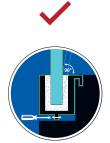
#### **GM UNIQUE SELLING POINTS** STANDARD-COMPLIANT DESIGN

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 Free installation

 Low constraint bearing

 DIN 18008-1 - 10.1.3 | ÖN B 3716 -1 - 6.2 | SIGAB 5.0



**Stable in use** DIN 1055-100 - 3.1.2.3 and 10.1 | DIN 18008-1 - 5.2 (TRLV 3.1.4 and 3.1.6) | TRAV 2.4 | EN 1990 - 3.4 and 4.1.7 | ÖN B 3716 -1 - 6.2



Unchangeable positional stability Position safety due to destabilizing actions DIN 1055-100 - 9.2



Variable position safety Due to slipping of wedges etc. Changes in the fastening

Non-reversible serviceability limit state due to e.. dirt

Indirect effects from ice, snow and moisture the storage

conditions. Environmental influences with an effect on

the durability of the supporting structure

Forced stress due to installation

Wedges must not be used (local stresses).

Change through use

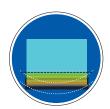
(gravel ...)



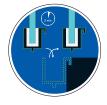
Uniform force distribution Bonded handrail DIN 18008-4 - Appendix F



Uniform storage Avoidance of unplanned voltage peaks in the bearing DIN 18008-1 - 10.1.1 and 10.1.3



Unscheduled charges Avoid influences from the substructure on the glass railing, e.g. deformations DIN 18008-1 - 3.1.1 and 7.1.5 I (TRLV 1.2) I ÖN B 3716-1 - 1



Service Constructions must be designed in such a way that they can be easily and appropriately replaced or repaired.



Voltage peaks due to use Local fixings at large distances cause a non-linear bearing. No rubber profile



Voltage peaks Constraints caused by the handrail must be prevented by suitable design measures.



**Unscheduled charges** Substructure can have a negative influence on the glass statics.



**Repair** Construction is not designed in such a way that it can be easily and appropriately replaced or repaired.

Our interpretation of standards and technical guidelines; no claim to completeness.

#### **GM UNIQUE SELLING POINTS** QUALITY CRITERIA

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### Quality composite with PVB 4-fold film Film thickness of PVB min. 1.52 mm for all laminated safety glass made of ESG/TVG and thus improved delamination properties GM RAILING® Quality= PVB min. 1.52 mm thick Protective anodizing for load-bearing profiles Protection against premature surface and crevice corrosion, optimization of bonding surfaces GM RAILING® Quality: Load-bearing aluminum profiles and adhesive substrate = protective anodizing Permanent tightness Compatibility only exists with identical products. EPDM rubber is not compatible with silicone and is not permanently impermeable. Rubber fatigues, becomes brittle and shrinks. GM RAILING® Quality: Bearings and seals = DC silicone material **Optimum adjustability** The vertical and horizontal position as well as the angle accuracy must be practicably finely adjustable. GM RAILING® Quality: Adjustment is also system responsibility. Thermal expansion aluminum All screw connections must designed in such a way that account.



changes in the length of the aluminum profiles are possible. Practical screw spacing is an advantage. GM RAILING® Quality: Expansion must be taken into



#### Consistent quality

Calculations, tests and execution match. Theory alone is not enough. GM RAILING® Quality: 8 abz, 100 test certificates and over 1,000 original component tests.

Our interpretation of standards and technical guidelines; no claim to completeness.

## GM UNIQUE SELLING POINTS

QUALITY FROM THE CUSTOMER'S POINT OF VIEW

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