

APPLICATION GUIDE FOR SPECIAL GLASS AND PLASTIC SURFACES

For glass surfaces, the product may only be installed on tempered glass. For plastic surfaces, the exact substrate material must always be identified, as different transparent plastics may react differently to heat, thermal expansion and mounting stress.

Where the substrate material or structural design cannot be clearly identified, professional consultation is recommended before installation.



I. WHAT TO CONSIDER?

- **MATERIAL IDENTIFICATION** – it is important to determine whether the surface is made of PMMA / acrylic / Plexiglas, PC / polycarbonate, PET / PETG, PVC or another type of plastic.
- **THERMAL EXPANSION AND EXPANSION GAPS** – plastics may expand more than glass when exposed to heat, so sufficient room for movement is required.
- **MOUNTING** – overtightened, rigid or mechanically stressed mounting increases the risk of deformation and stress-related damage.
- **HEAT BUILD-UP** – sealed air gaps, double-wall structures, internal blinds or blackout shades may cause the surface to heat up excessively.



II. MATERIAL TYPES AT A GLANCE

- **PC / POLYCARBONATE:** More heat-resistant, but its greater thermal expansion must be taken into account. Subject to appropriate assessment, films with 30%, 50% and 70% visible light transmission may be suitable and can generally be installed with greater confidence on this type of surface.
- **PMMA / ACRYLIC / PLEXIGLAS:** More sensitive to heat, particularly in thin, curved or double-wall structures. Films with 50% and 70% visible light transmission may be considered after a preliminary assessment.
- **PET / PETG / PVC:** These materials must always be assessed individually, as they may react differently to heat and adhesives.

III. WHY IS A PRELIMINARY ASSESSMENT IMPORTANT?



- For plastic surfaces, the main risk factor is not the melting point, but the softening, heat deflection and deformation temperature.
- Most transparent plastics gradually lose their rigidity when exposed to heat.
- This may result in warping, rippling or stress-related damage around mounting points.

IV. RECOMMENDED CHECKS BEFORE INSTALLATION



- The exact substrate material
- The structural design
- The mounting method
- The available allowance for thermal expansion
- The possibility of heat build-up
- A test application, where necessary