

## Design Features

### Installation requirements - to meet with the requirements of BS6399:

- Post Centres < 1600mm for the standard barrier rail
- Or < 1500 mm for the Berry Beam type of barrier.
- Or < 1200 mm for Open Box Beam barrier.

**NB:** *These figures are halved at the ends of runs.* These figures apply regardless of the type of post used. The same is not true for anchorages.

### Force Required by BS6399 applied to different mounting posts:

- 1) Rigid Posts - zero barrier deflection F = 152kN
- 2) Flexi-Posts - 120 mm barrier deflection F = 69kN
- 3) Spring Steel Buffers - c 300 mm barrier deflection F = 38kN

**NB:** *Always refer to manufacturer/supplier for exact calculation of deflection in specific circumstances.*

### What are the main features of highway barriers?

- Designed for situations where a high speed impact is likely.
- Designed for situations where the impact is likely to be orthogonal to the barrier.
- Posts are designed to fail on impact
- Priority requirement is the protection of road users and pedestrians.
- Damage to the barriers is not important
- Damage to the vehicle is not important

### What are the main features of off-highway barriers?

- Designed for situations where a low speed impact is likely.
- Designed for situations where the impact is likely to be perpendicular to the barrier.
- Posts are designed to absorb impact
- Priority requirement is the protection of vehicle occupants, pedestrians, plant and equipment (including the barriers themselves)
- Damage to both the barriers and the vehicle can be minimised

**For further information and assistance with design and specifications please contact our office on +44 (0) 2838 322719 or e-mail: [info@wallaceps.co.uk](mailto:info@wallaceps.co.uk)**