

## TECHNICAL DATA

### SUMMARY

SignaRoad is a 100% HDPE heavy-duty composite matting system manufactured by Signature Systems Group, LLC and designed to withstand and distribute extreme weights and rolling loads over a large surface area. SignaRoad is ideal for creating portable roadways and work platforms over sensitive and/or adverse surfaces. SignaRoad incorporates a 4-sided overlapping flange to distribute weights, and an integrated locking system to ensure mats are securely connected together.

### DIMENSIONS

**Length:** 2.08m

**Width:** 3m

**Thickness:** 6.35cm

**Useable surface (platform):** 1.88m x 2.84m

**Useable surface (roadway):** 2.08m x 3m

**Weight:** 218.6kg

### COMPRESSION TESTING\*

SignaRoad has been tested according to a modified ASTM compression test. It has been subjected to an increasing compressive force using a 100mm diameter steel plate (surface area 300 sq mm.), measuring deflection at the increasing loads. These tests were carried out under laboratory conditions with the temperature controlled 20°C.

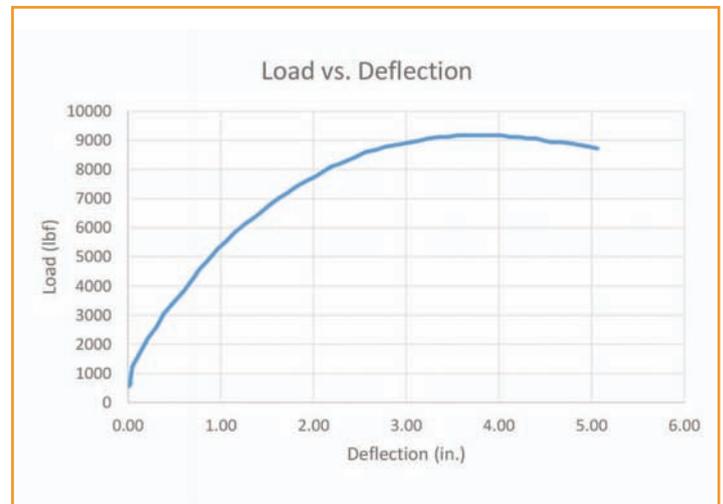


### SURFACE TRACTION

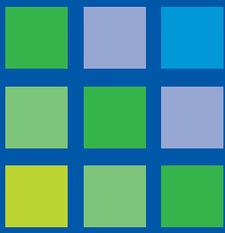
SignaRoad is a dual-sided mat that features a vehicular traction surface on one side and a pedestrian traction surface on the other. Mats can be used on either side and are connectable in any direction.

### FLEXURAL TESTING

SignaRoad was tested according to a modified ASTM-D790 flexural bending test. It has been modified to a 430mm wide sample and supported at 600mm. SignaRoad was then subjected to an increasing bending force, measuring deflection at the increasing loads. Tests were carried out under laboratory conditions with the temperature controlled to 26°C.



\*Note that the compression test was carried out with the SignaRoad sample placed on a smooth, rigid surface. Field measurements will vary due to ground conditions.



# SIGNAROAD™ by SPENCER

Versatile and effective access mat system

## TYPICAL MATERIAL PROPERTIES

### Chemical Resistance

Acids - concentrated

Acids - dilute

Alcohols

Alkalis

Greases and Oils

### Mechanical Properties

Density (g/cm<sup>3</sup>)

Notched Izod Impact ASTM D618a

Impact Resistance ASTM D4226

Water absorption (%)

Color

Odor

### HDPE

Good - Fair

Good

Good

Good

Good - Fair

### Value

1.1

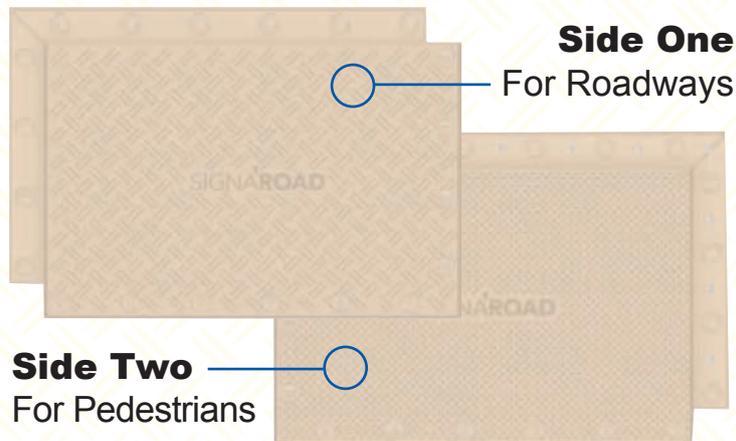
8.05 ft-lb/in (10.91 Nm)

143 in-lb/ft (16.16 Nm)

<0.01

Beige

none



Temporary  
Roadways



Footpaths &  
Accessways



Industrial  
Matting



Event  
Flooring



Working  
Platforms



Military  
Applications

Spencer ECA

Tel: 01559 371534 | Fax: 01559 371926 | Email: [info@spencereca.com](mailto:info@spencereca.com)  
Spencer ECA Limited | Parcau Farm, Penrhiwllan | Llandysul, Ceredigion | SA44 5NW

[www.SpencerECA.com](http://www.SpencerECA.com)