

PROJECT PROFILE

R-Tank Underground Detention

Tuscany At West 23rd

Houston, Texas

95% Void Interior

90% Efficiency

50% Smaller Footprint



Design Team

Architect

David Weekley

Civil Engineer

Jacob's Carter Burgess

Construction Team

General Contractor

David Weekley

Installation

Flocon

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R-Tank Underground Detention
Tuscany At West 23rd
Houston, Texas



Owner: David Weekley Homes
Architect: David Weekley
Engineer: Jacob's Carter Burgess
Contractor: David Weekley
Site Contractor: Flocon
Detention Volume: 786 CF
Completion: May 2008

Project Background

Empty nesters and Generation X have both helped Houston revitalize the urban living experience by leaving the suburbs and moving to more centrally located areas in town. This transition has home builders like David Weekley looking to capitalize on a city that is littered with acres of real estate that have old dilapidated single family homes and replacing them with three story townhome complexes. Where on a half acre lot once sat a 1930's termite infested home, now sits 7 three story, state of the art townhomes with all the benefits of an urban dwelling.

The Business Case

With the increased imperviousness that comes along with replacing a traditional single family lot with a small town home development, there must be a way to detain water. Townhome development has little room for a detention pond, and not much room for underground storage. Thanks to the R-tank's 95% void space and modular flexibility, it is easy to fit in tight areas and be placed around inlets and other infrastructure.



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About R-Tank

The R-Tank System is a modular storage system that can be used for detention, rainwater harvesting, or ground water recharge. The R-tank's modular design and compact footprint makes it ideal and cost effective for all types of applications.