



## PROJECT SPECIFICATIONS

### PART 1 GENERAL

#### 1.01 SECTION INCLUDES

- A. Requirements for PROTECTAMESH™ ROCKSHIELD HD as designed to offer protection from rock damage caused by backfill operations and/or damage caused by geological forces after compaction. PROTECTAMESH™ ROCKSHIELD HD 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™ ROCKSHIELD HD manufacturer shall maintain ISO 9001 Accreditation, and must have experience in producing protective Rock Shield.

#### 1.04 DELIVERY, STORAGE, AND HANDLING

- A. PROTECTAMESH™ ROCKSHIELD 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. PROTECTAMESH™ ROCKSHIELD HD shall be a three-dimensional bi-planar extruded diamond structured mesh, as as manufactured by Boddingtons Ltd., +44 (0) 1621 874200 [www.boddingtons-ltd.com](http://www.boddingtons-ltd.com)
- B. PROTECTAMESH™ ROCKSHIELD 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 PROTECTAMESH™ ROCKSHIELD HD shall be 1550g/m<sup>2</sup>.
- D. PROTECTAMESH™ ROCKSHIELD HD is to be constructed as a three dimensional, bi-planar extruded diamond mesh netting.
- E. PROTECTAMESH™ ROCKSHIELD HD 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™ ROCKSHIELD HD shall be black.
- G. Performance Requirements as follows:
- Impact resistance (ASTM G-13 Modified) shall protect HD from 150mm rock/1.83m drop
  - Must be Constructed of Polyethylene Material
  - Cathodic Protection Shielding - PROTECTAMESH™ ROCKSHIELD HD must allow passage of CP current

#### 2.02 ACCESSORIES

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



## PROJECT SPECIFICATIONS

(continued)

### PART 3 EXECUTION

#### 3.01 INSTALLATION

- A. PROTECTAMESH™ ROCKSHIELD HD 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™ ROCKSHIELD HD to the pipe.
- C. PROTECTAMESH™ ROCKSHIELD HD shall completely encircle pipe with a minimum overlap of 100mm. 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.

END OF SECTION

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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.



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