



**Sindrain**

High-performance solutions for every drainage requirement

 **HUESKER**  
Ideen. Ingenieure. Innovationen.

# Efficient drainage for reliable project planning

## Less material, more impact

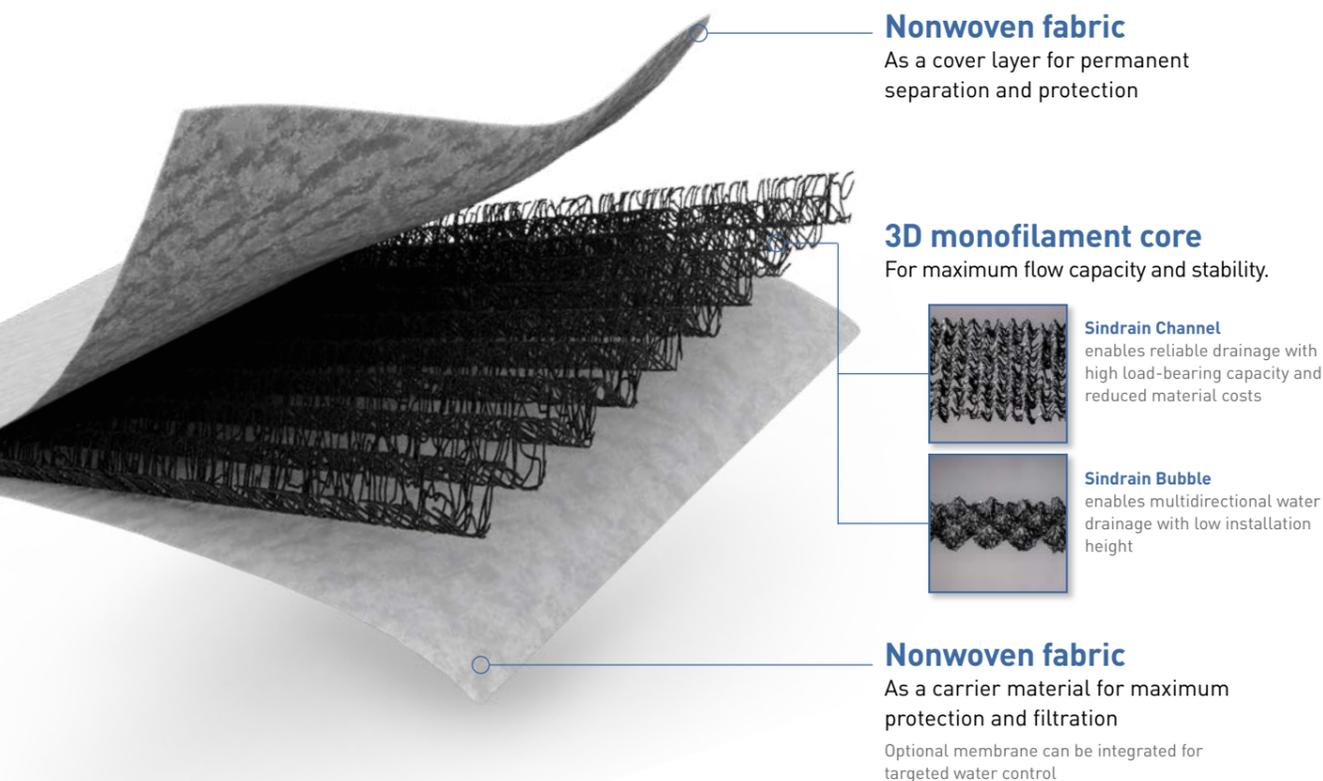
Efficient drainage is decisive for the safety and service life of roads, landfills, tunnels and foundations. If water accumulates within a construction, ponding, pore-water pressure and erosion can develop, which can have serious consequences for the stability of entire structures. Although traditional drainage layers of gravel or crushed stone are proven, they have clear disadvantages: significant weight, costly transport and installation, large volume and declining long-term performance. Sindrain offers HUESKER a high-performance geosynthetic alternative.

The system comprises two variants: **Sindrain Channel (C)** and **Sindrain Bubble (B)**, which, depending on project requirements, provide different combinations of hydraulic capacity and compression stability. This allows the technically appropriate solution to be selected for each application.

## The variants: a summary

Sindrain offers different 3D monofilament core geometries; their shape determines the system's hydraulic and mechanical behaviour. The compact **Channel** core forms defined load paths and remains form and void stable even under high surface or localised loads. It therefore enables reliable load capacity with a compact construction depth and reduced material use. Channel is particularly suited to heavily loaded structures, structural connections and sloping surfaces where load capacity and space-saving design are required. The profiled **Bubble** core creates larger internal voids and enables multidirectional water discharge with a high hydraulic cross-section; it is therefore ideal for retention areas, green roofs, slopes and similar applications with high runoff demands. The underlying core and bonding technology enables Sindrain, at reduced material input, in many cases to achieve equal or better performance — saving material and transport and improving the CO<sub>2</sub> balance.

## How Sindrain works



Sindrain Channel

Sindrain Bubble

## Your benefits at a glance

**Stable hydraulic performance**  
Form-stable bonding prevents the filter fleece from sagging into the core voids.

**CO<sub>2</sub> reduction**  
Optimised build-up reduces material demand and transport and thus improves the CO<sub>2</sub> balance.

**Cost-efficient logistics**  
Optimised roll formats and widths enable maximum loading per lorry and rapid installation on site.

**Modularity**  
Modular cores enable project-specific high hydraulic capacity or increased load resistance.

## Application examples for Sindrain



Landfill Construction

Landscape Construction

Slope stabilisation

Technical Data	
<b>Structure</b>	3D geocomposite made of monofilament core thermobonded to geotextile filters/membranes
<b>Material</b>	PP, PA, 100% recyclable
<b>Function(s)</b>	Drainage, filtration, separation, protection
<b>Hydraulic Performance</b>	In-plane flow capacity up to 7 l/m-s
<b>Operating Range</b>	Withstands compressive loads up to 500 kPa

HUESKER Synthetic is certified to ISO 9001, ISO 14001 and ISO 50001.



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