Robax® Installation Tips

1. Even under thermal load, ROBAX® glass-ceramic panels show near-zero thermal expansion. For this reason, the different thermal expansion of the various framing materials in relation to the ROBAX® fire-viewing panel must be taken into consideration for the design of the entire fireplace.

2. Additionally, the possible manufacturing tolerances of the frame and the glass-ceramic panel have to be considered.

3. Contact pressure which leads to bending stress on the panel must be eliminated. This can be achieved, for example, by limiting torque or with a limiter which limits screw-in depth.

4. As a marginal torsion of the frame construction cannot be excluded it must be prevented that this torsion is transmitted onto the ROBAX® panel by using a thermally stable, permanently elastic sealing (such as fiberglass or mineral fiber fabrics).

5. If – due to constructive reasons – the pressing of the fire-viewing panel in the frame is inevitable, then the contact pressure must be evenly distributed (never at single points) over the circumference of the panel.

6. The panel must not come into direct contact with metal frame parts. Also here, it is recommended to use a thermally stable, permanently elastic seal.
7. Additionally, the instructions of the seal manufacturers must be followed, particularly with regard to contact pressure of materials.

8. During installation, it is essential to protect the glass-ceramic panel from potential damage (impacts, bumps and scratches), especially the edge areas.

9. Generally, SCHOTT advises against gluing the fire-viewing panel. Nevertheless, if a high-temperature-resistant silicone is applied circumferentially on the panel, the elastic limit of the silicone must be considered. Due to the excellent bonding properties of glass to silicone, exceeding the elastic limit can lead to cracked or broken glass-ceramic panels. Punctual gluing with high temperature-resistant silicone is possible for sealing purposes.

SEE WHAT
**GLASS
CAN DO**