

For this test, Perdue Acoustics cut two identical specimens of mineral wool board from the same shipment. Each was a standard 1" specimen 2 ½" wide and 48" long. Both were gently placed across two tables to measure any natural bow, this gave an accurate account of their SAG. One specimen was then matted with the standard Dura Glass 7511 glass fiber mat. A straight edge suspended between the two tables measured a distance from floor to straight edge in the center at 36 1/8". The first sample, the one without the Dura Glass 7511 glass fiber mat measured a sag of 35" on one side and 34 7/8" on the other side. The sample with the Dura Glass 7511 glass fiber mat measured a sag of 35 ¾" on one side and 35 ¾" when turned over to the other side. The average sag of the specimen without mat was 1 3/16" while the specimen with mat was only 3/8". This is extremely significant when considering that in the field handling of acoustical panels, sag and flop creates delaminating of the fabric to the core and excess sag can thus relate to an unusable acoustical panel. Once the panel is on the wall and fastened securely, sag no longer becomes a factor, but in the handling of these materials, it is critical.