



PipeSak® Pipeline Protection

RockStop® General Specification

Guidelines

This specification defines the minimum requirements for the design, manufacture, and supply of RockStop® rockshield that is engineered to protect steel pipelines from impacts during backfilling operations and long-term abrasion.

1.0 Design and Manufacturing

- 1.1. The manufacturer should demonstrate a minimum of five years of continuous experience in the manufacture of needle-punched RockStop® rockshield.
- 1.2. Manufacturers must be ISO:9001 certified.
- 1.3. The design should incorporate a matrix of short fibers that form a thick layer of strong fabric.
- 1.4. Design must be proven to protect pipelines from rock impacts as large as 6" (152 mm) dropped from 6' (1.8 m) or more (passing ASTM G13M).
- 1.5. The design shall be permeable to allow the flow of groundwater to and away from the pipeline with a permeability greater than 5300 gal/ft²/day (0.25 cm/s).
- 1.6. RockStop® rockshield must be compatible with cathodic protection systems.
- 1.7. RockStop® rockshield weight shall be limited to between 0.33-0.41 lb/ft² (1600-2000 g/m²).

2.0 Material

- 2.1. To be manufactured from non-biodegradable, UV-resistant proprietary blend of fibers.



3.0 Delivery, Storage, and Handling

- 3.1. To deliver one pallet with UV protectant covers for ease of handling and long-term storage.
- 3.2. Until use, protective covers or separate tarps must be maintained to ensure proper protection from the elements (oil, dirt, sunlight, etc.).
- 3.3. RockStop® rockshield must be kept dry before installation. Avoid direct contact with the ground and utilize secondary coverings where necessary.

4.0 Installation

- 4.1. RockStop® rockshield shall have multiple installation methods, such as heat welding, mushroom tape (QuikStrip™ fasteners), or butyl tape.
- 4.2. Adjacent pads or rolls of RockStop® rockshield must overlap on the pipe by at least 6" (152 mm).
- 4.3. The overlapping section of RockStop® rockshield around the pipe must overlap downward.
- 4.4. Mushroom tape (QuikStrip™ fasteners) shall be spaced at a maximum spacing of 36" (1 m) along the pipe with 4-8 pieces installed around adjacent pad/roll connections.
- 4.5. Only use mushroom tape (QuikStrip™ fasteners) or butyl tape provided by the manufacturer.
- 4.6. Do not apply heat to the pipeline coating or excessively heat RockStop® rockshield during the heat welding process. Only use the Heat Tool provided by RockStop® rockshield manufacturer.

5.0 Additional Technical Requirements

- 5.1. All material supplied by the manufacturer should be tested as per the American Society of Testing and Materials (ASTM) or equivalent.