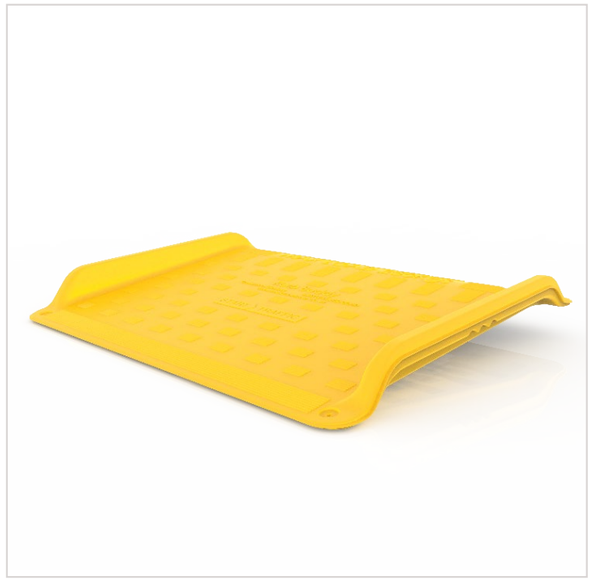
Kerb Buddy™ Load Testing

Load Testing:

Concentrated load tests have been carried out to the National Grid UK T/SP/E/42 October 2005 Specification on the Kerb Buddy Wheelchair Ramp. The concentrated load tests have shown that when firmly bolted down, the Kerb Buddy Wheelchair Ramp meets the requirements of the National Grid Specification.

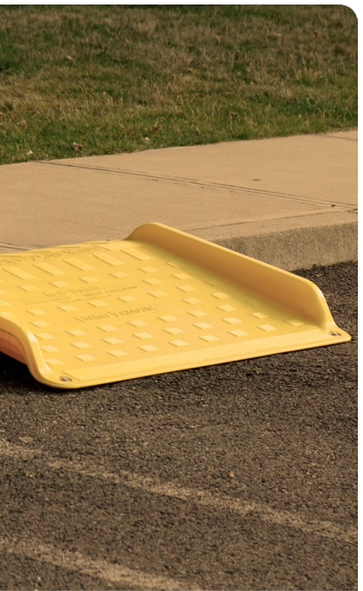
The requirement is that the ramp shall be strong enough to support pedestrians when diverted to temporary footways in the carriageway. The Wheelchair Ramp shall be capable of supporting a maximum weight of 551 lbs. (250kg)

The specification requires that the ramp shall not deflect more than 0.98" (25mm) when under loading.



Loading Plate Size (mm)	Fixings	Load (Kg)	Deflection (mm)
100 x 100	Bolted	150 250	16.3 22.1
200 x 200	Bolted	150 250	12.6 20.1

The table above displays results from the Wheelchair Ramp withstanding a load of 250Kg, whilst only deflecting by 20.10mm & 22.10mm. **These are a Pass**.



Slip Resistance:

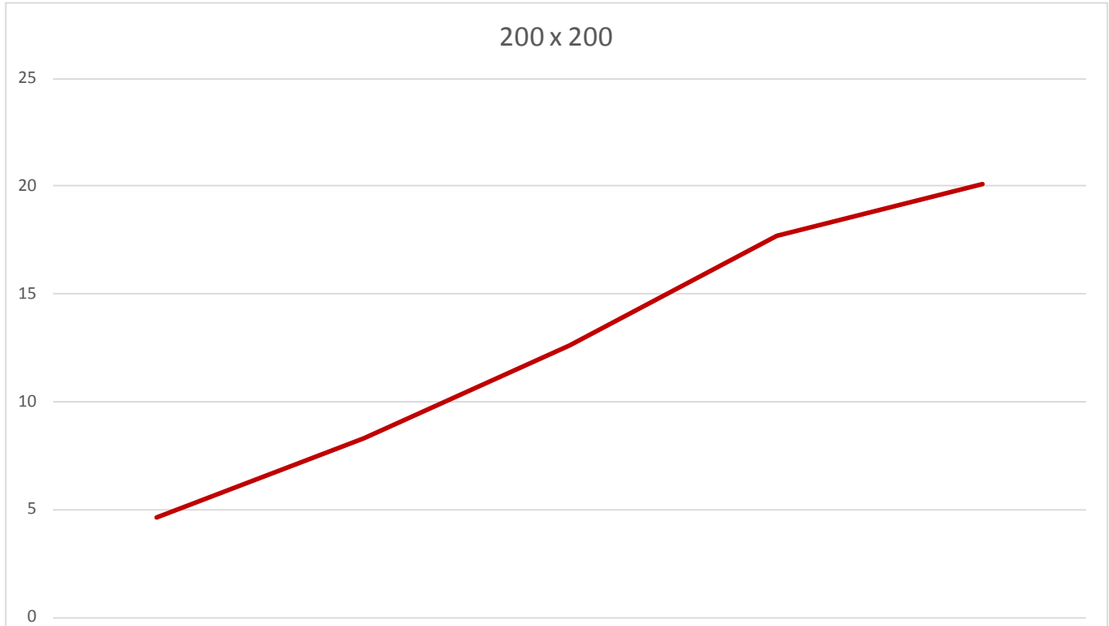
A flat section of the Wheelchair Ramp, without the anti-slip projections, has been tested in accordance with BS 7976: Part 2: 2002 'Pendulum Testers - Method of Operation'. The test has been performed with two sliders. These are: -

- Slider 45 (Standard Simulated Shoe Sole).
- Slider 55 (Tyre Tread)

The results have been compared with the HSE and UK slip Resistance Group 2005 slip potential classification. Pendulum test values are: 0 - 24 (High Slip Potential), 25 - 35 (Moderate Slip Potential), 36 + (Low Slip Potential). The following are the results:

- Slider 45 - Dry 41 Wet 33
- Slider 55 - Dry 89 Wet 41

Results show no significant slip hazard.



Both charts show the Deflection of the Kerb Buddy when put under loads of up to 250Kg. This loading was within a 5 minute time span.