

CASC Engineering LID/GI Demonstration Site: Stormcrete® Precast Porous Concrete

CASC Engineering & Consulting (CASC) has been providing stormwater management consulting and innovative water quality solutions to local Southern California governments and private industry clients for over 25 years. In 2012, CASC saw an opportunity to upgrade their surrounding landscape and hardscape areas at their headquarters in Colton, CA by incorporating a variety of multi-functional, Low Impact Development / Green Infrastructure (LID/GI) water quality BMP structures and systems. These new LID/GI water quality features would also provide a real-world educational opportunity to CASC's municipal and private clientele in Southern California.

In 2019, CASC approached Porous Technologies, LLC (PT) with an opportunity to increase the number of existing parking lot spaces without increasing impervious hardscape cover. After assisting with the CASC site design for the project, PT provided 450 sq. ft of Stormcrete® Precast Porous Concrete slabs to cover three parking lot spaces located in the central portion of CASC's parking lot.

According to Jeff Endicott, Engineering Director at CASC, "By installing Stormcrete®, we were able to achieve our runoff volume reduction goals for that additional parking area location along with adding a wonderful feature to our already existing 'Green Infrastructure' demonstration site."

The CASC LID/GI Demonstration Site encompasses approximately two acres of land and building area that flows directly into an adjacent street and ultimately, a local creek. With the addition of various LID/GI BMPs, the site is able to reduce or eliminate 80% of all runoff conveyed off site. The demonstration site has previously received numerous awards and has been recognized as an "Outstanding Project" by the California Stormwater Quality Association (CASQA), ASCE Riverside and Los Angeles Chapters as well as featured in various industry publications.

Stormcrete® is a modular porous concrete system that is manufactured in various sizes and configurations. The precast porous concrete slabs are manufactured and "cured" in a controlled environment, allowing for reproducible strength and flow characteristics. What makes Stormcrete® products unique are the lifting points on the surface of the slabs, making them removable and replaceable, this making them easy to place and maintain by end-users.

CASC provides public viewing and training for clients who are interested to learn more about Stormcrete® precast porous concrete along with the other LID/GI demonstration BMPs installed at their facilities in Colton, CA. To learn more or visit the Demonstration site, please contact CASC Engineering & Consulting at <https://cascinc.com/>



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Finished installation



Porous panel placement

