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.