

Stormwater management

Stormwater storage



Rigofill® ST-B

Storage/infiltration module




Polypropylene storage/infiltration module, consisting of half elements (full block) to be installed on site or half element(s) and roof slab (half block) with sidewall grids depending on the position in the storage/infiltration module, accessible in two axes thanks to cross-shaped, continuous inspection tunnel, colour: black



Technical data

Application:	Highly durable and hard-wearing storage/infiltration module for the construction of gravel-free, underground swales for the infiltration, retention and storage of stormwater run-off in combination with RigoFlor special geotextile lining, QuadroControl ST-B inspection shafts and more accessories.	
Material / raw material:	PP (polypropylene), recyclable	
Specification/ approvals:	According to EN 17152-1	
Dimensions: Length x width [m]	0.80 x 0.80	
Height: [m]	Half block 0.35	Full block 0.66
Weight: [kg]	13	18
Storage capacity: [%]	95	96
Volume [litres]:	Gross volume: 224 Storage volume: 212	Gross volume: 422 Storage volume: 406
Nominal diameter of inlet/outlet at the storage/infiltration module:	At the sidewall grid: Solid-wall pipe DN/OD 110, DN/OD 125, DN/OD 160, DN/OD 200, DN/OD 250, DN/OD 270	At the sidewall grid: Solid-wall pipe DN/OD 110, DN/OD 125; DN/OD 160, DN/OD 200, DN/OD 250, DN/OD 270, DN/OD 400, DN/OD 500 Using adapter: Solid-wall pipe DN/OD 315, DN/OD 400, DN/OD 500
Carrying capacity:	Maximum cover up to 2.3 m* Maximum soil depth up to 4 m* Heavy goods vehicle traffic (HGV 60) from a minimum cover of 80 cm with proper road layout Long-term carrying capacity has been proven	

*... depending on local installation conditions

Short-term compressive strength: [kN/m ²]	Vertical: 354 Horizontal: 97 acc. to EN 17150
Long-term compressive strength: [kN/m ²]	Vertical: 94 Horizontal: 18 acc. to EN 17151
Design Life [years]	≥ 50
Stackability:	Horizontal and vertical connect using connectors
Inspectability:	Accessible in two axes thanks to cross-shaped, continuous inspection tunnel W x H 0.16 m x 0.59 m, designed for the use of automotive dollies, for optimum inspection of the permeable surface (geotextile wrapping) and inspection of any statically relevant load-bearing elements; free access opening 500 mm at the cone of the inspection shaft for inserting inspection and flushing devices
Inspection shaft:	<p>QuadroControl ST-B system shaft can be integrated anywhere in the modular block type structure, length x width = 0.80 m x 0.80 m, as inspection shaft, ventilation of the system with QuadroControl ST-B when using shaft covers with ventilation openings.</p> <p>Consisting of half elements to be installed on site and cone (full block shaft) or half element(s) and roof slab (half block shaft) with sidewall grid depending on the position on the storage/infiltration module</p>  <p>1/2-layer 1-layer 1 1/2-layer 2-layer 2 1/2-layer 3-layer</p>
Accessories:	<p>For Rigofill ST-B accessories, see Drainage Systems price catalogue</p> <p>More information: "Rigofill® ST Rigofill® ST-B - underground storage/infiltration module" product documentation  www.fraenkische.com</p>
Miscellaneous:	<p>Installation according to "Rigofill® ST Rigofill® ST-B - installation manual"  www.fraenkische.com</p>