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BSI Standards Publication

Flood resistance products

Part 2: Perimeter barrier systems — Specification

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Summary of pages

This document comprises a front cover, an inside front cover, pages I to IV, pages 1 to 19, an inside back cover and a back cover.

Foreword

Publishing information

This British Standard is published by BSI Standards Limited, under licence from The British Standards Institution, and came into effect on 30 September 2019. It was prepared by Technical Committee CB/501, *Flood risk and watercourses*. A list of organizations represented on this committee can be obtained on request to the committee manager.

Supersession

BS 851188-2:2019 superseded PAS 1188-2:2014 and PAS 1188-4:2014, which have been withdrawn.

BS 851188-2:2019+A1:2021 supersedes BS 851188-2:2019, which is withdrawn.

Relationship with other publications

BS 851188, *Flood resistance products*, is issued in two parts:

- Part 1: *Building products – Specification*; and
- Part 2: *Perimeter barrier systems – Specification*.

Guidance is available from *Delivering benefits through evidence: Temporary and demountable flood protection guide* [1]. Guidance is also available from the National Flood Forum (www.floodforum.org.uk) or the Scottish Flood Forum (www.scottishfloodforum.org).

Information about this document

Text introduced or altered by Amendment No. 1 is indicated in the text by tags A1 A1. Minor editorial changes are not tagged.

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Presentational conventions

The provisions of this standard are presented in roman (i.e. upright) type. Its requirements are expressed in sentences in which the principal auxiliary verb is “shall”.

Commentary, explanation and general informative material is presented in smaller italic type, and does not constitute a normative element.

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Where words have alternative spellings, the preferred spelling of The Shorter Oxford English Dictionary is used (e.g. “organization” rather than “organisation”).

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Particular attention is drawn to the following specific regulations and associated documents:

- Statutory Rules of Northern Ireland 2012, Technical Booklet L [1];
- Statutory Rules of Northern Ireland 2012, Technical Booklet E [3];
- Statutory Rules of Northern Ireland 2012, Technical Booklet K [4];
- Statutory Rules of Northern Ireland 2012, Technical Booklet R [5];
- Building Regulations (England and Wales) 2010, Approved Document B [6];
- Building Regulations (England and Wales) 2010, Approved Document C [7];
- Building Regulations (England and Wales) 2010, Approved Document F [8];
- Building Regulations (England and Wales) 2010, Approved Document H [9];
- Building Regulations (England and Wales) 2010, Approved Document J [10];
- Building Regulations (England and Wales) 2010, Approved Document M [11];
- Building Standards (Scotland) Regulations 2004, Technical Handbook 2017: domestic buildings [12];
- Building Standards (Scotland) Regulations 2004, Technical Handbook 2017: non-domestic buildings [13];
- Equality Act 2010 [14];
- Disability Discrimination Act 1995 (Northern Ireland) [15];
- Regulatory Reform (Fire Safety) Order 2005 [16];
- Fire Safety (Scotland) Regulations 2006 [17];
- Fire Safety Regulations (Northern Ireland) 2010 [18];
- Gas Safety (Installation and Use) Regulations 1998 [19]; and
- Construction (Design and Management) Regulations 2015 [20].

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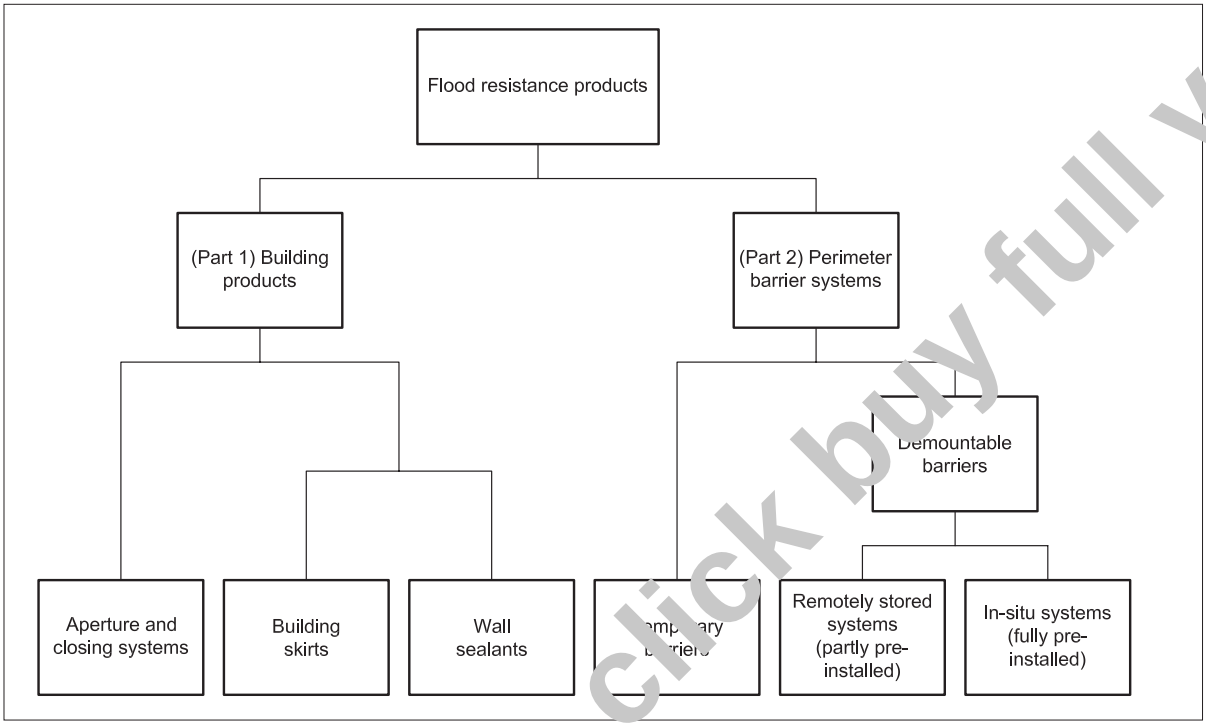
Introduction

The general classification of flood resistance products and the relationship between groups of products with each other is shown in Figure 1. Figure 1 also indicates which part of the BS 851188 series is relevant for each classification.

Figure 1 — *Flood resistance products: general classification*



NOTE 1 Attention is drawn to the need to ensure a safe evacuation of persons in the event of an emergency and for access and egress of persons with impaired mobility.

NOTE 2 When a designer considers applying a product to a building, the design and the intended method of deployment of the product with its designated maximum water depth (DMWD) should not adversely affect the structural integrity of the building. Attention is drawn to the Construction (Design and Management) Regulations 2015 [20] and parts relevant to the roles and responsibilities of designers.

1 Scope

This British Standard specifies requirements for the designation, testing, factory production control, installation manual, deployment instructions, user manual and marking for different types and configurations of flood resistance products.

This British Standard is applicable to flood resistance products intended for either temporary installation or to be demountable, for use away from buildings but where they could be sealed against structures or buildings at section ends, in the UK or locations with similar exposures, i.e. where there is a temperate climate.

This British Standard specifies the method of testing and an allowable leakage rate.

NOTE 1 The test conditions given in Annex A represent typical conditions that can be experienced during a flood. This includes testing the flood resistance product on a concrete base for leakage and structural failure under static water levels, random waves up to 0.1 m high and parallel currents up to 1.0 m/s.

NOTE 2 This British Standard does not cover testing with contaminated or saline water; however, product manufacturers are required to provide information about the performance of their products in these conditions (see Annex B).

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