

**DASECTION 07 13 00**  
**SHEET WATERPROOFING**

SPEC WRITER NOTE:

1. Delete between // ---- // if not applicable to project. Also delete any other item or paragraph not applicable in the section and renumber the paragraphs.
2. Use this section for small staff personnel showers only as shown on VA Standard Details 10800-1 drawing and 10800-2 drawing.
3. Clearly identify locations on drawings with terminology consistent with specification section title.
4. Ensure details show shower pan waterproofing extends up walls not less than 100 mm (4 inches) above surface of shower floor and over the top of the curb substrate.

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. This section specifies sheet waterproofing materials used for shower pan waterproofing in personnel showers.

**1.2 QUALITY CONTROL**

- A. Approval by the COR is required of products of proposed manufacturers.

**1.3 SUBMITTALS**

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Manufacturer's Literature and Data:
1. Sheet waterproofing.
  2. Printed installation instructions.
- C. Certificates:
1. Sheet waterproofing manufacturer's approval of adhesive used.
  2. Waterproofing tests report indicating that water test as specified has been made for each shower area and that each area was found to be watertight.
- D. Samples:
1. Sheet waterproofing, 150 mm (6 inches) square.
  2. Waterproofed building paper, 150 square mm (6 inches square).
  3. Adhesive, 0.24 L (1/2 pint).

**1.4 PRODUCT DELIVERY, STORAGE AND HANDLING:**

- A. Deliver materials to job in manufacturer's original unopened containers with brand name marked thereon.
- B. Unload and store to prevent injury to materials.
  - 1. Do not store material in areas where temperature is lower than 10 degrees C (50 degrees F), or where prolonged temperature is above 32 degrees C (90 degrees F).

**1.5 WARRANTY**

- A. Shower pan waterproofing is subject to the terms of Article titled "Warranty of Construction", FAR clause 52.246-21, except that warranty period is extended to two years.

**1.6 APPLICABLE PUBLICATIONS:**

SPEC WRITER NOTE: Make material requirements agree with applicable requirements specified in the referenced Applicable Publications. Update and specify only that which applies to the project.

- A. The publications listed below form a part of this specification to the extent referenced. The publications are referenced by basic designation only.
- B. Federal Specification (Fed. Spec.):
  - UU-B-790A INT AMD 1.....Building Paper, Vegetable Fiber: (Kraft, Waterproof, Water Repellent and Fire Resistant)

**PART 2 - PRODUCTS**

**2.1 SHOWER PAN WATERPROOFING SHEET:**

- A. Rubber type sheet formed of non-reinforced, homogeneous, impermeable, sheeting compound reduced to thermoplastic state, resistant to fungus, mildew and bacteria, not less than 1.5 mm (60 mils) thick.
- B. Asphaltic sheet formed with a laminated asphalt construction consisting of eight plies of Kraft paper bonded and saturated by seven layers of asphalt, reinforced with three layers of glass fibers and faced with polyethylene sheet; total weight 1.9 kilogram/square meter (0.40 pounds per square foot).

**2.2 ADHESIVES:**

- A. As furnished by the manufacturer of the sheet waterproofing.
- B. Compatible with adjacent materials where contact occurs.

**2.3 WATERPROOFED BUILDING PAPER:**

- A. Fed. Spec. UU-B-790, Type I, Grade C.

**2.4 CONCRETE PATCHING COMPOUND:**

- A. Portland cement base, acrylic polymer compound, manufactured specifically for resurfacing and leveling concrete floors.
- B. Have not less than the following physical properties:
  - 1. Compressive strength - 25 mPa (3500 psi).
  - 2. Tensile strength - 7 mPa (1000 psi).
  - 3. Flexural strength - 7 mPa (1000 psi).
  - 4. Density - 1.9.
- C. Capable of being applied in layers up to 50 mm (two inches) thick, being brought to a feather edge, and being troweled to a smooth finish.
- D. Ready for use in 48 hours after application.

**PART 3 - EXECUTION****3.1 PREPARATION:**

- A. Before installing shower pan waterproofing, adjoining surfaces shall be clean, smooth, firm and dry.
- B. Concrete surfaces shall be cured a minimum of seven days and be free from release agents, concrete curing agents, and other contaminants.
- C. Remove all high spots and loose and foreign particles and fill all voids, depressions joints and cracks with concrete patching compound.
- D. Ensure vertical surfaces have a continuous supportive back substrate for waterproofing.

**3.2 INSTALLATION:**

- A. Coat entire surfaces to receive shower pan waterproofing with adhesive spread at rate of 1 liter/square meter (one gallon per 40 square feet).
- B. Butt joints and cover with a strip of the waterproofing sheeting material eight inches in width and seal with adhesive.
- C. Carry sheeting up vertical surfaces not less than 4 inches above surface of shower floor. Carry over tops of curbs.
- D. Roll entire horizontal surfaces with 23 to 45 kg (50 to 100 pounds) roller and roll corners and vertical sections with a rubber roller to insure solid anchorage.
- E. Make cut out for floor drains and fit to drain for watertight assembly, coordinating with drain installation.

**3.3 PROTECTION:**

- A. When finish floor will not be immediately installed, protect waterproofing pan.
- B. Cover with 2 inches of sand or waterproofed building paper.
- C. Maintain protection until finished floor is placed.

**3.4 WATER TEST:**

- A. Test in presence of COR for leaks before permanent finish is applied over shower pan waterproofing.
- B. Seal floor drain watertight and fill waterproofing pan with water to within approximately 25 mm (1 inch) of top of its vertical surfaces.
- C. When leakage occurs, repair waterproofing and repeat testing until no leakage occurs.
- D. Submit certificate to COR of test results.

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