The Silva Cell can support vehicle loading up to AASHTO H-20 rating of 32,000 lbs. (14,500 kgs) per axle. This rating refers to the ability of a roadway to safely accommodate 3-4 axle vehicles, such as a large semi-truck and trailer.

Loading standards vary worldwide and your particular project may have different needs. Please consult with Deep Root to review and optimize the use of the Silva Cell to your project requirements.

Physical load testing was completed by TRI Environmental in order to determine the ultimate allowable stress of the Silva Cell. The applied stress values from the applied loading on the pavement surface were determined using Sigma/W, a finite element program, for each of the design cases. These values were compared to the ultimate allowable stress (considering a minimum safety factor of 1.45). In all cases, the material self weight is used.

The values in the table to the right are the applied stresses due to various loading scenarios and are calculated based on having the ground surface loads dissipated through the pavement surface.