

GUIDE SPECIFICATION FOR PROTECTION COURSE: ASPHALTIC PROTECTION BOARD FOR WATERPROOFING

SECTION 07 10 00

WATERPROOFING PROTECTION COURSE

Last Update: October 28, 2021

Specifier Notes: This guide specification is written according to the Construction Specifications Institute (CSI) Format. The section must be carefully reviewed and edited by the Architect or Engineer to meet the requirements of the project. Coordinate this section with other specification sections and the drawings.

Specifier Notes: W. R. MEADOWS PROTECTION COURSE is a multi-ply, semi-rigid board composed of a mineral-fortified asphaltic core formed between two outside layers of asphalt-impregnated fiberglass mat which are weather-coated and covered with a polyethylene anti-stick sheet. PROTECTION COURSE will absorb the impact of aggregate shock and normal jobsite foot traffic.

PROTECTION COURSE is used in between-slab construction, such as plaza decks, roof terraces, promenade decks, pedestrian concourses, tunnels, floors of bathrooms, shower, kitchens and mechanical rooms, parking garage decks, planter boxes, reflective pools and foundation walls. With a polyethylene film facing on one side and an asphalt-saturated felt on the other, PROTECTION COURSE offers compatibility with most currently popular dampproofing and waterproofing materials.

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Surface preparation.
- B. Application of a waterproofing protection course.

1.02 RELATED SECTIONS

Specifier Notes: Edit the list of related sections as required for the project. List other sections dealing with work directly related to this section.

- A. Section 02622 - Foundation and Underslab Drainage.
- B. Section 03300 - Cast-in-Place Concrete.
- C. Section 07100 - Membrane Waterproofing.

1.03 REFERENCES

- A. ASTM D6506 - Standard Specification for Asphalt Based Protection for Below-Grade Waterproofing.

1.04 SUBMITTALS

- A. Comply with Section 01330 - Submittal Procedures.
- B. Submit manufacturer's product data and application instructions.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Store materials in a clean dry area in accordance with manufacturer's instructions.
- C. Protect materials during handling and application to prevent damage or contamination.
- D. Do not apply protection course over liquid applied waterproofing membranes containing volatile solvents until all of the solvent has evaporated.

1.06 ENVIRONMENTAL REQUIREMENTS

- A. Product not intended for uses subject to abuse or permanent exposure to the elements.

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. W. R. MEADOWS, PO Box 338, Hampshire, Illinois 60140-0338. (800) 342-5976. (847) 683-4500. Fax (847) 683-4544. Web Site www.wrmeadows.com.

2.02 MATERIALS

- A. Protection Course: Multi-ply, semi-rigid board, composed of a mineral-fortified asphaltic core formed between two outside layers of asphalt-impregnated fiberglass mat, weather-coated and covered with a polyethylene anti-stick sheet.
 - 1. Performance Based Specification: protection course shall have the following characteristics based on ASTM D6506:

Specifier Notes: Select Type 1, or Type 2 Protection Course based on project requirements.
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- a. Type 1
 - 1) Puncture Strength, Class A & B: 312 N (70 lbf) minimum.
 - 2) Thickness, Class A & B: 2.4 mm to 3.9 mm (0.095 to 0.155 inches).
 - 3) Water Absorption, Class A & B: 10 % maximum.
 - 4) Asphalt % by weight, Class A: 65 % minimum.
 - 5) Asphalt % by weight, Class B: 40 % minimum.
 - 6) Resistance to decay, Class A & B: Meets puncture requirements after completion of test.
- b. Type 2
 - 1) Puncture Strength, Class A & B: 365 N (82 lbf) minimum.
 - 2) Thickness, Class A & B: 5.6 mm to 7.1 mm (0.220 to 0.280 inches).
 - 3) Water Absorption, Class A & B: 10 % maximum.
 - 4) Asphalt % by weight, Class A: 65 % minimum.
 - 5) Asphalt % by weight, Class B: 40 % minimum.
 - 6) Resistance to decay, Class A & B: Meets puncture requirements after completion of test.

- 2. Proprietary Based Specification: PROTECTION COURSE by W. R. MEADOWS.

Specifier Notes: Select PC-2 or PC-3 based on project requirements.

- a. PC-2 Medium Duty
- b. PC-3 Heavy Duty

2.03 ACCESSORIES

- A. Joint Tape: DETAIL STRIP by W. R. MEADOWS

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine surfaces to receive protection course. Notify Architect if surfaces are not acceptable. Do not begin surface preparation or application until unacceptable conditions have been corrected.

3.02 SURFACE PREPARATION

- A. Prior to application, consult the waterproofing manufacturer to determine whether the polyethylene film facing on one side, or the asphalt-impregnated fiberglass mat on the other side of protection course is approved as compatible to the specific waterproofing product being placed.
- B. Clean and prepare surfaces to receive protection course in accordance with manufacturer's instructions.
- C. If water testing is required, perform prior to application of protection course.

3.03 APPLICATION

- A. Horizontal Application
 - 1. Install protection course as soon as permissible by membrane applicator or manufacturer.
 - 2. Butt together all protection course sheet and cut to fit all intersecting surfaces and protrusions.
 - 3. Cover joints with joint tape if desired.
 - 4. Alternatively, cover joints with roofer's glass reinforced tape embedded in hot asphalt. Consult membrane manufacturer regarding this application for compatibility.
 - 5. Ensure wearing surface is applied as soon as possible following protection course application.
- B. Vertical Application
 - 1. Install protection course as soon as permissible by membrane applicator or manufacturer.
 - 2. Butt together all protection course sheet and cut to fit all intersecting surfaces and protrusions.
 - 3. If necessary, temporarily hold protection course in place using recommended adhesive by membrane manufacturer.
 - 4. Backfill immediately using care and caution to avoid damage to waterproofing system.
 - 5. Do not drop backfill material against protection course in such a manner that it could drag the sheet down as backfill drops.

3.04 PROTECTION

- A. Apply protection course at the end of each day's waterproofing to both horizontal and vertical surfaces.

END OF SECTION