An exceptional design, which is based on the most advanced calculation and construction techniques.

**METAL**

**NORMAL-DUTY**

Welded structure longitudinal and transverse flanged. 6mm thick chequer plate running surface. Platform height 25cm. Optionally chequer plate covers and guide rails.

### Technical specification

<table>
<thead>
<tr>
<th>Length* [m]</th>
<th>16</th>
<th>18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Platform</td>
<td>METAL</td>
<td>METAL</td>
</tr>
<tr>
<td>Capacity [t]</td>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td>CLC [K]</td>
<td>70</td>
<td>70</td>
</tr>
<tr>
<td>Deflection f [mm]</td>
<td>1:950</td>
<td>1:900</td>
</tr>
<tr>
<td>Height H [cm]</td>
<td>25</td>
<td>25</td>
</tr>
<tr>
<td>Consumptions [t]</td>
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<td></td>
</tr>
<tr>
<td>metal [t]</td>
<td>6.5</td>
<td>7.3</td>
</tr>
<tr>
<td>prefabricated concrete [m³]</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>poured on-site concrete [m³]</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

*Optionally: 9, 10, 12, 14, 20, 22, 24m / Standard active width: 3m

**6 modules**

**8 loadcells**

> remarkable qualities of a fully steel construction, robust and low-profile; H=25cm.

> optionally, guide rails

> top model
The steel I-beam design is recommended as “best practice” by the most qualified international authorities in transportation and road and bridge construction (the weighbridge being similar to a bridge-structure).

Besides, FLINTAB’s weighbridge design excludes closed spaces in which excessive humidity may create corrosion. The deck’s height is only 25cm and the free space from the ground is maximum 10cm. The steel structure is minimum 20% heavier than that of low-cost competitor’s, providing a deflection less than 1:700. Any other support structure, used by many other manufacturers in order to cut the metal content and implicitly cut the price, results in two negative effects:

- a higher deck (almost the double) which involves longer ramps: increased cost of civil works/larger concrete quantity and a waste of space
- indirectly, the lack of the side beams, which removes the protection against the vehicle sliding over the side of the platform from a height of approximately 50cm.
### MIDDLE CARRIAGEABLE COVERS

For the inner longitudinal space between the modules, optionally we deliver chequer plate covers 300x1720mm and 6mm thick.

### RESTRAINING SYSTEM

- Two pivots at each end of the platform for absorbing the transverse forces
- Two central pivots for absorbing the longitudinal forces

### ANTI-CORROSION PROTECTION

- Sandblasting grit with GRACO device in a special unique-purpose room
- Airless painting, final layer thickness of minimum 120 microns
- 2 primer layers, minimum 60 microns thickness, anti-corrosion epoxy and polyamineamide resin, organic additives and solvents
- 2 ACRILIN E paint layers, final thickness of minimum 60 microns

**Protected against accidental collisions, rodents, multiple freezing/unfreezing cycles.**

**Protection against vandalism or unauthorized access.**

### CABLES

- Loadcell and junction box

### LOADCELLS AND JUNCTION BOX

- Protected against accidental collisions, rodents, multiple freezing/unfreezing cycles.

### INSTALLATION

**CHOOSING THE INSTALLATION PLACE**

- All truck or vehicle combinations turn in a circular motion with an outer radius of 12.5m and an inner radius of 5.3m.

**FIXED OR MOBILE INSTALLATION?**

The answer lies in the time period in which the weighbridge will be located in the chosen place: fixed means years, mobile means months.

**Pages 4/5 deal with this subject in detail.**

### ABOVE GROUND INSTALLATION

- A simple foundation, costs less
- Round around the platform inspection only
- Fast and easy cleaning, with a pressure water hose, from platform side
- Simple repair: from above the platform
- Ramps occupy supplementary space

**Platform length**

- **16m** for articulated vehicles: the maximum distance between the outer axles is 13m
- **18m** for vehicle assemblies: the maximum distance between the outer axles is 15.5m (the difference in values consists of needed manoeuvre space)

**Maximum capacity**

- **60t for CLC=70K**
The FLINTAB weighbridge foundations are designed for normal ground conditions, with conventional pressures $p \geq 250$KPa.

**POS**

POURED ON SITE
GREEN FIELD, COBBLED OR GRAVELED ROAD

Four reinforced concrete beams with metallic elements embedded in the eight support points. Thin concrete layer between these concrete beams. The weighing platform is supported on the foundation using special loadcell mounting kits. Concrete ramps.

**PER**

POURED ON EXISTING ROAD
POOR CONCRETE ROAD, CRACKED OR SUBSIDED

Reinforced concrete plate 10..20cm thick with metallic elements embedded in the eight support points. The weighing platform is supported on the foundation using special loadcell mounting kits. Concrete ramps.
A well designed and built foundation guarantees the metrological performance of the weighbridge and the integrity of the weighbridge structure. It can be built by the client himself or by a local construction company or be contracted to FLINTAB as part of a TURN-KEY job.

**P+DOR**  
CONCRETE PLATE + DIRECT ON ROAD  
POOR CONCRETE ROAD, CRACKED OR SUBSIDED

Reinforced concrete slab of minimum 8cm thickness. On this surface, the support elements for the loadcell special mounting kits are installed using M16 double threaded bolts with chemical fixing. Metallic or concrete ramps.

**DOR**  
DIRECT ON ROAD  
PLANE CONCRETE ROAD FOR HEAVY TRAFFIC

Concrete plate thickness: >25cm. Surface level deviation: <5mm. On this surface, the support elements for the loadcell special mounting kits are installed using M16 double threaded bolts with chemical fixing. Concrete prefabricated ramps.
FLINTAB owns a factory with two manufacturing halls, with precise and tested processes.

The FLINTAB fabrication and assembly site covers an area of 14000m$^2$ with two main halls 2000m$^2$ each and inside/outside storage areas of 8000m$^2$, equipped with 6 indoor and outdoor lifting facilities.

- modern devices for thermal cutting of the sub-assemblies
- manual cutting devices and semi-automatic oxygen and plasma devices
- hydraulic guillotine and abkant
- rolling and straightening devices
- multifunctional machine for cutting, punching (embossing), cutting up metallic sheets and profiles
- automatic saw for cutting metallic profiles
- belt polishing devices
- machine for cutting and bending reinforcement bars
- metallic processing on machine tools: radius perforate machines, universal milling machines and CNC lathes (Computer Numerical Controlled)
- welding equipment with coated electrode and synergic welding wire devices based on inverter technology
- sandblasting machine and airless painting machine
FLINTAB
Engineers and Constructors
Experience 20 years
Warranty 10 years
References 1200 weighbridges

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