

Pedestrian Bridge:

Width	2000mm
Parapet Height	1150mm (1500mm over railway)



The dimensional requirements for footbridges are set out in the following British codes of practise:-

BD29/04	Design criteria for footbridges
BS7818: 1995	Specification for pedestrian restraint systems in metal
TD 19/06	Requirement for Road restraint systems

Parapet Geometry

The parapet height is as described in the text on the left.

Vertical Infill bars in metal parapets must maintain a gap of less than 110mm between each infill bar. The maximum height of opening between the walking surface and the underside of the lowest rail should be not more than 100mm.

The nominal post spacing should be 2000mm or less

Handrail Requirements

A specific handrail is required if the gradient of the ramp is greater than 1:20.

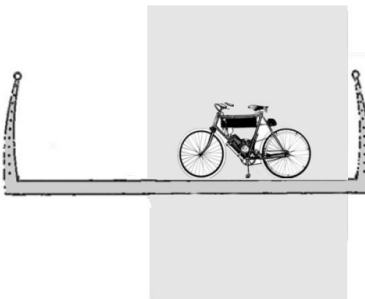
If required, a handrail should be between 900 and 1000mm above deck level

A handrail should preferably have a diameter between 40 and 50mm.

If a handrail is within an enclosure it should have a clearance from any part of the frame of 50-60mm

Cycle Bridge:

Width	2000mm unsegregated 3000mm line separation 3500mm kerb separated 3900mm rail separated
Parapet Height	1400mm (1500mm over railway)



Gradient of Bridge Deck

A ramped bridge should generally not be steeper than 1:20 unless specifically agreed by the Client having given due regard to the mobility of the end users in consultation with local access and disability groups.

However, if a bridge has a varying degree of slope (for example, if it is cambered) the general requirement to have a gradient no steeper than 1:20 may be relaxed over localised lengths of the deck subject to agreement with the Client or Overseeing Organisation and once consideration of the likely users is taken into account.

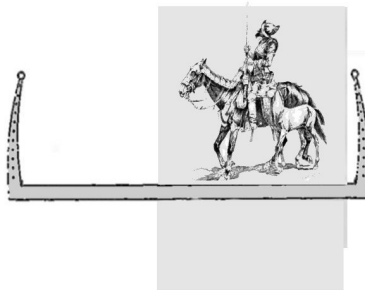
Gradient of Ramps

Ramps for pedestrian, cyclists and equestrians shall generally not be steeper than 1 in 20 unless otherwise agreed. However, a steeper ramp may be used to avoid long diversions, due to limitations of space, to maintain the desired line of the access or to avoid damage to the environment. No ramp may be steeper than 1:12.

Level landings 2m in length shall be provided at various intervals dependant on the ramp incline. This is summarised in the table below.

Equestrian Bridge:

Width	3500mm
Parapet Height	1800mm (All Cases)



Gradient	Landings required at intervals of maximum rise	Significant Change in direction required at intervals of maximum rise
<1:20	NONE	NONE
1:20	2 5 0 0 mm	NONE
>1:20	6 5 0 mm	3 5 0 0 mm

A change in direction can be omitted where either no other arrangement of ramp is possible or where it provides more encouragement to pedestrian to use the footbridge by shortening the walking distance if agreed with the Overseeing Organisation