

Specification for Cattle grids

ICS 65.040.10

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Technical Sector Board for Building and Civil Engineering (B/-) to Technical Committee B/201, upon which the following bodies were represented:

- Aluminium Federation
- British Precast Concrete Federation Ltd.
- British Steel Industry
- Country Landowners' Association
- County Surveyors' Society
- Department of the Environment (Building Research Establishment)
- Department of the Environment (Property Holdings)
- Department of Transport
- Fencing Contractors' Association
- Forestry Commission
- Ministry of Agriculture, Fisheries and Food
- National Farmers' Union
- Society of Chain Link Fencing Manufacturers
- Timber Growers United Kingdom
- Timber Research and Development Association
- Wire Products Association

The following bodies were also represented in the drafting of the standard, through subcommittees and panels:

- Association of County Councils
- British Horse Society
- Country Gentlemen's Association Limited
- Countryside Commission
- Cyclists' Touring Club
- Rural Development Commission
- Scottish Office (Agriculture and Fisheries Department)
- Timber Trade Federation
- Welsh Agricultural Equine Association

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Foreword

This British Standard has been prepared under the direction of the Technical Sector Board for Building and Civil Engineering. It supersedes BS 4008:1973 which is withdrawn. This revision includes requirements for cattle grids set in public roads.

The factors to be considered before it is decided to use a cattle grid for the containment of animals are so diverse and the variations available so numerous that this document specifies only the fundamental requirements for a cattle grid and contains advice on associated topics in an appendix. The associated fencing and alternative access are essential to the successful operation of a cattle grid but requirements will vary with location, frequency of use and stock to be contained and recommendations are contained in the appendix.

Maintenance is a vital factor in the success of a cattle grid and some advice is given.

If the incentive for escape is great enough, escapes and attempted escapes will occur. The requirements of this document are aimed at limiting both the occurrence and consequences of escape or attempted escape.

It has been assumed in the drafting of this British Standard that the execution of its provisions is entrusted to appropriately qualified and experienced people.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 10, an inside back cover and a back cover.

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1 Scope

This British Standard specifies requirements for cattle grids suitable for the containment of stock whilst permitting the passage of pneumatic tyred vehicles. This standard covers grids suitable for containment of cattle, sheep, deer, goats and pigs; and in certain circumstances, suitable for the containment of horses. Appendix A gives recommendations on the use, location, design, construction and maintenance of cattle grids.

NOTE The titles of the publications referred to in this standard are listed on the inside back cover.

2 Definitions

For the purposes of this British Standard the following definitions apply.

2.1

cattle grid

a device, set in a roadway, consisting of a number of transverse members supported over a pit; it forms a barrier to stock but provides access for vehicles. Guard fences and by-pass facilities if provided form part of the grid

2.2

transverse members

a series of members set at right angles to the road to provide a running surface

2.3

pit

a cavity formed below the transverse members

2.4

stock

animals to be contained within a boundary of which the cattle grid forms a part

2.5

side walls

the walls at the edge of the pit parallel to the road

2.6

end walls

the walls at the edge of the pit at right angles to the road

2.7

intermediate supports

walls or beams supporting the transverse members, at right angles to them, located between the side walls

2.8

guard fence

barriers associated with the cattle grid to prevent encroachment by animals

2.9

by-pass facilities

alternative means of passage

3 Animal welfare

(See A.3.)

3.1 General

The welfare of the stock being contained, small wild animals and other animals using the by-pass facility shall be considered in the design, location and construction of cattle grids.

3.2 Small animal ramps

3.2.1 *Location*

Ramps to aid the escape of small animals shall be provided at one or two corners of the pit, positioned to exit the pit on the side away from stock containment. Ramps shall be between 150 mm and 200 mm wide at a slope not exceeding 1 in 2 parallel to the transverse members. The surface of ramps shall not be smooth.

3.2.2 *Access*

Where the pit is divided into compartments by intermediate support walls, holes at least 150 mm diameter shall be formed to permit access to the ramps from all compartments.

4 Siting

(See A.4.)

4.1 General

Cattle grids shall not be sited within 18 m of a junction. The approach width shall be adequate for anticipated manoeuvres.

4.2 Gradients

Cattle grids shall be sited so that their top surface has a transverse gradient flatter than 1 in 40.

NOTE It is strongly recommended that the longitudinal gradient is flatter than 1 in 20. However, in hilly areas where a gradient below 1 in 20 is not possible, grids may still be acceptable. In such cases, their gradient should follow that road plane in which they are situated.

4.3 Visibility

Cattle grids shall be sited to be clearly visible to approaching traffic.