



GM RAILING® DOUBLE
PRODUCT REPORT



KEY

- A falling down side
- ad adaptor
- af adjustment fitting
- aj adjustment
- bb balance base
- br bearing rail
- bt bearing track
- ca covering angle
- cop connection profile
- cp curved profil
- cpc covering profile clips
- ct c-track 28x28 mm
- dbb drainage building side
- gb full glass balustrade
- hb height balustrade
- hr handrail
- ld direction of load
- p GM point
- rg rubber gasket
- scbs steelconstruction building site
- sp shuttering profile
- sr support rail
- uc underconstruction profile
- ucb underconstruction bracket
- v walking site
- ws windowsill
- d¹ profile depth
- d_{le} distance of edge
- ffi floor finish level
- h^{tot} total height
- h-of horizontal offset
- h¹ height of glass stick out
- h² profile height
- h³ height of handrail stick out
- v-of vertical offset

GLAS MARTE COMPANY PROFILE

Innovative development, competent advice, detailed planning and accomplished execution – you will find all this at Glas Marte combined in a single operation.

Founded in 1930, the company has gradually expanded its knowledge about the versatile building material that is glass, and now offers a wide product range, starting with flat and insulating glass, a variety of surfaces, multi-award-winning sliding and holding systems as well as delicate glass partition wall systems, through to DIBt-tested glass railings. Whether for indoors or outdoors, in private or public buildings – the more complex the requirements, the more innovative and creative the idea, the better you will be taken care of by Glas Marte.

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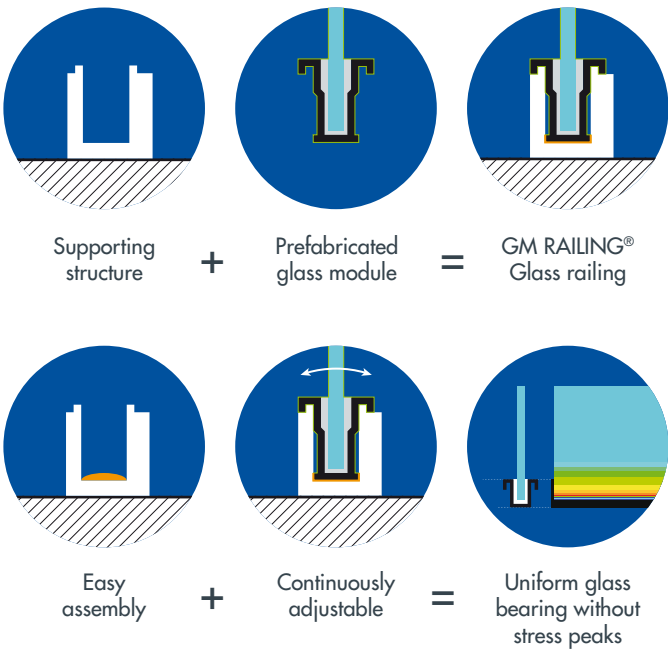
PRODUCT DESCRIPTION
GM RAILING® DOUBLE

With the GM RAILING® DOUBLE glass railing system, Glas Marte combines the uniform, tension-free glass support of the GM RAILING® systems with the smallest and most compact U-profile.

By the U-profile and glass module interlocking on both sides, an extraordinary stability of the overall system is achieved. The force arising in case of loading is diverted into the substrate via both profile anchors, making the system twice as resilient.

The glass railing is optimised for connecting external façade claddings. Façade metal sheeting including joint connector sheeting, HPL façade panels, plasterboard panels and many more can be easily integrated. The glass modules can even be suspended once the façade cladding has been fitted.

The protection against moisture is particularly innovative. By gluing over the whole area, water is unable to penetrate in the first place. Sealing levels, foils and sheeting can be optimally attached. A second sealing level can even be created optionally by means of a deflection profile.



STANDARD-COMPLIANT DESIGN
FOR GLASS RAILINGS

1



DOS



DON'TS



CONSTRAINT-FREE BEARING
Low-stress bearing
DIN 18008-1 – 10.1.3
ÖN B 3716-1 – 6.2
SIGAB 002 – 5.3



FORCED STRESS
Forced strain due to installation
Wedges must not be used
(local stresses)



UNCHANGABLE POSITION STABILITY
Position stability through destabilising effects
EN 1990



CHANGE DUE TO USE
Irreversible limit state of fitness for use due to, e.g., dirt (gravel ...)
Indirect impacts from ice, snow and moisture influence the bearing conditions
Environmental impacts with the effect on the durability of the supporting structure



UNIFORM BEARING
Avoidance of influences from the substructure on the glass railing, e.g. deformations
DIN 18008-1 – 3.1.1 and 7.1.5.1
ÖN B 3716-1 – 1



UNPLANNED STRESSES
Local pressure points directly on the glass cause stress peaks and lead to glass breakage.

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

1. EXECUTION COMPLIANT WITH STANDARDS | 2. STATIC SYSTEM | 3. ADJUSTMENT RANGE

2



3



9 | PRODUCT REPORT FOR GM RAILING® DOUBLE – DOS AND DON'TS

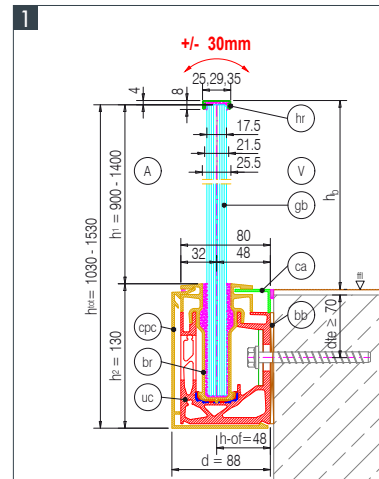
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Further information
about GM RAILING® DOUBLE

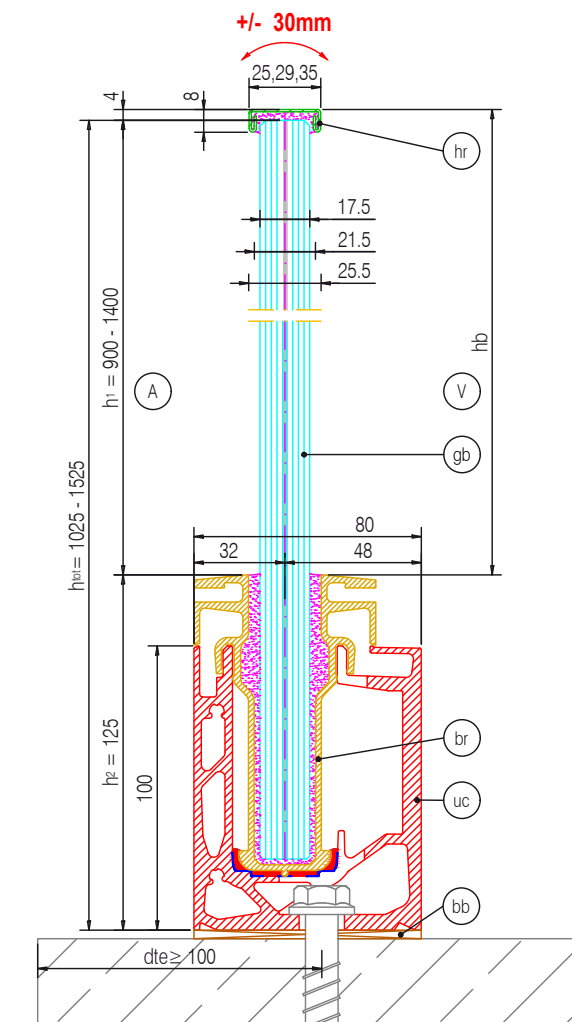
SPECIAL ADVANTAGES

- » twice as clever
- » twice as effective
- » twice as fast
- » twice as resilient
- » twice as strong



1. GM RAILING® DOUBLE SIDE | 2. GM RAILING® DOUBLE TOP

2

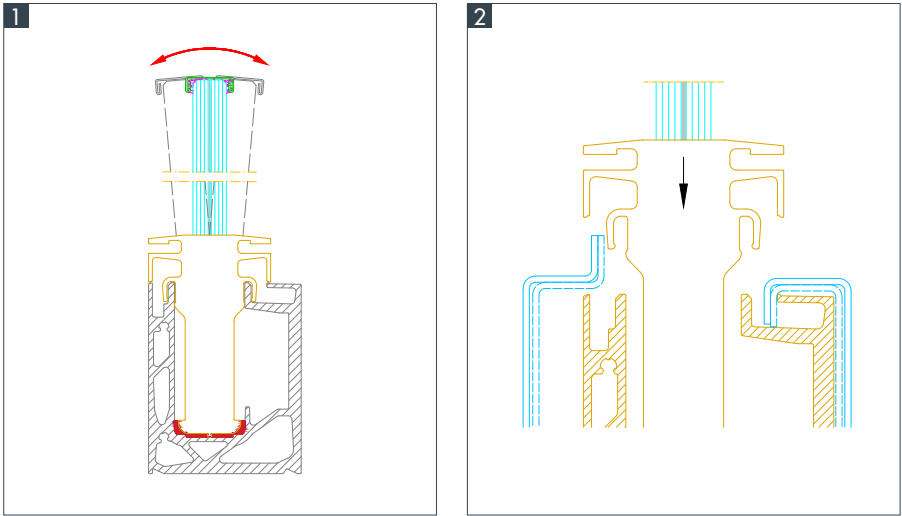


GM RAILING® DOUBLE THE TWICE AS GOOD GLASS RAILING SYSTEM

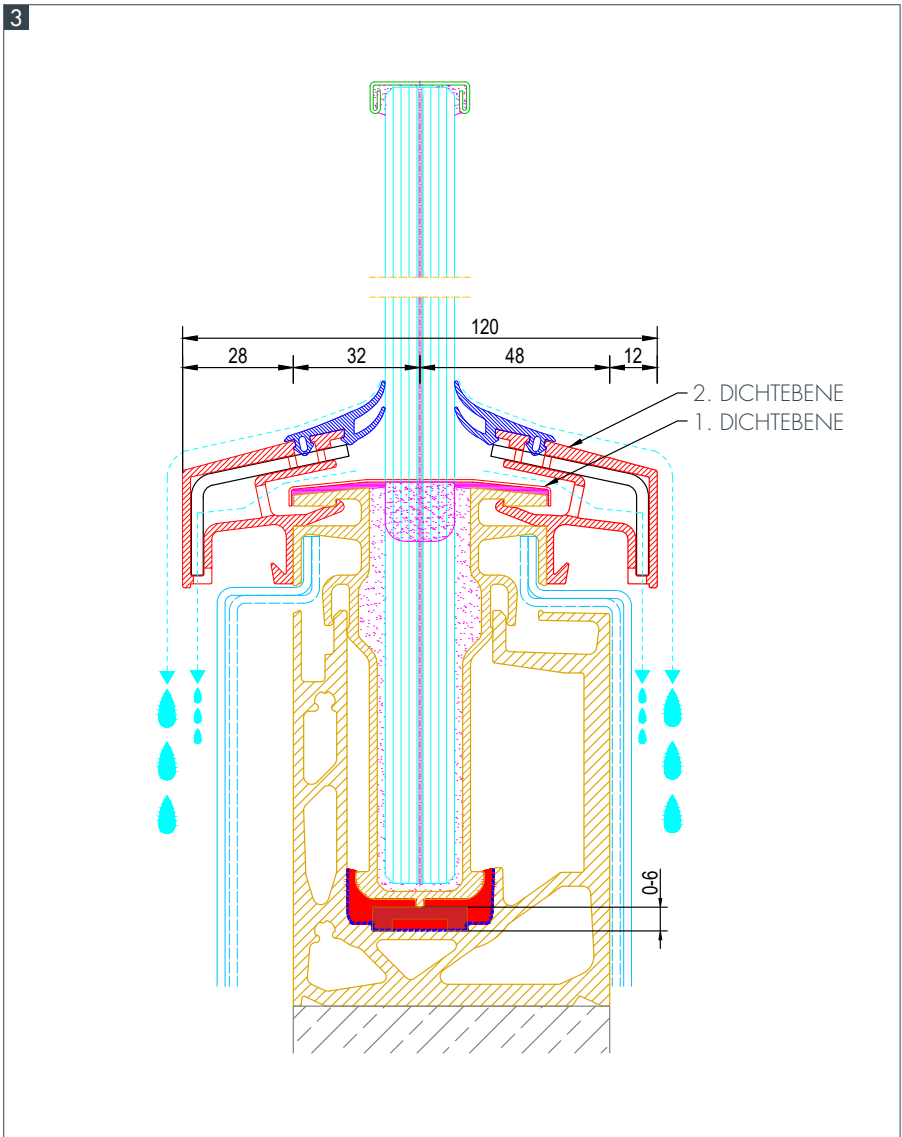
GM RAILING® DOUBLE is a very delicate glass railing system with optimal, uniform glass support. The prefabricated glass modules can be easily adjusted and are extremely robust.

The stability of the overall system is significantly increased by the structural bonding of the glass and profile. A simple, infinite adjustment and a perfect seal by means of a second sealing level as well as an optimal attachment of all types of sheeting and foils are what set GM RAILING® DOUBLE apart.

GM RAILING® DOUBLE
SYSTEM-INTEGRATED SECOND SEALING LEVEL



1. FIXING & ADJUSTMENT | 2. ON-SITE METAL SHEETING | 3. CROSS-SECTION WITH DEFLECTION PROFILE



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