

## PRESS RELEASE

### Northern Colorado Double Tee Load Test

Denver, Colo. (April 18, 2014) - A Colorado double tee load test event was hosted at Colorado Precast Concrete on April 17, 2014, by the Northern division of the Structural Engineers Association of Colorado (SEAC), Colorado Prestressers Association (CPA), Precast/Prestressed Concrete Institute (PCI), National Precast Concrete Association (NPCA) and Grupo Cementos de Chihuahua (GCC). A full size 10DT24+2 double tee was designed for a typical parking garage floor member and was loaded to service level, 85% of ultimate, ultimate, 110% of ultimate, and failure. Testing procedures closely followed Chapter 20 of ACI318.

The objective of the testing was to demonstrate the structural performance of a common double tee while showing deflection and rebound. The tee was loaded with highway barriers weighing 4,400 pounds each, nearly the weight of a 1980 four door Cadillac sedan. The 10-foot wide, 60-foot long double tee was cast at Stresscon's precast plant in Colorado Springs, Colorado.

Weights corresponding to Service Level, 85%, and 110% of a factored 29,300 service load were applied to the tee. At a loading of 85% of ultimate, the double tee had approximately 1 in. of deflection and 1 in. of rebound after the weights were removed. "This clearly shows the resiliency in the product, as well as the factor of safety incorporated into each member", said John Jacobsen, Vice President of Engineering for Stresscon. A total of 88,000 pounds, almost three times the double tee service load, was applied. The double tee had a total deflection of 44 in. and was deemed to have failed when it bottomed out on the ground.

For more information and video of the load test, please visit <https://vimeo.com/94566340>.

#### **About Stresscon Corporation**

Stresscon Corporation designs, fabricates, and erects quality structural and architectural precast concrete structures for the construction communities of Colorado and the Rocky Mountain region. Founded in 1967, and a member of the EnCon Companies since 1993, Stresscon is PCI certified and specializes in institutional and commercial applications. To learn more, visit [www.Stresscon.com](http://www.Stresscon.com).

#### **About The EnCon Companies**

The EnCon Companies are specialty contractors providing precast/prestressed concrete systems and services to all facets of the construction marketplace. In addition to the corporate offices and the design group, EnCon Companies maintains nine manufacturing facilities nationwide. Recognized as one of the leading precast companies in the United States, EnCon is pioneering the use of the latest technology for the design and fabrication of precast structures. For more information, visit [www.EnConUnited.com](http://www.EnConUnited.com).

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