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| Example of Impact Testing | | | | | |
|--|---|--------|--------|-------|----------|
| | Coating Thickness (3LPE) | 1.4mm | 2.0mm | 3.0mm | |
| | Granular Backfill Size | | - | | |
| | 50.8mm to 76.2mm (2" to 3") | Pass | Pass | Pass | |
| | 76.2mm to 127mm (3" to 5") Less than 8.0lbs | Pass | Pass | Pass | |
| | 152mm to 203.2mm (6" to 8") Approximate Weight 8.6lbs to 16lbs | Pass | Pass | Pass | |
| | 203.2mm (8") Approximate Weight 22lbs to 32lbs | Failed | Failed | Pass | |
| Granular Backfill Resistance Testing. ASTM G13-89 (Test method for Impact Resistance of Pipeline Coating) Temperature of test specimen during testing between –13°F and –49°F Height at which the granular backfill was allowed to free-fall @ 6 ft | | | | | |
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CONSIDERATIONS FOR IN-SERVICE PROPERTIES

 Coating must *still* perform as an anticorrosion coating

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- Cathodic protection interaction different
 - If impressed current system applied care to design properly as protection only possible on either side of HDD

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- Because coating holidays are expected, cathodic protection system has to be adequate to protect pipe
- Accurate assessment of coating condition after installation difficult
- HDD installations are now commonplace and are part of every major pipeline construction contractor's skill set

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