

NaturalPAVE[®] XL Meets Accessibility Requirements



The US Architectural and Transportation Barriers Compliance Board (the Access Board) is responsible for setting standards for wheelchair accessibility. The Access Board, in conjunction with the National Center for Medical Rehabilitation Research, funded research to establish objective standards for surface characteristics that effect trail accessibility, including the relative “Firmness” and “Stability” of outdoor surfaces. A portable testing device, known as a Rotational Penetrometer, was developed as the basis of a general measurement system. This measurement system is able to evaluate the all-important wet weather performance of various trail surfacing materials as well as dry weather performance. Field testing was conducted by Beneficial Designs, Inc., the firm that developed the Rotational Penetrometer measurement device.

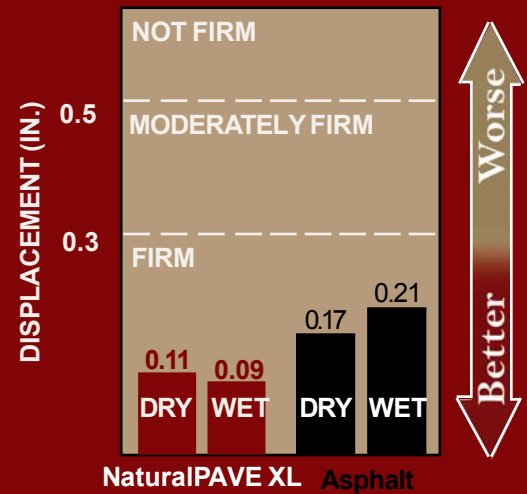
Results of Rotational Penetrometer testing conducted by Beneficial Designs, Inc., on installations of NaturalPAVE XL Resin Pavement[™] and hot mix asphalt pavement are illustrated at right. Both the asphalt and NaturalPAVE XL Resin Pavement surfaces provided very firm and very stable accessible surfaces in all weather conditions. In both dry and wet testing the NaturalPAVE XL Resin Pavement surface performed slightly better than the asphalt pavement surface in Firmness and Stability.

The comparative test results that Beneficial Designs, Inc. obtained from field testing pavements with the Rotational Penetrometer closely parallel test results in pavement materials testing laboratories. When NaturalPAVE XL Resin Pavement mixtures are compared with hot mix asphalt mixtures using the Marshall Stability Test (a traditional asphalt pavement mix design procedure where the stability of the pavement mixture is tested after the pavement specimen is heated to 140° F), NaturalPAVE XL Resin Pavement specimens regularly exhibit Stability values similar to or higher than those typical for asphalt. Stability is a test value that translates into the pavement’s resistance to distortion, displacement, shearing stresses, rutting and shoving.

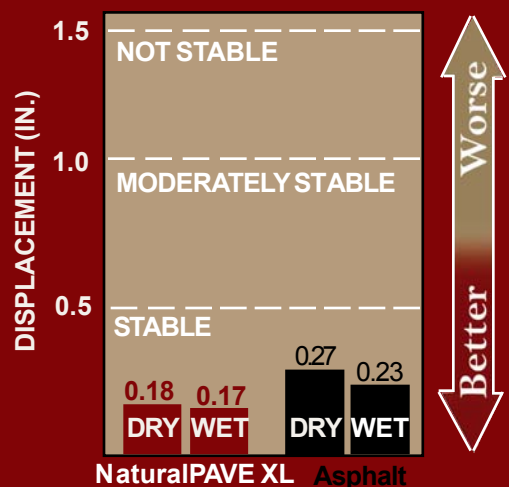
In summary, NaturalPAVE XL Resin Pavement is an appropriate all-weather pavement for handicap accessible applications where smooth joint-free running surfaces similar to asphalt pavement are desired, but with more appropriate natural aesthetics.

Rotational Penetrometer Measurements

SURFACE FIRMNESS



SURFACE STABILITY



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