

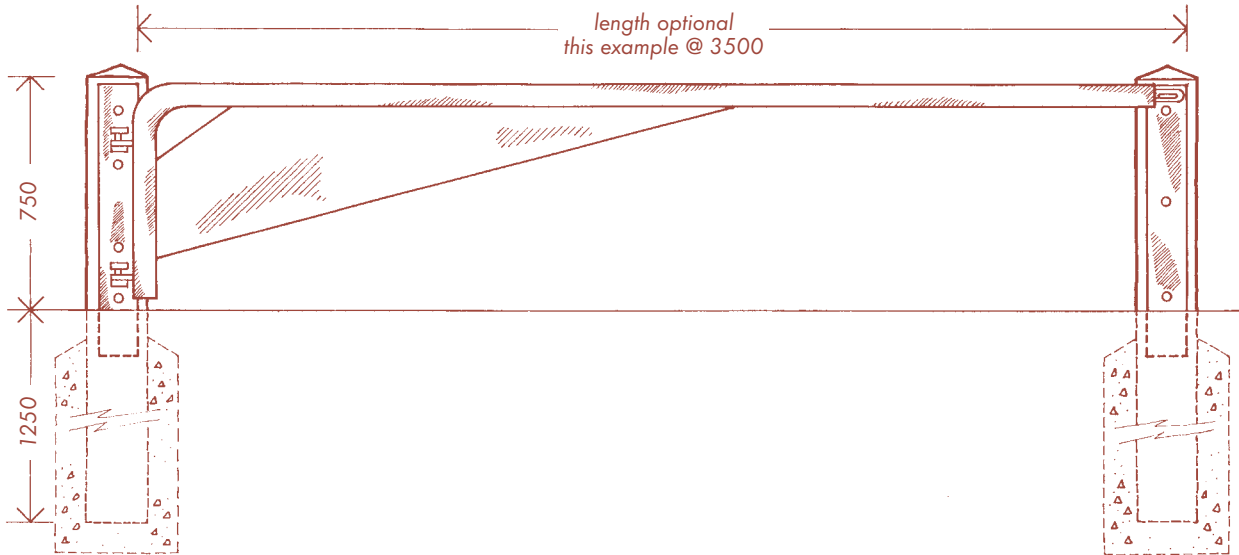
**SCOTTISH  
NATURAL  
HERITAGE**



Information Sheet **No.1.5**  
**Vehicle Pole Barrier**

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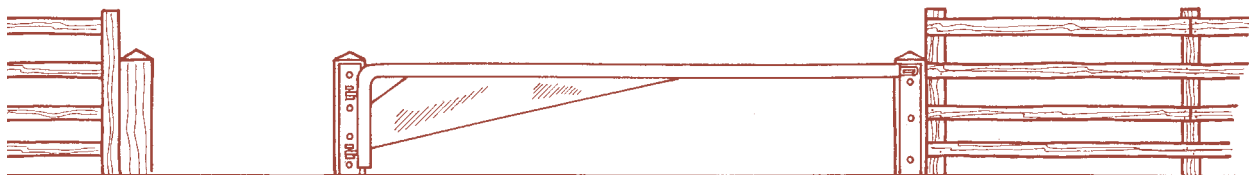
**1.5A Elevation**  
Scale 1:25  
0 1000mm



**1.5B Plan**  
Scale 1:25  
0 1000mm



**1.5C Layout : Example to show layout to restrict vehicle access but allow access by other users**  
Scale 1:50  
0 2000mm



1200 min.  
1525 pref. max.

Conforms to BS 5709	Ease of use for Pedestrians	Accessible to Motorised Wheelchair Users	Accessible to Manual Wheelchair and Pushchair Users	Accessible to Horseriders	Accessible to Pedal Cyclists	Accessible to Motorcyclists	Accessible to Motor Cars
✓	☺	✓	✓	✓	✓	✓	✗



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• **Notes**

A steel pole barrier suitable for controlling vehicle access, for example along private roads and tracks. The appearance of this type of barrier means that it is most appropriate for use in urban and suburban locations. The provision alongside of a gap (minimum width 1200, up to a preferred maximum of 1525) will permit access by pedestrians, people with prams and pushchairs (single and double), pedal cyclists, motorcyclists, horseriders, and users of manual and motorised wheelchairs. If it is wished to prevent or deter access by certain of these types of user, a kissing gate or other form of control mechanism should be installed alongside instead.

The length of the barrier can be manufactured to suit but should be a maximum of 4000. The barrier was designed to be built to a height of 825 to the top of the beam. In the design shown overleaf, this has been reduced to 750 to meet the requirements specified in the BT Countryside for All Guide in respect of the needs of visually impaired people using a long cane, for whom the underside of the beam should be no more than 675 above ground level.

The steel hinge plate and catch plate, that are bolted to the hanging post and shutting post respectively, extend approximately 150 below ground to prevent the posts being sawn off.

The simple design of the gate means that it is reasonably easy to mend the top beam by straightening or replacement of the damaged section of tube. The same is not true of more complex tubular steel barrier designs or steel gates. The size of tubing used for the beam also makes it strong whilst providing some 'give' should a vehicle drive into it. If there is a risk that the barrier might be vandalised, a loose steel rod placed inside the main beam will make it difficult to cut with a disc cutter and will irreparably damage the cutter blade.

If necessary, the barrier can be made more visible, especially at night, by fixing a reflective warning plate on the fin and/or applying bands of reflective paint to the beam.

• **Construction and Installation Details**

The barrier beam and upright are fabricated from circular, hollow section steel tubing of external diameter 76.1mm and wall thickness 3.2mm, with a 75mm radius heavy gauge steel bend. The bracing 'fin' is 6.0mm steel sheeting.

The timber hanging and shutting posts are each 2000 x 200 x 200 with a double weathered top and should be concreted in.

The steel hinge plate and catch plate are each 900 x 130 x 8 steel plate and extend approximately 150 below ground to prevent the posts being sawn off. The plates are pre-drilled and are bolted to the hanging and shutting posts with 225 x M10 plated bolts. 75 x 75 x 6 steel plate 'washers' are used on each bolt on the rear side of the posts.

The two hinges are each a standard 'off the shelf' weld-on crook and eye with 18mm pin. After installation, a nut should be welded to the top of one pin to prevent the removal of the gate.

The catch mechanism is fabricated from case hardened 10mm steel plate and is suitable for heavy duty padlocks. A vandal box can be fitted over the catch but the design and construction of the gate largely obviates the need for this.

All parts of the gate are fully galvanised after fabrication.

• **Design Source and Contacts for Further Information**

**Design Source &**

**Further Information:** Barrier developed and widely used by the Countryside Service, Environment Directorate, Northumberland County Council, County Hall, Morpeth, Northumberland. NE61 2EF. Tel. 01670 533000.

**Manufacture:** Barrier manufactured to order by a local blacksmith - the Northumberland County Council version was fabricated by John S. Lunn & Sons, The Forge, Red Row, Morpeth, Northumberland. NE61 5AU. Tel. 01670 760246. Fax. 01670 760688.

• **User Notes : Design Modifications and Reference Information**

