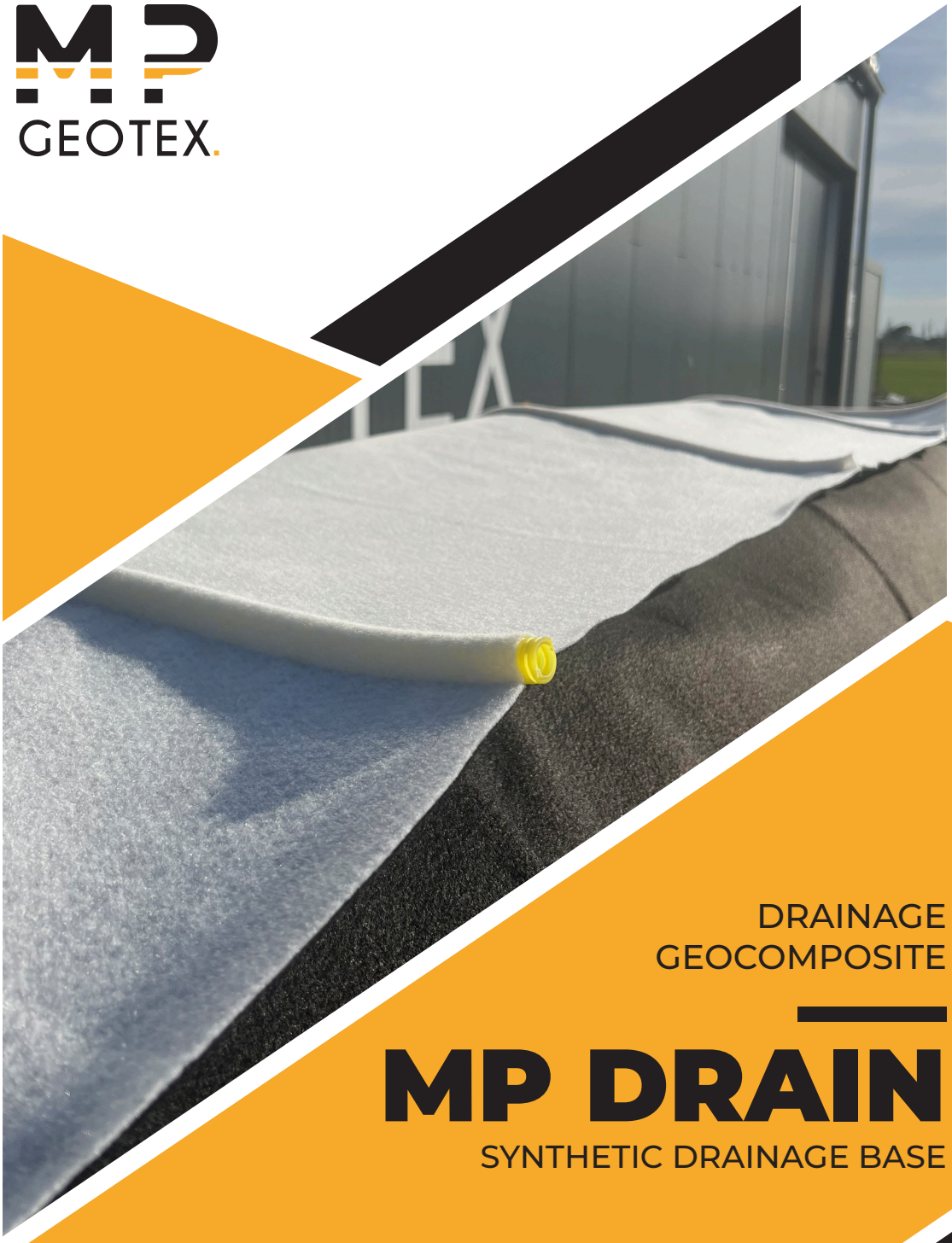
MP GEOTEX.



DRAINAGE
GEOCOMPOSITE

MP DRAIN

SYNTHETIC DRAINAGE BASE

SAS MP GEOTEX
95 Allée du Nyonsais
26300, Bourg-de-Péage
contact@mpgeotex.com

MP DRAIN is a geotextile geocomposite combined with an integrated mini-drain network, manufactured as a single product, designed to capture, drain, and evacuate infiltrating water from the soil.

COMPOSITION OF THE MP DRAIN COMPOSITE PRODUCT

D-type Drainage Geotextile Mat Made of Thick Black Fibers

Yellow corrugated and perforated N mini-drains, regularly spaced

F-type Filter Geotextile Layer Made of Fine White or Black Fibers

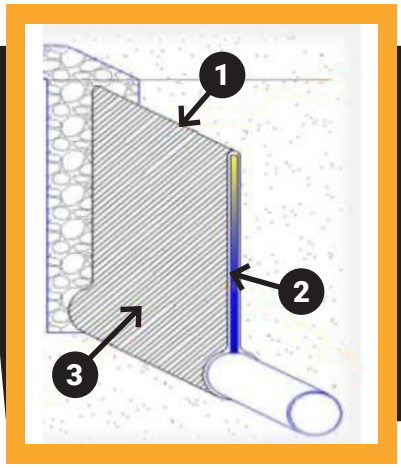
THE MP DRAIN RANGE

DRAINAGE MAT / BASE

Road embankments, platforms, sports fields, soil stabilization (basins)

COVERING / DRAINAGE BLANKETS / SPURS

Slope retention, landslide stabilization, landfill cover (CET/CSD), basin slopes, and dikes



VERTICAL DRAINAGE SCREENS

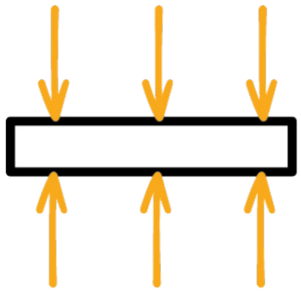
Roadside screens, retaining walls (at the back), reinforced soil structures, mechanically stabilized earth, deep drainage (isolation of storage sites), beneath vertical geosynthetic drainage screens.

1. 150 g/m² geotextile envelope, anti-contaminant, filter certified by ASQUAL
2. 350 g/m² drainage core made of non-woven geotextiles combined with a network of D20 mm mini-drains
3. Custom pocket at the base to accommodate a collector drain*
   *The collector drain is not supplied by MP GEOTEX

MP DRAIN OPERATION

A geocomposite for drainage, filtration, separation, and geomembrane protection, the MP DRAIN consists of an assembly of needle-punched non-woven geotextiles, between which is placed a network of perforated polypropylene mini-sleeves with a diameter of 20 mm, spaced at 0.25 m, 0.50 m, 1.00 m, or 2.00 m

Water contained in the materials is collected and filtered by the geotextile layer.	
Filter layer	
Aperture according to ISO 12956	In-plane normal permeability : according to ISO 11058



Once water is collected in the drainage layer, it follows the path of least resistance toward the lowest head losses, thus flowing perpendicular to the perforated mini-sleeves.
Filter layer
In-plane flow capacity in the transverse direction, according to ISO 12958

Water collection by the perforated mini-sleeves is immediate due to an extremely low head loss.

Once collected, the water finally flows toward the outlet through the perforated mini-sleeves, thanks to their high flow capacity—about 10 times greater than that of a standard geotextile.
Drainage layer
In-plane flow capacity in the transverse direction, according to ISO 12958

ADVANTAGES OF MP DRAIN

- Replaces the horizontal granular layer (platform, embankment, etc.) and in vertical applications (shallow or deep trench).
- Fast installation: up to 10,000 m²/day for horizontal placement and 600 m/day for vertical placement (open trench).
- Reduces the carbon footprint of your construction sites.
- MP DRAIN should be installed in the desired drainage direction, with overlapping layers in a shingle pattern and the possibility of joining sheets using a hot-air gun.

1 MP DRAIN's resistance to backfill, compactable soils, and compression over time: the mini-drains have a strength exceeding 400 kPa.

2 Flexibility of MP DRAIN to conform to the terrain shape, facilitating product installation.

MP DRAIN: A COMPLETE RANGE FOR THE EXECUTION OF YOUR PROJECTS

MECHANICAL PROPERTIES

MP DRAIN REFERENCES	STANDARD	MPGDF 350 NO.5	MPGDF 350 N1	MPGDF 350 N2	MPGDF 350 N4
Tensile strength	PER ISO 10319	SP : 28 kN/m	SP : 28 kN/m	SP : 28 kN/m	SP : 28 kN/m
		ST : 28 kN/m	ST : 28 kN/m	ST : 28 kN/m	ST : 28 kN/m
Dynamic puncture (DP)	PER ISO 13433	10 mm	10 mm	10 mm	10 mm
CBR puncture	PER ISO 12236	5.3 Kn	5.3 Kn	5.3 Kn	5.3 Kn
Filtration opening	PER ISO 12956	80 µm	80 µm	80 µm	80 µm

HYDRAULIC PROPERTIES

MP DRAIN REFERENCES	STANDARD	MPGDF 350 NO.5	MPGDF 350 N1	MPGDF 350 N2	MPGDF 350 N4
Normal in-plane permeability	PER ISO 11058	100 l/m/s	100 l/m/s	100 l/m/s	100 l/m/s
In-plane flow capacity (SP) under a hydraulic gradient of i = 1; N = number of drains per meter under 20 kPa	PER ISO 12958	0.132 l/m/s	0.264 l/m/s	0.528 l/m/s	1.06 l/m/s
In-plane flow capacity (ST) under a hydraulic gradient of i = 1 at 20 kPa	PER ISO 12958	0.112 l/m/s	0.224 l/m/s	0.45 l/m/s	0.9 l/m/s

DESCRIPTIVE FEATURES

MP DRAIN REFERENCES	STANDARD	MPGDF 350 NO.5	MPGDF 350 N1	MPGDF 350 N2	MPGDF 350 N4
Thickness under 2 kPa	PER ISO 9863-1	2.4 mm	2.4 mm	2.4 mm	2.4 mm
Thickness under 20 kPa	PER ISO 9863-2	2 mm	2 mm	2 mm	2 mm
Total surface mass	PER ISO 9864	350 g/m²	350 g/m²	350 g/m²	350 g/m²

Packaging : (l) 4m x (L) 50m / (D) 0.7m

Certified CE

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