

## Recommended Setups for Vehicle Weighing



### WHEEL LOAD SCALES

When using wheel load scales, including the PT300™, PT300DW™ and LP600™, Intercomp recommends that an axle group be on the same plane. All axles in a group, including dual, triple and spread axles, should be at the same level as the axles on the pads, either supported by another scale pad or a leveling pad.

#### System Benefits:

- Portable, Cost-Effective Method to Weigh Vehicles
- Axle Weights Easily Obtained
- Accurate Weights on Multiple Surfaces

#### How To:

1. Stop Vehicle and place scale pads just ahead of wheels to weigh
2. Drive up onto pads and stop before driving over pads
3. Read weights on scale display or RFX® Wireless Weighing indicator



### STATIC WHEEL LOAD SCALES WITH LEVELERS/RAMPS

Portable levelers allow collection of axle weights and Gross Vehicle Weight (GVW) using only two scale pads. The levelers keep various axle groups on a level plane when crossing the scales.

#### System Benefits:

- Levelers Allow for More Accurate Weights When Using only Two Scale Pads
- More Efficient Throughput with Drive-On/ Drive-Off Capability
- Ideal for Mobile Check Weighing Operations

#### How To:

1. Place scale pads, one on each side of vehicle, to accommodate vehicle width
2. Install drive-on and drive-off ramps
3. Drive vehicle on to scale, stopping on each axle
4. Collect weight data for each axle & accumulate to determine GVW



### DYNAMIC AXLE SCALES

Collects accurate axle weights and computes Gross Vehicle Weight (GVW) while a vehicle remains in motion. Levelers/Ramps keep axle group on a level plane when crossing scale pads.

#### System Benefits:

- Smaller Footprint than Full-Length Truck Scales
- Axle, GVW and Side Weights Easily Collected
- In-Ground and Portable Options Available
- Saves on Additional Fuel Being Burned by Vehicle Idling While in Line

#### How To:

1. Deploy portable pads, levelers and indicator for portable system; or activate in-ground system
2. Approach scale at required speed and continue over scale system at a constant speed
3. Axle weights collected in real time as vehicle passes over pads
4. Access or save automatically accumulated GVW and individual axle weight data



### STATIC AXLE WEIGHBRIDGES

Semi-portable axle weighbridge modules can be utilized to measure single axles or obtain axle group weights. Modules can be matched to accommodate virtually any axle group configuration.

#### System Benefits:

- Semi-Portable Design Minimizes Space Needed for Weighing
- More Efficient Throughput with Drive-On/ Drive-Off Capability
- Possible to Integrate with Existing Scale Indicators

#### How To:

1. Place scale pads, one on each side of vehicle, to accommodate vehicle width
2. Drive vehicle on to scale, stopping on each axle or axle group
3. Collect weight data for each axle/axle group or accumulate for GVW

#### Tri-Axle – 14' Example Scale Configuration



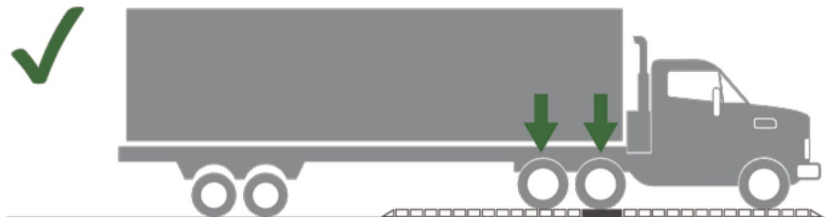
#### Dual-Axle – 7' Example Scale Configuration



## LEVELING RAMP CONSIDERATIONS

When using wheel load or axle scales, Intercomp recommends axle groups, all axles within 10 feet (3 meters), are on level plane with the scale pad. In other words, even those axles *not* on a scale, must be at the same height as those on the scale. Intercomp Roll-Up Ramps/Levelers (part # 160165 & 160168) allow for accurate weighing while being easy to transport and store.

- Standard Semi-Truck configuration consists of three axle groups: Semi-Tractor Steer Axle, Semi-Tractor Dual Axle & Semi-Trailer Dual Axle
- When scales are deployed, consider variables like space needed for vehicle approach, departure and any height restrictions
- Below are examples of how scales should, and should not, be set up

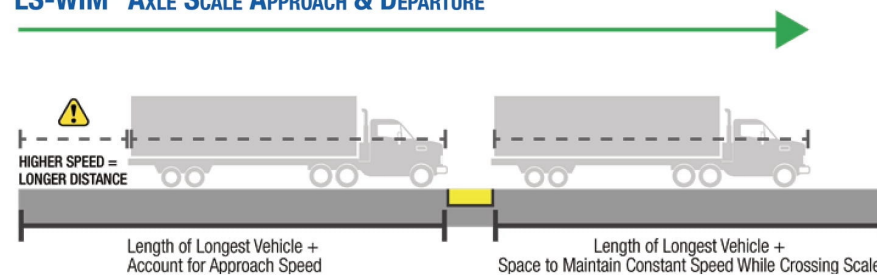


## IN-GROUND SCALE INSTALLATION

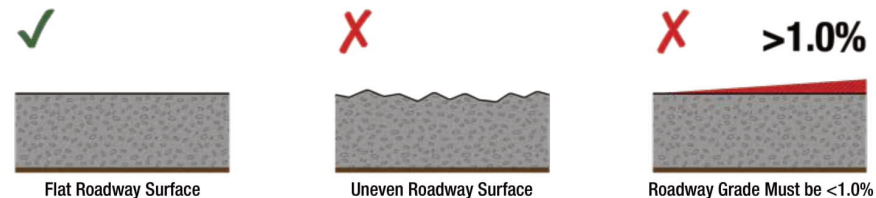
### Key Factors to Consider When Planning a Site

1. Length of Vehicles to be Weighed
2. Speed of Vehicles to be Weighed
3. Roadway Approach Distance (Vehicle Length plus Approach Speed Length)
4. Roadway Departure Distance (Vehicle Length plus Recovery Speed Length)

## LS-WIM® AXLE SCALE APPROACH & DEPARTURE



## PAVEMENT SURFACE CONDITIONS FOR INSTALLATION



## LS-WIM SCALE LEVEL

