

INSTRUCTIONS TO AVOID THERMAL STRESS OF THE GLASS

There are some occasions that can cause the thermal stress and crack on the glass.

The following recommendations are provided to avoid :

1. Paper or plastic **screen or sticker** on the glass, inside / outside (especially dark colors).
Recommendation: avoid. Particularly in stores.
2. **Interio curtain** heighten the glass stress if opaque and no ventilation.
Recommendation: the space between the glazing and the curtains must be connected with the air on the inside of the building.
3. **Objects against the glazing** (especially of dark color) significantly heighten the glass stress.
Recommendation: avoid closer than 30cm from the glazing.
4. **Radiators** increase the stress if the temperature of the radiator rises.
Recommendation: avoid high temperature of the heating fluid (must not exceed 65°C).
5. Induction units with **air-fan** (hot air) increase the stress if the distance between the blower-unit , even parallel, to the glazing decreases.
Recommendation: Air should be towards the inside of the building. Vents must be placed at least 30 cm away from the glazing.
6. Avoid heating of the glass in any way. Heated glass is highly stressed when beside window is tilt opened.
7. Avoid partial shadow of the glass in sunny day (uneven heating).
8. Considering spontaneous cracks in tempered glass caused by nickel sulphide, we propose to carry out additional HST (heat resistance) tests for tempered glass (in accordance with EN 14179 standard). The mentioned checks reduce the possibility of spontaneous glass breakage. For detailed information, please contact our Sales Department.
9. In the absence of HST testing, all claims for spontaneous breakage of tempered glass will be rejected and not considered.

Recommendations are provided with in association with AGC Technical Advisory Service.