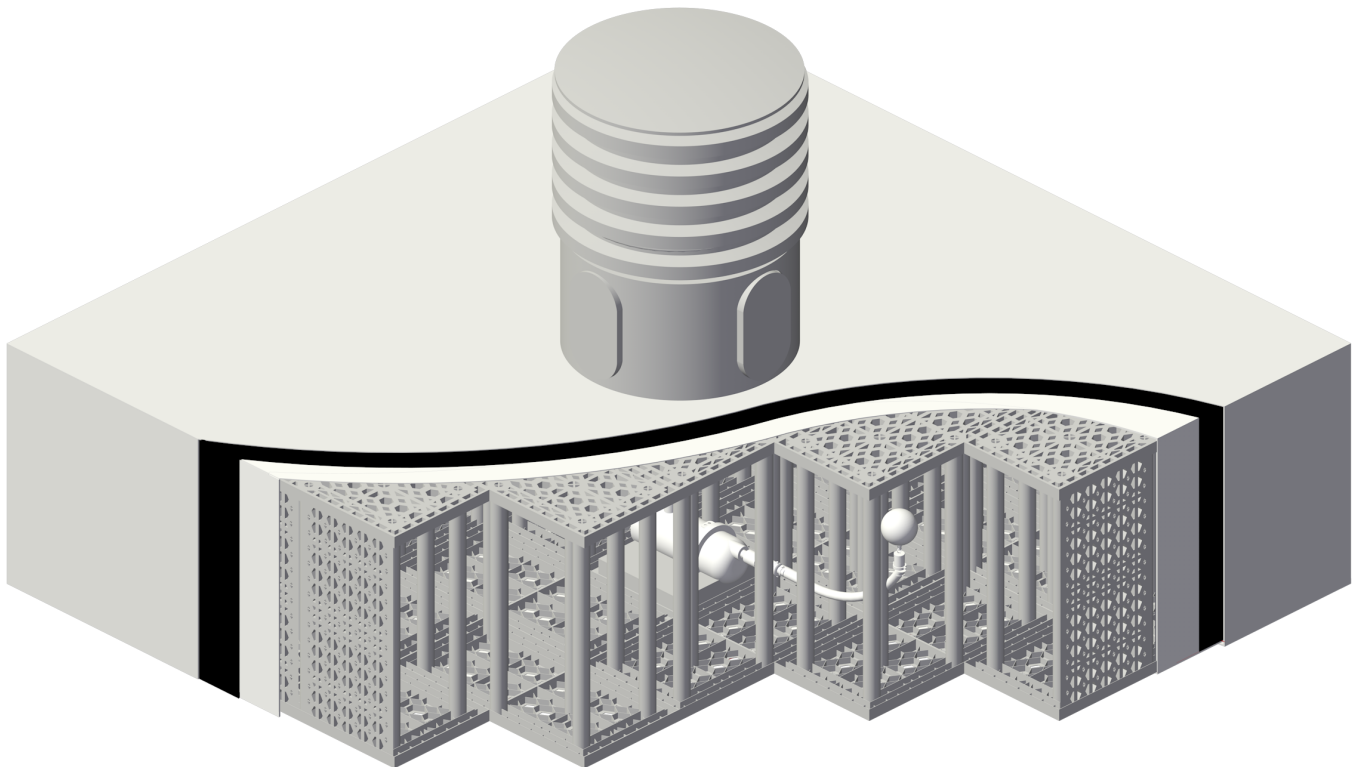


RainCavern

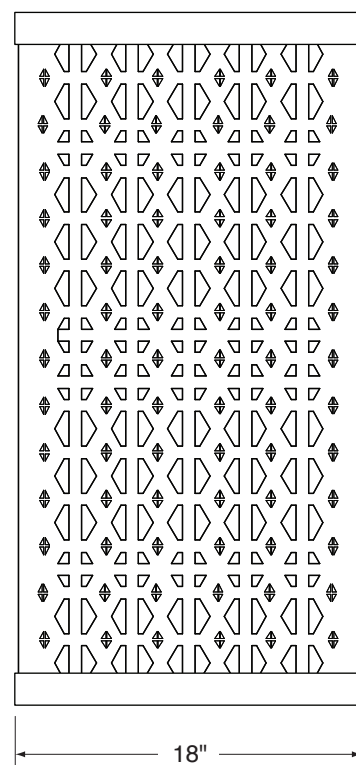
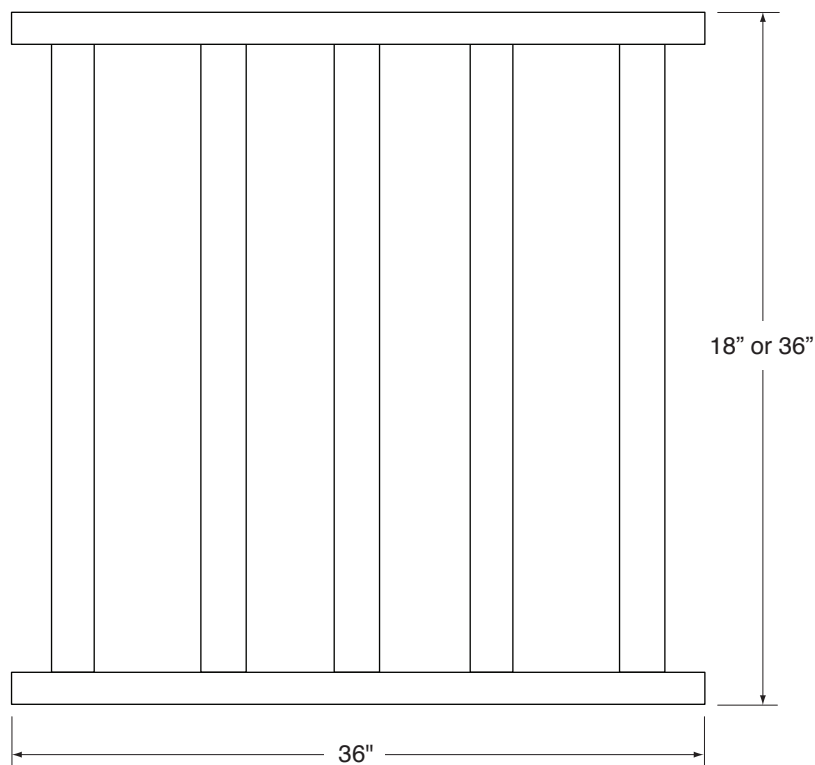
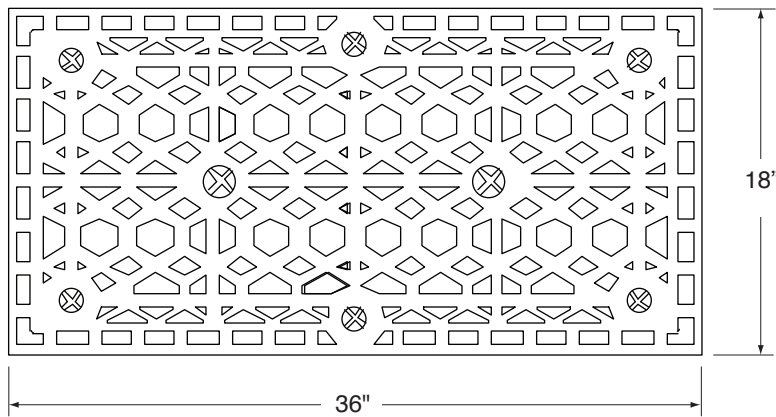
The *CT RainCavern* is not a tank in the traditional sense, but rather an underground chamber created by a series of open plastic modules wrapped in a waterproof membrane and then backfilled with earth. Each module consists of bottom plate, a top plate, and eight reinforced structural columns that can be assembled in minutes with only a rubber mallet. Sidewalls are installed only around the perimeter of the system, leaving the interior completely open. Large access risers permit entry into the system for inspection and cleaning. Submersible pumps, prefilters, and controls can be installed within the modules and access risers.

Standard modules measure 18" wide by 36" long by 36" tall and creates a void space with a volume of 98 gallons. Modules are arranged in square or rectangular patterns to create storage systems with virtually limitless capacity. For pedestrian traffic the cover depth can be as little as 24", permitting very shallow excavations not possible with tank systems, or as deep as 68", a depth that would crush many plastic tanks. For vehicle traffic, the cover depth can be as little as 32". Half-height modules are available to build very shallow systems, and modules can be double-stacked for high volume storage with a limited footprint.



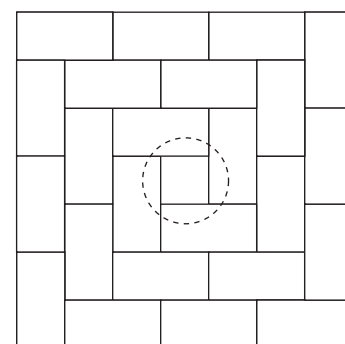
view into RainCavern system showing modules sealed with waterproofing membrane sandwiched between two layers of protection mat, adjustable access riser system, Amphibian pump with floating intake

DIMENSIONS



Dimensions	Capacity	Modules
7'-6" x 7'-6"	1200 gal	12
10'-6" x 10'-6"	2400 gal	24
13'-6" x 13'-6"	3900 gal	40
16'-6" x 16'-6"	5900 gal	60
19'-6" x 19'-6"	8300 gal	84
22'-6" x 22'-6"	11000 gal	112

stock sizes (many other sizes and shapes are possible)



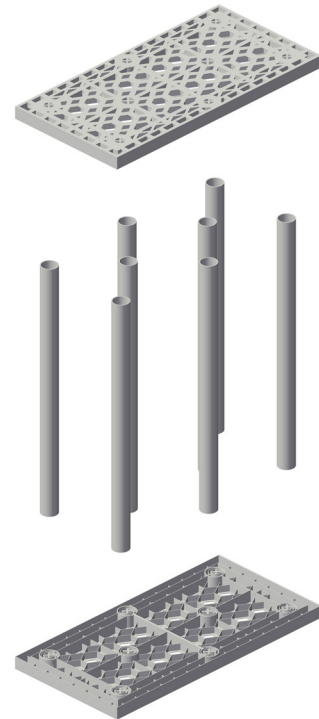
layout pattern (10.5' x 10.5')

MODULE ASSEMBLY

Each module is built from two top/bottom plates and eight support columns. No adhesives or fasteners are used. Modules must be assembled on a hard, flat surface so that the columns can be driven into place with a mallet. Do not assemble over the waterproofing liner!

For rapid assembly, follow the simple three-step process shown below. Since the sidewalls used for perimeter modules fit within a groove in the top/bottom plates, they must be installed before the columns are driven into the sockets.

As modules are assembled, set them side-by-side on a flat surface. Since the columns are precision-cut to length, if the columns are fully seated in the sockets, all of the heights will be identical.



exploded view of parts
required to build one
module



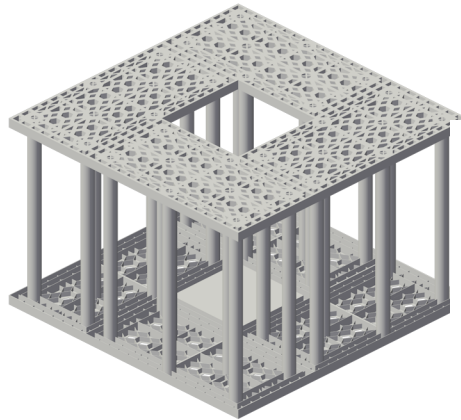
STEP 1: insert the support columns into the sockets of an inverted top/bottom plate.

STEP 2: Flip the assembly and insert the support columns into the sockets of the second top/bottom plate.

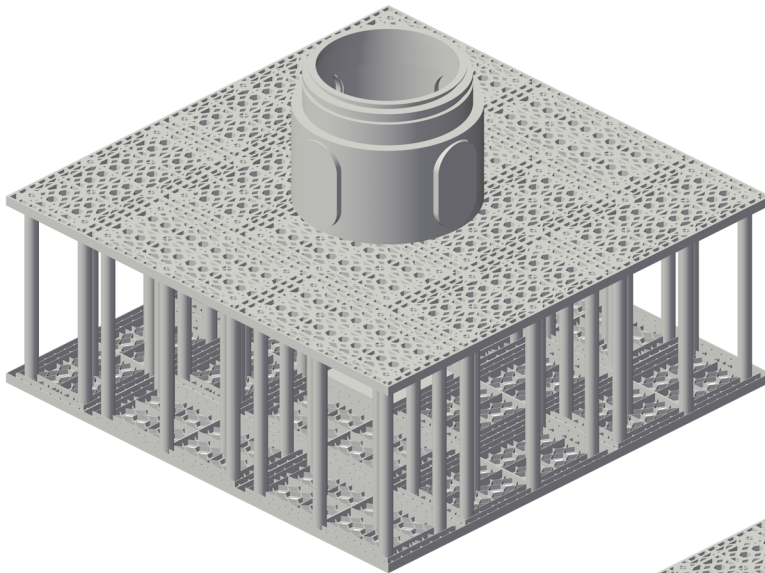
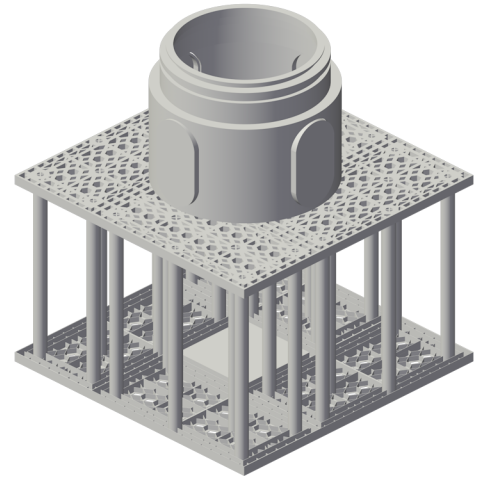
STEP 3: Using a rubber mallet, firmly strike the top surface over each column to drive the columns into the sockets.

SYSTEM LAYOUT

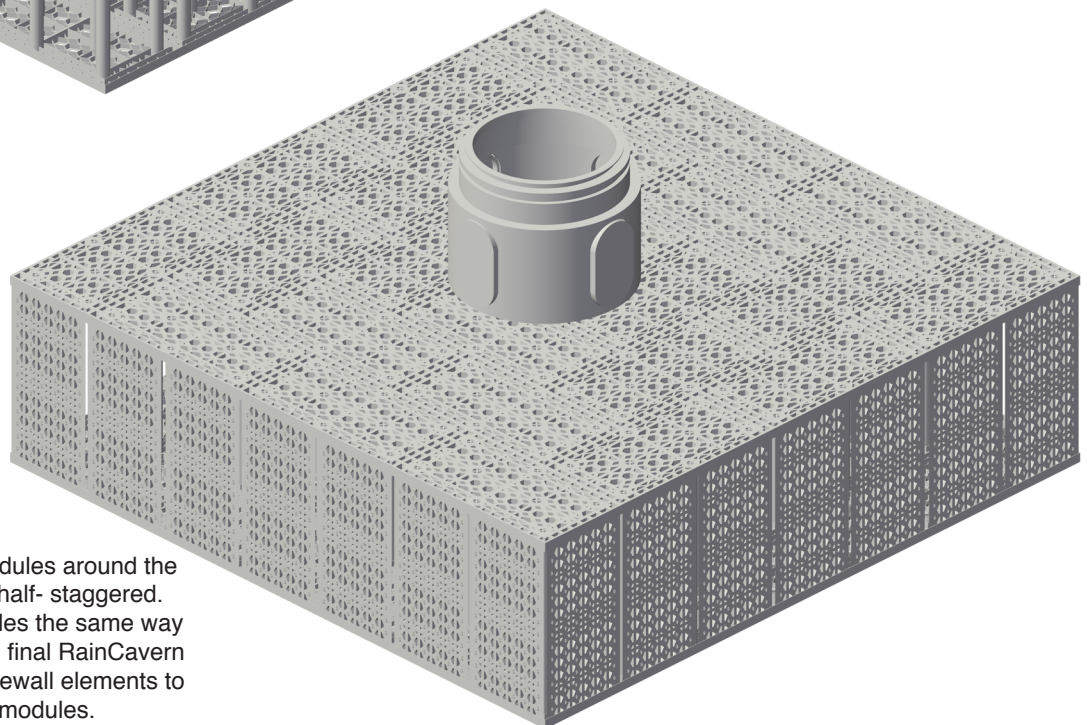
Arrange four modules end-to-side around the bottom platform to create a half-module open space.



Drop the access dome into the square hole to temporarily hold the proper shape.



Place eight more modules around the perimeter with joints half staggered against the core modules.



Place twelve more modules around the perimeter with joints half-staggered. Continue adding modules the same way as needed to reach the final RainCavern dimensions, adding sidewall elements to the outermost modules.