



SLOVENSKI STANDARD
kSIST FprEN 13022-2:2013

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Steklo v gradbeništvu - Strukturna zasteklitev - 2. del: Pravila za zastekljevanje

Glass in building - Structural sealant glazing - Part 2: Assembly rules

Glas im Bauwesen - Geklebte Verglasungen - Teil 2: Verglasungsvorschriften

Verre dans la construction - Système de vitrage extérieur collé (VEC) - Partie 2: Règles d'assemblage

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Glass in building - Structural sealant glazing - Part 2: Assembly rules

Verre dans la construction - Système de vitrage extérieur collé (VEC) - Partie 2: Règles d'assemblage

Glas im Bauwesen - Geklebte Verglasungen - Teil 2: Verglasungsvorschriften

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FprEN 13022-2:2013 (E)**Foreword**

This document (FprEN 13022-2:2013) has been prepared by Technical Committee CEN/TC 129 “Glass in building”, the secretariat of which is held by NBN.

This document is currently submitted to the Unique Acceptance Procedure.

This document will supersede EN 13022-2:2006+A1:2010.

This part of the standard is one of a series of interrelated standard parts 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)*

1 Scope

This European Standard deals with the assembling and bonding of glass elements in a frame, window, door or curtain walling construction, or directly into the building by means of structural bonding of the glass element into or onto framework or directly into the building.

It gives information to the assembler to enable him to organise his work and comply with requirements regarding quality control.

Structural sealant glazing can be incorporated into the façades (curtain walls, doors and windows) or roofs as follows:

- either vertically; or
- up to 7° from the horizontal, i.e. 83° from the vertical.

This European Standard only deals with the bonding to glass surfaces, i.e. coated or uncoated or enamelled, and metallic surfaces, i.e. aluminium (anodised or coated), stainless steel, as considered in G.2 of EN 15434:2006+A1:2010.

2 Normative references

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

FprEN 13022-1:2013, *Glass in building — Structural sealant glazing — Part 1: Glass products for structural sealant glazing systems for supported and unsupported monolithic and multiple glazing*

EN 15434:2006+A1:2010, *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)*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in FprEN 13022-1:2013, EN 15434:2006+A1:2010 and the following apply.

3.1

structural bonding

assembling of glass elements into or onto window, door or curtain walling framework by means of a structural seal

3.2.

structural sealant

elastic sealant used for making a structural seal

4 Requirements

The assembling of the glass elements into or onto the window, door or curtain-walling framework or directly in the building or construction shall take place under the following controlled environmental conditions:

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- temperature of the surface of the frame and of the glass and of the near environment shall be not less than 10 °C and not more than 35 °C;
- for a given temperature, the RH value shall be at least 5 % below the value corresponding to the dew point of the support to which the seal is being applied;
- environment in the vicinity of the assembling has to be dust free;
- glass elements are securely fixed until the full curing of the sealant has taken place.

It shall be ensured that the work is executed as foreseen by the design, so that in particular:

- curing of the various seals proceeds as foreseen by the design;
- after curing, the characteristic performances including durability are deemed to satisfy the design requirements.

NOTE For design guidance, refer to Annex B.

5 Assembling/bonding

The assembling manual shall be used for instruction of both the assembling and control and will be a part of the assembling control documentation.

The assembling manual shall make reference to the design of the work and detail the assembling procedures, in particular what is related to:

- list of characteristics claimed by the designer;
- component materials and products, and when appropriate trade name, generic type, marking and labelling;
- cleaning and preparation materials, trade name, generic type, marking and labelling;
- installations, equipment and tools for transport, storage, cleaning, use of primers, other preparation work of bonding surfaces, mixing sealant components, extrusion of sealant;
- cleaning process of the seal bonding surfaces;
- where applicable, process for use of primers;
- positioning of glass and framework before extrusion of sealant, inclusive the application of glazing blocks (see FprEN 13022-1), anti-adhesive film and backer rod;
- extrusion of sealant;
- waiting time to obtain initial cure and transport and storage conditions just after initial cure;
- waiting time to obtain further curing and final installation in the work;
- finishing processes such as removing temporarily fixing means and application of weather seals;
- information concerning the compatibility of various materials and components.

The assembling manual shall also contain control and testing requirements and conditions, which may be by full description or by reference to this European Standard.