

## **TURFSTONE SPECS and Fire Truck GVWR**

Turfstone is an ideal product to use for erosion control and water conservation while maintaining vehicle usage. Pacific Interlock Pavingstone manufactures Turfstone according to ASTM standard C-1319 and meets the compression test of 5000 psi in accordance with the testing procedures in ASTM C-42 and C-140.

As stated in the Turfstone Specification Sheet, when properly installed under normal soil conditions the typical Commercial Installation will have the following psi ratings if installed over a base of crushed stone, ½" size.

<u>Depth</u>	<u>PSI rating</u>	<u>Lbs / SqFt</u>
4" depth	80 psi	11,520 psf
6" depth	120 psi	17,280 psf
10" depth	160 psi	23,040 psf

The Dept of Transportation code of regulations regarding Fire Trucks in Title 21; Div 2; Ch 7; Sec 1411.7 gives the following Axle weight configuration

<b>Axle Configuration</b>	<b>Max. allowable weight</b>
Single steering axle	23,000 pounds
Single tiller axle	24,000 pounds
Single drive axle	24,000 pounds
Tandem axles	48,000 pounds
Tridem axles	54,000 pounds

1) A two-axle aerial ladder fire truck and a two-axle aerial water tower fire truck shall not exceed 31,000 pounds on the rear axle. A three-axle aerial platform ladder fire truck shall not exceed 53,000 pounds on the tandem axle assembly. An aerial ladder fire truck, two-vehicle combination, shall not exceed 27,000 pounds on the single-drive axle of the power unit.

2) A pumper fire truck designed to carry a minimum capacity of 1,200 gallons shall not exceed 27,000 pounds on a single drive axle.

Allowing one square foot per tire the following GVWR per SqFt per tire would apply:

Steering Axle:	11,500 psf per tire
Single Tiller Axle	12,000 psf per tire
Single drive axle:	12,000 psf per tire
Tandem axles:	12,000 psf per tire
Tridem axles:	9,000 psf per tire