

Project Specification

Part 1. GENERAL

1.01 Section Includes

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

1.02 References

- A. American Society for Testing Materials (ASTM)

1.03 Quality Assurance

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

1.04 Delivery, Storage and Handling

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



Part 2. PRODUCTS

2.01 MATERIALS

- A. PROTECTAMESH™HD ROCKSHIELD shall be a three-dimensional bi-planar extruded diamond structured mesh, as manufactured by Boddingtons Ltd., +44 (0) 1621 874200 www.boddingtons-ltd.com
- B. PROTECTAMESH™HD ROCKSHIELD 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 PROTECTAMESH™HD ROCKSHIELD shall be 1500g/m²
- D. PROTECTAMESH™HD ROCKSHIELD is to be constructed as a three dimensional, bi-planar extruded diamond mesh netting.
- E. PROTECTAMESH™HD ROCKSHIELD shall be bi-directional in nature, and should sufficiently protect coatings/pipe regardless which side of the product is applied to the pipe.
- F. The colour of the PROTECTAMESH™HD ROCKSHIELD shall be black or yellow.
- G. Performance Requirements as follows:
 - Impact resistance (ASTM G-13 Modified) shall protect HD from 150mm (6") rock/1.83m (6') drop
 - Must be Constructed of Polyethylene Material
 - Cathodic Protection Shielding - PROTECTAMESH™HD ROCKSHIELD must allow passage of CP current

2.02 ACCESSORIES

- A. Polypropylene banding shall be used to secure PROTECTAMESH™HD ROCKSHIELD to the pipe.

Part 3. EXECUTION

3.01 INSTALLATION

- A. PROTECTAMESH™HD ROCKSHIELD shall be installed in roll or pad form shall and shall be affixed to pipe utilising polypropylene banding.
- B. Polypropylene banding shall be used to secure PROTECTAMESH™HD ROCKSHIELD to the pipe.
- C. PROTECTAMESH™HD ROCKSHIELD shall completely encircle pipe with a minimum overlap of 100mm/ 4". All Overlaps shall be located at the bottom radius of the pipe (6 o'clock position).
- D. Backfill should be shaded into the trench during the backfill operation, taking care to minimise direct impact on top of pipe.

