



Fondation Louis Vuitton, Paris

## GEWE<sup>®</sup>-tvg Semi-tempered glass in load-bearing structures

GEWE<sup>®</sup>-tvg is manufactured in our Nossen, Lommatzsch, and Ravensburg factories in accordance with EN 1863 and has a general approval by construction authorities – DIBt No. Z-70.4-67.

GEWE<sup>®</sup>-tvg is manufactured by heating and cooling the glass in a controlled way. The mechanical strength and thermal shock resistance are between the values of float glass and ESG. As laminated safety glass, GEWE<sup>®</sup>-tvg is used in applications where the strength and the temperature resistance of float glass are not enough and where ESG, because of its delicate fragmentation when shattered, does not provide the required level of protection. Semi-tempered glass cannot be mechanically further processed (i. e. cutting, chilling etc.) after tempering.

GEWE<sup>®</sup>-tvg is the ideal product for further processing into laminated safety glass. In this combination, a safety glass is created for strengthening, partition walls, point-glazing and overhead glazing, which combines above all, constructive safety features with active and passive safety features in an optimally manufactured product.

Glass thickness (mm)	GEWE <sup>®</sup> -tvg (mm)	Glass thickness (mm)	GEWE <sup>®</sup> -tvg (mm)
3,15	1100 x 2200	8,00	2800 x 6000
4,00	2000 x 2500	10,00	2800 x 6000
5,00	1700 x 4000	12,00	2800 x 6000
6,00	2800 x 6000		

**Note:** Execution – clear, coloured, enamelled

### The technical characteristics of GEWE<sup>®</sup>-tvg:

<b>Flexural strength</b>	70 N/mm <sup>2</sup> TVG made of float glass (clear, coloured, coated) 45 N/mm <sup>2</sup> TVG made of enamelled float glass (enamel surface under tension) 55 N/mm <sup>2</sup> Ornamental glass
<b>Permissible flexural tensile stress</b>	29 N/mm <sup>2</sup> and 18 N/mm <sup>2</sup> *) (Calculated value in accordance with the general approval by construction authorities)
<b>Thermal shock resistance</b>	Approx. 100 K
<b>Subsequent processing</b>	Not possible
<b>Shatter properties</b>	Radial cracks from the attachment point
<b>Design</b>	Through individual cutting and screen printing techniques before tempering process

### Proof

- Correspondingly, all panes of glass are visibly and permanently marked
- Internal and external monitoring in accordance with EN 1863-2
- General approval by construction authorities – DIBt No. Z-70.4-67

\*) Enamelled TVG



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