



BridgeMont BMS steel deck road weighbridge

Technical Specification

DESCRIPTION

General

Non self-contained, flat-top steel road weighbridge design for either pit or surface mounting.

Platform Structure

Modular construction, normally comprising one, two, or three modules. (Up to 24 m, 100 tonne capacity).

Mild steel sandwich design consisting of top steel plate, 11 main longitudinal beams, and lower longitudinal strips positioned between end boxes containing the Weigh Bar weigh sensors.

Platform plates have a skid resistant surface.

The first (base) module has four Weigh Bars supporting it. Subsequent add-on modules have two Weigh Bars.

Cables are routed through conduit secured to the weighbridge structure.

Weighbridge Restraint

The design is arranged for the pin stands to act as bumper stops. No adjustments are required.

Weigh Bars

Avery Weigh-Tronix 23 tonne Weigh Bars are fitted to this range of weighbridges. Cables are run to a local junction box in the module.

These are then interconnected and a cable is run to the indicator in the weigh office.

Surge arrestors are provided in the junction box.

Free Motion

The Weigh Bars are joined to the foundation stands by swinging links, which provide a free motion characteristic to the design.

Indicator Systems

All Avery Weigh-Tronix standard indicators designed for weighbridge applications are suitable to use with this range of weighbridges.

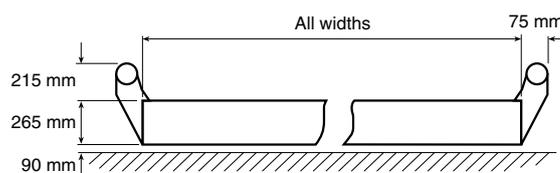
SPECIFICATION

Weighbridge Sizes & Capacities

| Platform Size | Capacity | No. of Modules |
|---------------|-----------|----------------|
| 6 m x 3.35 m | 30 000 kg | 1 |
| 9 m x 3.35 m | 30 000 kg | 1 |
| 12 m x 3.35 m | 60 000 kg | 2 |
| 15 m x 3.35 m | 60 000 kg | 2 |
| 18 m x 3.35 m | 60 000 kg | 2 |
| 20 m x 3.35 m | 90 000 kg | 3 |
| 22 m x 3.35 m | 90 000 kg | 3 |
| 24 m x 3.35 m | 90 000 kg | 3 |

Complies with requirements of EN 45501.

Platform Dimensions



Strength

All sizes are designed to carry any vehicle covered by the Motor Vehicles (Construction and Use) Regulations.

Although many vehicles not covered by regulations with regard to axle loading and spacing may be carried by the weighbridge, it is important that confirmation be obtained.



BridgeMont BMS Steel Deck Road Weighbridge

Finish

A high performance water thinnable anti-corrosive primer, with a dry film thickness of 50 microns (dft) is used. This provides excellent levels of adhesion and corrosion protection.

The weighbridge is finished to a minimum thickness of 50 micron (dft), with a gloss water based, modified alkyd resin giving good drying and hardness properties.

Approvals

The basic construction, Weigh Bars and free-motion mounting, etc., are in accordance with the requirements of OIML and EU regulations.

Environment

Resistance to Dirt and Moisture – Consistent with conditions pertaining to well drained outdoor installation.

Resistance to Electrical Disturbances – Complies with the requirements of EN 45501.

Operating Temperature Range – -20° C to + 50° C depending on applicable Weights and Measures Regulations.

Installation & Access

Either surface or pit mounted foundations can be supplied for these weighbridges.

Service access for Weigh Bar and mounting maintenance is via access covers through the top of the weighbridge.

Options

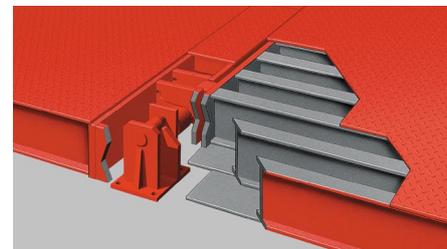
- Heavy duty version for 18000 kg dual tandem axles.
- Suitable steel ramps.
- Manhole frame and cover for pit mounted installations.
- Stainless steel sheathed cable.

Foundation Drawings

| Description | Width | Drawing Number |
|----------------------------|--------|----------------|
| Surface Mount One Module | 3.00 m | 83211 – 251 |
| | 3.35 m | 83211 – 252 |
| | 3.65 m | 83211 – 253 |
| Surface Mount Two Module | 3.00 m | 83211 – 254 |
| | 3.35 m | 83211 – 255 |
| | 3.65 m | 83211 – 256 |
| Surface Mount Three Module | 3.00 m | 83211 – 257 |
| | 3.35 m | 83211 – 258 |
| | 3.65 m | 83211 – 259 |
| Pit Mount One Module | 3.00 m | 83211 – 260 |
| | 3.35 m | 83211 – 261 |
| | 3.65 m | 83211 – 262 |
| Pit Mount Two Module | 3.00 m | 83211 – 263 |
| | 3.35 m | 83211 – 264 |
| | 3.65 m | 83211 – 265 |
| Pit Mount Three Module | 3.00 m | 83211 – 266 |
| | 3.35 m | 83211 – 267 |
| | 3.65 m | 83211 – 268 |

Shipping Weight *(approximate weight of standard modules with guide rails)*

| Platform Size | Base (Length) | Add-on 1 (Length) | Add-on 2 (Length) |
|---------------|-----------------|-------------------|-------------------|
| 6 m x 3 m | 3230 kg | | |
| 9 m x 3 m | 5050 kg | | |
| 12 m x 3 m | 3230 kg (6 m) | 3030 kg (6 m) | |
| 15 m x 3 m | 3940 kg (7.5 m) | 3735 kg (7.5 m) | |
| 18 m x 3 m | 5050 kg (9 m) | 4850 kg (9 m) | |
| 20 m x 3 m | 3230 kg (6 m) | 3505 kg (7 m) | 3505 kg (7 m) |
| 22 m x 3 m | 4180 kg (8 m) | 3505 kg (7 m) | 3505 kg (7 m) |
| 24 m x 3 m | 4180 kg (8 m) | 3970 kg (8 m) | 3970 kg (8 m) |
| 6 m x 3.35 m | 3660 kg | | |
| 9 m x 3.35 m | 5730 kg | | |
| 12 m x 3.35 m | 3660 kg (6 m) | 3435 kg (6 m) | |
| 15 m x 3.35 m | 4465 kg (7.5 m) | 4240 kg (7.5 m) | |
| 18 m x 3.35 m | 5730 kg (9 m) | 5510 kg (9 m) | |
| 20 m x 3.35 m | 3660 kg (6 m) | 3980 kg (7 m) | 3980 kg (7 m) |
| 22 m x 3.35 m | 4735 kg (8 m) | 3980 kg (7 m) | 3980 kg (7 m) |
| 24 m x 3.35 m | 4735 kg (8 m) | 4515 kg (8 m) | 4516 kg (8 m) |



Weighbridge construction



Weigh Bar installation

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