

**SECTION 07 13 00
SHEET WATERPROOFING**

SPEC WRITER NOTES:

1. Use this section only for NCA projects.
2. Delete between // ---- // if not applicable to project. Also delete any other item or paragraph not applicable in the section and renumber the paragraphs.
3. 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 SUSTAINABILITY REQUIREMENTS

- A. Materials in this section may contribute towards contract compliance with sustainability requirements. See Section 01 81 11, SUSTAINABLE DESIGN REQUIREMENTS, for project // local/regional materials, // low-emitting materials, // recycled content, // _____// requirements.

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.

1.4 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.

1.5 APPLICABLE PUBLICATIONS

- A. Publications listed below form a part of this specification to extent referenced. Publications are referenced in text by the basic

designation only. Comply with applicable provisions and recommendations of the following, except as otherwise shown or specified.

SPEC WRITER NOTES:

1. Remove reference citations that do not remain in Part 2 or Part 3 of edited specification.
2. Verify and make dates indicated for remaining citations the most current at date of submittal; determine changes from date indicated on the TIL download of the section and modify requirements impacted by the changes.

B. American Society for Testing and Materials:

D226/D226M-09 Asphalt Saturated Organic Felt Used in Roofing
and Waterproofing

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 kg/m² (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. ASTM D226 Type II.

2.4 CONCRETE PATCHING COMPOUND

- A. Description:
 1. Portland cement base, acrylic polymer compound, manufactured specifically for resurfacing and leveling concrete floors.
 2. Capable of being applied in layers up to 50 mm (2 inches) thick, being brought to a feather edge, and being troweled to a smooth finish.
 3. Ready for use in 48 hours after application.
- B. Minimum 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.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Before installing shower pan waterproofing, adjoining surfaces must be clean, smooth, firm and dry.
- B. Concrete surfaces must be cured a minimum of seven days and be free from release agents, concrete curing agents, and other contaminates.
- 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 L/m² (one gallon per 40 square feet).
- B. Butt joints and cover with a strip of the waterproofing sheeting material 200 mm (8 inches) in width and seal with adhesive.
- C. Carry sheeting up vertical surfaces not less than 100 mm (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 50 mm (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 RE/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 RE/COR of test results.

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