

Bent glass ESG



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Dubiel Vitrum owns an integrated glass tempering and bending line. Glass is bent in the bending section of the tempering facility. The bending radius is the external radius of glass.

TECHNICAL TERMS OF REFERENCE FOR PRODUCTION OF BENT GLASS (safety ESG) at Dubiel Vitrum

size limitations of pieces for bending

- minimum size: 200 x 350 mm (where 350 mm is the bending radius)
- maximum size: 1,950 x 1,000 mm (where 1,000 mm is the bending radius)

glass thickness

3.2 - 12 mm

**minimum bending radius
depending on the glass thickness**

- 3.2 mm glass – R=1,000 mm
- 4 mm glass – R=450 mm
- 5 mm glass – R=450 mm
- 6 mm glass – R=600 mm
- 8 mm glass – R=800 mm
- 10 mm glass – R 1,000 mm
- 12 mm glass – R 1,200 mm

Bending radius is the external radius of glass

maximum bending radius

no limits

deflection curve

For deflection curve < 150 mm, the bending and cooling processes are

For deflection curve > 150 mm, the bending and cooling processes require external intervention (glass from the bending section is moved to the cooling section)

**additional technical
information**

- bent glass in cylindrical shapes (i.e. according to a fixed bending radius)
- in bent glass, there are always straight sections at the beginning and end which equal from 40 to 80 mm depending on the glass thickness
- bent glass can be laminated
- bending etched glass – the etched side always on the concave side

Applications of bent glass

Bent safety glass is striking in appearance and perfectly complements modern interior arrangement options (balustrades, glassed-in structures, shower cabins, elevator doors), as well as attractive solutions in construction (bent glass barriers).

Note that bent glass is difficult to produce in terms of precision and repeatability of dimensions, which is why it requires a lot of effort and careful processing.



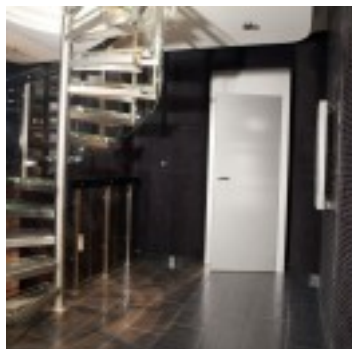
[2]



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Source URL: <https://www.dubielvitrum.pl/en/offer/construction-glass/products/bent-glass-esg.html>

Links

- [1]
https://www.dubielvitrum.pl/sites/default/files/styles/duze_800/public/img_1397.jpg?itok=f2m-Atv9
- [2]



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Published on Dubiel Vitrum - lustra łazienkowe, na wymiar, szkło bezpieczne, hartowanie szkła, obróbka, ściany szklane (<https://www.dubielvitrum.pl>)

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[3] https://www.dubielvitrum.pl/sites/default/files/styles/duze_800/public/dscf1643.jpg?itok=el74Hf1q

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