

Glass in building — Structural sealant glazing —

**Part 1: Glass products for structural
sealant glazing systems for supported
and unsupported monolithic and
multiple glazing**

ICS 81.040.20

National foreword

This British Standard is the UK implementation of EN 13022-1:2006+A1:2010. It supersedes BS EN 13022-1:2006 which is withdrawn.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to CEN text carry the number of the CEN amendment. For example, text altered by CEN amendment A1 is indicated by A1 A1.

The UK participation in its preparation was entrusted to Technical Committee B/520, Glass and glazing in building.

A list of organizations represented on this committee can be obtained on request to its secretary.

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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English Version

Glass in building - Structural sealant glazing - Part 1: Glass products for structural sealant glazing systems for supported and unsupported monolithic and multiple glazing

Verre dans la construction - Vitrage extérieur collé (VEC) -
Partie 1: Produits verriers pour les systèmes de vitrage
extérieurs collés pour produits monolithiques et produits
multiples calés et non calés

Glas im Bauwesen - Geklebte Verglasungen - Teil 1:
Glasprodukte für SSG-Systeme - Einfach- und
Mehrfachverglasungen mit und ohne Abtragung des
Eigengewichtes

This European Standard was approved by CEN on 13 March 2006 and includes Amendment 1 approved by CEN on 23 February 2010.

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Contents

Page

Foreword.....	4
1 Scope	5
2 Normative references	8
3 Symbols, terminology, terms and definitions.....	9
3.1 Symbols	9
3.2 Terminology	10
3.3 Terms and definitions	11
4 Characteristics of glass products - requirements.....	12
4.1 Appropriate glass products	12
4.2 Dimensional tolerances	13
4.3 Glass shapes	13
4.3.1 Curved glass	13
4.4 Corners, notches and holes	13
5 Verification of the suitability of glass products for use in SSG systems when exposed to UV radiation	14
5.1 General.....	14
5.2 Insulating glass unit (IGU)	14
5.2.1 Situation 1 (see Figure 2 of the scope).....	14
5.2.2 Situation 2 (see Figure 2 of the scope).....	15
5.2.3 Coated glass.....	15
5.2.4 Possibility to substitute the outer IGU seal – General case.....	16
5.2.5 Possibility to substitute the outer IGU seal – Case of unsupported glass: Further requirements.	16
5.3 Monolithic glass or laminated glass, Situation 3 (see Figure 2).....	16
5.4 Assessment of the adhesion between the sealant and the glass	16
5.4.1 Clear float	16
5.4.2 Coated glass.....	16
5.4.3 Enamelled glass.....	17
5.4.4 Patterned glass	17
6 Design	17
6.1 Calculation of the thickness of the glass	17
6.2 Calculation of the height of the outer sealant of the insulating glass unit for supported and unsupported glazing	17
6.2.1 Supported insulating glass unit	17
6.3 Calculation of the height of the outer sealant of the insulating glass unit for unsupported glazing.....	21
6.3.1 Calculation of the height regarding the relevant combined load of the wind, snow and self weight.....	21
6.3.2 Calculation of the height of the outer seal to bear the permanent shear loading	21
7 Minimum glass thickness	22
7.1 General case.....	22
7.2 Case of glass with worked edges	23

Annex A (informative) Assembly recommendations	24
A.1 Setting blocks for monolithic glass, laminated glass and insulating glass units	24
A.1.1 General case	24
A.1.2 Supporting the self-weight of a monolithic glass	26
A.2 Water drainage from the system	26
Bibliography	27

Foreword

This document (EN 13022-1:2006+A1:2010) has been prepared by Technical Committee CEN/TC 129 “Glass in building”, the secretariat of which is held by NBN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2010, and conflicting national standards shall be withdrawn at the latest by October 2010.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document includes Amendment 1, approved by CEN on 2010-02-23.

This document supersedes EN 13022-1:2006.

The start and finish of text introduced or altered by amendment is indicated in the text by tags **A1** **A1**.

A1 This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s). **A1**

This Part of the standard is one of a series of interrelated standards dealing with:

- glass products for structural sealant glazing systems;
- installation of glass products in a structural manner on building façades;
- UV-resistant and structural sealant for use in structural sealant glazing.

The interrelated parts are:

- EN 13022-1: Glass in building — Structural sealant glazing — Part 1: Glass products for structural sealant glazing systems for supported and unsupported monolithic and multiple glazing
- EN 13022-2: Glass in building — Structural sealant glazing — Part 2: Assembly rules
- EN 15434: Glass in building — Product standard for structural and/or ultra-violet resistant sealant (for use with structural sealant glazing and/or insulating glass units with exposed seals)

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

1 Scope

This European Standard specifies requirements for the suitability for use of supported and unsupported glass products for use in “Structural Sealant Glazing” (SSG) applications. Four schematic drawings of SSG systems are shown in Figure 1 and three section drawings of an SSG type II system are shown in Figure 2 for illustration purposes. This European Standard on glass products is considered as a supplement to the requirements specified in the corresponding standards with regard to verifying the suitability for use in SSG systems.

Only soda lime silicate glasses are taken into consideration in this European Standard.

Plastic glazing is excluded from the scope of this European Standard.

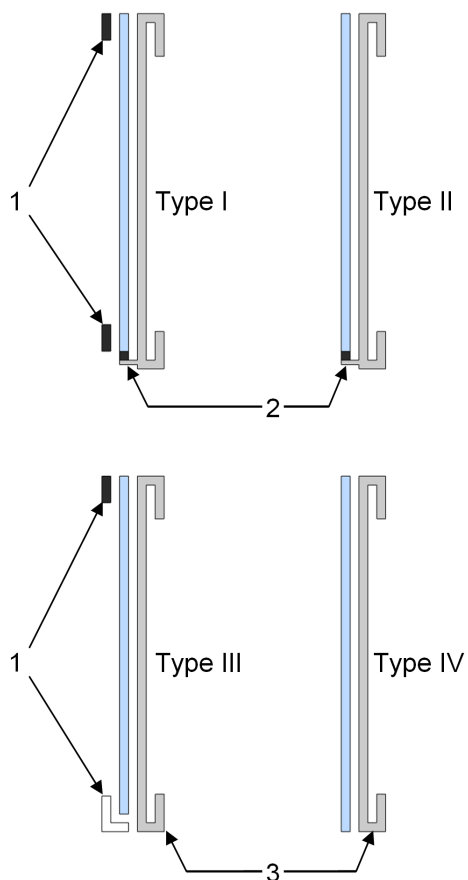
Any glass products meeting the requirements of this European Standard are suitable for use in SSG systems as defined in ETAG 002¹⁾ “Structural sealant glazing system”.

All glass products are installed and bonded into the support under controlled environmental conditions as described in Clause 5 of EN 13022-2:2006.

When the outer seal of the insulating glass unit has a structural function and/or is exposed to UV radiation without any protection, only silicone based sealant are permitted in the construction of the unit.

1) ETAG: European Technical Approval Guideline

A1



A1

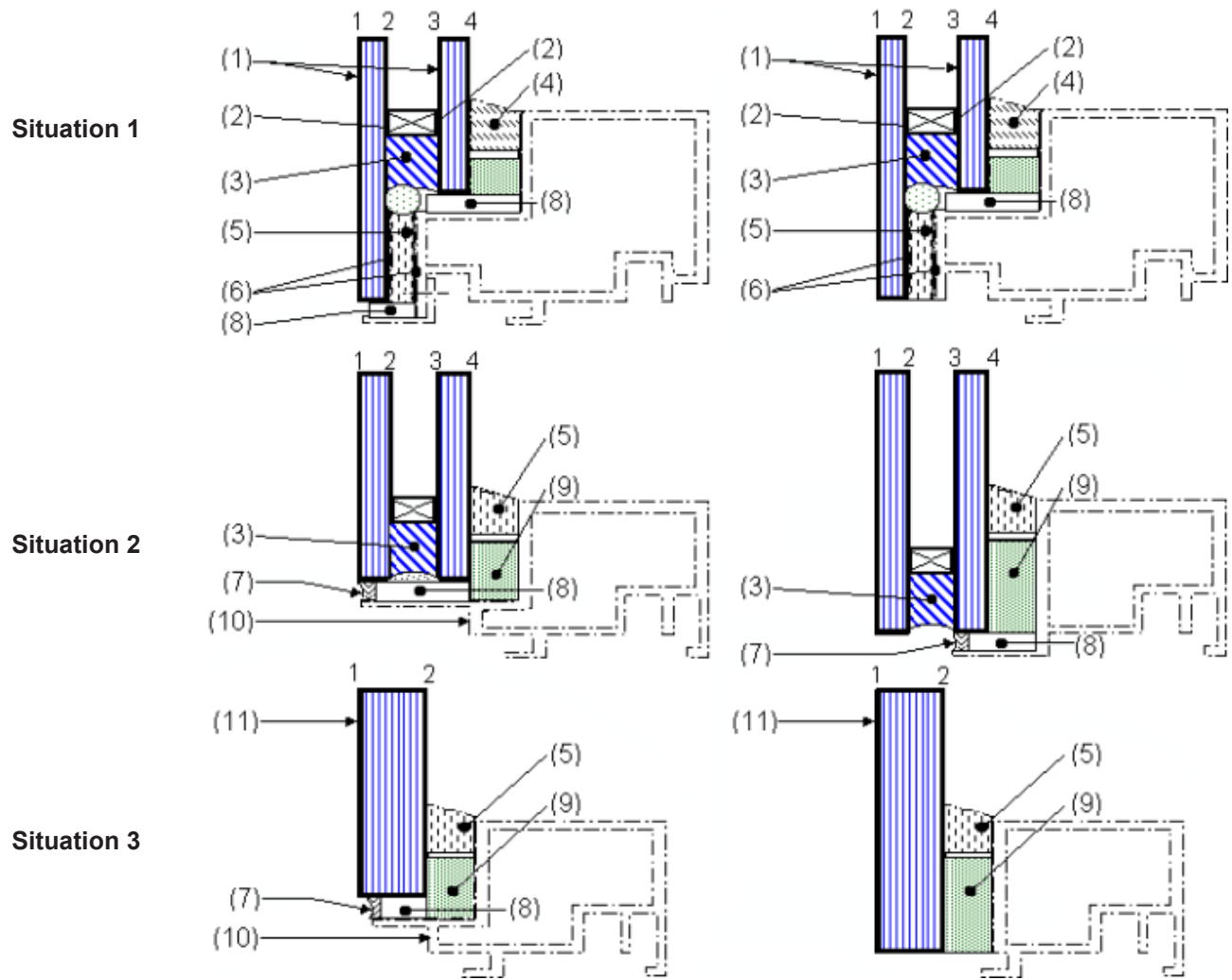
Key

- 1 retaining device to reduce danger in case of bond failure
- 2 mechanical self-weight support
- 3 structural sealant support frame

Figure 1 — Schematic examples of the different types of SSG

A1 NOTE 1 Retaining devices may be required by national regulations.

NOTE 2 In case of laminated glass and laminated safety glass, SSGS of types III and IV may be forbidden by national regulation. A1



Key

- 1 glass unit
- 2 inner seal
- 3 outer seal
- 4 finishing material
- 5 structural seal
- 6 structural seal adhesion surface
- 7 weather seal
- 8 setting block
- 9 adhesive spacer
- 10 structural seal support frame

11 laminated glass or laminated safety glass, or monolithic glass unit

Figure 2 — Scope

NOTE 3 The section drawings above are examples of structural sealant glazing system type II and IV.