

# M STAR DRAIN

## HDPE dimpled membranes for protection and drainage of underground walls

The 1860 star-shaped dimples and an air volume of approximately 5 L/m<sup>2</sup> ensure efficient protection of the waterproofing layer and proper ventilation between the wall and the soil.

### APPLICATIONS

- Foundation wall protection in case of sealing with bituminous paints or sealing compounds
- In case of ground with a proper drainage
- Blinding layers
- Composition floor underlay

### PROPERTIES

- High compressive strength
- Tear-proof and root-resistant
- Impact resistant, elastic
- Toxicologically harmless
- Drinking water neutral and chemical resistant
- Abrasion resistant, rot-free
- Highly resistant to fungal and bacterial attacks.

### Ultimate Pressure Resilience

It pays in the long run to decide in favour of dimpled membranes with high-grade material properties. It is often the less obvious details which are crucial for the proper function, for instance a strongly enhanced pressure resilience. A special star-shaped design of the dimples enhances resilience and stability even more, resulting in the forces being better absorbed and the mechanical durability being increased



When it comes to protecting a building's foundations, dimpled membrane offers several advantages: It provides superior pressure stability under a wide variety of conditions, protects the foundation walls' sealing, and keeps the building dry.

## LAYING INSTRUCTIONS

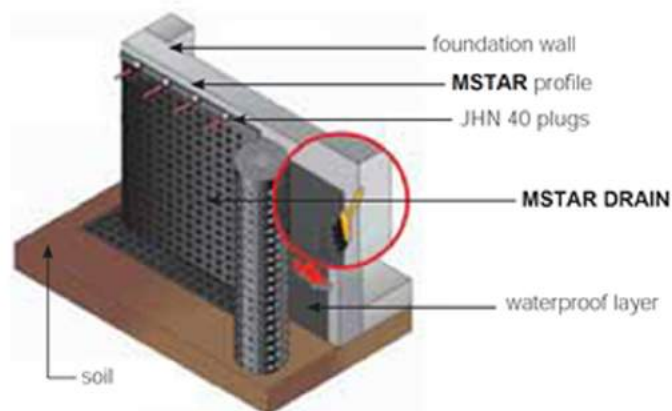


Fig. 1 Vertical laying

### Laying for the protection of foundation walls

Laying dimpled sheet is simple. Unroll the dimpled membrane with the dimples facing the wall, already waterproofed, making sure you overlap adjacent rolls longitudinally by about 20cm. For greater protection, join the edges of the two rolls using waterproof bituminous strips. Finally, you should use the cover profile. To ensure optimal air circulation, mount the cover profile at a distance of 10 mm from the top of the dimpled sheeting.

Once the fixing operation is done, fill in with the soil.

### Laying as an alternative to the concrete layer for foundations and/or barrier to capillary rising of the humidity.

After compacting the soil, place a layer of geotextile fabric over it, making sure the edges overlap by about 20cm. Unroll MSTAR DRAIN, position WZ electro-welded net, supporting it with the special spacers. Cast the concrete slab.

The flooring will be protected against rising humidity, and MSTAR DRAIN star will contribute to making the structure more stable.

## PACKING

2m x 20m

Also Available in 1m, 1.5m, 2.5m, 3m, 4m wide rolls

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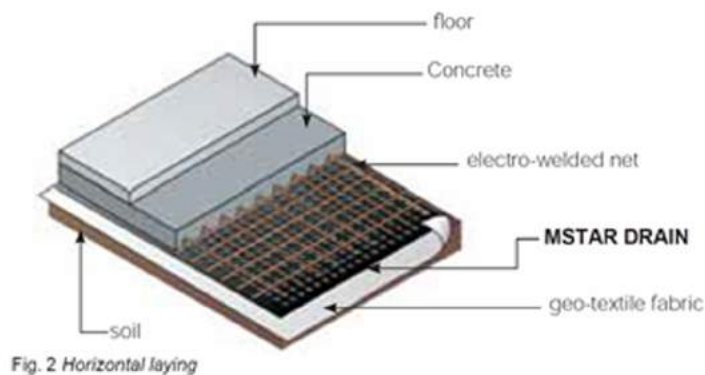


Fig. 2 Horizontal laying

## TECHNICAL DATA

<b>Material</b>	High-density polyethylene (HDPE)
<b>Colour</b>	Black
<b>Material/Wall thickness</b>	Approx. 0.4mm
<b>Certified mechanical resistance</b>	320 KN/m <sup>2</sup> (32 t/m <sup>2</sup> )
<b>Weight</b>	0.4 Kg/m <sup>2</sup>
<b>Dimple height</b>	Approx. 7mm
<b>Number of dimples</b>	Approx. 1865 pcs/m <sup>2</sup>
<b>Air volume between dimples</b>	Approx. 5 l/m <sup>2</sup>
<b>Drainage capacity</b>	4.6 l/s/m
<b>Thermal stability</b>	From -40°C to +80°C protect from UV rays
<b>Combustion class</b>	F-DM 15/03/05
<b>Dimensional tolerances</b>	±4%