

# guttabeta<sup>®</sup> Drain/DrainV

Dimpled membrane in HDPE  
**for drainage of underground walls  
and roof gardens**

**guttabeta<sup>®</sup> Drain/Drain V** is the protective membrane par excellence in all construction sites where the technical component is important in terms of drainage capacity and mechanical strength.

## ADVANTAGES

- Guarantees the maintenance of high draining capacity.
- Excellent mechanical resistance.
- Perfect for dry roof gardens, as an alternative to the filtering layer.
- Light and easy to handle.



## Laying instructions

**guttabeta® Drain/Drain V** consists of a layer of geo-textile fabric in polypropylene and a dimpled membrane made of special high-density polyethylene (HDPE).

Thanks to special orthogonal discharge channels, it ensures excellent drainage by forming a chamber that always stays empty, thus allowing higher volumes of drained water compared to traditional dimpled membranes.

The geotextile ensures greater efficiency of the drainage system in time as it prevents the gap from clogging up with the finer soil particles.

### Laying for the protection of foundation wall waterproofing

- 1) Unroll the rolls of **guttabeta® Drain/Drain V** with the geotextile fabric facing toward the ground, overlapping the edges by at least 20 cm. For greater protection, join the two edges using waterproof bituminous strips.
- 2) Fix **guttabeta®** profile to the edge and nail it down using the JNH 40 plugs or steel nails.
- 3) Form a suitable water collection and drainage tube at the foot of the foundation, then fill it in with soil.
- 4) Prior to the fixing, make sure it is compatible with the waterproofing system of the wall.

### Laying for "dry" roof gardens

- 1) Unroll **guttabeta® Drain/Drain V** on top of the waterproofing layer, overlapping the rolls by at least 20 cm. To make the overlapping edges stick better to each other, apply the bituminous strips. Turn up **guttabeta® Drain/Drain V** by about 20 cm along the side walls.
- 2) Position the finishing layer of soil or gravel.



# guttabeta® Drain/Drain V

## Technical data

	DRAIN	DRAIN V
<b>Membrane material</b>	High-density polyethylene (HDPE)	
<b>Draining material</b>	Continuous filament polypropylene	Needle-punched polypropylene
<b>Colour</b>	Black	
<b>Material thickness</b>	approx. 0,6 mm	approx. 0,5 mm
<b>Fabric weight</b>	approx. 140 g/m <sup>2</sup>	approx. 110 g/m <sup>2</sup>
<b>Resistance to compression</b>	>300 kN/m <sup>2</sup> (30 t/m <sup>2</sup> ) approx.	>230 kN/m <sup>2</sup> (23 t/m <sup>2</sup> ) approx.
<b>Dimple height</b>	approx. 8 mm	
<b>Number of dimples per m<sup>2</sup></b>	approx. 1860	
<b>Air volume between dimples</b>	approx. 5,5 l/m <sup>2</sup>	
<b>Drainage capacity</b>	approx. 4,6 l/s/m	
<b>Thermal stability</b>	From -40°C to +80°C	
<b>Physical-chemical properties</b>	Resistant to chemical agents, resistant to roots, does not pollute the water-bearing stratum, resistant to contamination from fungi and bacteria, non degradable	
<b>Combustion class</b>	F - DM 15/03/05	
<b>Size (x 20 m)</b>	2,0 x 20 m	
<b>Dimensional tolerances</b>	± 4%	
<b>Packing</b>	6 rolls	

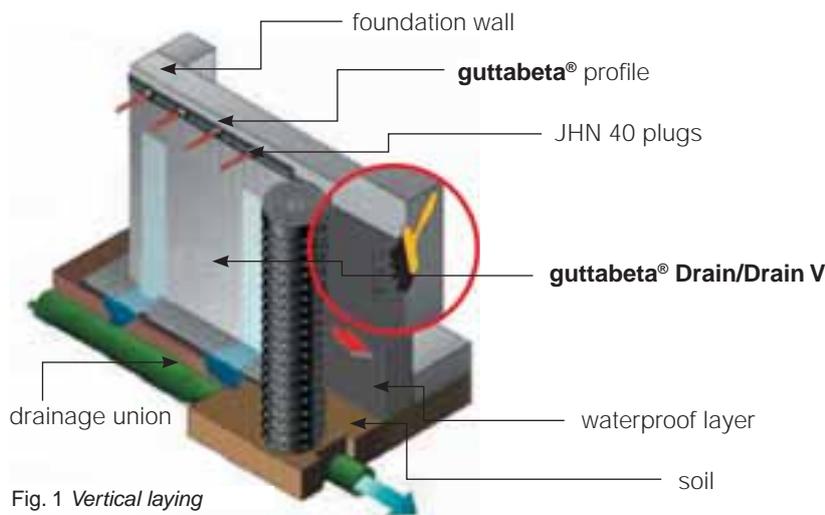


Fig. 1 Vertical laying

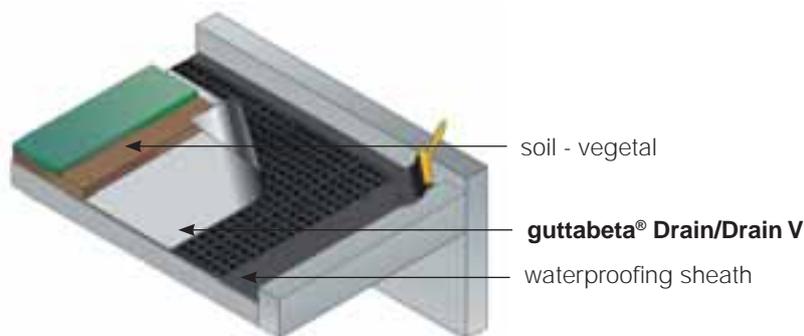


Fig. 2 Horizontal laying

