

DENSO ROCKMESH CE171

Protective Pipeline Mesh

Description

Denso Rockmesh CE171 is a flexible armouring designed for the protection of the corrosion coatings on pipelines when rocky backfill is encountered. The product is manufactured from high density polyethylene (HDPE), incorporating a special expansion process to provide compressive strength and flexibility. It is extruded into a 4 mm x 5 mm diamond mesh pattern.

Uses

Designed for the protection of the corrosion coating on pipelines when rocky backfill is encountered.

Features

- Absorbs impact of uneven backfill
- Protects pipe coating from protruding rocks in trench
- Minimizes abrasion of coating from pipe movement underground
- Protects pipe during future excavations
- Unaffected by temperature extremes and wet weather
- Maintains cathodic protection without inhibiting cathodic flow
- Cushions against concrete weights
- Cuts with a utility knife
- Easy to install

Application

Remove any loose and abrasive materials from the coating surface to be protected. Check that the coating is in good condition before application of the mechanical protection.



Denso Rockmesh CE171

Property Specifications

PROPERTIES	VALUE
Thickness	6.7 ± 1.0 mm
Weight	1200 ± 100 g/m ²
Polymer Material	HDPE
UV Stability	Carbon Black
Material Structure	4 mm x 5 mm Diamond Mesh
Breaking Strength (Machine Direction)	9.8 N/mm
Breaking Strength (Transverse Direction)	1.4 N/mm
Impact Resistance	>9 J
Crystalline Melting Range	120-130°C
Roll Size	1.35 m x 20 m

STORAGE:

Store in original containers in a cool, dry place. Wrapped pipe/fittings should not be left exposed to direct sunlight for longer than 14 days.



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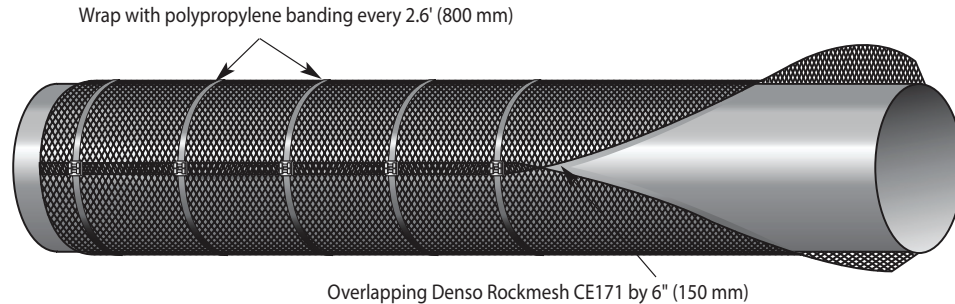
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Installation Guidelines & Methods

Longitudinal Wrapping

For pipes with a circumference of less than 6" (150 mm) in relation to the width of the Denso Rockmesh CE171:

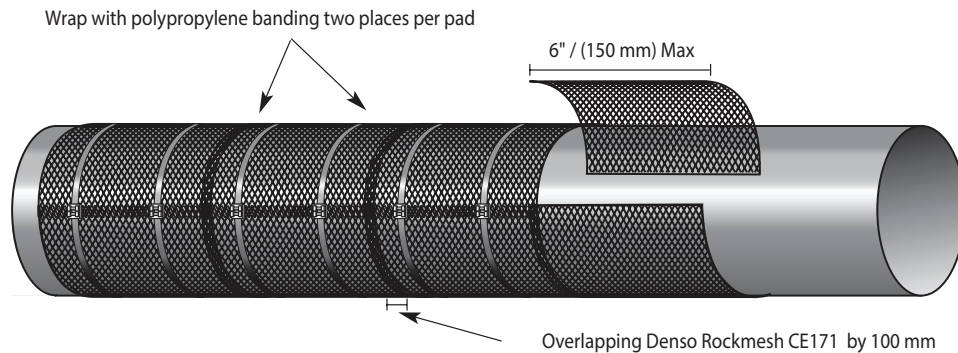
1. Unroll the mesh parallel to the pipe which is to be protected.
2. Place the mesh below the pipe.
3. Wrap the mesh around the pipe, overlapping the edges by approx. 6" (150 mm)
4. The mesh can be secure by plastic straps or can be heat bonded by use of a gas torch and pressing the two surfaces together



Latitudinal Wrapping

For pipes with a larger circumference than the roll width:

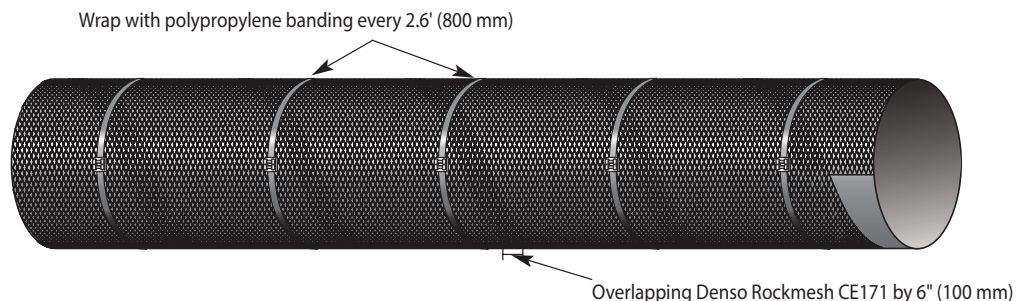
1. Cut the mesh into pieces 6" (150 mm) extra than the circumference of the pipe.
2. Wrap the pipe with the pre-cut mesh, overlapping the adjacent installed mesh by 100 mm.
3. Fix the mesh with plastic straps or heat bond the longitudinal joint using a gas torch and pressing the two surfaces together.



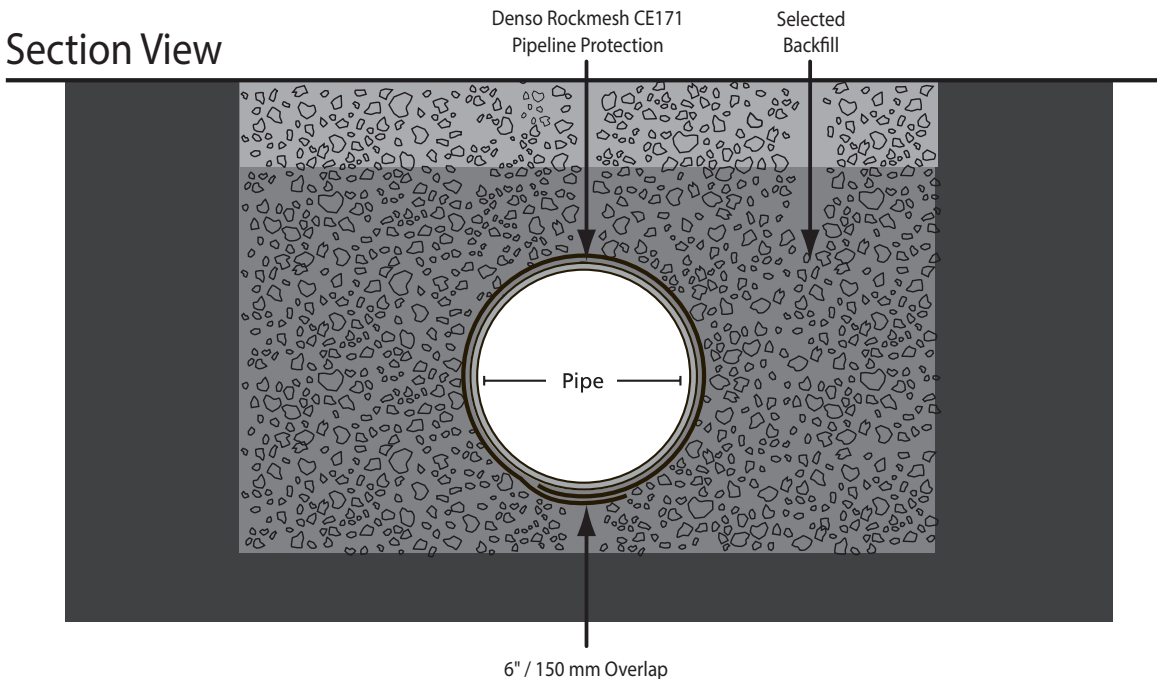
Spiral Wrapping

This process can be applied to larger circumference pipes:

1. Start wrapping the pipe moving along the length of the pipe, so that the mesh overlaps by 150 mm.
2. Use plastic strapping to secure the mesh in situ as the mesh is wrapped.



Application Diagram



PADS:

Custom cut pads should be wrapped around the circumference of the pipe, covering all exposed areas. Ensure that all pads are of sufficient dimensions to protect the entire pipe.

All pad overlaps shall be placed at the 6 o'clock position of the pipe, taking care to secure the Denso Rockmesh CE171 with polypropylene banding.

Place all end to end overlaps min. 100 mm; all parallel pads overlaps min 150 mm.

All pads shall be secured to the pipe by using polypropylene banding.

After pads are secured to the pipe, the backfill process may take place.

ROLLS:

All rolls should be of adequate coverage to entirely cover the circumference of the pipe.

Denso Rockmesh CE171 is to be placed around the pipe, whereby placing overlap portion at the 6 o'clock position of the pipe.

Place all end to end overlaps min. 100 mm; all parallel pads overlaps min 6" / 150mm.

In the event that a side overlap is used, place the overlaps "shingle style". This will ensure that no backfill will protrude under the Denso Rockmesh CE171.

After pads are secured to the pipe, the backfill process may take place.



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