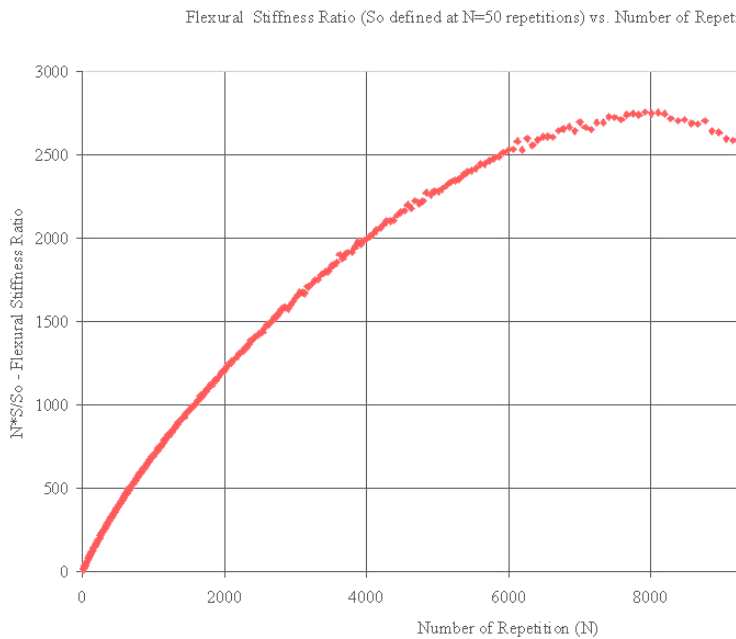


## Beam Flexural Fatigue System (BFFS-H)



- Meets ASTM D7460 and AASHTO T321 standards
- Complete, stand-alone testing system
- 5 kN load capacity at up to 10 Hz
- Designed for 75 mm by 75 mm by 381 mm prismatic specimens
- Environmental chamber to keep temperature constant during testing (5°C to 54°C range)
- Includes 16-bit servo-controller and data acquisition system with software to automatically determine fatigue life parameters

### DESCRIPTION

The GCTS Beam Flexural Fatigue System (BFFS-H) provides a complete solution for Beam Flexural Fatigue tests. A servo-controlled, hydraulic load frame is used to hold HMA beam specimens in four places and apply up to 5 kN loads at up to 10 Hz as required by ASTM and AASHTO testing standards.

A fiberglass environmental chamber is used to keep the temperature of the specimen constant throughout the test. The operator can program the chamber to hold at any temperature between -15°C and 70°C. The chamber is insulated to ensure that the temperature does not change dramatically in the case of a power outage. The environmental chamber is set atop an included table for ease of use.

The BFFS-H utilizes the GCTS SCION to control the testing procedures and to provide data acquisition for the load cell, displacement sensor, and temperature. Our advanced Beam Flexural Fatigue software module allows the operator to easily run pre-defined or user-programmed tests and to quickly view relevant test parameters and reports.