

Back-ventilated, non-loadbearing, external enclosures  
of buildings, made from tempered safety glass panels  
Requirements and testing

**DIN**  
**18 516**  
Part 4

Außenwandbekleidungen, hinterlüftet  
Einschalben-Sicherheitsglas,  
Anforderungen, Bemessung, Prüfung

In keeping with current practice in standards published by the International Organization for Standardization (ISO), a comma has been used throughout as the decimal marker.

Dimensions in mm

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**1 Scope and field of application**

This standard, in conjunction with DIN 18 516 Part 1, specifies the design and construction of tempered safety glass back-ventilated external wall cladding<sup>1)</sup>.

**2 Tempered safety glass panels**

**2.1 General**

For the purposes of this standard, thermally toughened safety glass panels (safety glass panels, for short) shall be used for external wall cladding and be produced from glass products complying with DIN 1240 Parts 1, 3 or 4.

Surface coatings such as enamels, which may improve the properties of the glass, shall be permitted.

**2.2 Flexural strength**

The flexural strength of tempered safety glass, as a function of glass type, shall be as specified in table 1.

See annex A 1 for permissible stresses in safety glass

Table 1.

Panel material	Minimum flexural strength <sup>1)</sup> in N/mm <sup>2</sup>
Clear float glass	120
Window glass, cast glass	90
Glass with enamelling	75
subject to tension	
subject to compression	120

<sup>1)</sup> Defined as the minimum stress which results in a 5% probability of failure at a confidence level of 95% (cf. DIN 18 303 Part 1).

<sup>2)</sup> Cf. DIN 1258 Part 2 for concrete.

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