



A Stronger Concrete Deck Truck Scale

Concrete truck scales provide reliable traction in wet or icy weather conditions and resist corrosion—extending the weighbridge's lifespan.

Rice Lake Weighing Systems' SURVIVOR® concrete deck truck scales have greater mass than steel deck scales, resulting in less friction and maintenance.

The neutral axis on a truck scale is the point where no compression or tension occurs when a vehicle is on the weighbridge. In a concrete deck truck scale, this represents the point where concrete shifts from expected compression to damaging tension.

Concrete Deck Truck Scale Design

To prevent concrete deck weighbridge fatigue, SURVIVOR truck scales have a six-inch concrete deck that sits above the neutral axis. The design incorporates galvanized steel sheets with I-beams to ensure concrete stays above the neutral axis. The six-inch concrete deck is supported by a six-inch steel I-beam substructure, providing added strength to the entire module. The concrete is also poured on-site to prevent damage during shipping.



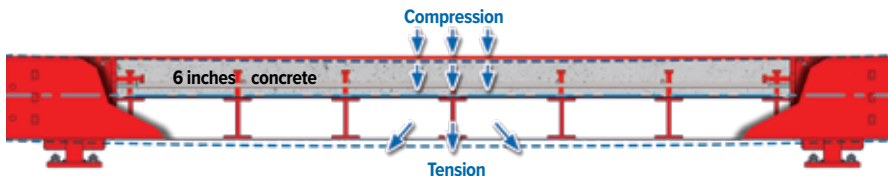
HEADQUARTERS

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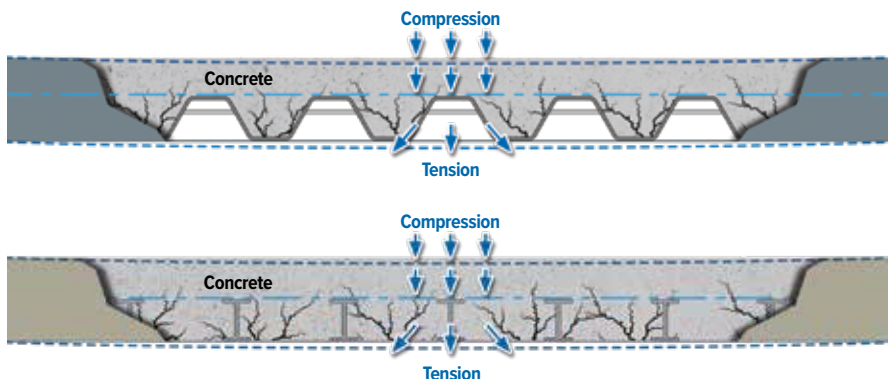
The concrete deck usually requires about 30 days for the concrete to cure and the scale to be completely finished. Some manufacturers pre-pour the concrete deck so it can be shipped as a complete unit. However, pouring the concrete after installation reduces shipping costs and helps ensure the scale doesn't get damaged during shipping.

SURVIVOR Truck Scale



If a concrete deck truck scale is manufactured with less steel and a 10- or 12-inch concrete deck, cracks can form in the concrete after only a short amount of time. When a vehicle drives onto the scale, force compresses the concrete. As concrete above the truck scale's neutral axis is compressed, concrete below the neutral axis is forced to expand to release tension, creating cracks. Cracks in the concrete can not only cause weighbridge failure but also make the truck scale unsafe.

Other Truck Scale Brands



Concrete Deck

Foundation Prep and Finishing

2 Days

Foundation Concrete*

1-2 Days

Scale Installation

For two technicians

2 Days

Concrete Deck Cure

Number of days depends on the concrete

2-28 Days

Initial Calibration

2 Hours

Rice Lake Weighing Systems' SURVIVOR truck scales are available with either steel or concrete decks. Discuss your application with your truck scale dealer to find a truck scale that will best suit your needs.