

AsphaltEdge: SHORT SPECIFICATION

Place the following in specification section that will be used for the main paver work (for example, Section 02740 Bituminous Concrete Pavement, or etc.). The architect to edit size, thickness, length, and finish required for the project. Comments shown in "italics".

PART 1 GENERAL

1.01 WARRANTY

Actual article number will be determined by location within the Part 1 portion of specification.

- A. 15-year limited material warranty for asphalt restraint edging from manufacturing defects in workmanship or material.

PART 2 PRODUCTS

2.01 ASPHALT RESTRAINT EDGING

Actual article number will be determined by location within the Part 2 portion of specification.

- A. Product: PermaLoc AsphaltEdge, with 0.210 inch (5.33 mm) thick exposed top lip x 1" (25 mm) [1-1/2" (38 mm)] [2" (51 mm)] [2-1/2" (64 mm)] [3" (76 mm)] [4" (102 mm)] high x 8 feet (2.44 meters) long, extruded aluminum, alloy 6005, T-5 hardness as manufactured by PermaLoc Corporation, Holland MI 49424, telephone (800) 356-9660 or (616) 399-9600. Horizontal base to have upward facing angle profile designed to integrate restraint and asphalt surfaces for straight-line and curvilinear applications. Section shall have holes in base spaced 4 inches (102 mm) apart along its length to receive anchors.
- B. Connection Method: Section ends shall splice together with horizontal 0.060 inch (1.52 mm) thick x 1 inch (25 mm) wide, or 0.530 inch (13.5 mm) wide for 1 inch (25 mm) high edging x 4 inches (102 mm) long aluminum sliding connector.
- C. Anchors: 3/8 inch x 10 inches (9.5 mm x 254 mm) bright spiral steel spike, 3/16 inch x 1-1/2 inches (4.8 mm x 38 mm) or longer Ardox concrete nail, or drive pin fastener equal to Hilti DX 40 powder actuated pin or Ramset Trakfast Automatic Fastening System pin.
- D. Finish: Natural Mill Aluminum and Black DuraFlex Painted, AAMA 2603, electrostatically baked on paint.

PART 3 EXECUTION

Editorial Comment (shown in italic): The following information for base preparation and installation shall be specified in specification section for Asphalt Pavement and is recommended only as a generally accepted pavement installation method. Professional assistance should be sought with respect to the specification and construction of a specific project:

Preparation of Base for Asphalt Pavement: Remove excess soils and unstable subbase materials. Compact subgrade to 95% proctor density test.

Asphalt Pavement Base Installation: A road gravel as recommended by project engineer meeting ASTM standards for road construction is ideal. Larger aggregate will make secure anchoring more difficult, causing undue twisting, leaning, or movement.

Asphalt Pavement Installation: Shall be specified as recommended by project architect or engineer.

3.01 INSTALLATION OF ASPHALT RESTRAINT EDGING

Actual article number will be determined by location within the Part 3 portion of specification.

- A. Base Installation:
 - 1. Extend base at least 6 inches (152 mm) beyond edge of restraint edging.
 - 2. Level base beneath restraint edging.
- B. Edging Installation:
 - 1. Install edging leaving 3/8" (9.5 mm) between sections for expansion.
 - 2. Drive spikes through edging holes in base of asphalt restraint edging (or drive nails through aluminum base when using powder actuated fastening system) at spaces for following applications: *[Editorial note: Spacing depends on age, hardness, depth, and type of base material (aggregate, asphalt, or concrete), radius being formed, anchoring spacing, and lengths of anchors.]*

- a. Anchor each section end with anchor.
 - b. Aggregate Base: Spiral steel spikes at 4 inches (102 mm) to 12 inches (305 mm) on center.
 - c. Softer or Thinner Asphalt Base: 3/8 inch x 10 inches (9.5 mm x 254 mm) spiral steel spikes at 4 inches (102 mm) to 12 inches (305 mm) on center spacing.
 - d. Older, Harder, or Thicker Asphalt Base: Hilti DX A41 Fully Automatic Powder Actuated Tool is desirable where sufficient hold can be obtained. Provide 1-1/2 inches (38 mm) to 2-1/2 inches (64 mm) nail at 4 inches (102 mm) to 12 inches (305 mm) on center spacing with applicable charge recommended.
 - e. Concrete Base: Hilti DX A41 Fully Automatic Powder Actuated Tool is desirable where sufficient hold can be obtained. Provide 3/4 inches (19 mm) to 1 inches (25 mm) nail at 4 inches (102 mm) to 12 inches (305 mm) on center spacing with applicable charge recommended. Anchor into outer 1 inch (25 mm) of base of restraint edging and not less than 2 inches (51 mm) from edge of concrete.
3. Securely connect sections in accordance with manufacturer's instructions. Provide additional anchors at closer spacing as necessary to firmly secure edging for permanent intended use.
- C. Pavement Installation:
1. If asphalt installation is over restraint edging, avoid excessive asphalt temperatures to minimize aluminum expansion.
 2. Lay asphalt pavement adjacent to and approximately 1/2 inch (12.7 mm) over top of restraint edging, depending on expected compaction results. Then, compact first pass with desired equipment within 6 inches (152 mm) of restraint edging. "Pinch roll" to create a hard joint. Subsequent passes may be directly against or over top of edging to ensure complete compaction of asphalt pavement.
 3. Finish pavement shall be compacted and level with, but not to exceed 1/4 inch (6.4 mm) above top of restraint edging.
- D. Backfill side of edging on turf side and compact backfill material along edging to provide top of edging at 1/2 inch (13 mm) above finish grade on turf side.

May 1, 2003