

## Preformed Rubber Speed Cushions - Specifications

### GENERAL

Design Specifications are based on Road Kop preformed speed cushions as manufactured by Road Kare International and distributed by Lake Traffic Solutions.

In order to consistently meet the following specifications, the cushions shall be manufactured in the USA by an ISO 9002 approved company. Other manufacturers may be approved with prior approval from architect/engineer.

### DIMENSIONS

The speed cushions are modular in design with the standard width being 6'6" and standard lengths being 6'8" and 10'0". Both width and length are easily adjustable by adding or changing modules. The speed cushion has a flat top with a height of 3". The entrance and exit ramp gradient is 1 in 10 (max.) and the side ramp gradient is 1 in 4. The entrance, exit and side ramps provide a smooth transition to the pavement with the maximum "step" in this transition not to exceed 1/2".

### MATERIAL

The speed cushion modules are made from 100% recycled rubber and a 2-part polyurethane binder, making the speed cushion impervious to motor fuels, oils, solvents, road salts and outdoor environments. The rubber is obtained from recycled truck and tractor tire treads which are all rubber. The rubber, in fiber form up to 1/2" long, contains no rubber dust, granules or fly that will weaken the product.

Speed cushion modules are compression molded and have the following properties:

- Shore A Hardness - 65 minimum
- Specific Gravity - 1.13
- Skid Resistance - 89 (dry)
- Tensile Strength - 500 p.s.i. minimum
- Deform Rate - None (100% recovery after compression)
- The speed cushions are black in color.
- The standard factory marking (optional) is 2 white reflective arrows made of pavement marking tape and molded into the rubber for long term durability.
- The standard arrows are 16" wide by 27" high.

## INSTALLATION

Modular sections of the speed cushion are linked together with metal dowels to ensure stability and equally distribute stress loading. Modular sections are fastened to the pavement using supplied 10 mm OD stainless steel lag bolts 4 3/4" long and 10 mm stainless steel washers.

- The standard size speed cushion (6' 6" wide x 6' 8" long) fastens to the pavement with forty (40) lag bolts.
- The extended size speed cushion (6' 6" wide x 10' 0" long) uses fifty-four (54) lag bolts.

Galvanized or electro-plated fasteners shall not be acceptable. The lag bolts are inserted into pre-drilled 9/16" OD holes in the pavement that have been filled with the two part quick-set resin just prior to insertion of the high-density polyethylene pavement anchor that is 9/16" OD x 3/8" ID x 4" long.

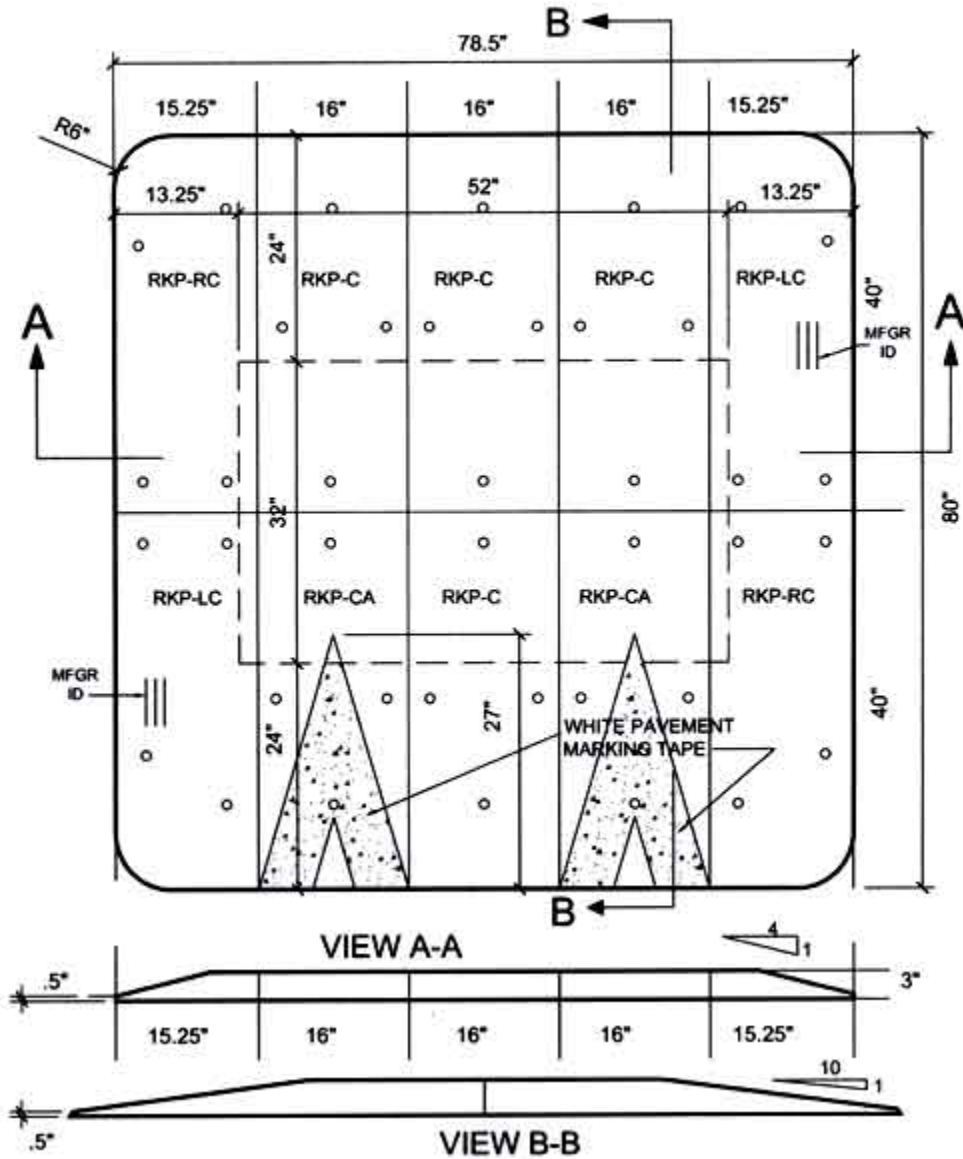
The resin used must set quickly and cure completely in 45 minutes or less at temperatures as low as 68°F (faster at higher temperatures - slower at lower temperatures). This allows the site to be opened to traffic immediately after installation.

Epoxy resin or similar products requiring cure times in excess of 45 minutes shall not be acceptable.

Each hole in the modular section is then filled with a rubber cap after installation to cover the bolt head.

All necessary bolts, washers, anchors, dowels, resin and rubber caps shall be supplied with each speed cushion.

**ROAD KOP SPEED CUSHION**  
OVERALL DIMENSIONS: 6'-6" WIDE x 6'-8" LONG x 3" HI



**ROAD KOP SPEED CUSHION**  
OVERALL DIMENSIONS: 6'-6" WIDE x 10' LONG x 3" HI

