

R-TANK® DRAINAGE SOLUTIONS



VERSATILE SUPPORT FOR DRAINAGE APPLICATIONS

The strength, capacity and infiltration capabilities of R-Tank products aid in meeting critical drainage requirements and offer a myriad of benefits.



GREEN/BLUE ROOFS

City centers often face an extreme challenge: designed before modern regulations, these areas are often covered in structures that span sidewalk to sidewalk. By utilizing every buildable inch of real estate, these projects lack the means to provide stormwater treatment.

In these situations, developers turn to green roofs to provide open-space amenities and manage stormwater storage. A new trend in the industry is to capture and retain the rainfall as part of a blue roof.

R-Tank's panel products provide a low-profile drainage cell capable of promoting high-capacity rainfall storage and providing the necessary lateral drainage for captured rainfall to reach discharge drains. This combination makes R-Tank a perfect product to reduce cross-section weight compared to drainage stone, increase stormwater storage and decrease discharge rates.



PERMEABLE SURFACES

Permeable surfaces, such as permeable interlocking concrete pavements, allow designers to create surfaces capable of both supporting vehicular loads and promoting natural infiltration.

In most cases, permeable surfaces allow water to pass through a space between blocks. Once through the surface, the rainfall can enter the stone base and infiltrate into the native soils. In some cases, these native soils have low infiltration rates that reduce their ability to keep up with higher intensity storms.

R-Tank's panel products provide the necessary strength to support vehicular loads while providing high-capacity storage space to reduce the likelihood of stormwater runoff. By providing high-capacity void space, R-Tank retains the runoff during intense rainfall events and allows the soil to continue infiltrating the accumulated runoff as the intensity of the storm recedes.







POROUS GUTTER LINES

In urban and suburban environments in the US, most roadways are bordered by a raised curb. This curb not only delineates the edge of the roadway but can also serve storms and convey runoff to nearby inlets.

In most of these cases, there is a space between the edge of the travel lane and the curb. This area is often referred to as the gutter line and may even double as parking spaces. Though these areas might not be frequented by traffic, they can be subjected to occasional loads from buses or trash vehicles. This requires any subsurface storage products to be capable of supporting high loads (HS-20 to HS-25).

R-Tank, in conjunction with porous and permeable surfaces, provides a high-capacity storage space to reduce the likelihood of stormwater runoff entering traffic lanes, alleviates ponding after storms and promotes infiltration of stormwater.



SPORTS FIELDS

Whether installing a natural or synthetic sports field, drainage is a vital part of any recreational space. Poor drainage is a leading cause of sports field damage and decreased performance life.

By incorporating proper surface grading, the majority of runoff can be directed off the playing field. Still, proper drainage goes well beyond the surface conditions. Today, most turf fields incorporate a subsurface drainage system to address groundwater and ensure the playing surface stays dry.

R-Tank's panel products provide structural support for surface loads, including emergency equipment, while promoting vertical and lateral drainage. By incorporating R-Tank in the base cross-section, designers can reduce excess moisture that otherwise could lead to damaged playing surfaces and a reduction in usable field time.

R-TANK DRAINAGE PRODUCTS



High Capacity

- 95% void internal area (NV)
- 90% void internal area (XD)

Strength

- · Supports traffic loading
- Module options for HS-20 and HS-25 rating with cover depths from 6" to 10'

Design and Construction Versatility

- Modules can be combined into various shapes to use space efficiently and effectively
- Module heights vary from 2" to 30"

Increased Infiltration and Exfiltration

- 90% surface open area to promote infiltration
- Increases groundwater recharge, reducing postconstruction discharge volumes

Lightweight and Quick To Install

- · Installed by hand; no cranes required
- Can be cut to fit around obstructions and existing utilities

Recycled Content

Manufactured with post-industrial recycled polypropylene

R-TANK SUPPORT SERVICES

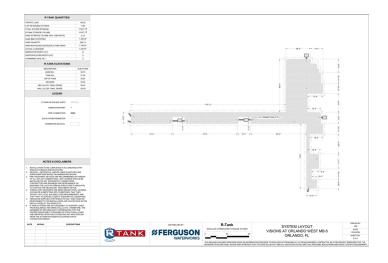
Our regional engineers and designers are experts in both local regulations and innovative urban green street applications and can help develop site-specific solutions using one or a combination of our products. Our team produces high-quality custom layouts and details to support your permitting and construction efforts. From AutoCAD to HydroCAD, we have a variety of design tools to help you move through the permitting process efficiently.





R-TANK SPECIFICATIONS

SPECIFICATIONS			
Item	Description	Value	Value
Minimum Height	Shortest unit height	3.54"	1.97"
Maximum Height	Tallest combined height	7.08"	29.55"
Void Area	Volume available for water storage	95%	90%
Surface Area Void	% of exterior available for infiltration	90%	90%
Vertical Compressive Strength	ASTM D 2412 / ASTM F 2318	190 psi	220 psi
Unit Weight	Weight of plastic per cubic foot of tank	6.70 lbs/cf	7.55 lbs/cf
Service Temperature	Safe temperature range for use	-14 to 167° F	-14 to 167° F
Recycled Content	Use of recycled polypropylene	90%	100%
Minimum Cover	Cover required for HS-20 loading	6"	6"
Maximum Cover	Maximum allowable cover depth	9.99'	9.99'











LOCATIONS & CONTACT INFO

ASP ENTERPRISES

aspent.com

salesasp@aspent.com

St. Louis, MO Omaha, NE 636.343.4357 402.861.8579

Kansas Citv. MO 816.554.1191

Wichita, KS 316.393.1554

BOWMAN CONSTRUCTION SUPPLY bowmanconstructionsupply.com

salesbcs@bowmanconstructionsupply.com salesquick@quicksupplyco.com

Denver, CO Colorado Springs, CO

303.696.8960 Loveland, CO 970.535.0863

OUICK SUPPLY CO.

quicksupplyco.com

Des Moines, IA 515.289.1271

CASCADE GEOSYNTHETICS

cascadegeos.com

salescascade@cascadegeos.com

Portland, OR 971.339.1020

SOLUTIONS WE SUPPLY

GEOSYNTHETICS

Filter Fabrics

Stabilization Fabrics

Geogrids

- Road Grids
- Wall Grids
- Slope Stabilization

Specialty Fabrics

Composite Geomembranes

• GCLs, PVC, HDPE, LLDPE, EPDM, Granular Bentonite

SEDIMENT CONTROL

Inlet Protection

· Grated Inlet, Curb Inlet, Area Inlet Protection

Ditch Checks

- · Triangle Silt Dike
- GeoRidge

Perimeter Protection

- · High and Low-Porosity Silt Fence, Straw Wattles, Silt Socks
- Safety Fence

Flocculants & Water Treatment

Polymer-Based & Natural Flocculants

Sediment Basin Skimmers

Dewatering Bags

Trackout Control

- FODS
- Rumble Grates

Turbidity Curtains

EROSION CONTROL

719.257.7840

Basic Hydraulically Applied Mulches

- Wood
- Paper
- Blends
- Straw

High-Performance Hydraulically Applied Products

- FGM
- · Additives & Tackifiers

Temporary Erosion Control Blankets

- Coir & Jute Mat/Nettings
- Short-Term ECBs
- Extended-Term ECBs

Permanent Erosion Control Blankets

- Turf Reinforcement Mats
- HP-TRMs
- Anchor Reinforced Vegetation System

Structural BMPs

- Transition Mats
- Geoweb Cellular Confinement
- Composite Vegetated Armor System
- Flex MSE Vegetated Wall System
- Articulated Concrete Block
- Gabions
- · Grout-Filled Geotextile Mats

Vegetation Establishment

- · Native Seed & Turf Seed
- Fertilizers
- · Organic Soil Additives
- Stratavault Soil Cells

STORMWATER MANAGEMENT

Water Quality

- Inlet Filter Boxes
- Pre-Treatment Chamber
- Nutrient Separating Baffle Boxes
- · High-Flow Biofiltration Media
- · Hydrodynamic Separators
- Stratavault

Water Ouantity

- · Modular Underground Storage Systems
- Chamber Detention Systems

Drainage

- HDPE Swale Liner
- Pipe & Fittings
- · Drainage Composites
- Strip Drain

Inlet Structures

- PVC
- · Drain Basins, In-Line Drains
- Landscape

Permeable Pavers

- Permeable Articulating Concrete Block
- Grass Pavers
- · Gravel Pavers
- Concrete Pavers

SPECIALTY

Natural & Synthetic Coir Fiber Logs **Vegetated Reinforced Soil Slopes** Soil Anchors **Root Barrier System** AquaBlok Muscle Wall

We are full line distributors of construction materials for all project types. Contact us for assistance with a project. From specification and development to installation and completion, we're here to help with all of your site solution needs.