

For the construction of a Vehicle Crossing over Footways or Verges

Section 184, Highways Act 1980

1. Minimum crossing width to be 3.0m, gates, if provided should open inwards. If the surfacing material of the drive and footway are similar then a boundary line is required, eg concrete edgings.
2. Dropped kerbs to have a minimum upstand of 12mm, dropper kerbs to be used to taper into existing kerbing, maximum slope 1:12. If the kerb radius is less than 12m then the appropriate radius kerbs will be used.
3. Maximum slope of crossing between the carriageway and the entrance should be 1:12 unless agree with the Area Engineer.
4. If the drive slopes towards the carriageway then drainage must be provided to prevent surface water flowing on to the public highway.
5. All construction materials must conform with current national specifications, surface courses must not contain limestone aggregate.
6. Construction materials should match the existing footpath (except paving slabs) and kerbing unless otherwise agreed by the Area Engineer.
7. Crossings should be edged with 50 x 150mm precast concrete edgings when adjacent to a verge.
8. Kerbs to be laid on a wet concrete or mortar bed on 100mm thick concrete base with 225mm thick concrete backing to within 50mm of the top of the kerb. Edgings to be laid on 100mm concrete base with 100mm thick surround front and back to within 25mm of the top of the edging. All concrete to be Grade C10P.
9. **Light Duty Crossing** – the following types of construction are suitable for access to a single residential property for cars and light vans (if larger vehicles are likely to be used then the heavy duty type should be provided):
 - a) Bituminous
20mm thickness of 6mm DBM 53psv surface course, with 125 pen grade bitumen to specification clause 909.
100mm thickness of 20mm DBM binder course with 125 pen grade bitumen to specification 906.
160mm thickness of clause 803 sub base on a pre compacted formation
 - b) Block Paviments
80mm thick block paviments with a minimum PPTV of 45.
50mm thickness of clean naturally occurring silica sand with rounded or sub-rounded particles to clause 1104.
150mm thickness of clause 803 sub base on a pre compacted formation
 - c) Concrete
100mm thickness of concrete Grade C20P
Waterproof membrane
100mm thickness of clause 803 sub base on a pre compacted formation
10. **Heavy Duty Crossing** – the following type of construction is suitable for access to commercial and other private properties for vehicles in excess of 3 tonnes unladen weight and up to a maximum of 20 tonnes

SPECIFICATION

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laden weight (for vehicle crossings in excess of this weight please contact the Area engineer for a specification).

- a) Concrete
 - 150mm thickness concrete Grade C20P with one layer of B283 mesh reinforcement to BS4483 in the bottom of the slab with 50mm cover
 - Waterproof membrane
 - 150mm thickness of clause 803 sub base on a pre compacted formation

11. Typical Layout

