

TECHNICAL BULLETIN

» ROUGH-IN DRAINAGE FIXTURES

FinishLine™

SUBJECT: XL Coring Plug Load Test

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Load Test

The Coring Plug for the FinishLine™ adjustable drainage system (Series 832, 833, and 834) is designed as a temporary, disposable component that takes the place of the floor drain strainer or cleanout cover during building construction. Because the Coring Plug is not a finished strainer or cover, the load rating classifications and requirements of ASME A112.6.3 do not directly apply. However, Sioux Chief conducted an in-house load test on the (9" diameter model) Coring Plug to evaluate its performance under the conditions described below.

The objectives of the load test were to evaluate whether the Coring Plug would:

- Resist complete/structural collapse or displacement through the Coring Sleeve
- Retain its ability to sufficiently cover the Sleeve opening – to protect the opening, threads, and drainage system
- Remain removable (by unthreading) after the load was released

Testing / Results

The Coring Plug was installed in a cast iron FinishLine Coring Sleeve, in a manner representative of a typical installation. The assembly was centered beneath a hydraulic press, equipped with a 3.5" diameter platen. A load of 10,000 lb was then applied to the center of the Plug, held for five seconds, and released.

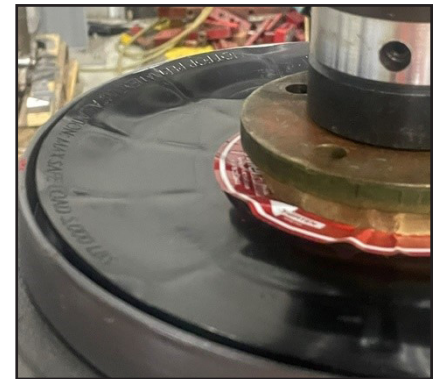
The Plug deformed while the load was being applied and held (top-right). Its outer edges pulled slightly inward from the Sleeve and angled upward, while its center deflected downward.

After the load was released (middle-right), the Plug generally returned to its original shape, covering the Sleeve opening, and remained approximately flush with the edges of the Sleeve.

The Plug was then removed (unthreaded) from the Sleeve and inspected (bottom-right). No cracking or other damage was observed on its top surface; however, cracks were observed in portions of the underside support structure.

Interpretation

While the test described above was not intended to establish a "Load Rating" for the Plug (per the ASME standard), the results indicate that the Coring Plug could sufficiently perform its intended function under the test conditions described. The Plug resisted complete collapse and was not displaced through the Sleeve when subjected to a concentrated load of 10,000 lb for five seconds. After the load was released, the Plug continued to cover the Sleeve opening and could be removed from the Sleeve by unthreading.



Plug under applied load



Plug after load released



Cracks in support structure

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