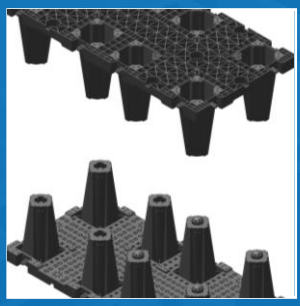
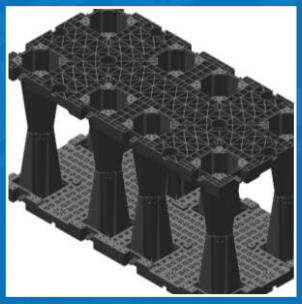
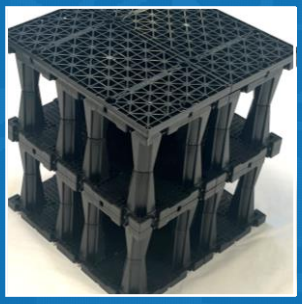
RainVault

UNDERGROUND DETENTION SYSTEM

EFFICIENT STORMWATER MANAGEMENT

Ripple Stormwater Technologies

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RainVault EFFICIENCY

Are you ready to transform the way you manage stormwater? Discover RainVault, the most efficient underground stormwater detention module ever built. Engineered to perfection, RainVault redefines stormwater management with efficiency built into three critical areas: strength, capacity, and assembly.

EFFICIENCY in STRENGTH

RainVault boasts an impressive 60 psi ultimate design load, making it perfect for a variety of applications. From traffic-bearing designs with as little as 15” of cover to deep installations with up to 8’ of cover, RainVault works in the toughest applications as well as the everyday projects.

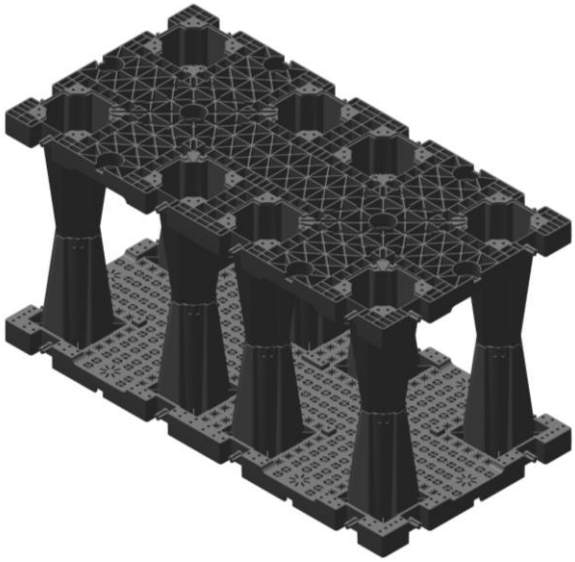
EFFICIENCY in CAPACITY

At 95% void, RainVault delivers what you should expect from a modular underground system. But when you consider the reduced cover requirements, RainVault comes out on top by providing more storage closer to the surface, maximizing the capacity of the available profile and minimizing the real estate allocated to the system.

EFFICIENCY in ASSEMBLY

RainVault accelerates your project timelines with a groundbreaking 75% reduction in assembly time. Experience rapid deployment and cost savings, making RainVault the ideal solution for time-sensitive projects and budget-conscious developers.

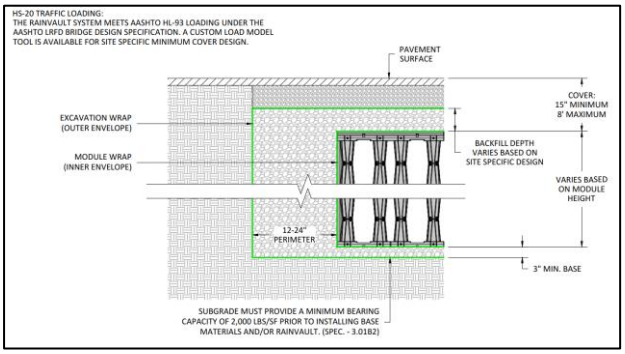
RainVault: ONE SYSTEM FOR ALL YOUR DESIGNS



Let's make your next design easy, with a single module that cuts across almost every application you might encounter. And while we're at it, let's pack as much runoff as possible into the smallest spaces available, meeting your design goals with tons of flexibility. Here are three standard configurations to get you started:

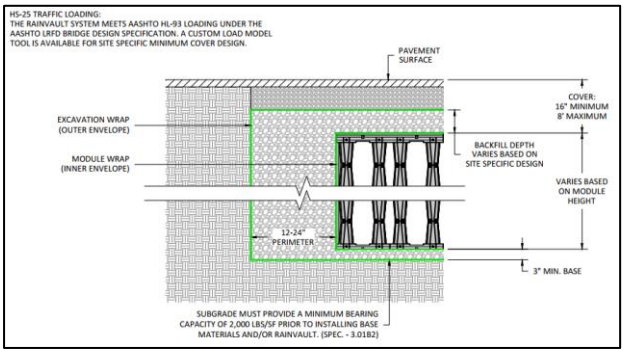
NORMAL Traffic (HS20)

Most commercial and residential projects need a conservative design that can be repeated successfully across jobs with hundreds of variables. RainVault delivers a massive storage profile and supports highway traffic loads with only 15" of cover between the top of the module and the top of the pavement.



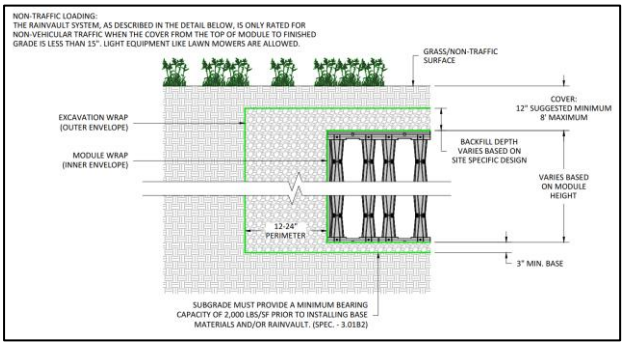
HEAVY Trucks (HS25)

When you need to manage constant heavy truck activity (think Trucking Terminal or a Loading Facility), maximizing storage doesn't have to take a backseat to conservative structural design. RainVault supports HS25 traffic loads with just 16" of cover.



NO Traffic (H10)

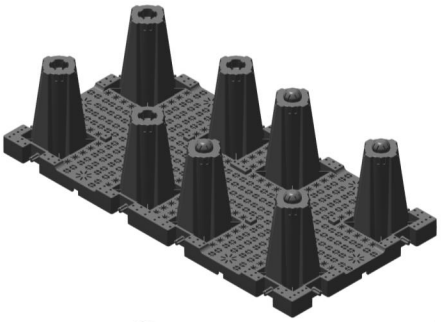
Just about every underground detention module works well in Green Spaces. So why not choose one that matches affordability with ease of installation to deliver your client a project that meets both the budget and the schedule.



MAINTENANCE: START WITH A BETTER DESIGN

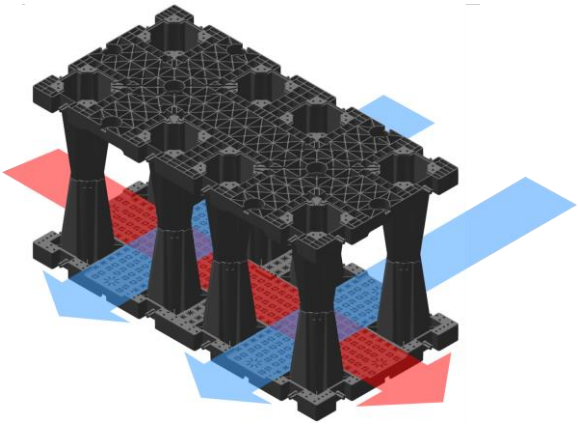
SMOOTH BOTTOM

RainVault is designed with a smooth system floor, allowing jet / vac equipment to glide through the system, sucking up sediment, debris, and any other goop that gets into the modules.

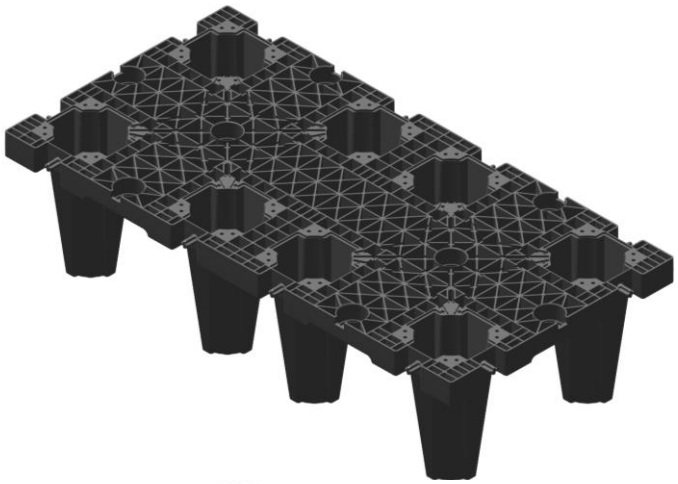


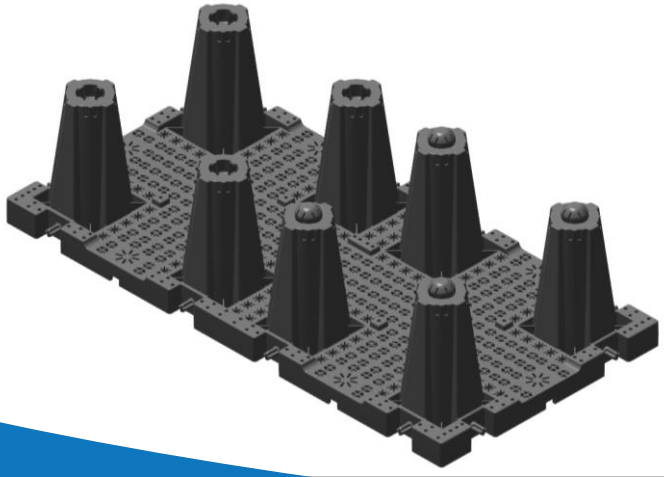
OPEN PATHWAYS

RainVault features large, open pathways to allow ample access for maintenance equipment. What's more, the access is bi-linear, allowing jetting equipment to run north/south or east/west, going wherever the sediment is to keep modules clean and ready to work.



ASSEMBLY: SO SIMPLE YOU'LL FLIP!





SAVE TIME, AND ELBOWS

RainVault's nested panels interconnect, snapping the male/female cone connectors together to form a module. Simply flip one panel and snap it to another, saving hours of mallet-swinging and the elbow pain that comes with it.

GO VERTICAL

RainVault modules stack up in more ways than one! Small lugs keep modules aligned left-to-right as well as up-and-down. Stack modules up to five segments high, making a module up to 7' tall.

RainVault Specifications

RainVault is an injection molded underground stormwater detention system made from grade 1, post-industrial recycled polypropylene. Constructed from cross-linked, interconnecting panels, side plates, and a top cover, RainVault systems will meet the physical and chemical properties listed in the table below.

Item	Description	Value
Void Area	Volume Available for Water Storage	95%
Unconfined Crush Load VERTICAL	ASTM D 2412 / ASTM F 2418	60 psi
Unconfined Crush Load LATERAL	ASTM D 2412 / ASTM F 2418	35 psi
Service Temperature	Safe Temperature Range	-14 - 167 F
Recycled Content	Use of Grade 1 Post-Industrial Recycled Polypropylene	100%
Biological and Chemical Resistance	Potential for Deterioration	Unaffected by mold, algae, soil-born chemicals, bacteria, and bitumen
Minimum Cover HS-20	Required Cover for HS-20 Loading	15 inches (contact Ripple for traffic applications between 12-15")
Minimum Cover HS-25	Required Cover for HS-25 Loading	16 inches
Maximum Cover	Cover Depth Not to Exceed	8 feet

RainVault Dimensions

Module Configuration	Width (inches / feet)	Length (inches) (inches / feet)	Height* (inches / ft)	Displacement (cubic feet)	Storage Volume (cubic feet)
1.0 (Single Stack)	15.16" / 1.26'	30.32" / 2.53'	16.93" / 1.41'	4.50	4.28
2.0 (Double Stack)	15.16" / 1.26'	30.32" / 2.53'	32.68" / 2.72'	8.69	8.25
3.0 (Triple Stack)	15.16" / 1.26'	30.32" / 2.53'	48.43" / 4.04'	12.88	12.23
4.0 (Quad Stack)	15.16" / 1.26'	30.32" / 2.53'	64.17" / 5.35'	17.06	16.21
5.0 (Pent Stack)	15.16" / 1.26'	30.32" / 2.53'	79.92" / 6.66'	21.25	20.19

* RainVault modules require a cap panel which goes over the top layer ONLY.

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