

Industrial type metal flooring, walkways and stair treads —

Part 2: Specification for expanded metal grating panels

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee B/208, Stairs and walkways, upon which the following bodies were represented:

- British Precast Concrete Federation Ltd.
- British Woodworking Federation
- Consumer Policy Committee of BSI
- Department of the Environment for Northern Ireland
- District Surveyors' Association
- Engineering Equipment and Materials Users' Association
- Galvanizers' Association
- Health and Safety Executive
- Institution of Structural Engineers
- London Fire and Emergency Planning Authority
- Office of the Deputy Prime Minister (Building Regulations Division)
- Office of the Deputy Prime Minister (Building Research Establishment)
- Royal Institute of British Architects
- Royal Society for the Prevention of Accidents
- Scottish Office (Construction and Building)
- Spiral Stair Manufacturers' Association
- Storage Equipment Manufacturers' Association

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

Coopted members

This British Standard, having been prepared under the direction of the Elements and Components (of Diverse Materials) for Buildings Standards Committee, was published under the authority of the Board of BSI and comes into effect on 31 July 1987

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Foreword

This part of BS 4592 has been prepared under the direction of the Elements and Components (of Diverse Materials) for Buildings Standards Committee. Parts 1 and 3 of BS 4592, published simultaneously, cover open bar gratings and cold formed planks respectively.

The start and finish of text introduced or altered by Amendment No. 1 is indicated in the text by tags **A1** **A1**.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its 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 11 and a back cover.

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1 Scope

This part of BS 4592 specifies requirements for aluminium and steel (including stainless steel) expanded metal grating panels intended for use in flooring, walkways and stair treads ^[A1] that are not addressed by BS EN ISO 14122 Part 1, Part 2 and Part 3, which cover the following:

BS EN ISO 14122, *Safety of machinery — Permanent means of access to machinery*:

- *Part 1: Choice of a fixed means of access between two levels*;
- *Part 2: Working platforms and walkways*;
- *Part 3: Stairs, stepladders and guard-rails.* ^[A1]

NOTE 1 For an enquiry or order to be fully understood, it is essential that the information set out in Appendix B is given by the specifier or user to the manufacturer or supplier.

NOTE 2 Appendix C gives recommendations for installation of grating panels and stair treads.

NOTE 3 This standard does not cover agricultural uses (see BS 5502).

NOTE 4 The titles of the publications referred to in this standard are listed on the inside back cover.

2 Definitions

For the purposes of this part of BS 4592 the definitions given in BS 5395-1, BS 5395-3 and BS 6100-1 apply, together with the following.

2.1

grating panel

sheet of expanded metal grating

NOTE Grating panels are formed by slitting and expanding blank metal plates in a single continuous process.

2.2 Types of grating panel

2.2.1

regular knuckle grating panel

grating panel with regular knuckle between strands [see Figure 1(a)]

2.2.2

long knuckle grating panel

grating panel with long knuckle between strands [see Figure 1(b)]

2.2.3

dimpled long knuckle grating panel

grating panel with knuckle that has a dimple pressed into the surface to increase slip resistance [see Figure 1(c)]

2.3

long way (LW)

distance between centres of knuckles along grating panel (see Figure 2)

2.4

short way (SW)

width of grating between centres of knuckles across grating panel (see Figure 2)

2.5

strand

material joining knuckle (see Figure 2)

2.6

stag

cut knuckle (see Figure 8)

2.7

framed grating panel

grating panel framed with angles, tee bars, flat bars or similar