

# Low Profile Modular Rail Scale Requirements

When planning your site for the installation of a Rice Lake rail scale, there are many variables to consider. Site preparations vary depending on soil conditions, tangent tracks, platform configurations or adaptations for Legal for Trade applications. Taking the time to ensure that your site meets these requirements before installation can avoid complications and additional costs down the line.

For more information, visit [www.ricelake.com/railscales](http://www.ricelake.com/railscales).

## Tangent Track

75 ft of tangent track beyond approaches needs to be straight and level.

## Rail Base Plates

Support plates for approach and intermediate rail.

## Scale Platform One

Scale platform lengths are determined by the rail car dimensions.

## Intermediate Section

The intermediate or "dead section" length is based on the rail car truck spacing or axle spacing.

## Scale Platform Two

Scale platform lengths are determined by the rail car dimensions.

## Epoxy Grout

Epoxy grout for stands and rail base plates must be non-shrinking and a minimum of 9,000 psi.

## Concrete Approach

25 ft of concrete approaches are built on each end of the scale system. 50 ft of concrete approaches are needed for Legal for Trade, double draft scale systems.

## Rail Size

For Legal for Trade applications, rail size must be a minimum of 115 AAR rail, and cut at a 45° angle from the scale to the approach.

## Configurations

Multiple configurations are available to accommodate a wide range of rail car dimensions. Configurations include: single, double, single/single, single/double, and double/double.

## Miter Cut Joint

Miter joints allow for a smooth transition between scale platforms and rail.

## Soil Conditions

Soil-bearing capacity for the scale and approach aprons must be at least 4,000 lb/ft<sup>2</sup>.

## Anti-creep Hardware

The placement of anti-creep hardware prevents any longitudinal movement of the rails in the track.