

CASE STUDY

Aquabox Increases Land Use for StorSafe Self Storage Venice, FL

OWNER

Elmdale Partners LLC, Skokie, IL

ENGINEER

Z Development Services, Orlando, FL

CONTRACTOR

Hughey Construction Services, Venice, FL

INSTALLATION DATE

September 2025

PRODUCTS

1,147 Aquabox Modules
One roll ADS Plus 125 geotextile

DESCRIPTION

The StorSafe Self Storage facility in Venice, FL needed a small footprint for stormwater detention system. This would allow the storage facility to maximize the area for additional storage units.

SOLUTION

Aquabox modular stormwater management units were installed in order to give the storage units the maximum available space. By using underground detention rather than a traditional surface pond, the Aquabox system allowed the owner to utilize the full site area for development, placing stormwater infrastructure beneath access roads.

Conventional chamber systems could not achieve the required storage volume within the limited footprint of the site. The Aquabox system's high void design provided an efficient solution that met stormwater requirements, even with the elevated water table typical of southwest Florida.

Advanced Drainage Systems (ADS) supported the project from design through construction. ADS



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assisted the site engineer with layout optimization, conducted a pre-construction meeting and provided on-site field support. This installation marked the first use of the Aquabox system in Southwest Florida.

PRODUCT DESCRIPTION

Aquabox systems are engineered for use beneath parking lots and paved areas to help maximize land utilization. Manufactured from recycled polypropylene enhanced with a glass additive, the modular design allows for customized configurations to fit complex site conditions. Each lightweight module measures 29.5" x 29.5" x 31.5" (750 x 750 x 800 mm) and provides 15.24 cubic feet (0.43 m³) of storage capacity.

The stackable design allows for compact on-site storage and efficient delivery on pallets. Built to meet HS-20 load class standards, each system also includes an integrated sediment row to maintain storage volume over the lifespan of the system.



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