RAMPS BRIDGES AND TAIL LIFTS



able to meet professional requirements for loading and unloading vehicles and equipment, particularly those of logistics companies, differences, our range of standard or customised products is sure to goods transport vehicle suppliers and truck/trailer manufacturers. With the ability to move vehicles weighing between 300 kg and of quality, durability and safety.

The range of ramps, bridges and tail lifts produced by Metalmec is 7500 kg (manual pallet trucks, electric pallet trucks, forklifts, etc.), whatever your needs for overcoming positive or negative height provide you with a solution that will guarantee you the best in terms

HOW TO DETERMINE THE LENGTH OF THE BRIDGE OR TAIL LIFT

During use, the inclination (α) of the bridge or tail lift must not exceed a maximum slope of 12.5% (in accordance with the UNI EN 1398:2009 standard). In order to establish the minimum length (L) of the bridge or tail lift to a good approximation, apply the following formula:

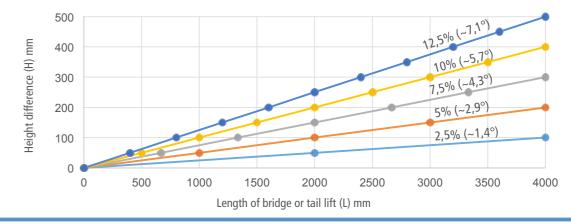
LENGTH OF BRIDGE OR	HEIGHT DIFFERENCE IN MILLIMETRES (H) X 10
TAIL LIFT IN	% MAXIMUM SLOPE (α)
MILLIMETRES (L)	

Height difference (H) refers to the height of the loading bed from the fulcrum of the bridge or tail lift.

The maximum slope (α) depends on the vehicle used during the loading and unloading activity. In this respect we recommend, for EXAMPLE: Let's assume we need to overcome a height difference (H) of 100 mm using an electric pallet truck. By applying the formula indicated above, we obtain: LENGTH OF BRIDGE OR TAIL LIFT IN select a bridge or tail lift with a minimum length of 1250 mm.

safe operation, the following maximum slopes based on some of the vehicles used in logistics: 4% for manual pallet trucks, 8% for walk-behind electric pallet MILLIMETRES (L) = 100 mm x 100 / 8 = 1250 mm You must therefore trucks and 12% for electric ride-on forklifts.

The diagram clearly shows the dimensions used to determine the length of the bridge or tail lift and their interrelationships expressed by the formula above.



NOTES

• In order to ensure a minimum safety clearance on each side of the transport • For the MS040B and MS040BF loading bridges, a loading dock vehicle, the width of the bridge or tail lift must be at least 0.70 m greater than foundation strength greater than 3.2 kg/cm² is advised. the track width of the vehicle in transit/transport, and in any event not less • If the loading dock foundation is made of concrete or similar, a minimum than 1.25 m (in accordance with the UNI EN 1398:2009 standard). In order strength class of C25/30 is advised, which means the concrete has to ensure greater safety conditions for the operators, it is recommended to $Fck = 25 \text{ N/mm}^2$ and $Rck = 30 \text{ N/mm}^2$ (in accordance with the use a bridge or tail lift with a width equal to that of the vehicle's loading bed. UNI EN 206-1:2006 and UNI 11104:2004 standards).

• The support ends or "heads" must rest on at least 0.10 m of the loading/ • The instructions for use and maintenance are described in the instruction unloading dock and loading bed of the vehicle. and warning manual supplied with the product.

• Transit is only permitted for vehicles with rubber wheels or tracks.

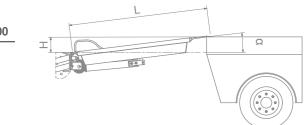
• Transit is strictly prohibited to any vehicles with metal tracks or metal parts that could come into contact with the structure of the bridge or tail lift.

• For all information regulating the supply of these products, please refer • For the MS040G loading bridges, a loading dock foundation strength to the manufacturer's General Conditions of Sale at the following website: greater than 1.6 kg/cm² is advised. www.metalmecsrl.it

OPTIONS

• The guide rail is available on request in 3 m long bars of rough, non-galvanised

product pages (width B greater than or equal to 1250 mm, in accordance with the UNI EN 1398:2009 standard). If you require products with different dimensions from those • Bridges and tail lifts are available in the dimensions shown on the following stated, please contact us directly.



• The manufacturer's declaration of conformity is an integral part of the instruction and warning manual.