

Glazing for buildings —

Part 4: Code of practice for safety related to human impact

ICS 81.040.20

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by Technical Committee B/520, Glass and glazing in building, to Subcommittee B/520/4, Properties and glazing methods, upon which the following bodies were represented:

- British Adhesives and Sealants Association
- British Plastics Federation
- British Woodworking Federation
- Consumer Policy Committee of BSI
- Council for Aluminium in Building
- Flat Glass Manufacturers' Association
- Glass and Glazing Federation
- Nottingham University
- Office of the Deputy Prime Minister — Building Division
- Office of the Deputy Prime Minister — represented by the BRE
- RICS Building Control Forum
- Co-opted members

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Foreword

This part of BS 6262 has been prepared by Subcommittee B/520/4. It supersedes BS 6262-4:1994, which is withdrawn.

BS 6262:1982 is being revised and also restructured to simplify its use and will be published in seven parts:

- *Part 1: General methodology for the selection of glazing;*
- *Part 2: Energy, light and sound;*
- *Part 3: Fire, security and wind loading;*
- *Part 4: Safety related to human impact;*
- *Part 5: Frame design considerations;*
- *Part 6: Special applications;*
- *Part 7: Provision of information.*

Recommendations for standards of workmanship for glazing have been published separately in BS 8000-7 and therefore this subject is not dealt with in this British Standard.

Since the correct selection of materials to be used in glazing for buildings depends on many factors, the recommendations in this part of BS 6262 should be used in conjunction with those in the other parts.

As a code of practice, this British Standard takes the form of guidance and recommendations. It should not be quoted as if it were a specification and particular care should be taken to ensure that claims of compliance are not misleading.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

In particular, attention is drawn to the following statutory regulations.

The Building Regulations 2000 [1].

The Building Regulations (Northern Ireland) [2].

The Building Standards (Scotland) Regulations 2004 [3].

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 13 and a back cover.

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1 Scope

This part of BS 6262 gives safety recommendations for the vertical use of glass and plastics glazing sheet materials in locations likely to be subject to accidental human impact. The recommendations are intended to reduce impact related injuries and in particular the risk of cutting and piercing injuries.

These recommendations do not apply to:

- a) patent glazing (see BS 5516-1);
- b) glass in non-vertical applications (see BS 5516-2);
- c) glazing for furniture and fittings (see BS 7376 and BS 7449);
- d) glazing for commercial greenhouses (see BS 5502-21);
- e) glazing for domestic greenhouses.

Recommendations for standards of workmanship for glazing have been published separately in BS 8000-7 and therefore this subject is not dealt with in this British Standard.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

BS 952-1, *Glass for glazing — Classification.*

BS 6180:1999, *Barriers in and about buildings — Code of practice.*

BS 6206:1981, *Specification for impact performance requirements for flat safety glass and safety plastics for use in buildings¹⁾.*

BS 7449:1991, *Specification for inclusion of glass in the construction of furniture, other than tables or trolleys, including cabinets, shelving systems and wall hung or free standing mirrors.*

BS EN 572-3, *Glass in building — Basic soda lime silicate glass products — Part 3: Polished wired glass.*

BS EN 572-6, *Glass in building — Basic soda lime silicate glass products — Part 6: Wired patterned glass.*

BS EN 12150-1, *Glass in building — Thermally toughened soda lime silicate safety glass — Part 1: Definition and description.*

BS EN 12600:2002, *Glass in building — Pendulum test — Impact test method and classification for flat glass.*

BS EN 13024-1, *Glass in building — Thermally toughened borosilicate safety glass — Part 1: Definition and description.*

BS EN 14179-1, *Glass in building — Heat soaked thermally toughened soda lime silicate safety glass — Part 1: Definition and description.*

BS EN 14428, *Shower enclosures — Functional requirements and test methods.*

BS EN 14449, *Glass in building — Laminated glass and laminated safety glass — Evaluation of conformity.²⁾*

BS EN ISO 12543-2, *Glass in building — Laminated glass and laminated safety glass — Part 2: Laminated safety glass.*

3 Terms and definitions

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

3.1

critical location

part of a door, wall or other part of a building most likely to be subject to accidental human impact

¹⁾ Most of this British Standard has been withdrawn with the exception of safety plastics.

²⁾ At the time of publication this document is awaiting UK implementation pending a corrigendum to be issued by CEN.

3.2

glazing, noun

glass, or plastics glazing sheet material (PGSM), for installation into a building

3.3

glazing, verb

action of installing glass, or plastics glazing sheet materials (PGSMs), into a building

3.4

insulating glass unit

an assembly consisting of at least two panes of glass, separated by one or more spaces, hermetically sealed along the periphery, mechanically stable and durable

[BS EN 1279-1:2004, definition 3.1]

NOTE The individual panes may be of different sizes, glass types and/or thicknesses.

3.5

manifestation

technique for enhancing a person's awareness of the presence of transparent glazed areas

3.6

pane

single piece of glass, or plastics glazing sheet material, in its finished size ready for glazing

3.7

plastics glazing sheet material

plastics material in the form of a single sheet, or a combination of sheets laminated together, or an extruded multi-wall sheet

3.8

pane size

dimensions of a pane

NOTE See Figure 1.

3.9

unbacked mirror glazing

glazing which has either no backing or only partial backing behind its entire area, or has a backing that does not retain its integrity or is cracked or broken when tested as described in BS 7449:1991, Annex A

3.10

vertical

true vertical within a tolerance of 15°

3.11

safety glass

glass product conforming to BS EN 572-3, BS EN 572-6, BS EN 12150-1, BS EN ISO 12543-2, EN 14179-1 or BS EN 13024-1 that has a performance classification in accordance with BS EN 12600

3.12

safety plastics

plastics glazing sheet material that has been classified in accordance with BS 6206