Rainstore3 has been independently field and laboratory tested to meet H-20 Bridge Loading.

Grasspave2, Gravelpave2, and Slopetame2 can withstand 15,940 psi with fill material (109,906 kPa) or 2.29 lbs/sq ft. *

*Tested 3/2015.

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**Dynamic Load Sample Calculation**

Wheel load = \( W_L = 16,000 \text{ lbs} \) (32,000 lb axle / 2)

Dynamic Force = \( F_d = 1.2 \) (20% greater than static force)

Spread Area = \( A = 1496 \text{ si} \) (12” cover w/45 degree angle)

Weight of base = \( d_y = 0.97 \text{ psi} \) (12” road base @ 140 lbs/cf)

\[
\sigma_{va} = \frac{W_L \times F_d}{A} + d_y
\]

\[
\sigma_{va} = \frac{(16,000 \text{ lbs} \times 1.2) \text{ / 1496 si}}{1} + 0.97 \text{ lbs}
\]

\[
\sigma_{va} = 13.8 \text{ psi}
\]

**13.8 psi (95 kPa) on Rainstore3**

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**Surface Pressure**

32,000 for the rear axle

32,000 lbs / 2 tires per rear axle = 16000 lbs

200 square inches contact* (20” x 10”)

16000 lbs / 200 sq inches = 80 psi

**80 psi (552 kPa) static**

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*AASHTO 3.30 Tire Contact Area