



**BETTER DRAINAGE, LONGER LIFE
LOWER MAINTENANCE COSTS**

ACTIVE DRAINAGE TECHNOLOGY





1. System Introduction

DB is a rugged geocomposite that utilizes the universal concept of capillary action to convey water away from horizontal surfaces.

DB's reinforced active core draws standing liquids up to 200mm vertically out of cavities, channels, and porous materials - even from below the level of drainage pipes or bridge spouts.

Drainage belt collects and conveys water out of critical structures, resulting in longer service life and decreased maintenance costs.

Easy installation, heat tolerance to 230°C, frost resistance for use below freezing temperatures and a maximum tensile strength of 22 kN (5,000lb) make **DB** appropriate for many civil engineering applications.

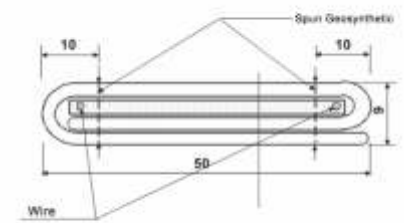
DB changes drainage from a passive, structurally managed process into an active one.

In the last **10** years alone more than **800,000 m** of **DB** have been installed in nearly **1,500** bridges **and homes in EU**.

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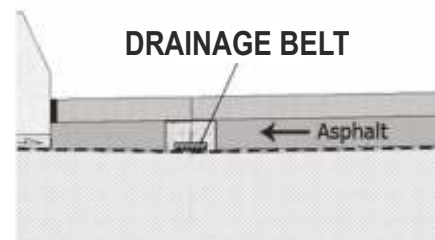
2. System Overview

DB is a patented drainage system which consists of a woven core reinforced by steel wire and a heavy duty outer layer of spun geosynthetic. **DB** 's resilient design allows for free flow of liquid while under load.

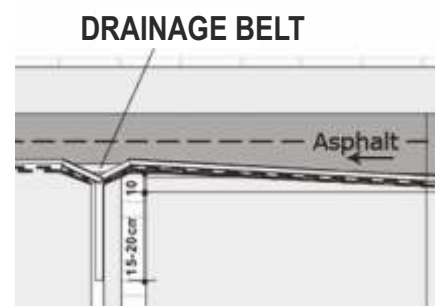


DB may be laid underneath or inside drainage systems and between steel or concrete structural members and asphalt.

DB is also suitable for installation under curbs, critical junctions in roadways, flyovers, tunnels, and problematic areas such as pothole prone sections.



A slight elevation difference from end to end is all that is required to activate drainage on horizontal surfaces or uphill slopes.





3. Application Examples



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4. System Installation

DB is laid near any seam prone to water infiltration.

DB may also be laid directly into drain channels or pipes.

Affix **DB** to the bed at regular intervals using hot asphalt.

Extend the belt's terminal end at least 200mm into the drain.

To create longer segments simply lay the terminus end of one run at least 100mm over the start of the next run and loop the connection with corrosion resistant wire.

Any type of asphalt can be placed directly over **DB**.

Other materials such as poured concrete or grout may be used with **DB**, however a thin strip of vapour barrier or medium weight geotextile should be laid over **DB** prior to application.

Ease of installation, low profile and rugged materials make **DB** a great solution in many applications.





5. System Applications

- Bridge Decks
- Building Drainage Systems
- Bridge Expansion Joints
- Flyovers/Overpasses
- Wet Home, Basement, Garden, Floor
- Roadways
- Sidewalks
- Foundations and slabs
- Parking Garages
- Retaining Walls
- Slope Stabilization
- Contaminated Site Remediation



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6. System Components

DB is a single component composed of 2 basic elements:

CORE - a geotextile strip specially woven from strong polyester fibres, reinforced with 2 steel wires.



OUTER LAYER – spun polyester geotextile covering the core 1.5 times.

Width: 50 mm
Thickness: 8 mm
Weight: 100 g/m

Water conveyance 1,000 - 60,000 ml/hour

Shipping format: **6,1m 20m 40m**

No.	Properties	Unit	Required value	Test method
1	Thickness under 2 kPa load	mm	9.5 ± 1.0	PN-EN ISO 9863-2:1999 (ASTM D-5199)
2	Length	m	40 ± 0.2	Ruled Measure
3	Width	mm	45 ± 2	Ruled Measure
4	Exterior	-	No damage or deformation of core	Visual Assessment
5	Drain efficiency	ml/h	1000 - 60000	Manufacturer Controlled Test
6	Tensile Strength	kN/m	≥ 22	BS EN ISO 13934-1:2002 (ASTM D-5035)



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