



**GM RAILING®**  
PRODUCT REPORT

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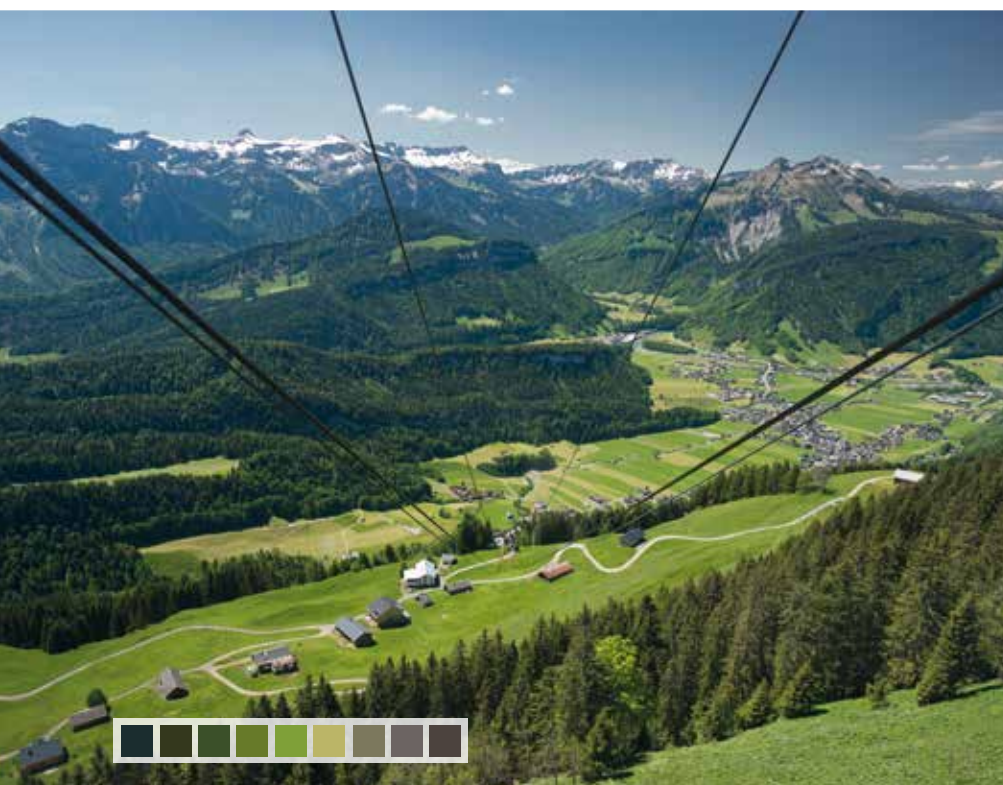
A photograph of a modern building with a glass facade, featuring large windows and a dark frame. The building is partially obscured by a dark, semi-transparent rectangular overlay containing text. The background shows a clear blue sky and some green foliage on the left side.

## GLAS MARTE COMPANY PROFILE

Innovative development, competent advice, detailed planning and masterful execution – you will find all this united under the umbrella of Glas Marte.

Founded in 1930, the company has successively expanded its knowledge of the versatile building material glass and today offers a wide range of products, from flat and insulating glass to a wide variety of surfaces and award-winning sliding and holding systems as well as DIBt-tested glass railings. Whether indoors or outdoors, in private or public buildings – the more complex the requirements, the more innovative and creative the concept, the more you are in good hands with Glas Marte.







## GM WORLDS OF COLOUR EXPRESSIVE DESIGN

Colour has an impact. A cool blue, a warm red or rather a fresh green – the choice of colour is of central importance in interior design. It essentially determines the atmosphere. Whether outside or inside, glass can be used to create permanent accents of colour. Quite discreet or powerfully luminous. Entire expanses, partial surfaces or with individual patterns. Glas Marte supplies hundreds of shades, applied by screen or roller printing or incorporated by way of coloured laminated glass films.

Be inspired by the wide range of colours!

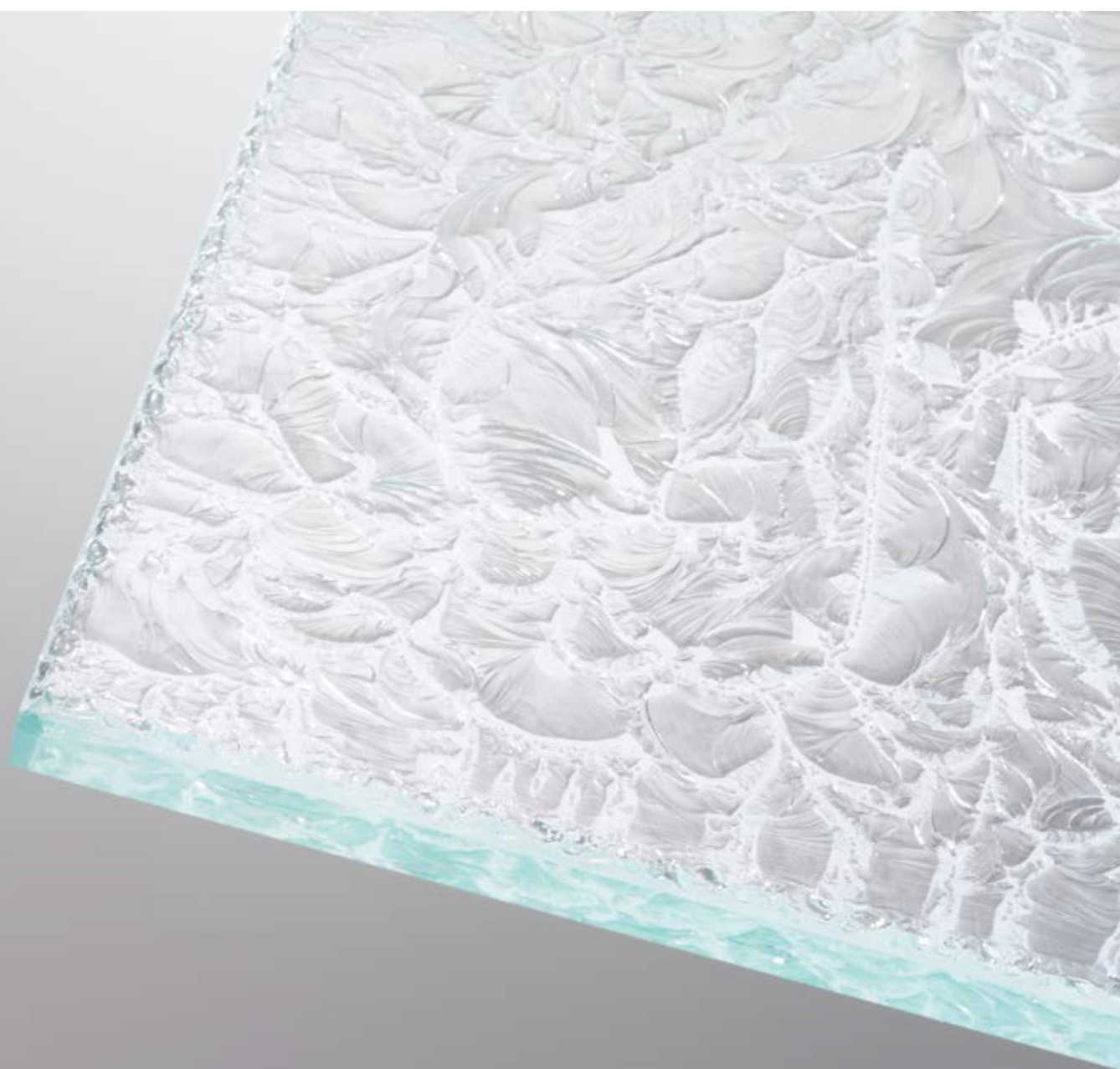




## SURFACE TREATMENT UNIQUE EFFECT

Glass can be ultra-smooth. But it doesn't have to be. Glass Marte developed and refined various surface treatment options ranging from complex sandblasting to several types of printing to the production of textured glass to the incorporation of the finest embroideries within the glass.

When it comes to GM ICE-H®, for example, glass material is detached from the surface, which leaves an interesting, uniquely broken surface structure with a cool, vibrant appearance. Translucent and reflective at the same time, the GM LAMIMARTEX® Collection, where textile and glass merge into one.

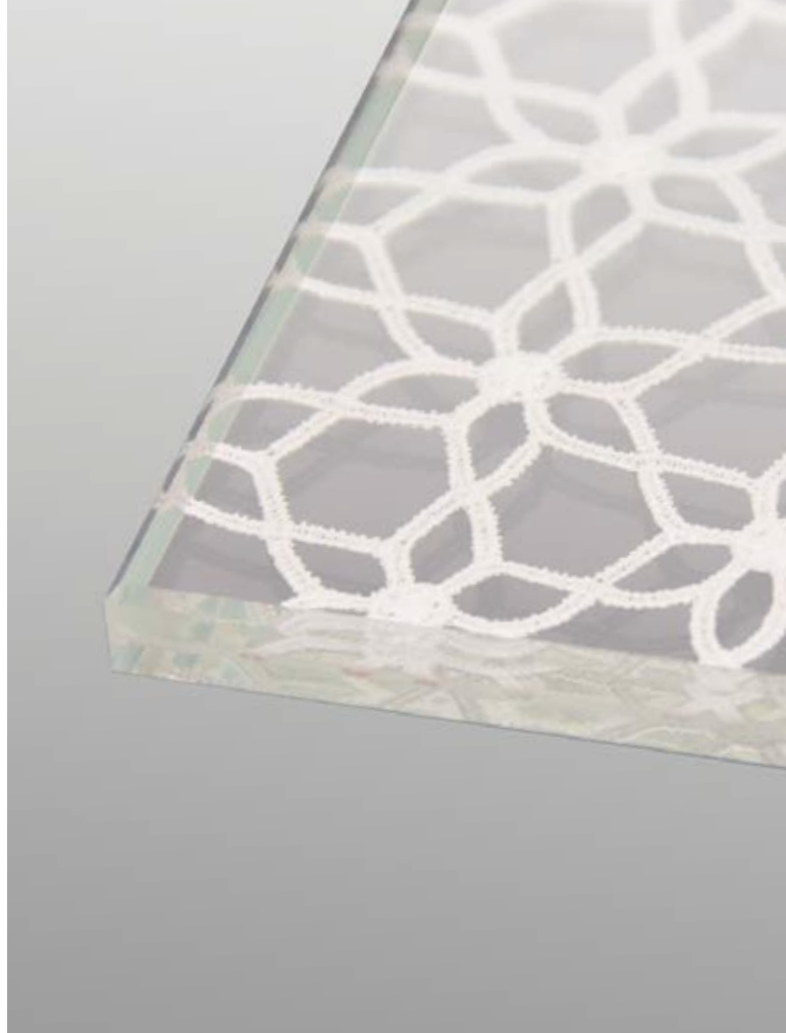


GM ICE-H®

## GLASS TYPES SAFETY TESTED

Place and purpose determine the type of glass used. As a processor and manufacturer, Glas Marte offers a wide range of glass types for this purpose: tempered, laminated and insulating glass from our own, controlled manufacturing as well as mirrors, ornamental glass, scratch resistant or shower glass to name but a few.

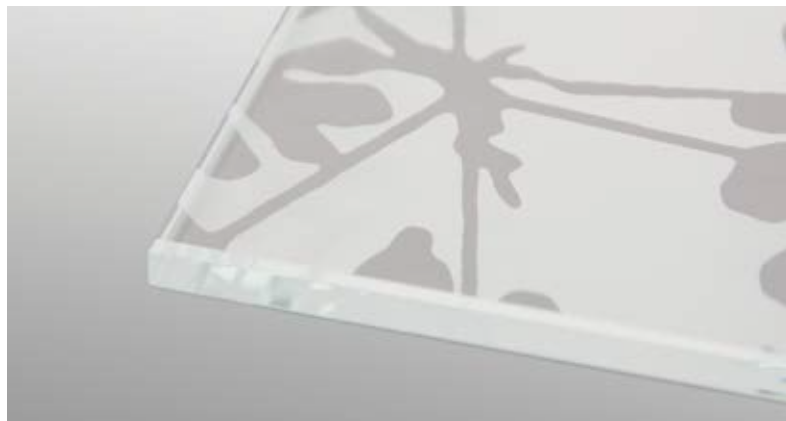
As a customer you benefit not only from our many years of experience but also from the short distances between competent advice, ultra-modern production and proper delivery, which Glas Marte guarantees as a full-range supplier.



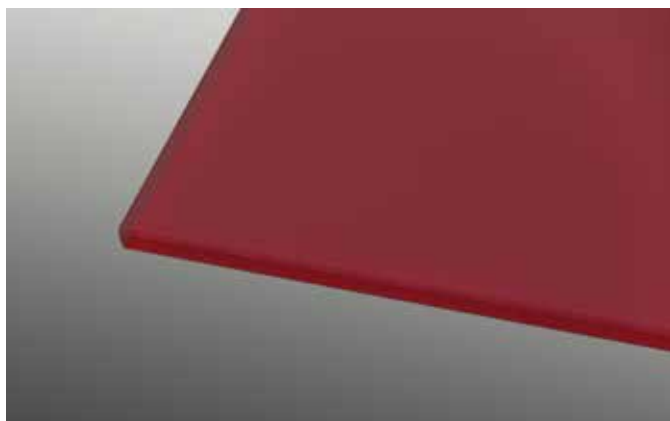
GM LAMIMARTEX®



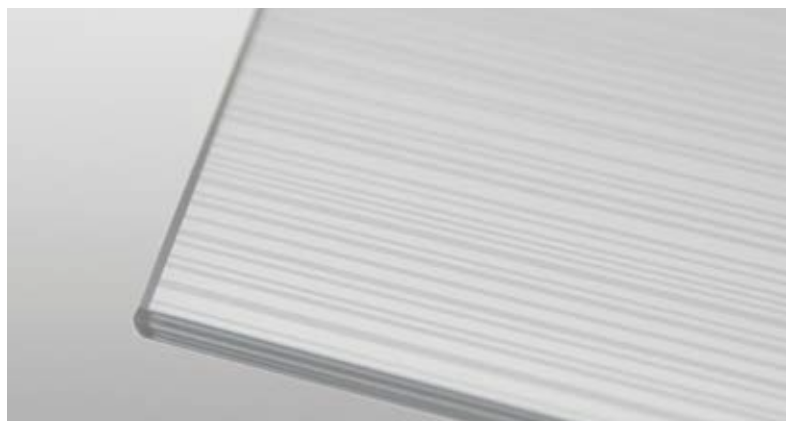
GM SATINATO®



GM SATINATO® FLOWER



GM TEMPERED GLASS COLORMART®



GM SATINATO® STRAIGHT



Additional Information  
on GM RAILING®

## GM RAILING® THE MECHANICALLY PERFECT MODULAR SOLUTIONS

As a building material and design element, glass has long been a solid architectural fixture. However, glass balustrades are still a challenge for every planner, architect or structural engineer – not to mention their construction and assembly. GM RAILING® has developed a perfect technical modular solution for these special requirements.

GM RAILING® impresses with its versatile application possibilities. Based on five basic systems – UNI, LEVEL U, MASSIVE U, PLAN, BENT and FRONT – we can provide a variety of solutions to fulfil nearly all requirements. GM Engineering will be pleased to assist you in the implementation of more sophisticated special solutions.

### THE MODULAR CONCEPT

GM RAILING® glass balustrades consist of a prefabricated glass construction module (glass + profile are firmly connected to each other at the factory and optimally supported) and a substructure perfectly matched to the construction.

Assembly can be ideally integrated into a construction schedule due to the delivery of the glass construction module (glass + profile in a prefab module). The installation of the glass itself usually only takes place during the course of the completion work. The glass and all visible surfaces are therefore optimally protected against soiling and damage caused by the construction work in the final phase of the project.



Substructure + Prefab glass construction module = GM RAILING® Balustrades







#### ADVANTAGES OF THE GM RAILING® SERIES

- » Modular concept reduces construction and planning efforts
- » Optimum cavity-free glass storage
- » Even bedding without high stress peaks
- » Infinitely adjustable
- » Various construction variants possible (steel, wood and solid construction)
- » Competent and comprehensive support and technical elaboration via GM Engineering
- » Safety tested (test certificates available)
- » All verification according to DIN 18008-4 available.
- » Detail database/hundreds of design options

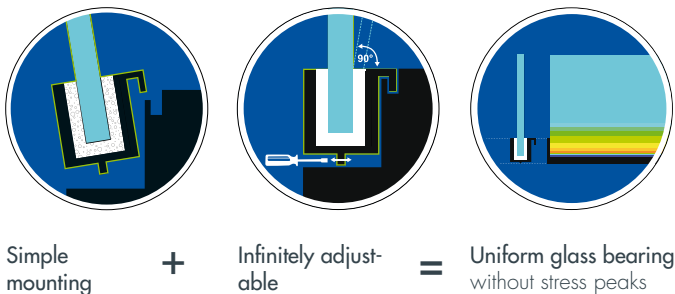
## ASSEMBLY IN 2 STEPS

### EASY AND FAST

GM RAILING® balustrade systems allow for linear bearings without the need for vertical columns due to prefabricated glass construction modules in conjunction with a substructure profile and a continuous handrail.

The prefabricated glass construction modules are mounted in the substructure profiles, which are to be installed on-site, and screwed together using cylinder screws or special spacers. This screw connection allows for tolerance compensation of the vertical position at rail height. Due to the fixing in the mounting rail, no glass drillings are necessary. This reduces planning and assembly effort as well as costs. Systematisation can generate benefits across all areas.

#### EXPLAINED STEP BY STEP







## STANDARD-COMPLIANT DESIGN OF GLASS BALUSTRADES

✓	DO'S	✗	DON'TS
	<b>PRESSURE-FREE INSTALLATION</b> Low constraint storage DIN 18008-1 – 10.1.3 ÖN B 3716-1 – 6.2 SIGAB 002 – 5.3		Forced strain due to installation Wedges must not be used (local stresses)
	<b>UNCHANGABLE POSITION STABILITY</b> Position stability through destabilising effects EN 1990		<b>CHANGE THROUGH USE</b> Non rectifiable serviceability limit state due to e.g. dirt (gravel ...) Indirect effects from ice, snow and wetness influence storage conditions Environmental influences with effect on the durability of the supporting structure
	<b>UNEXPECTED STRAINS</b> Avoidance of influences from the substructure on the glass railing, e.g. deformations DIN 18008-1 – 3.1.1 and 7.1.5 I ÖN B 3716-1 – 1		Substructure may negatively influence the glass statics

Our interpretation of standards and technical guidelines; This list does not claim to be exhaustive.



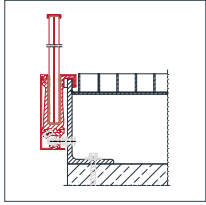


## PRODUCT OVERVIEW

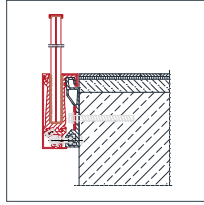
### GM RAILING® – THE SYSTEMS

UNIVERSAL	from Page 16	<p><b>GM RAILING® UNI</b> THE UNIVERSAL SOLUTION</p> <p>The GM RAILING® UNI system can be easily integrated into a <b>wide variety of constructions</b> thanks to the <b>consistent modular structure</b> of the various variants, giving planners a unique freedom of design.</p>
IN THE GROUND	from Page 24	<p><b>GM RAILING® LEVEL U</b> FOR INSTALLATION WITH EXPOSED CONCRETE</p> <p>The GM RAILING® LEVEL U system is designed for applications in which the mounting unit for the glass railing <b>is recessed in the floor surface – concrete</b>. Only the relevant base and protruding glass itself are to be seen.</p>
LATERAL/ ON TOP	from Page 26	<p><b>GM RAILING® MASSIVE U</b> FOR INDIVIDUAL PLANNING DETAILS</p> <p>GM RAILING® MASSIVE U is a glass railing designed for installations where the construction is no longer accessible from the side. The profile can be attached to a solid structure <b>from above</b> as well as <b>from the side</b>.</p>
FLUSH-MOUNTED	from Page 28	<p><b>GM RAILING® PLAN</b> FOR HIGHEST ARCHITECTURAL NEEDS</p> <p>The GM RAILING® PLAN fastening concept is a railing fastening that uses clear and direct architectural vocabulary. It impresses due <b>to its flush-mounting</b> and is refined in its details. Glass is the only thing visible, without fail.</p>
BENT	from Page 30	<p><b>GM RAILING® BENT</b> FOR BENT GLASS BALUSTRADES</p> <p>The greatest advantage of the GM RAILING® BENT system is the systematisation of fastening and storage. The glass <b>base, which is manufactured</b> to the highest quality and remains consistent over all radii and bending shapes, permits systematic statics.</p>
ATTIKA INSIDE	from Page 32	<p><b>GM RAILING® FRONT</b> FOR TRANSPARENT RAISING OF THE BALUSTRADE</p> <p>GM RAILING® FRONT is designed for <b>lateral</b> mounting on the side facing <b>the viewer, in a solid brick foundation</b> or low wall above the cornice of a classical façade.</p>

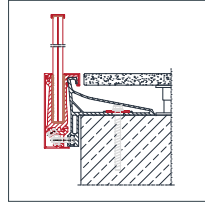




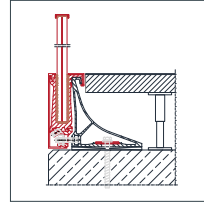
GM RAILING® UNI SOLO



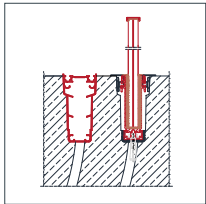
GM RAILING® UNI SIDE



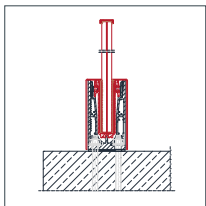
GM RAILING® UNI PART



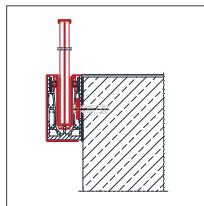
GM RAILING® UNI TOP



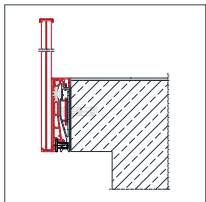
GM RAILING® LEVEL U



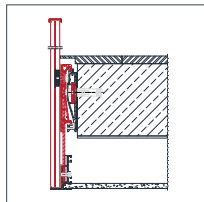
GM RAILING® MASSIVE UT



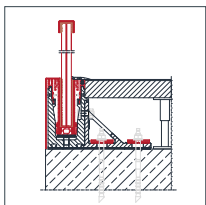
GM RAILING® MASSIVE US



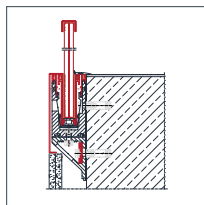
GM RAILING® PLAN 1



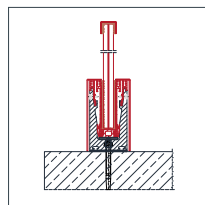
GM RAILING® PLAN 2



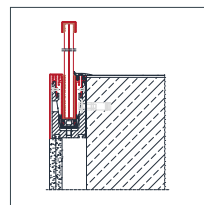
GM RAILING® BENT TOP



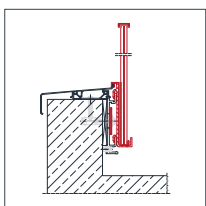
GM RAILING® BENT SIDE



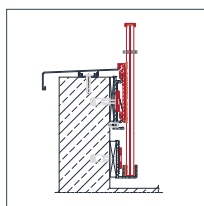
GM RAILING® BENT MASSIVE TOP



GM RAILING® BENT MASSIVE SIDE



GM RAILING® FRONT AIO



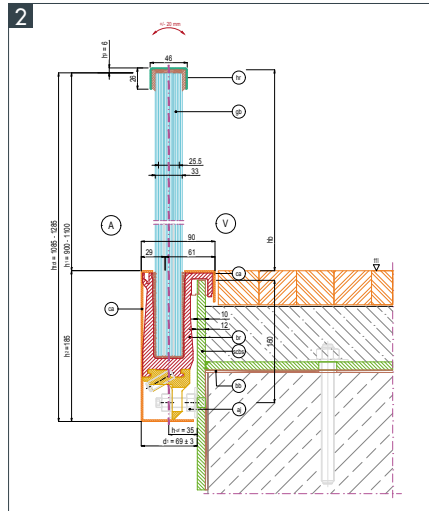
GM RAILING® FRONT AIT



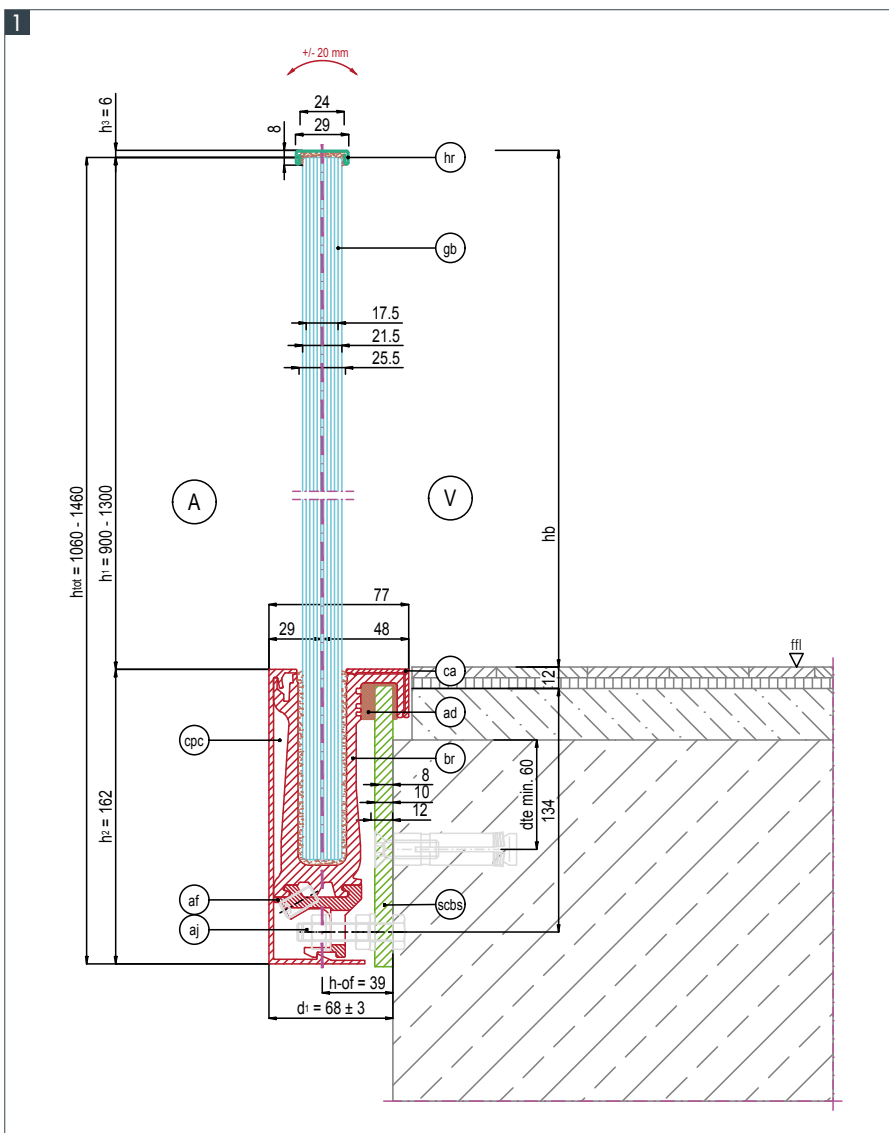
More information  
on GM RAILING® UNI SOLO

## SPECIAL ADVANTAGES

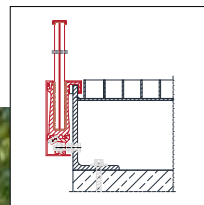
- » Suspension profile is mounted onto on-site steel construction
- » Cost-effective application with many different solutions
- » Vertical position infinitely adjustable
- » AbP P-2018-3064



1. GM RAILING® UNI SOLO 20 | 2. GM RAILING® UNI SOLO 30







## GM RAILING® UNI SOLO

### SUITED FOR STEEL SUBSTRUCTURE

Due to the use of a simple structural steel as substructure, UNI SOLO is a versatile and extremely adaptable series of the glass railing system GM RAILING® UNI.

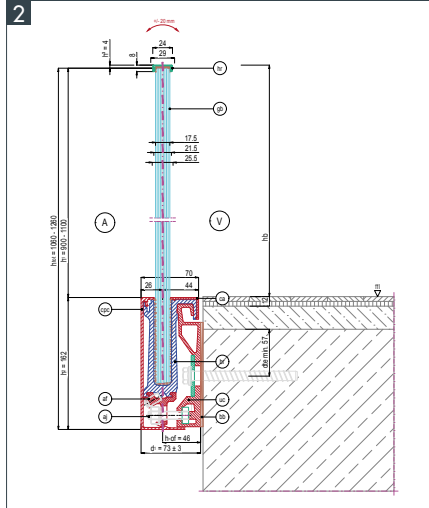
The innumerable possibilities for substructure design facilitate the planning and execution of the GM RAILING® glass railing system, especially for renovations and conversions. The UNI SOLO series is also optimally compatible with the design requirements of the various construction types.



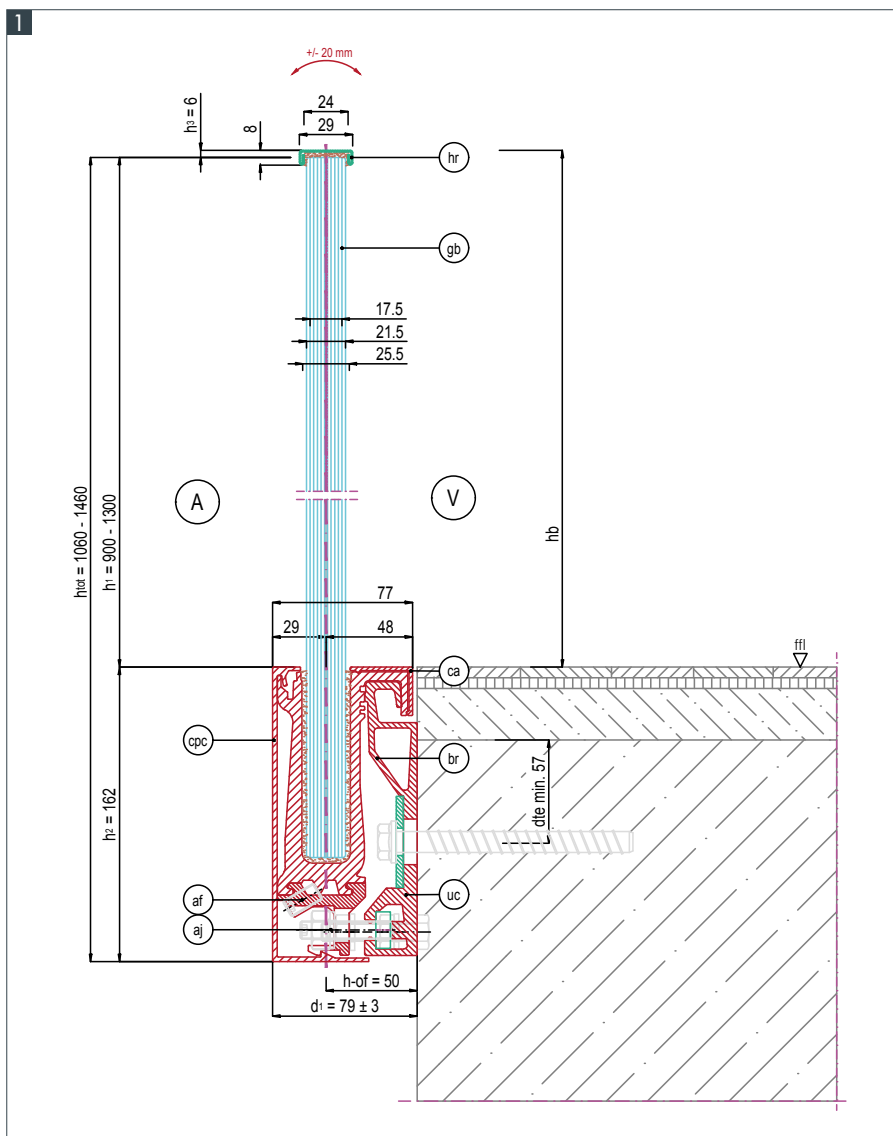
More information  
on GM RAILING® UNI SIDE

## SPECIAL ADVANTAGES

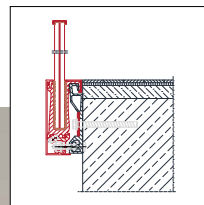
- » Low construction depth, particularly effective even in staircase and ramp areas
- » Versatile fastening possibilities
- » Vertical position infinitely adjustable
- » AbP P-2018-3064



1. GM RAILING® UNI SIDE 20 | 2. GM RAILING® UNI SIDE 16







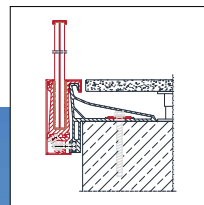
## GM RAILING® UNI SIDE FOR LATERAL ASSEMBLY

The substructure of GM RAILING® UNI SIDE is specially designed to be laterally attached to the supporting structure.

Particularly for designs involving ceilings, ramps and stairs, the shallow construction depth allows for well thought-out detailed planning that takes into account the often limited space available in the staircase area. One central advantage of the system is the easy fastening to very flat base superstructures on the glass railing. GM RAILING® UNI SIDE thus makes it possible to implement an extremely wide range of detailed solutions, particularly indoors.







## GM RAILING® UNI PART

### FOR SEALING AND THERMAL INSULATION SYSTEMS

The GM RAILING® UNI PART series is designed to be mounted on the component edge. GM RAILING® UNI PART is the excellent solution for highly insulated, energy-efficient areas of the building envelope such as roof terraces or balconies above living spaces.

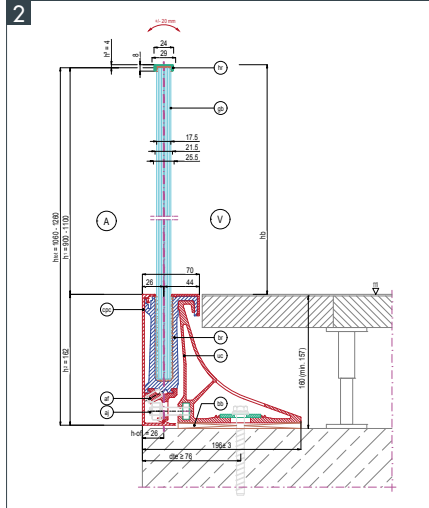
Due to the position on the edge of the component, the insulated components can be combined with the GM RAILING® UNI PART glass railing in an architecturally appealing manner while reducing the disturbance to the heat-insulating building envelope to a minimum.



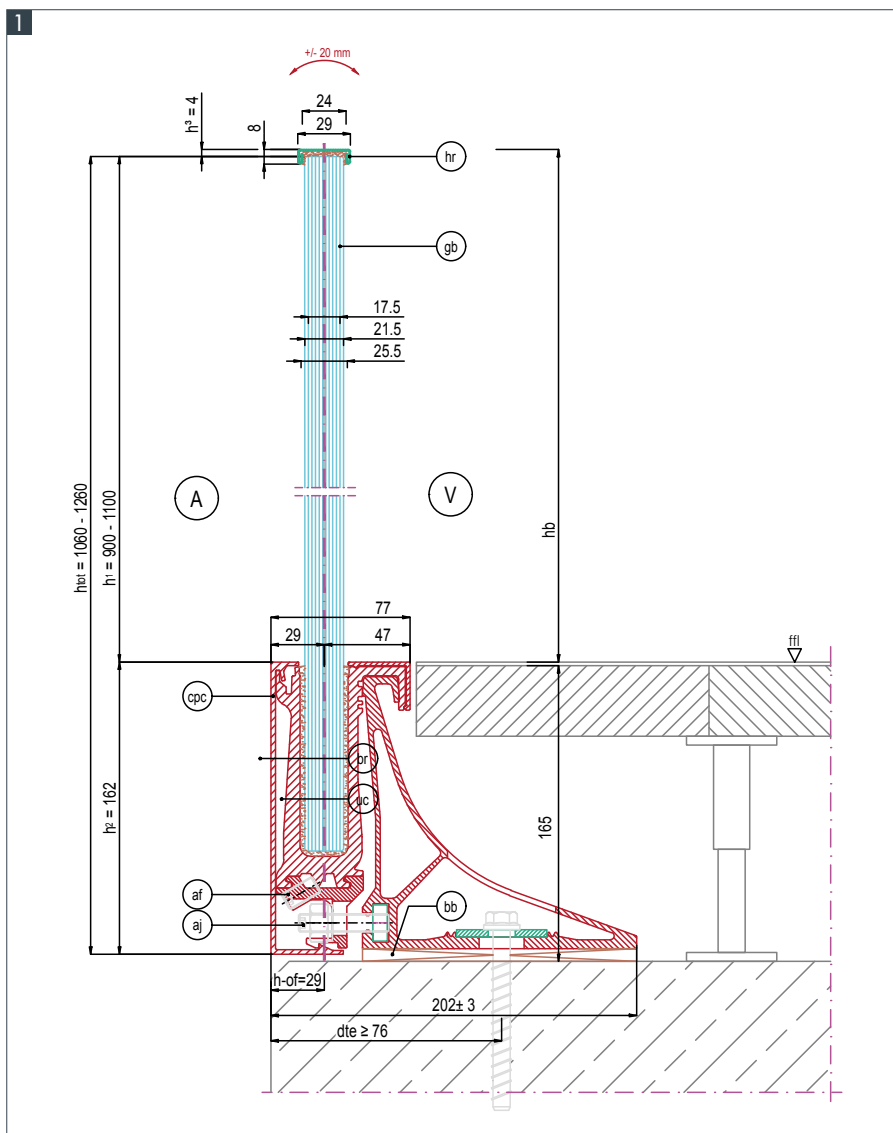
More information  
on GM RAILING® UNI TOP

## SPECIAL ADVANTAGES

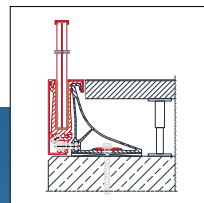
- » The substructure profile is both the border for floor construction or screed.
- » An integrally formed flange can be used as a support surface for a raised floor.
- » Vertical position infinitely adjustable
- » AbP P-2018-3064



1. GM RAILING® UNI TOP 20 | 2. GM RAILING® UNI TOP 16







## GM RAILING® UNI TOP

### FOR MOUNTING ON CEILINGS WITH FLOOR STRUCTURE

The substructure of GM RAILING® UNI TOP is specially designed to be attached to the supporting structure from above.

The cross section of the substructure allows a simple connection of the sealing and insulation levels to the glass railing due to the curved flank. The technical requirements for the waterproofing of terrace surfaces and other walkable external surfaces can thus be optimally planned and executed.

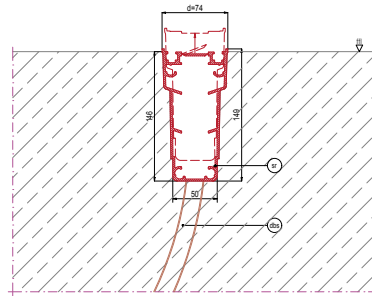


More information  
on GM RAILING® LEVEL U

## SPECIAL ADVANTAGES

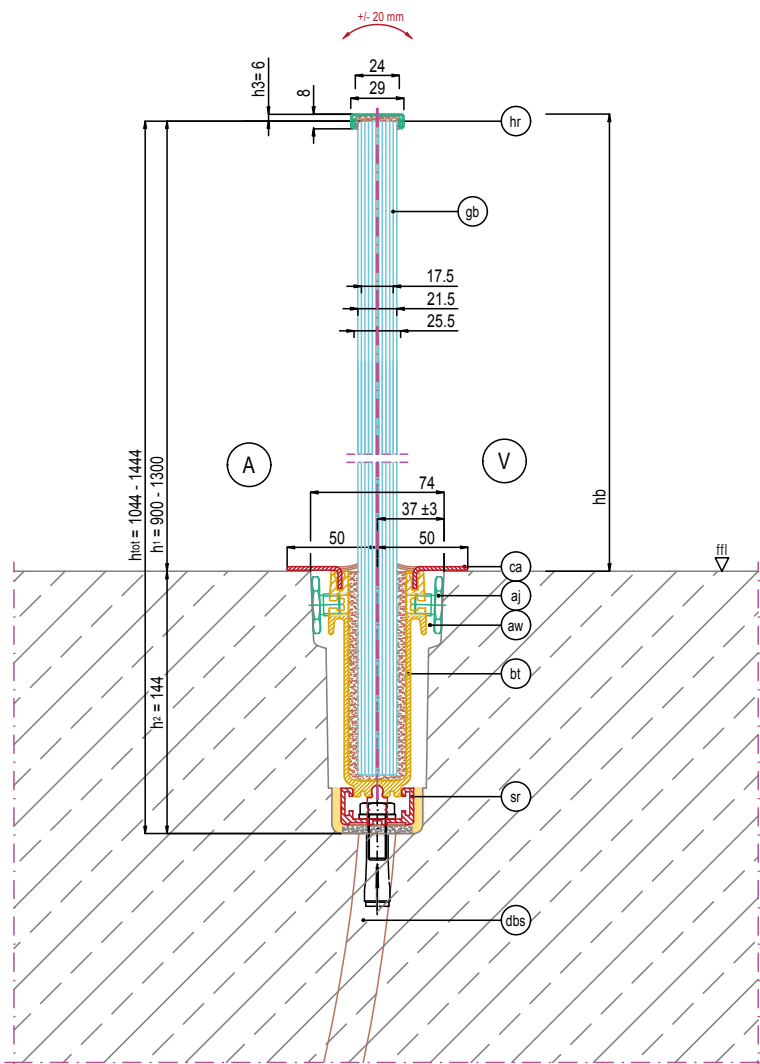
- » Mounting construction not visible
- » Assembly and adjustment of the glass construction module from above
- » Aesthetically extremely appealing, lightweight appearance
- » Exact concrete groove defines geometry
- » AbP A-15-014

2

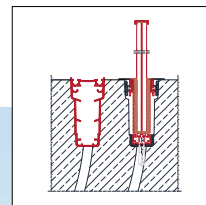


1. GM RAILING® LEVEL U | 2. GM RAILING® LEVEL U FORMWORK PROFILE

1







## GM RAILING® LEVEL U FOR INSTALLATION WITH EXPOSED CONCRETE

The GM RAILING® LEVEL U system is designed for applications in which the mounting unit for the glass railing is recessed in the floor surface — concrete. Only the relevant base and protruding glass itself are to be seen.

The fall protection glazing protrudes from a groove in the floor. This is achieved by means of a special formwork profile, which has to be assembled before concreting. The constructive "inner workings" are only introduced after the formwork profile has been removed.

For the GM RAILING® LEVEL U system, the profile is removed from the concrete after the curing process. This procedure defines a clear geometry for the glass assembly.

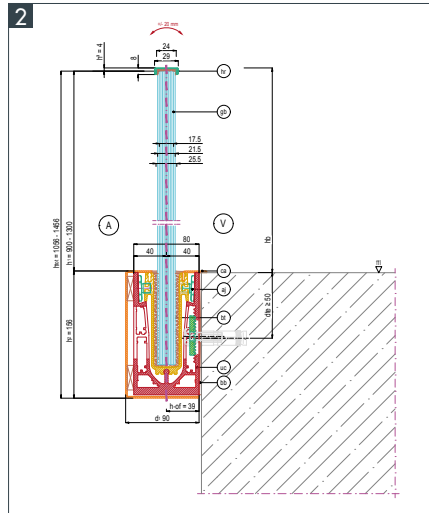




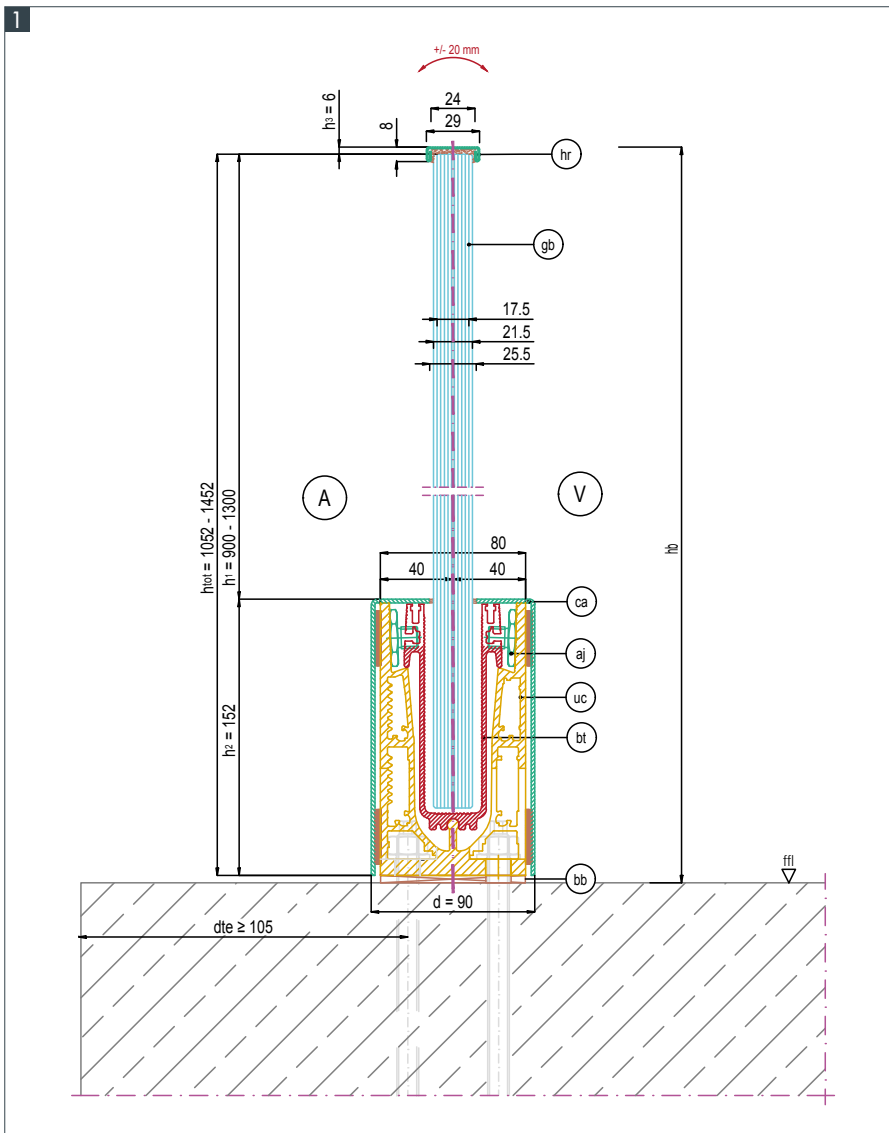
More information  
on GM RAILING® MASSIVE U

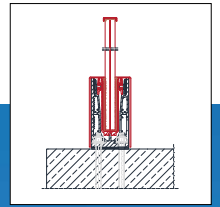
## SPECIAL ADVANTAGES

- » Suitable for a wide range of installation situations
- » Assembly and adjustment of the glass construction module from above
- » Clear geometrical shape
- » AbP A-15-014



1. GM RAILING® MASSIVE UT | 2. GM RAILING® MASSIVE US





## GM RAILING® MASSIVE U FOR INDIVIDUAL PLANNING DETAILS

GM RAILING® MASSIVE U is a railing fastening concept for glass railing according to DIN 18008-4 for installations where the construction is no longer accessible from the side. The profile can be attached to a solid structure from above as well as from the side.

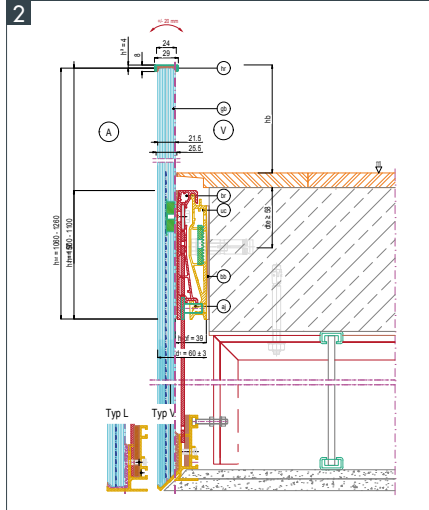
GM RAILING® MASSIVE is the structural profile for all scenarios. It is multi-functional and therefore also very popular for private use. The U series is characterised by a clear geometric shape.



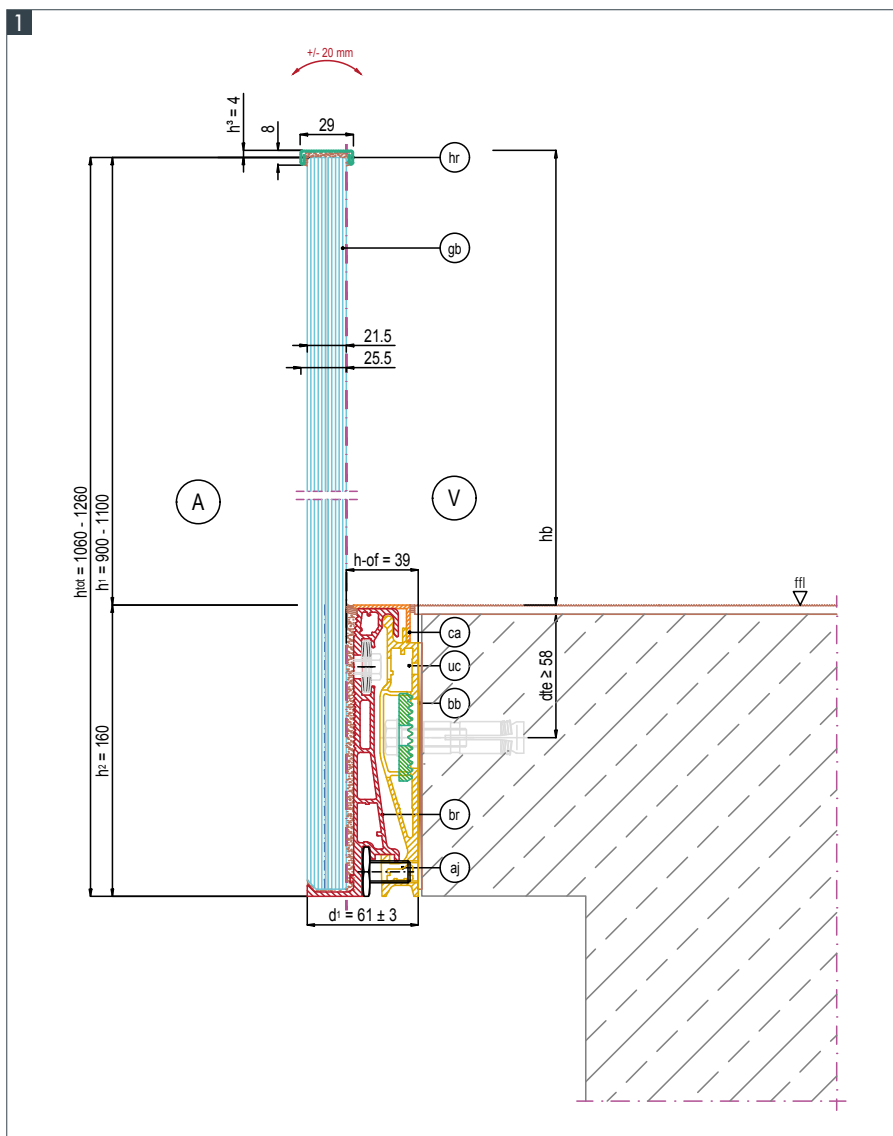
More information  
on GM RAILING® PLAN

## SPECIAL ADVANTAGES

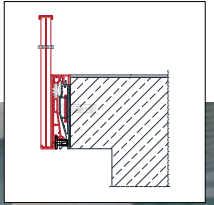
- » Clear architectural language
- » Only the whole glass is visible without substructure profiles
- » Can also be used for very high, suspended ceiling constructions.
- » Flush connections possible



1. GM RAILING® PLAN 1 | 2. GM RAILING® PLAN 2







## GM RAILING® PLAN FOR HIGHEST ARCHITECTURAL NEEDS

The GM RAILING® PLAN fastening concept is a railing fastening that uses clear and direct architectural vocabulary. It impresses due to its flush-mounting and is refined in its details. Glass is the only thing visible, without fail.

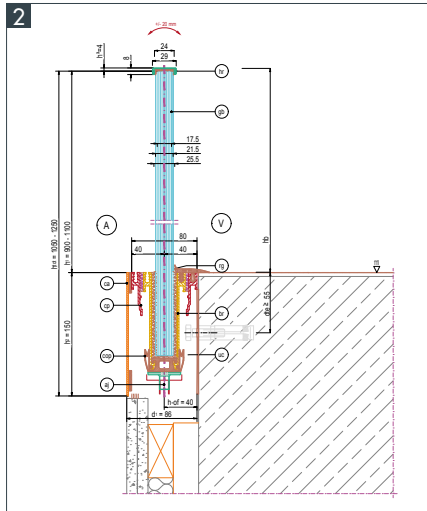
What starts as glazing preventing falls at the railing merges flush with the construction at the contact point on the floor. The exterior glass area exceeds the floor and ceiling constructions and only ends at its intersection with the ceiling lying below. The mounts themselves cannot be seen, there are no protruding elements on the outside of the glass and there is no change in materials. The GM RAILING® PLAN system is our premium product



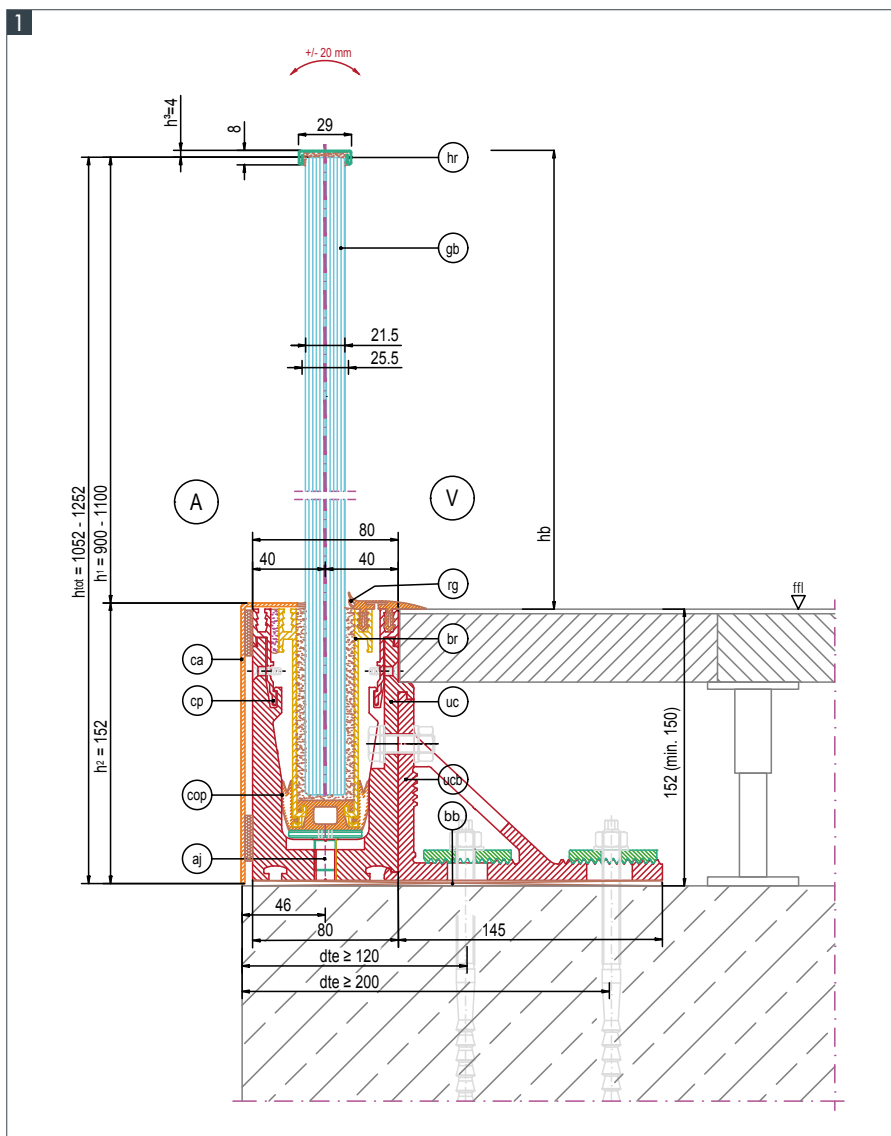
More information  
on GM RAILING® BENT

## SPECIAL ADVANTAGES

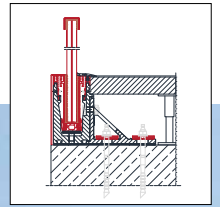
- » Simple mountable substructure.
- » Only the glass is bent, construction and bearing profiles adapt to the glass and enable optimum glass bedding.
- » Convex, concave, regular and free bending shapes possible
- » Excellent tolerance compensation
- » AbP A-12-013/AbP A-13-021



1. GM RAILING® BENT MT | 2. GM RAILING® BENT MS







## GM RAILING® BENT FOR BENT GLASS BALUSTRADES

Glass balustrades for modern architecture. The greatest advantage of the GM RAILING® BENT system is the systematisation of fastening and storage. The glass base, which is manufactured to the highest quality and remains consistent over all radii and bending shapes, permits systematic statics and therefore also allows for a substantially simplified certification procedure.

Technical implementation solutions are developed to the highest level and optimally adapted to customer-specific requirements and situations. Depending on the strength of the curvature – bending radius – the static system of one-sided glass clamping becomes increasingly complex with a multitude of different stress situations and functional states. GM RAILING® BENT has solved this task flexibly, safely and ingeniously simply.

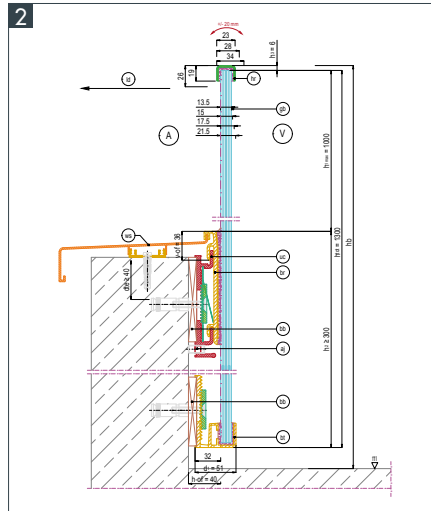




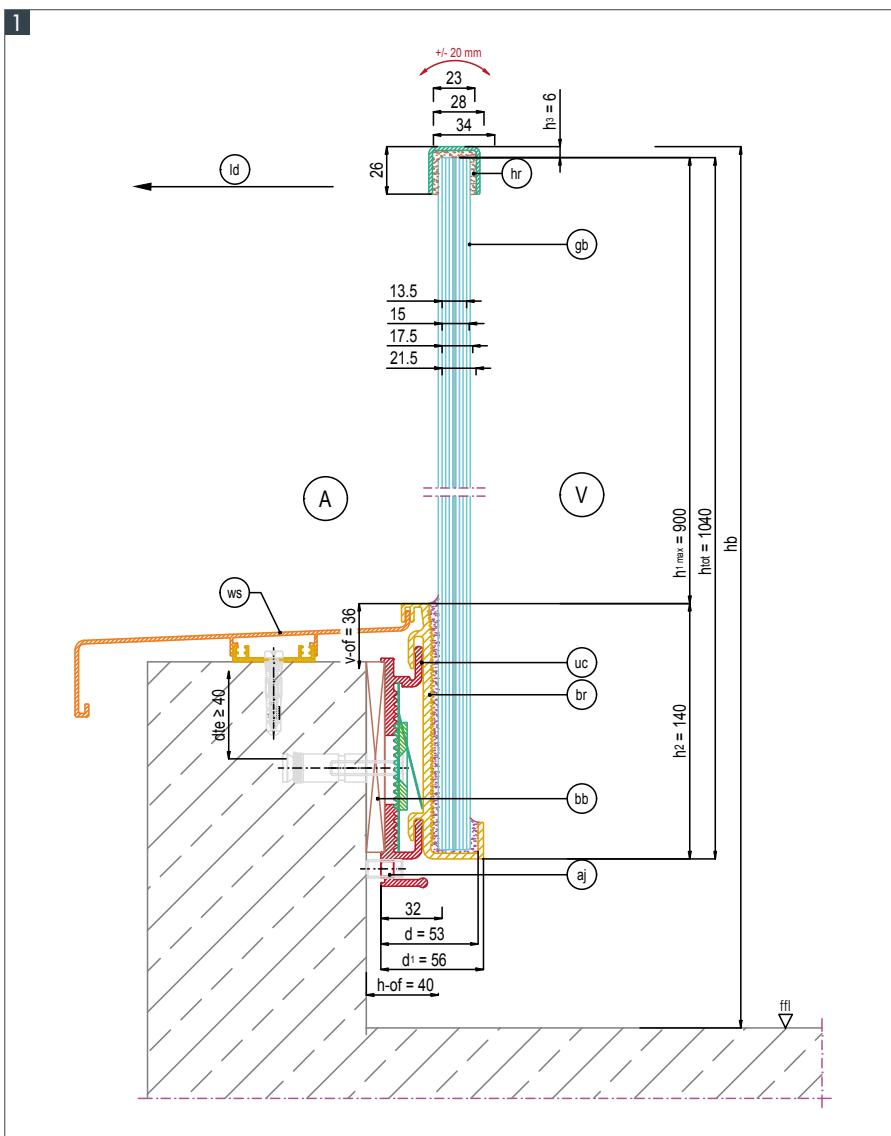
More information  
on GM RAILING® FRONT

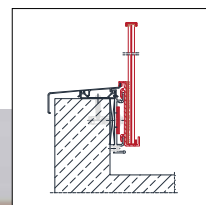
## SPECIAL ADVANTAGES

- » Especially for low walls above the cornice of a classical façade and brick benches
- » Only the whole glass is visible without substructure profiles
- » AbP A-15-001/AbP A-13-017



1. GM RAILING® FRONT AIO | 2. GM RAILING® FRONT AIT





## GM RAILING® FRONT FOR TRANSPARENT RAISING OF THE BALUSTRADE

GM RAILING® FRONT is designed for lateral mounting on the side facing the viewer, in a solid brick foundation or low wall above the cornice of a classical façade.

The GM RAILING® FRONT fixing concept is an elegant glass railing which creates transparent, weightless-appearing raised balustrades, technically perfected and of the highest quality. GM RAILING® FRONT functions as a fall protection system and is an independent design element, which gives every building structure a touch of extravagance.

## DETAIL DATA BASE

### CUMULATIVE KNOW-HOW

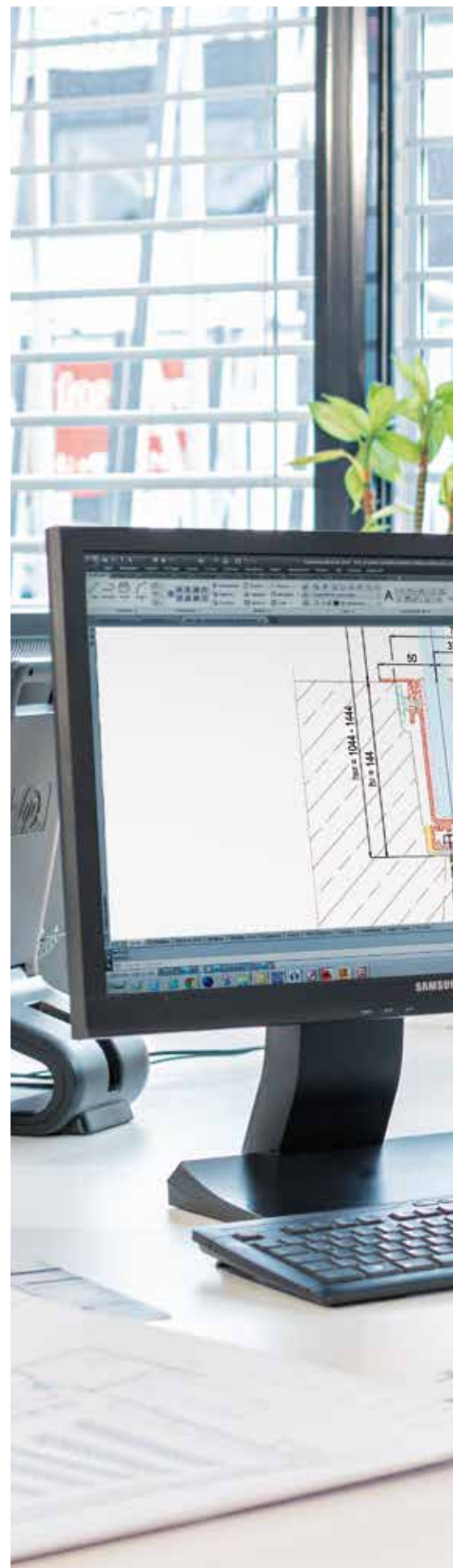
The many years of experience of our versed glass construction technicians is the basis for object-related detail solutions which have contributed significantly to the successful realisation of a wide variety of properties, from detached houses to impressive corporate headquarters. You too can benefit from this wealth of experience and learn more connection details and design options of GM RAILING® systems via our extensive GM RAILING® database.

Do you need individual support for special design tasks? Our specialists will be happy to assist you with the creation of the required special solutions.

In cooperation with our own development department, we leave no stone unturned when ensuring your planning task is solved to your satisfaction, taking technical and economic aspects into account.

We passionately strive to live up to our position as a spearhead in terms of technological prowess and expertise.

DETAILS AVAILABLE AS DWG, DXF OR PDF FILE AT:  
[EPAPER.GLASMARTE.AT](http://EPAPER.GLASMARTE.AT)







NUMEROUS ADDITIONAL  
DETAILS CAN BE EASILY  
DOWNLOADED AT  
[EPAPER.GLASMARTE.AT](http://EPAPER.GLASMARTE.AT)

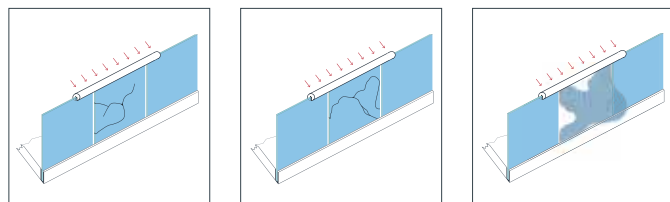
## GM RAILING® TEST CERTIFICATES

PATENTED, TESTED 100-FOLD, INTERNATIONALLY ACCEPTED

According to DIN 18008-4 - 6.1, the effects of damage to any parapet element (including the failure of end plates) must be proven. In case of failure of a parapet element, especially in the interaction of handrail and broken glass, this can best be demonstrated by experiments.

Depending on the glass choice (VSG from 2x tempered safety glass or VSG 2x TVG or VSG 2x float glass) and film thickness, the results of breakage tests may vary drastically. The broken glass partially has a residual stability or residual supporting properties. Depending on the type of glass, this can have a positive or negative impact on the overall system. To date, no method is known to us, as to how the residual strength of broken glass can be conclusively demonstrated mathematically. For this reason, GM RAILING has performed hundreds of glass breakage tests with original components up to a single length of 4 m.

In addition, we have static verifications for all series and a very large pool of permits for special situations or requirements. GM RAILING® is also able to take your individual requirements into account thanks to a certified calculation program.



LAMINATED GLASS/  
FLOAT

LAMINATED/TVG

LAMINATED/  
TEMPERED

### TESTING LAB

GM RAILING® GLASS BALUSTRADES HAVE BEEN SUBMITTED TO COUNTLESS TESTS.

Fracture resistance, stability, load-bearing capacity, residual stability are just a few of the many parameters that we constantly monitor and test in our test laboratory. We are able to do so, in addition to a high level of expertise, due to the appropriate equipment of various testing facilities.

In addition to the classic pendulum impact test, residual stability, fracture resistance, reaction to tensile and compressive loads and stability of brackets and suspension profiles are tested, recorded and logged with DKD-calibrated testing machines.

GM RAILING® is subjected to regular material and component tests by internal and external test centres.

### GENERAL TEST CERTIFICATES ISSUED BY THE BUILDING AUTHORITIES

GM RAILING®

GM RAILING® SERIES	TEST CERTIFICATE NO. OF THE RESPECTIVE TEST INSTITUTE	TEST TYPE
UNI	AbP P-2018-3064	Shock-like action – pendulum impact
MASSIVE/LEVEL	AbP A-15-014	Shock-like action – pendulum impact
FRONT AIO	AbP A-15-001	Shock-like action – pendulum impact
FRONT AIT	AbP A-13-017	Shock-like action – pendulum impact
BENT (VSG from TVG or ESG)	AbP A-12-013	Shock-like action – pendulum impact
BENT (VSG from Float)	AbP A-13-021	Shock-like action – pendulum impact



Materialprüfungsanstalt  
Universität Stuttgart







## GM RAILING® CONSTRUCTION GUARD RAIL COMPREHENSIVE RANGE

### FOR ALL SYSTEMS

Glas Marte has developed a special construction guardrail for all GM RAILING® systems for the period between substructure and glass assembly. By using a temporary building solution, all dangerous work in the fall area is significantly reduced when installing glass to prevent falls.

The construction handrail is delivered to the construction site together. Over the course of assembling the glass modules, the auxiliary railing is dismantled and taken back by GM RAILING®.

A late glass module assembly is the best protection against damage during the construction period. This also prevents the glass railings from needing to be cleaned again.

#### Overview of the most important features

- » Substructure is assembled
- » Construction auxiliary railing is hooked in and screwed in place
- » All other trades can be completed in the meantime
- » Construction guardrail is dismantled
- » Glass railing is inserted







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FORM AT  
[EPAPER.GLASMARTE.AT](http://EPAPER.GLASMARTE.AT)





## GM RAILING® ACCESSORIES

GM RAILING® also offers additional products such as handrails and cover profiles in a wide range of designs and materials. Our development team is also happy to design individual special solutions.

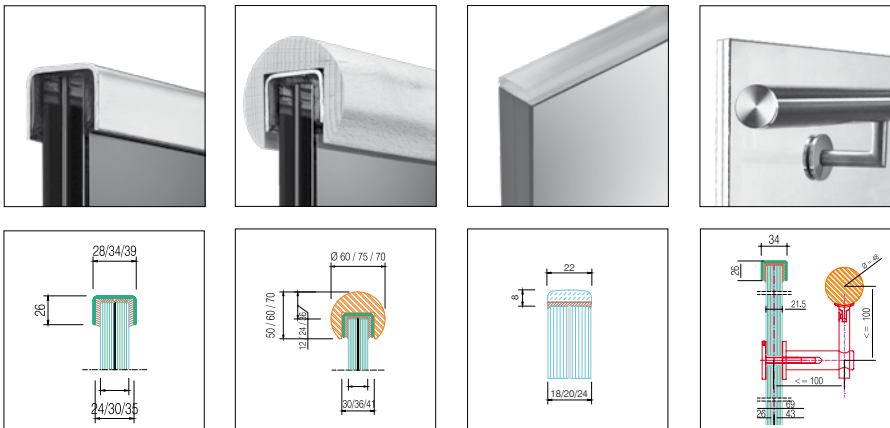
### HANDRAILS

GM RAILING® offers a wide range of handrail variants. In addition to ground or polished stainless steel profiles we also offer wooden sheathing in various shapes and types of wood. Corner connections ensure exact aligning.

As outlined in DIN 18008-4 - 6.1 – special proofs for category B glass parapets, GM RAILING® handrails are able to transfer the rail loads to neighbouring elements, end posts or anchoring to the building in the event of complete failure of a parapet element.

#### Product benefits:

- » All verification according to DIN 18008-4 available.
- » Due to the optimum glass clamping in the lower area, the handrail is mounted on the upper glass edge without having to align it.



#### STAINLESS STEEL

Available in Extralight, Light and Solid versions for all glass thicknesses

#### WOOD

For all glass thicknesses available in: Maple, birch, beech, oak, cherry, larch and nut (others on request)

#### GLAS

Glass edge protection "GLASS STRIPE" made of drawn transparent borosilicate glass, bonded in grey and black

#### HANDRAIL SUPERIOR

Can be used in combination with all glass thicknesses and series

### COVERING PROFILES

GM RAILING® cover profiles guarantee a visually appealing finished design. There are no limits to the design. The covers are available as standard as aluminium clip profiles with a height of 160 to 280 mm in aluminium or stainless steel as edge profiles. Special solutions such as gypsum plasterboards or mirrors are also available on request.

An inner metal edge has also been constructed at the transition to the floor covering in order to protect the floor from excessive moisture during wet cleaning.

#### Product benefits:

- » Simple mounting and dismantling of system components
- » Screw fastenings not visible
- » Numerous design advantages even when servicing is required







## GM RAILING®

### ALL FROM ONE SOURCE

1. Personal consultation | Order
2. Technical planning
3. Detailed planning by GM RAILING®
4. Approved plan by customer
5. Production, delivery by GM RAILING®
6. Assembly, material delivery, installation support

Comprehensive information about our glass railing systems such as brochures, tender texts, installation instructions and detailed solutions are available on our ePaper: [epaper.glas Marte.at](http://epaper.glas Marte.at)

Please also refer to the particularly easy-to-use planning manuals of the GM RAILING® UNI system. The shortest and cheapest way to go from an idea to an elegant glass balustrade.





