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TE-ROCKSHIELD

Ideal solution for the protective coating of underground pipes and conduits against mechanical stress caused by excavation fill material, abrasive actions, and soil settlement, both during installation and throughout their operational life.

DESCRIPTION

TE-ROCKSHIELD mesh is made from extruded HDPE polyethylene, expanded and stabilized with carbon black. The mesh is resistant to UV rays and its rhomboidal mesh structure guarantees excellent drainage and mechanical protection, as well as excellent compression resistance and significant elasticity.

The mesh is resistant to acids and oils, mold, bacteria, chemicals, and rust. It is easier to transport than traditional backfill material used in the installation of distribution and transport networks (sand and/or gravel), making it particularly suitable for work in areas that are difficult to access by transport vehicles.

PRODUCT PROPERTIES

Property	Test method	Unit of measure	Typical value
Polymer			Polyethylene
U.V. stabilizer			Carbon Black
Shape of the mesh			rhomboid
Tensile strenght (MD)	ISO 10319	kN / m	6.0
Elongation at break (MD)	ISO 10319	%	50.0
Compressive strenght	ISO 10319	N / m	70.0
Elongation at break (TD)	ASTM D1621	%	70.0
Compresison deformation	ASTM G14	Kg x cm	95.0

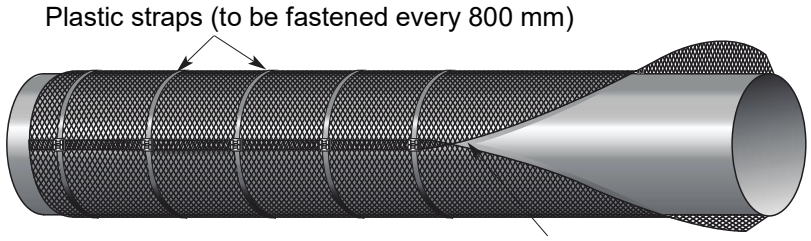
DIMENSIONAL CHARACTERISTICS

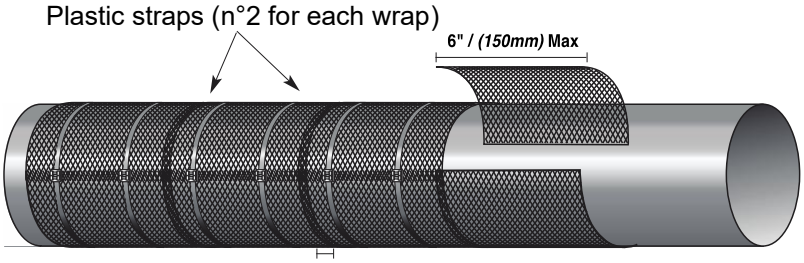
Property	Unit of measure	Typical value
Roll width	m	1.0 e 1,5
Roll lenght	m	20.0
Unit weight	g/m²	1200
Thickness	mm	6.0

APPLICATION GUIDELINES

Longitudinal wrapping (For pipes with a circumference 150 mm shorter than the width of the mesh)

1. Unroll the mesh parallel to the pipe to be protected
2. Place the mesh under the pipe
3. Wrap the mesh around the pipe, overlapping the edges by approximately 150 mm
4. The mesh can be secured with plastic straps or Heat-sealed using a gas torch and pressing the two surface together



Latitudinal wrapping (or pipes with a circumference greater than the width of the roll)

1. Cut the mesh into strips 100-150 mm longer than the circumference of the pipe
2. Wrap the pipe with the mesh, overlapping the adjacent mesh by 150 mm
3. The mesh can be secured with plastic straps or Heat-sealed using a gas torch and pressing the two surface together