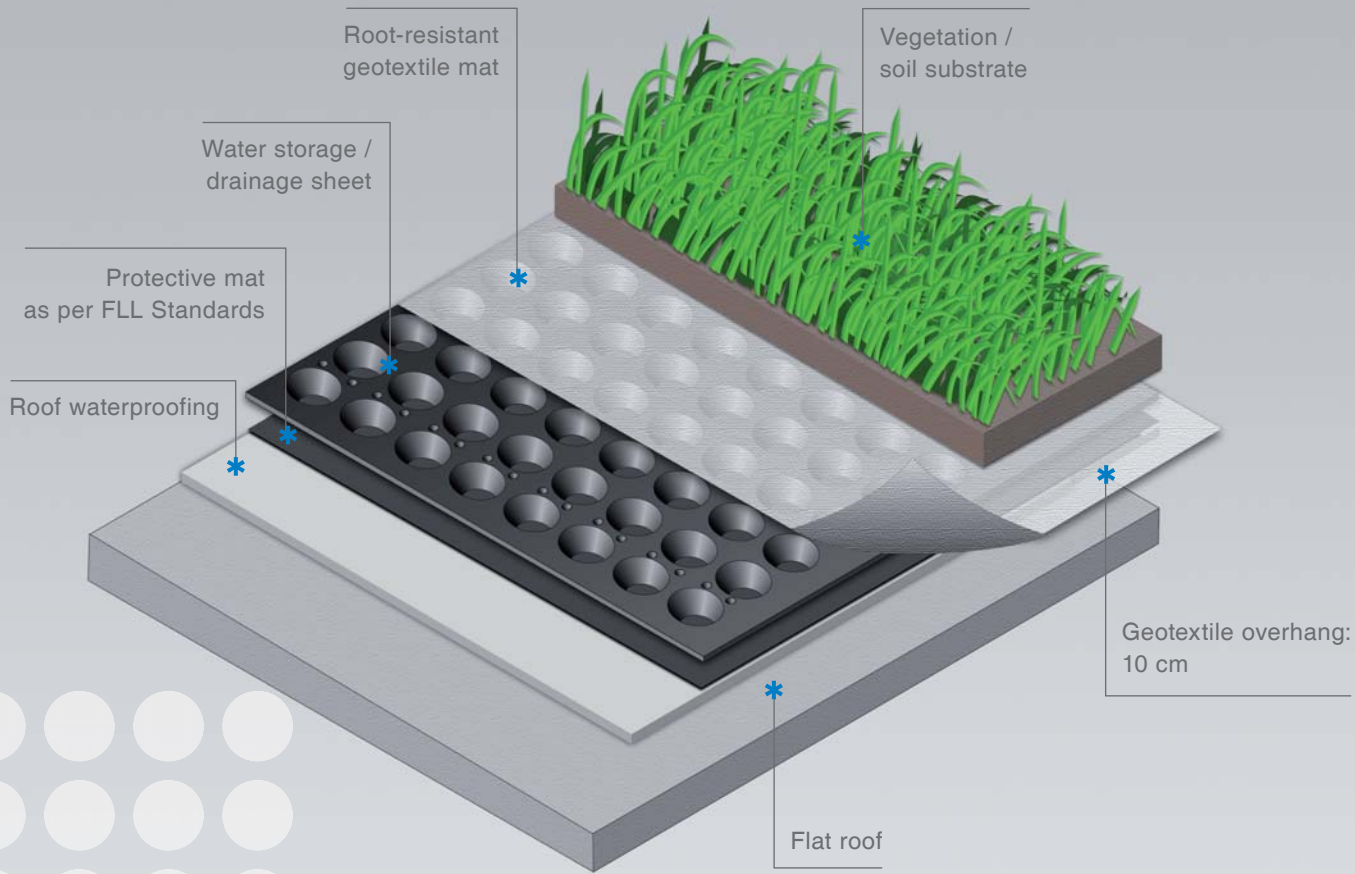




New in Our Product Range:
ISO-DRAIN nature 20PG

For Horizontal Green Roofs and Roof Gardens

Green Roofs / Roof Gardens





ISO-DRAIN nature 20PG

The challenge: flat **green roofs** and **roof gardens**. Even more so than on pitched roofs, drainage sheets on horizontal vegetated roofs and roof gardens must provide **outstanding compressive strength** along with **highly reliable water storage and drainage**.

Our new **ISO-DRAIN nature 20PG** meets these challenges head-on with special design features including dimpling 20 mm in height, drainage perforations 3 mm in diameter and premium-grade DuPont TYPAR® **geotextile lamination**. ISO-DRAIN nature 20PG conforms fully with the FLL Green Roof Guidelines, is CE-compliant and is EN ISO 13252 certified. It combines three essential characteristics in a single product:

- * filter mat on upper surface
- * high water storage capacity
- * optimum drainage performance

ISO-DRAIN nature 20PG is supplied as easy-to-install roll stock. Roll lengths are available up to 12.50 m; the standard roll width is 2.00 m. The geotextile mat is dimensioned with a 10 cm overhang to provide overlap on adjacent sections.

| Properties | ISO-DRAIN nature 20PG |
|------------------------------|--|
| Resin / dimpled sheet | HDPE |
| Resin / geotextile | PP |
| Colour / dimpled sheet | black |
| Colour / geotextile | silver-grey |
| Sheet thickness / base sheet | approx. 0.9 mm |
| Area weight / geotextile | 110 g/m ² |
| Maximum section width | 2.50 m |
| Section dimensions | 2.00 or 2.50 m x 12.50 m geotextile width: 2.10 or 2.60 m |
| Area weight | approx. 1100 g/m ² |
| Dimple height | approx. 20 mm |
| Overall thickness / dimpled | approx. 20 mm |
| Dimple spacing | approx. 400 / m ² |
| Air gap (between dimples) | approx. 14 l/m ² |
| Perforation diameter | approx. 3 mm |
| Permeability / geotextile | approx. 70 l/m ² /s |
| Compressive strength | approx. 200 kN/m ² (20 t/m ²) |
| Service temperature range | -40°C to +80°C |
| Physiological properties | safe for drinking water |
| Water storage capacity | approx. 6 l/m ² |

ISO-DRAIN nature 20PG

Riding the wave of eco-sustainability, vegetated roofs are "growing" in popularity. They provide insulation and energy savings, furnish habitats for plants and wildlife, provide deadening of outside noise, reduce harmful effects of fluctuating temperatures and help lengthen the life of roofing membranes.

ISO-DRAIN nature 20PG is the ideal drainage layer for extensive green roofs with minimum maintenance needs. Its combination of dimpling, perforation and laminated geotextile provides a **filter layer, water reservoir and drainage bed** – all in a single composite product.

The rugged design and high compressive strength of ISO-DRAIN sheet products have been proven in wide-ranging applications in foundation wall protection as well as road, tunnel and landfill construction. Installation of ISO-DRAIN nature 20PG is fast and cost-efficient. After installation, its

geotextile mat serves as a **permeable support surface** permitting **direct soil application** without requiring intermediate layers of any kind.

ISO-DRAIN nature 20PG provides **outstanding water storage and drainage performance** in green roofs and roof gardens. Its high water storage capacity – **6 l/m²** – provides ample reserves for periods of dry weather. Its geotextile mat prevents silt accumulation in the air gaps between the dimples and is fully resistant to root penetration. The perforation ensures optimum **root aeration** and drains off excessive water build-up.

And, above and beyond the beauty and biodiversity potential that green roofs offer, "thumbs up" as well for their improved thermal insulation, providing energy savings and reduced CO₂ emissions.



A Member of Infinex Group
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