



*Exterior application*

## **GEWE-dur<sup>®</sup> und GEWE-dur<sup>®</sup>-H** **Toughened safety glass for the highest standards**

The protected trademarks GEWE-dur<sup>®</sup> and GEWE-dur<sup>®</sup>-H are single panes of safety glass and meet all requirements which are made on modern thermally toughened glass: 4 – 5 x greater flex resistance compared to untreated flat glass (stable tension status), increased resistance to impact, shock and hail, thermal shock resistance, lower risk of injury, i.e. with excessive mechanical stress the pane breaks into blunt-edged, loosely connected fragments.

GEWE-dur<sup>®</sup>-H is a special, thermally toughened, hot-stored soda-lime single pane safety glass produced in accordance with EN14179, for which spontaneous breakage can be largely excluded. Special application safety has to be guaranteed, especially in the construction sector. Therefore this product, which undergoes the heat soak test, corresponds with the standards of the German construction code and as such is a regulated construction product, which in individual cases would not require special approval.



*Interior applications*



# SCHOLLCONSISTENT:COMPETENT:TRANSPARENTGLAS

The SCHOLLGLAS group produces GEWE-dur® high-grade toughened safety glass in modern furnaces in accordance with EN 12150 and ESG GEWE-dur®-H in accordance with EN 14179. This is done at several production sites in Europe and as such the company is always in the position to offer its customers optimum value for money for any kind of application.

The applications and uses for GEWE-dur®/GEWE-dur®-H range from interior glass applications, e.g. furniture, doors, showers, room dividers, to external security applications, such as all-glass facades and window glazing. In addition, specific areas with large thermal loads are covered.

In a further production step, GEWE-dur®/GEWE-dur®-H is also processed to become laminated safety glass, heat or sun protection glass, alarm glass and insulation glass. Information about the variety of tempered coatings for float glass and further technical details are available on request from our technical support team.



**Above: Heat soak furnaces are calibrated and are subject to external monitoring. Below: Fragmentation structure**

The technical characteristics of ESG / ESG-H:	
<b>Flexural strength</b>	120 N/mm <sup>2</sup> Clear float glass, pigmented, coated 75 N/mm <sup>2</sup> Enamelled float glass (enamelled surface under tensile stress) 90 N/mm <sup>2</sup> Ornamental glass
<b>Permissible flexural tensile stress</b>	50 N/mm <sup>2</sup> and/or 30 N/mm <sup>2</sup> * (Calculated value in accordance with the technical rules for the application of linearly stored glazing [TRLV])
<b>Thermal shock resistance</b>	about 200 K
<b>Subsequent processing</b>	Not possible
<b>Shatter properties</b>	Close meshed fractures, many small "crumbs"
<b>Design</b>	Through individual cut and screen printing techniques before tempering process

\*) In the case of enamelled ESG

#### Proof

- Internal and external monitoring
- ESG / ESG-H conformity evidence corresponds with "Bauregelliste"

#### Examples of identification marks:



Glass thickness in mm	GEWE-dur® GEWE-dur®- H* in mm	GEWE-dur® GEWE-dur®- H* with screen printing in mm
2,85	on request	on request
3,15	850 x 1800	850 x 1800
4,00	1500 x 3000	1500 x 3000
5,00	2000 x 3000	2000 x 3000
6,00	2580 x 5000	2580 x 5000
8,00	2580 x 6000	2580 x 5500
10,00	2580 x 6000	2580 x 5500
12,00	2580 x 6000	2580 x 5500
15,00	2000 x 4000	2000 x 4000
19,00	2000 x 3000	2000 x 3000

\* GEWE-dur®-H: 3.15 = not possible; 4.00 = up to 1.68 m<sup>2</sup> max.; 5.00 = up to 3.5 m<sup>2</sup> max.

#### Remark

Other glass thicknesses, dimensions, sun and heat protection coatings and textured glass on request.

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