

## **SECTION – ROCK SHIELD PIPELINE PROTECTION MESH**

### **PART 1 - GENERAL**

- The purpose of this is to specify the requirements for ordering and installing Rock Shield for pipe.
- The main purpose of the Rock Shield is to protect the pipe coating surface from damage during and after backfill.
- The Rock Shield is a polymer roll or pad wrap that is used to wrap around the pipe (steel or poly) to protect it during construction.
- Rock Shield shall be non-metallic wrap made from flexible material that can accommodate for normal pipe movement that may occur.
- Rock Shield shall be used with rock size 2-inch in diameter and less.

### **PART 2 - SPECIFICATIONS**

- The Rock Shield shall be made of durable polyethylene material for use on both steel and/or plastic pipe.
- The impact resistance (ASTM G14) of the Rock Shield shall be a minimum of 120 in/pound.
- The compressive strength (ASTM D 1621 MOD) of the Rock Shield shall be a minimum of 60 psi @ 50% deformation.
- The minimum thickness of the Rock Shield shall be 11 mm (0.43”).
- The Rock Shield must be bi-directional. This means that the Rock Shield should sufficiently protect the pipe regardless which side of the Rock Shield faces the pipe. This will reduce the risk of quality issues due to improper installation.

### **PART 3 - STORAGE**

- Check the Rock Shield on arrival.
- Store Rock Shield underneath tarps to protect from oil, dirt, and sunlight.

### **PART 4 - INSTALLATION INSTRUCTIONS**

- Rock Shield rolls or pads shall be affixed to pipe utilizing non-metallic bands of ¾” wide filament tape.
- Rock Shield shall completely encircle the pipe with a minimum overlap of 6 inches.
- Overlap shall be located at the bottom radius (6 o’clock position).
- Roll to roll and pad to pad overlap shall be a minimum of 2 inches.
- Back-fill should be “shaded” into the trench during back-fill procedure. Do not dump back-fill directly on protected pipe.
- Follow manufacturer’s recommendations.

### **PART 5 - APPROVED MANUFACTURERS**

- Industrial Fabrics - RockGuard HD

**END OF SECTION**