Avery Weigh-Tronix

# Modular Railroad Track Scale Application Data Sheet

**The plans for all railroad track scales intended for certified applications must be approved by the servicing railroad prior to construction.**

**This is the installing distributor's responsibility.**

Most servicing railroads require the following: dimensioned site plans showing location of scale, a soil report (usually provided by customer), foundation plans, scale plans and copy of NTEP COC if applicable.

1. End user _____

   Site location _____

   Zip _____

   Contact _____

   Phone _____

2. Servicing railroad _____

   Contact _____

   Phone _____

### 3. Selecting the Correct Model

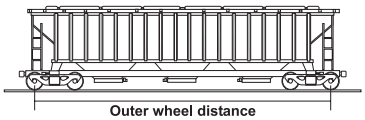
This depends on the range of rail car sizes to be weighed. The procedure should be as follows assuming that all cars have 2 standard, 2-axle trucks. A leeway of 6" for spotting the cars is allowed.

If cars with more than 4 axles are to be weighed, please refer to Weigh-Tronix for assistance.

- Using the illustration, define the distance between the outer wheels of the longest car and the distance between the outer wheels of the shortest car. If only the truck center dimensions are available add 6' to the truck center dimension.
- Subtract the shortest (B) from the longest (A) to give the difference C.
  - If C is less than 11' then use two 12'6" scales.
  - If C is greater than 11' but less than 24' then use one 12'6" scale and one 26' scale. This range assumes that the rear truck is always weighed on the 12'6" platform.
  - If C is greater than 24' but less than 37' then use two 26' scales. This range assumes both ends of the car will be uncoupled.
- Please complete the following formula:

Use the center of the outer wheel to determine car length.

Longest car (A) ___ ft ___ in
minus
Shortest car (B) ___ ft ___ in
equals (C) ___ ft ___ in




### 4. Site Application Data

- How are cars moved onto the scale?

Locomotive _____ Track mobile _____
Car puller _____ Other _____
Cars are pushed _____ Pulled _____

Note: For the most accurate weighing, cars should be detached from car moving device and uncoupled at both ends.

- AREA scale handbook specifies the following:
  - (a) There should be at least 75 ft of tangent track either side of the weigh rails.
  - (b) Soil beneath foundations should have a bearing capacity of at least 4,000 lbs. per sq.ft.
  - (c) At least 25 ft of concrete approaches either side of the scale and in the same plane, shall be provided.
  - (d) Adequate drainage must be provided. (With the standard ”no side wall” design, bottom of scale pit should be above prevailing grade.)
  - (e) Rail should be consistent with surrounding track but must not be less than 115 lb. Rail for a minimum of 15’ either side of weigh rail shall be the same as the weigh rail.

Does the site meet all the above criteria? _____

If ”NO” explain _____

_____

_____

_____

Under certain circumstances the servicing railroad may waive one or more of the above requirements

- Site gradient

**5. Instrumentation Considerations**

- Distance from scale to indicator location ft.
- Products being weighed, liquid? Solid? (Special filtering options are recommended when weighing liquids.)
- Data entry requirements:

____ Car number ____ Alpha numeric

____ Numeric only ____ Tare weight

____ Product code ____ Other

- Print out and reporting requirements:

  Define _____

_____

_____

_____

_____

- Is scale associated with a loading ____ or unloading ____ facility?

If loading, are cut-off facilities required?

Define _____

_____

_____

_____

- Automatic Equipment Identification (A.E.I.) A.E.I. interface required? _____

  Supplier of A.E.I. equipment? _____

_____

**Standard Scale & Supply Company**
**25421 Glendale Avenue**
**Redford, MI 48239**
**313-255-6700**
**www.standardscale.com**

Avery Weigh-Tronix

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