

Stormwater management

Stormwater storage



Greenstorm ST 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: green



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 inspection shafts and more accessories.	
Material / raw material:	PP (polypropylene), recyclable	
Specification/ approvals:	According to ISO 4981 and EN 17152-1 Further national approvals: Road Authority (TRA) of the Providence of Ontario	
Dimensions: Length x width [m]	0.80 x 0.80	
Height: [m]	Half block 0.35	Full block 0.66
Weight: [kg]	14	19
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:	<p>Maximum cover up to 4 m*</p> <p>Maximum soil depth up to 6 m*</p> <p>Heavy goods vehicle traffic (HGV 60) from a minimum cover of 80 cm with proper road layout</p> <p>Long-term carrying capacity has been proven</p>
Short-term compressive strength: [kN/m ²]	<p>Vertical: 420 acc. to EN 17150</p> <p>Horizontal: 115</p>
Long-term compressive strength: [kN/m ²]	<p>Vertical: 131 acc. to EN 17151</p> <p>Horizontal: 29</p>
Design Life [years]	≥ 50
Stackability:	Horizontal and vertical connect using connectors
Inspectability:	<p>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</p>
Inspection shaft:	<p>QuadroControl ST 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 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> <div style="text-align: center;">  <p>1/2-layer 1-layer 1 1/2-layer 2-layer 2 1/2-layer 3-layer</p> </div>
Accessories:	<p>For Rigofill ST 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>

*... depending on local installation conditions

i.A. 
Stefan Weiß
 Dipl.-Ing. (FH)
 Produktmanagement / Productmanagement
 Drainage Systeme / Drainage Systems

Fränkische Rohrwerke
Gebr. Kirchner GmbH & Co. KG
 D-97486 Königsberg/Bayern