



PROJECT SPECIFICATIONS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Requirements for ROCKGUARD® HD Rock Shield as designed to offer protection from rock damage caused by backfill operations and/or damage caused by geological forces after compaction. ROCKGUARD® HD protects the exterior coatings of all transmission pipes used in the transmission of oil, natural gas, and other petroleum based products.

1.02 REFERENCES

- A. American Society for Testing Materials (ASTM)

1.03 QUALITY ASSURANCE

- A. ROCKGUARD® HD manufacturer shall maintain ISO 9001 Accreditation, and must have experience in producing protective Rock Shield.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. ROCKGUARD® HD shall be stored indoors or under tarps, to protect from U.V. rays, oil, and soil contamination.

PART 2 PRODUCTS

2.01 MATERIALS

- A. ROCKGUARD® HD shall be a three-dimensional bi-planar extruded diamond structured mesh, as by Industrial Fabrics, Inc. and sold by Protection Engineering, 800.878.8837.
- B. ROCKGUARD® HD shall be extruded from an elastomeric material, comprised of LDPE or HDPE. No harmful PVC compounds should be used in the manufacturing of this product.
- C. Minimum weight of ROCKGUARD® HD shall be .32lb/ft² +/- .02 lb/ft².
- D. Minimum thickness shall be .40".
- D. ROCKGUARD® HD is to be constructed as a three dimensional, bi-planar extruded diamond mesh netting.
- E. ROCKGUARD® HD shall be bi-directional in nature, and should sufficiently protect coatings/pipe regardless which side of the product is applied to the pipe.



PROJECT SPECIFICATIONS

(continued)

F. The color of the ROCKGUARD® HD shall be black.

G. Performance requirements as follows:

- Impact resistance (ASTM G-13 Modified) shall protect HD from 6" rock/6' drop
- Must be constructed of polyethylene material
- Cathodic Protection Shielding - ROCKGUARD® HD must allow passage of CP current

2.02 ACCESSORIES

A. Polyester filament tape shall be used to secure ROCKGUARD® HD to pipe.

PART 3 EXECUTION

3.01 INSTALLATION

- A. ROCKGUARD® HD shall be installed in roll or pad form and shall be affixed to pipe utilizing polyester filament tape.
- B. ROCKGUARD® HD shall completely encircle pipe with a minimum overlap of 6". All Overlaps shall be located at the bottom radius of the pipe (6 o'clock position).
- C. Backfill should be shaded into the trench during the backfill operation, taking care to minimize direct impact on top of pipe.

END OF SECTION

All the above information is given in good faith, but the figures are typical values only and should not be taken as a guarantee of performance. Manufacturing tolerances for dimensional and technical characteristics apply and are available upon request. The company reserves the right to improve the product and adjust the specification without notice.