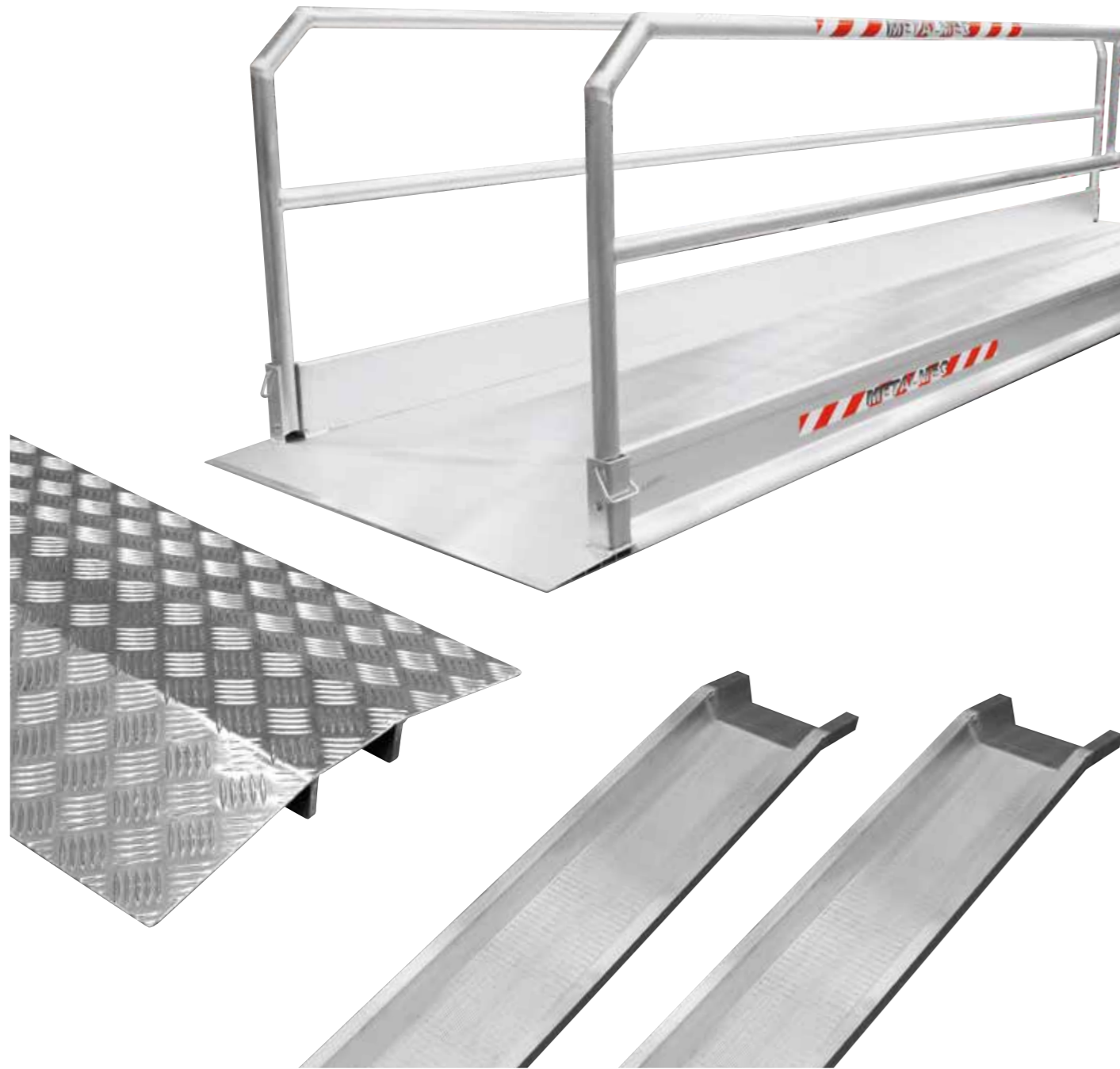


RAMPS AND GANGWAYS FOR OVERCOMING ARCHITECTURAL BARRIERS



The solutions offered by Metalmecc are able to guarantee accessibility and passage over architectural barriers (or temporary/permanent physical obstacles that hinder people's movements, particularly those who suffer from reduced or impaired mobility) both in private residential buildings and in public spaces. Whatever your needs for overcoming obstacles or height differences, our range of standard or customised products is sure to provide you with a solution that guarantees you the best in terms of quality, durability and safety.

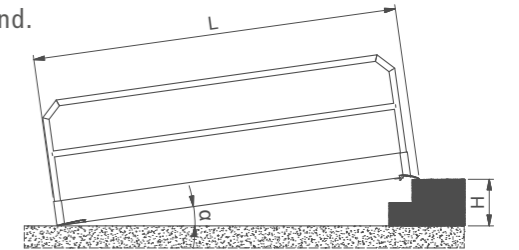
HOW TO DETERMINE THE LENGTH OF THE RAMP

During use, the inclination (α) of the ramp must not exceed a maximum slope of 8% (in accordance with Italian Legislative Decree no. 13 of 09.01.1989 and Ministerial Decree no. 236 of 14.06.1989). In order to establish the minimum length (L) to a good approximation, apply the following formula:

$$\text{RAMP LENGTH IN MILLIMETRES (L)} = \frac{\text{HEIGHT DIFFERENCE IN MILLIMETRES (H)} \times 100}{\% \text{ MAXIMUM SLOPE } (\alpha)}$$

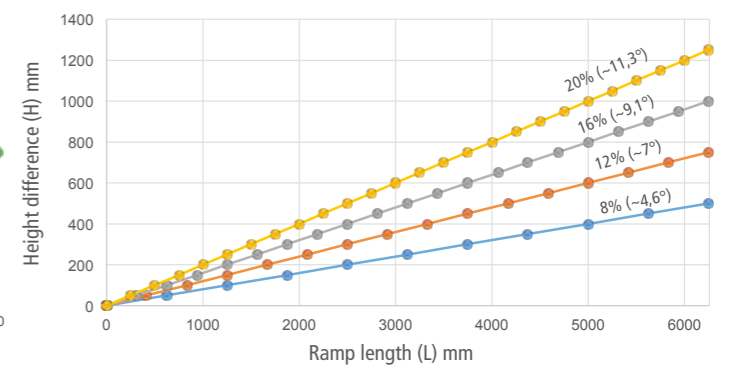
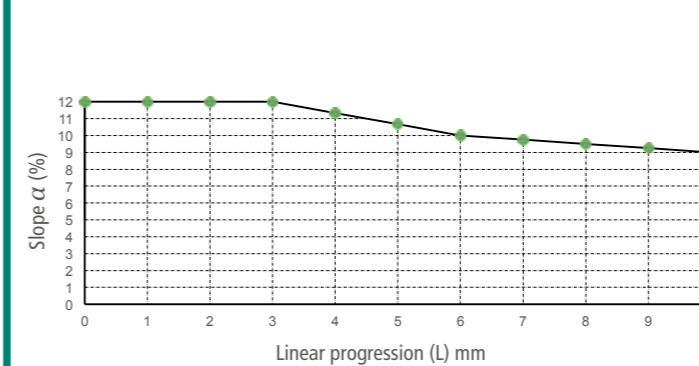
Height difference (H) refers to the height of the obstacle from the ground.

EXAMPLE: Let's assume we need to overcome a height difference (H) of 200 mm. By applying the formula indicated above, we obtain:
 RAMP LENGTH IN MILLIMETRES (L) = 200 mm x 100 / 8 = 2500 mm
 A ramp with a minimum length of 2500 mm must therefore be selected.



In case of adaptation, the aforementioned Italian regulation allows for steeper slopes in relation to the linear progression of the ramp. However, the ratio between slope and length must be of a lower value than what is shown by the interpolation line on the following graph (example: in case of adaptation, a maximum slope of 12% is permitted for lengths equal to or less than 3000 mm).

The following diagram clearly shows the dimensions used to determine the length of the ramps and their interrelationships expressed by the formula above.



NOTES

- Our gangways meet the requirements of Italian Legislative Decree no. 13 of 09.01.1989 and Ministerial Decree no. 236 of 14.06.1989.
- There must be a minimum support of 0.33 m at each end of the gangway.
- Transit on the driveways is only permitted for vehicles with rubber wheels or tracks.
- Use the driveways for wheeled vehicles that have a minimum wheel width of 0.2 x 0.2 m.
- Use the driveways for tracked vehicles that have a minimum track width of 0.2 m.
- Transit is strictly prohibited to any vehicles with metal tracks or metal parts that could come into contact with the structure of the driveway.
- For the driveways, the maximum distribution permitted on the vehicle's front and rear axles is 40% - 60% respectively (50% - 50% is considered ideal).
- The instructions for use and maintenance are described in the instruction and warning manual supplied with the product.
- The manufacturer's declaration of conformity is an integral part of the instruction and warning manual.
- For all information regulating the supply of these products, please refer to the manufacturer's General Conditions of Sale at the following website: www.metalmeccsrl.it.

OPTIONS

- Items are available in the dimensions specified on the following product pages. If you require products with different dimensions from those stated, please contact us directly.