

# SCHOTT® Flat Glass

## Use of Flat Glass



### Appliance manufacturers using glass panels should follow the below guidelines

- Packaged glass or single glass panels should be kept vertical during transport to avoid relative movement of the glass and other materials.
- If panels are hinged onto holes drilled in the glass, these holes should be bushed and carefully engineered.
- Rigid contact between metal and glass should be avoided, especially when glass panels are likely to be subject to thermal stresses.
- The method used to hold glass panels in appliances should not produce additional stress in the panels (within the temperature range they might encounter). Allowance should be made for any differences in coefficients of thermal expansion between the glass and its support by permitting movement of one in relation to the other.
- When designing an appliance, manufacturers should minimize the possibility of thermal gradients occurring in the glass panels during use of the appliance.
- If the temperature of the panels is likely to exceed 300 °C the characteristics of the glass may change. Expert advice should be sought.  
Note: Fully tempered glass normally withstands temperatures of up to 300 °C but will lose part of its initial toughness level depending on the temperature- / time-load.
- Appliance manufacturers should state in their appliance operating instructions that harsh abrasive cleaners should not be used, as they can scratch the glass surface, and that glass panels should not be used as working surfaces in a workshop.
- Suitable thermal shock and impact tests should be carried out on the panel after being installed in the appliance, to ensure that the safety characteristics of the glass are not detrimentally affected by the design of the appliance.

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