

# DIN EN 13022-1:2014-08 (E)

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

---

<b>Contents</b>		<b>Page</b>
Foreword .....		3
<b>1</b>	<b>Scope .....</b>	<b>4</b>
<b>2</b>	<b>Normative references .....</b>	<b>7</b>
<b>3</b>	<b>Symbols, terminology, terms and definitions .....</b>	<b>8</b>
3.1	Symbols .....	8
3.2	Terminology .....	9
3.3	Terms and definitions .....	10
<b>4</b>	<b>Characteristics of glass products - requirements .....</b>	<b>12</b>
4.1	Appropriate glass products .....	12
4.2	Dimensional tolerances .....	12
4.3	Glass shapes - Curved glass .....	12
4.4	Corners, notches and holes .....	13
<b>5</b>	<b>Verification of the suitability of glass products for use in SSG systems when exposed to UV radiation .....</b>	<b>14</b>
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) .....	14
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 .....	16
5.4.4	Patterned glass .....	17
<b>6</b>	<b>Design .....</b>	<b>17</b>
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 .....	22
<b>7</b>	<b>Minimum glass thickness .....</b>	<b>22</b>
7.1	General case .....	22
7.2	Case of glass with worked edges .....	23

<b>Annex A (informative) Assembly recommendations .....</b>	<b>25</b>
<b>A.1 Setting blocks for monolithic glass, laminated glass and insulating glass units .....</b>	<b>25</b>
<b>A.2 Water drainage from the system .....</b>	<b>28</b>
<b>Bibliography .....</b>	<b>29</b>