



JOINT SEAL™

GUIDELINE SPECIFICATION

1 Scope

This technical specification outlines the requirements for a high-density polyethylene (HDPE) backed concrete joint wrap with a butyl adhesive, designed to provide effective sealing and protection for concrete joints. The product shall be CCI Joint Seal as manufactured by CCI Piping Systems in accordance with or exceeding the standards specified in ASTM C877.

2 Materials

2.1 HDPE Backing:

The HDPE backing shall be a minimum of 0.01 inches (10 mils) thick. It should be composed of polyethylene material with high tensile strength, resistance to puncture, and exceptional chemical resistance.

2.2 Butyl Adhesive:

The butyl adhesive used on the HDPE backing shall be a minimum of 0.04 inches (40 mils) thick and comply with the requirements of ASTM C877. It must be a synthetic rubber-based adhesive, free from any contaminants that may interfere with its bonding properties. The adhesive should be tacky and capable of providing a watertight and durable bond to concrete surfaces.

3 Product Description

The concrete joint wrap must meet or exceed the following physical properties as per ASTM C877:

3.1 Tensile Strength:

The HDPE backing should have a minimum tensile strength of 4,000 psi (pounds per square inch) when tested in accordance with ASTM D882.

3.2 Elongation:

The concrete joint wrap must exhibit an elongation of at least 100% when tested in accordance with ASTM D882.

3.3 Peel Adhesion:

The butyl adhesive must demonstrate a peel adhesion of at least 10 lbs/inch width when tested in accordance with ASTM D903.

3.4 **Water Absorption:**
The HDPE backing should have minimal water absorption properties, not exceeding 0.1% by weight after a 24-hour immersion test in accordance with ASTM D570.

3.5 **Temperature Resistance:**
The concrete joint wrap must be capable of performing with a maximum temperature range of 180°F without any adverse effects on its physical or adhesive properties.

4 Dimensions

4.1 **Width:**
The concrete joint wrap shall be available in 6 inches, 9 inches and 12 inches widths.

4.2 **Length:**
The standard roll length shall be 32 feet for 6 inch and 9 inch rolls and 50 feet for 12 inch rolls.

4.3 **Thickness:**
The total thickness of the HDPE backing and butyl adhesive combined shall be approximately 0.050 inches (50 mils).

5 Application

The concrete joint wrap shall be applied on the exterior of concrete structures for the protection of joints. The concrete surfaces must be clean of dirt, dust, or debris. The joint wrap shall be hand applied to concrete surfaces and rolled to ensure proper bonding. The use of a primer is preferred bonding. The use of a primer is preferred.

6 Packaging

The concrete joint wrap rolls shall be neatly wound onto a core and protected with a release liner to prevent any premature sticking. 2-4 rolls shall come to a box.

7 Installation

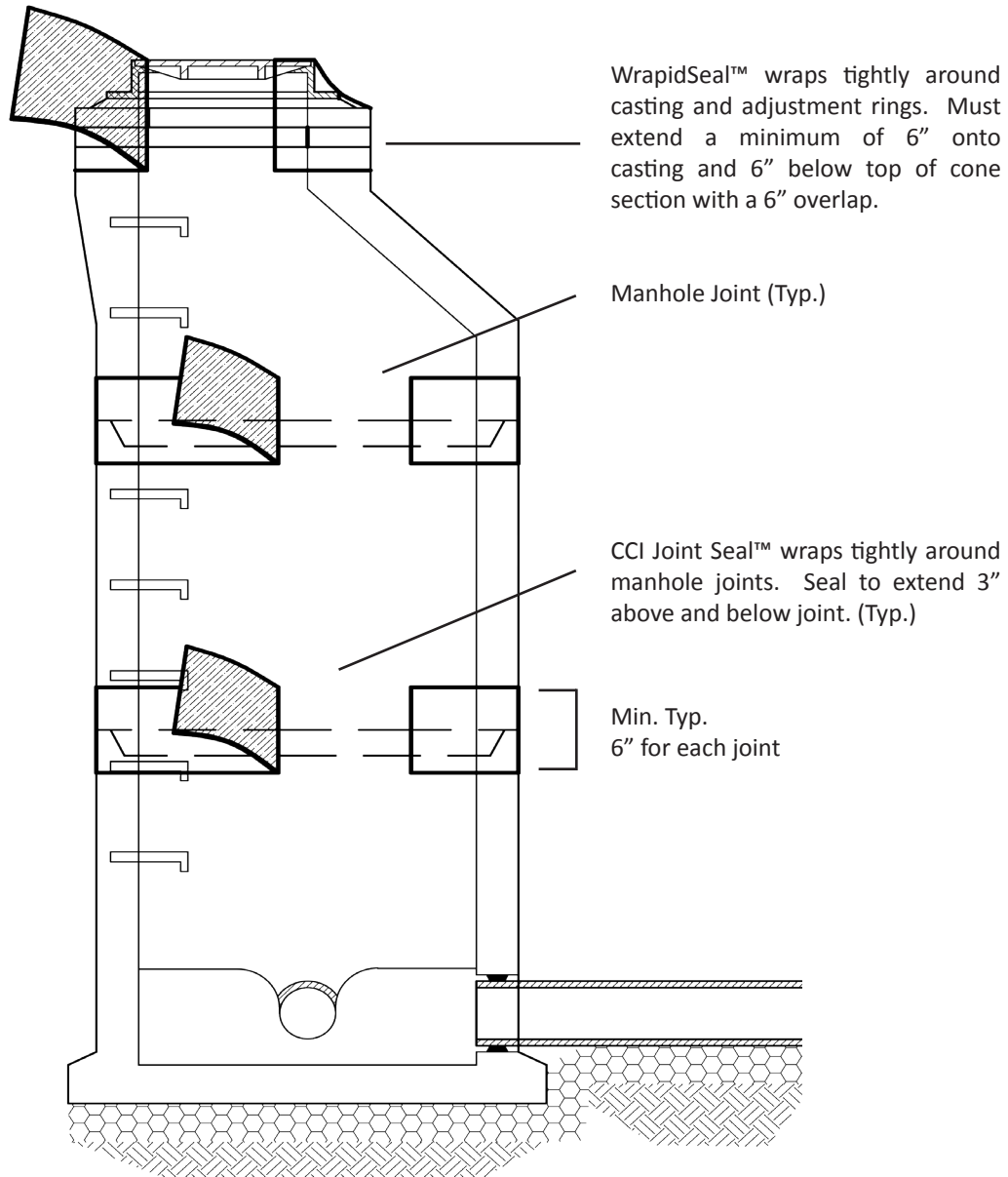
The concrete joint wrap shall be installed in strict accordance with the manufacturer's instructions and in compliance with ASTM C877 guidelines.

8 Quality Control

The manufacturer shall implement a robust quality control process to ensure consistent product performance.

9 **Warranty**

The manufacturer shall warrant that their product conforms to the minimum requirements of this specification and is appropriate for use as stated in their technical specifications.



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