R-TANK Modular Stormwater Management System

95% Void Space for Storage

Minimum Excavation For Maximum Storage & Footprint Usage
Application Versatility:

#1: Infiltration
#2: Detention
#3: Harvesting - Retention

#1: Typical Infiltration Design

#2: Typical Detention Design

#3: Typical Harvest – Retention Design
• Shipping
• Assembly
• Placement

Assembly at Site. ACF can provide assembly and cost certainty

Modules shipped unassembled = significant cost savings!

Hand Placement = Cost Savings!
Structural Stability – R-Tank Provides:

#1: Easy To Calculate and Fit in Excavated Area.
#2: Stability for Lateral and Vertical Pressures.
#3: Eliminates Low Void Space and Compaction Issues.
Modular Versatility: Depth & Storage

Mini R-Tank Module

Storage Volume = 2.30 cf

17.32”

9.45”

20.34 cf

Single R-Tank Module

Storage Volume = 4.22 cf

18.42”

4.22”

8.25 cf

Standard R-Tank Modules:

• Depth = 9.45” to 83.46”
• Storage = 2.30 cf to 20.34 cf
Modular Versatility: Layout Arrangement

Complex & Irregular Footprints
R-Tank Provides HS-20 & HS-25 Loading With as Little as 20” of Cover

Minimum Fills:
- Min 20” Cover
- 24” Perimeter
- 3” Base
R-Tank\textsuperscript{HD} Eliminates the Need for Header Manifolds: Reduce Cost & Complexity

Pipe connections to R-Tank\textsuperscript{HD} are easy, facilitated by using a pipe boot; horizontal, vertical, geotextile or liner. Another option is to connect a catch basin directly to the R-Tank\textsuperscript{HD} system (far right )

Direct catch basin connection example.

- 20” Minimum Cover
- Catch Basin
- Opening Location Range
- Stone
- R-Tank\textsuperscript{HD}
Decentralized Design: Allowed for Two More Houses, Eliminated Basins & HOAs!

Modular Tanks in Place

Fabric & Perimeter Fill

Grid Layer for F.O.S.

Completed On-Lot Storage
Retrofit Design: Converted existing basin to underground for development expansion

Existing Basin

Reworked with Engineered Base

Tank Placement Continues

Enhanced Storage Under Parking
Stormwater Harvest Design: Encapsulated System With Liner to Capture for Reuse

Liner Prior to Modular Tanks

Modular Tank Placement

Backfill Placement

Finished Runoff Harvesting
ACF’s Engineering Team can provide project specific support or you can access the tools below:

- Specifications
- Load Support Documentation
- CAD Details
- Pre-treatment Options
- Inspection Guidelines
- Maintenance Support Kit
- Installation & Maintenance Manuals
- Project Pictorials & Case Studies

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