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**80 MM PAVERS and Fire Truck GVWR**

Using 80 mm pavers is an ideal solution to enhance the surrounding landscape while providing reliable and stable access for emergency vehicles. Pacific Interlock Pavingstone manufactures several 80mm paving stones, including textured stones, according to ASTM standard C-1319 that meet the compression test of 8000 psi in accordance with the testing procedures in ASTM C-42 and C-140.

When installed under normal soil conditions, the typical commercial installation of 80mm paving stones will have the following psi ratings if properly installed over a base of crushed stone that meets the ASTM D 2940 standards

<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

For vehicular traffic applications, the maximum recommended slope is 18% (about 10 degrees).

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