

### Heavy Duty – 11mm (3/8”) with a geotextile backing

#### DESCRIPTION and USE

**GRID-GUARDHD Plus** Pipeline Protection Grid is an extruded polyethylene 11mm (3/8”) three-dimensional mesh/grid with the addition of a geotextile fabric backing.

Installed on both steel and plastic pipelines

#### PROTECTION

- Offers greater impact protection during backfill operations
- Offers additional protection after burial; fabric acts as slip sheet around the pipe, helping to minimize soil stress on tapes and coatings
- Does not interfere with cathodic protection
- Consistent thickness throughout
- Available in custom rolls and pads
- Lightweight and flexible

#### TESTS and Technical

Measurement	Test Method	Units	Typical Results
Impact Strength	ASTM G14	in-lbs	141.7
Rock Drop Test	ASTM G13 (Modified)	n/a	No failure at 4” rock size drop <sup>1</sup>
Rock Drop Test	ASTM G13 (Modified)	n/a	No failure at 6” rock size drop <sup>1</sup>
Compressive Strength	ASTM 1621	psi	90 @ 50% Deformation
Tensile Strength	ASTM D 4595	Lbs/in	MD/58 TD/30
Cathodic Protection	Copy of 3rd party CP shielding test and reporting available.		Does not shield

<sup>1</sup>A drop consisted of released 50+ lbs of limestone from a height of 6’ onto a fusion bonded section of an epoxy coated steel pipeline protected by Grid-GuardHD Plus+. Results are indicated after two drops of the same. Independent lab responsible for tests and verification.

\*Results may differ based upon variations in equipment, temperature, application methods, test methods, and site conditions. JDR reserves the right to improve the product.

#### PRODUCT SPECIFICS

- Available in both rolls and pads for any size pipeline
- Rolls up to 6’ in width
- Pads for pipelines greater than 24” in diameter
- 6” overlap recommended
- HD Plus+ includes a heat laminated geotextile backing (6 oz. non-woven)

#### PHYSICAL PROPERTIES

Structure	Diamond Grid/Mesh
Polymer	Polyethylene
Geotextile	6 oz non-woven
Color	Black
Thickness	11mm (3/8”)
Weight	.45 lb/ft <sup>2</sup>