



## SIP No. 2008

**Subject:** Long Duration Structural Loads

**Date:** November 2007

R-Control SIPs have been tested to determine the effects of long duration loading.

A 4-1/2" thick 4' X 10' R-Control SIP was placed on supports at the 4' ends of the panel, creating a 10' span. The R-Control SIP was uniformly loaded to full design load @ L/180 continuously for 30 days (Refer to R-Control SIP Load Design Chart #1). During the 30 day period, mid-span deflection was monitored daily. After 30 days, the load was removed and the mid-span deflection was measured immediately and again 24 hours later. This determined the R-Control SIPs recovery and permanent set. After the 24 hour recovery period, the R-Control SIP was again loaded to full design load for a 30 day monitoring period, which included recovery at the end of the test.

After reviewing the data from the test report the following conclusions were drawn:

The deflections for both 30 day periods were similar.

The deflection for the second thirty day period showed a maximum deflection of .703 inches, slightly over the L/180 deflection value of .667 inches.

When the R-Control SIP was unloaded after each 30 day loading period, the R-Control SIP recovered to within approximately 1/8" of the original position.

This testing demonstrates the performance of R-Control SIPs under long duration loading.



R-Control SIPs are made exclusively with Foam-Control EPS. R-Control SIPs and Foam-Control EPS are manufactured by AFM Corporation licensees.

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