser height to keep flood water out of the elevator shaft.
5. Specifications shall provide for a heavy duty, permanent waterproofing type of membrane capable of adjusting to building movements without breaking membrane seal. When rubber or vinyl membranes are specified, a 10-year experience clause with written documentation shall be required by the specification.
6. Installation of surface applied membrane waterproofing shall be completed after all major work of other trades has been completed.
   a. Inaccessible surfaces under equipment and housing foundations, pads, and curbs may be waterproofed in advance of other floor areas. Surface membrane shall be protected until acceptance of the space by the Office of Design and Construction.
7. WALKWAYS: Waterproofing membranes shall be protected with the approved walkway pads or mats for the foot traffic areas around equipment.
8. TESTING: All waterproofing membranes shall have a flood test using water. Floors shall be filled with water to within ¹/₄" above the floor/curb intersection for a minimum of 24 hours. After the 24 hour period, Contractor, A/E and Design & Construction Project Manager will inspect for leaks.
   a. A/E shall include the following statement in the Technical Specifications:
“Successful test shall not relieve the contractor of maintaining a leak free floor until the end of the warranty period.”

9. Contractor, manufacturer and subcontractor shall provide a written three (3) year guarantee complete membrane waterproofing installation and associated materials which make up the total system. The guarantee shall cover, at no cost to the University, all labor and materials required for repair or replacement to correct leaks, faulty materials or workmanship.

**7150 DAMPROOFING**

**7160 Bituminous Type**
1. Surfaces or exterior walls and walls below grade, which will receive an applied finish, shall be primed and coated with bituminous dampproofing prior to installation of furring.

**07175 Water Repellent Coating**
1. Exposed surfaces of exterior brick, concrete block, and precast concrete shall be coated with a penetrating colorless, non-staining, mildew-resistant water repellent.

**07220 ROOF DECK INSULATION**
1. All insulating materials, including cant strips and tapered edge strips, shall be non-hygroscopic.
2. Provide a vapor barrier under the insulation.
3. Wood fiber composite insulation is prohibited.
4. Compatibility with roofing materials or separation is mandatory for wood, treated wood, fibrous materials, insulation, etc.

**07240 EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)**
1. EIFS shall only be used as accenting for vertical surfaces only upon approval by the Project Manager.
2. For horizontal surfaces, such as canopy overhangs, EIFS may be utilized.

End of Section