

# Rolling shutters/ rolling grills

GÜNTHER-TORE



Perfect solutions  
for you



Rolling shutters/  
rolling grills



Tested quality  
with the latest  
safety standards,  
certified to  
DIN EN 13 241-1

Modern rolling shutters and rolling grills.  
Reliable. Safe. Economical.

# Rolling shutters/ rolling grills

*Always on  
the move*



*The needs of our customers are our passion. Developing innovative technologies of highest quality and bringing it to the market is our drive.*

*Both these aspects unify us in the Günther group across all disciplines and limits. The same is true for the uncompromising will to succeed together. The courage to put new ideas quickly into practice. And last but not least, the ambition to solve any problem we are confronted with to perfection.*

*Our largest asset, however, is our customers' great confidence. Confidence in our capabilities, our experience, and in our readiness for action. Confidence in the quality and reliability of our products.*

*We owe it to this confidence that today all enterprises of the Günther group are leaders in their respective markets. We are pleased about it. We are proud of it.*

*And this success encourages us to continue to assist our customers with highly individual and progressive solutions of the highest quality.*

*We are there for you.*

*Yours sincerely,*

Dr. Ing. Wolfgang Günther



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# Günther-Tore – quality is our tradition



Rolling shutters/  
rolling grills

## The Günther team

"It can't be done" – you won't hear that at Günther. Our development, technical, sales, production and service employees will find the best solution for you. At Günther, your wish is at the centre of attention. Our professional employees dedicate themselves to you.

## One-source production

All important parts are produced by Günther themselves in Westerwald. Günther has a modern paint coating system that works with both, wet paint and powder. Door components of up to 13 metres in length can be powder coated or wet painted with the system. Single-walled and insulated rolling shutters and rolling grills are manufactured in steel, stainless steel and aluminium on the Günther production machines. Large door systems, such as the rolling shutter measuring 28 x 25 metres that was mentioned for many years in the Guinness Book of Records, can be manufactured just the same as door systems in standard sizes.

## Environmental awareness

Environmental protection is an important subject at Günther. The modern environmental management system integrated in the company is a self-commitment which is taken very seriously by management and employees of Günther alike. For instance, 100% CFC-free PU hard foam is manufactured in the highest quality during production of the GI 90.

The ozone-killing CFC is therefore never produced at all. Our environmental protection also encompasses the colour coating. A state of the art lacquering system enables not only paint overspray recycling, but also appropriate exhaust air filtering systems guarantee environmental protection that significantly exceeds required values.

## Quality management

The basis of our quality is the Günther quality system. Günther is certified according to DIN EN ISO 9001:2000. Each production step meets high quality demands, from development to completed assembly. Internal process optimisation ensures top quality and flexibility, for example, in the case of "just for you" solutions. Not every door system can be manufactured in standard production. Our engineers relish the challenge of developing an individual door for you.

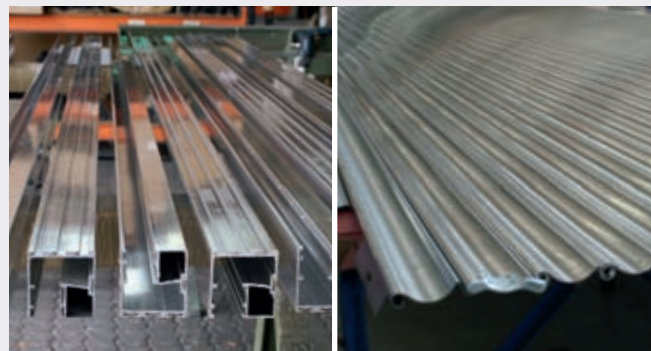
## Post-purchase guarantee

The success of Günther lies in our attention to detail. Detailed information is archived for every door produced by us. Technical information thus exists to this very day on every door ever produced and sold by Günther. Even after many years, this guarantees that Günther can supply matching spare parts, whether slats, electrical components or motors.

In the shortest possible time and in proven Günther quality combined with the Günther guarantee.



**GÜNTHER-TORE**  
*guarantees*



# Günther-Tore – service guaranteed

*Always on  
the move*

Rolling shutters/  
rolling grills



Trust Günther – the quality manufacturer of industrial and garage doors with decades of experience! We supply high quality and durable functional parts from one source, “made in Germany”.

The comprehensive range of products takes into account the latest findings from research and practical experience in construction and choice of materials. Optimum manufacturing methods assure economical and innovative product solutions that satisfy the required specifications to the greatest degree and guarantee the user a durable and reliably functioning door system.

Naturally the continuous self-monitoring of all manufacturing steps is part of this, as is the regular external monitoring by independent test institutions.

## Made-to-measure advice

Günther's advisory and sales team is represented throughout Germany and in all European countries.

Advice and service are written in capital letters. Our technical field service employees advise you competently, at the building site too. We support you in planning the object from consultation to implementation.

In the case of large or unusual constructions, the field service advisor will be supported by experienced engineers and technicians.

Günther's standard is to offer you a perfect product solution, tailored to your needs.

## Delivery and assembly of the Günther doors

Deliveries are made by modern trucks. These usually have their own fork-lifter on board. Unloading at the building site is therefore no problem.

Our own assemblers or trained contract partners install the doors according to our specifications. Your rolling shutters will thus work reliably for many years.

## 10 year spare part guarantee

Günther supplies you with spare parts reliably and quickly, even after many years.

We produce almost all components ourselves. The necessary security that you can expect.



*Customer satisfaction  
is important to us!*



# Testing according to accident prevention regulations



Rolling shutters/  
rolling grills

## Proven safety that you can rely on!

### Basic principle

Motor-driven door systems must be tested before taking into operation for the first time and afterwards as required, but at least once per year. The object of the test is to determine the safe working condition of the system. In order to judge this, expertise is required, which encompasses both knowledge of the respective technical rules and regulations and also mastery of technical correlations.

This expertise is possessed first and foremost by the manufacturer and his employees. Who is better qualified to recognise problems and judge a system, if not those whose daily work revolves around the construction and assembly of doors?

They possess vast riches of experience without which a test cannot be meaningfully executed.

However, experience alone is not enough if it is not supplemented by theoretical knowledge and command of the corresponding regulations. That requires continuous training. Günther is up-to-date, where test know-how and the latest regulations are concerned too.

GÜNTHER-TORE  
*guarantees*



# Rolling shutters/rolling grills

## Modern technology



## Modern technology that simply fits you

### Rolling shutters and rolling grills by Günther

Unfortunately, we cannot make the market go up and down according to your requests. However, we ensure that at any time you can choose a technology that is secure for the future and economically convincing. With a rolling shutter or a rolling grill of Günther, you, as client or architect, always get the perfect, individual solution that is also cost-effective.

Manufactured with precision from high-quality materials. With many variations in exquisite design. Installs quickly and easily. Simply and conveniently to operate. Reliable and safe for time to come. With the know-how of more than 30 years of building industrial doors. To sum it up, typical Günther. Modern, reliable technology that fits you and your project perfectly. For today. And of course for tomorrow.

On the following pages, read about the remarkable benefits that we can offer you for implementation of your functions. And simply make your best choice. Choose a rolling shutter or a rolling grill made by Günther.





Always on  
the move



Rolling shutters/  
rolling grills

3



4

- 1 G 105 aluminium
- 2 GRR 50 stainless steel + side door
- 3 G 120 steel, 28 m long, 19 m high and 70 tonnes in weight
- 4 GRR 50 aluminium anodised

# Rolling shutters

## Wind loads



## Günther quality defies peak wind loads

### Rolling shutters by Günther

A rolling shutter by Günther is always as extraordinary as its task. This is because we do not manufacture in preset sizes but always precisely according to your application and building opening. This is true for the size as well as for the choice of the right profile. Key words: material, structure and colour. Drive unit and control form one unit and are perfectly coordinated.

And last but not least the extras: such as windows, remote control or traffic light systems. You will achieve your perfect, completely individual solution. A rolling shutter by Günther. Modern and reliable. Safe and convincingly economical.

### Technical classes\*

Wind class 2	approx. 100 km/h
Wind class 3	approx. 120 km/h
Wind class 4	approx. 140 km/h
Special solutions on request	

<sup>1</sup> GI 100 steel profile, galvanised

<sup>2</sup> GI 90 Iso-Microline

\* We reserve the right to make technical changes.



### Your advantages

- ⊗ Customisable
- ⊗ Double-walled, insulated
- ⊗ Single-walled, uninsulated
- ⊗ Sea water resistant
- ⊗ Modern and innovative
- ⊗ Reliable and long-lived
- ⊗ Safe and economical





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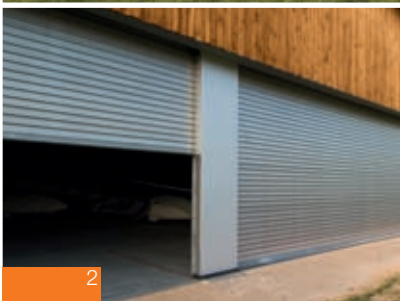


Rolling shutters/  
rolling grills

1



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3



4



5



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A Günther door remains closed for as long as you wish. It even defies peak wind loads – with the aid of appropriate wind locks or rolled storm anchors, depending on the size of the door.

- 1 GI 100 with partly closed door
- 2 GI 100 with partly closed door – close-up view from outside
- 3 GI 100 with partly closed door – close-up view from inside
- 4 GI 100 with pivoting central support.
- 5 GI 100 with central support pivoted out of the way – close-up view from inside
- 6 GI 100 with fully open door
- 7 Wind lock
- 8 Storm anchor

7



8



Standard door wind load  
Wind class 2  
(approx. 100 km/h)

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GÜNTHER  GRUPPE

# Rolling shutters

## Technology



1

### High-quality modules for your perfect door

The maintenance-free and low-noise electric drive that your rolling shutter is equipped with is dimensioned accurately according to your application and your door to be closed.

You have the choice of reliable three-phase current plug-on drive units – protection type IP 54 – with different capacities (torques of 170–750 Nm). They require only little room on the side. They are equipped with an integrated, actuated and maintenance-free TÜV and BG certified safety catching device.

Of course, you can have any drive unit as a chain wheel drive unit as well. They include operation by emergency crank handle as standard. An emergency manual chain gear is available as an option.

### Colours for your taste

We will fulfil all your requests, starting with the colour. As standard with a natural surface, but on request, they are also available anodised or powder-coated in all other colours of the RAL range.

It is essential that you bear the following in mind: Due to the way the system operates, wear traces can develop on powder-coated rolling shutters over time. These will not be recognised as defects later. Noises may develop.

Valuable extras for the design: On demand, you can obtain side doors and facings with the same look as your rolling shutter.



2

### Strong shaft – the solid tube roller

The corrosion-protected tube shaft is also customised according to DIN 18 073, depending on the size of the door. Deflection of  $<1/500$  of the span width is ensured. When opening the door, it is rolled up on the tube shaft with low wear. The tube shaft is attached with maintenance-free self-aligning ball bearings.





## Durably protected enclosures

Optimised guide rails made from galvanised steel or aluminium ensure secure operation and closing of the door in the building. Door curtain, optimised rails, and brush strips attached in the lintel area provide for wind and weather-proof connection with the building.

The door curtain is equipped with an end strip made of extruded aluminium profile. This profile can optionally be reinforced, depending upon the door size, and is sealed on the bottom by a durable gasket made of EPDM. Possible floor irregularities can thus be evened out.

For applications in living or office buildings, we expressly recommend the installation of a special noise control frame. Noises and vibrations are thus reliably kept away from the building. When installing a noise control frame, only a plug-on drive unit can be used.

## Versatile, functional slats

Each individual slat of the door curtain contributes substantially to the quality of your rolling shutter. They are connected hinge-like and shaped to deflect water. With the profiles GI 100, G 105, and G 120 plastic or steel end caps are used for attaching the door curtain.

With the GI 90 Iso-Microline, the door curtain is secured against shifting with a special embossing technology. From the second half of 2008 the GI 90 model will also be fitted with end caps. Longevity and quiet operation are reliably achieved.

## Your advantages

- ⊕ Accurately customisable control
- ⊕ Selection of efficient electric drives
- ⊕ Strong, variable pipe shaft
- ⊕ Optional intelligent rolling system
- ⊕ High-quality, aesthetically designed slats
- ⊕ Highest safety standards



- 1 GI 100 aluminium
- 2 ELERO drive unit DFM
- 3 GI 90 Iso-Microline

# Rolling shutters

## GI 90 and GI 100



Rolling shutter GI 90 ISO-Microline



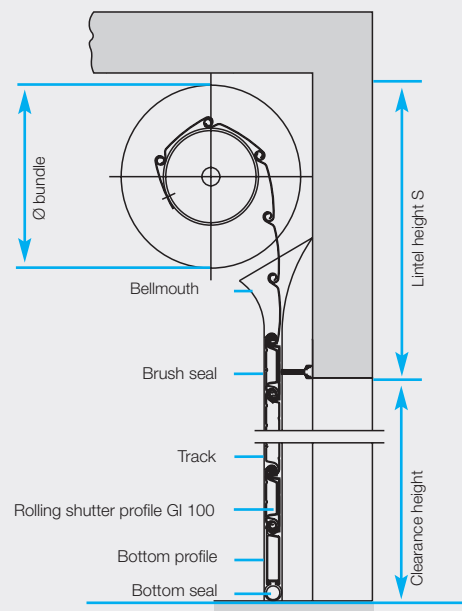
Rolling shutter GI 100

### The models GI 90 Iso-Microline and GI 100 double-walled – for intermediate and wide openings

The double-walled rolling shutters GI 90 Iso-Microline and GI 100 can be used for all buildings where heat and sound insulation is particularly important.



1



The slats of the GI 90 Iso-Microline are made from high-quality, coil-coated steel profiles, filled with HCFC-free PU foam. This results in excellent insulation and stability. The attractive design is reinforced by the micro-lined surface and gives the door a special appearance.

The GI 100 is made from a double-walled aluminium or steel profile. A 20 mm-thick heat insulation layer provides excellent insulation properties. On request, the GI 100 is also available made of stainless steel.

We can also supply the GI 100 powder-coated in any RAL colour. The GI 90 is available in the standard RAL colours 9002 (grey white) and 9006 (white aluminium). Other RAL colours are available on request. Both, the GI 90 Iso-Microline and the GI 100, can be equipped with polycarbonate windows. An intelligent rolling system can be fitted to the GI 100 aluminium up to a size of 6,000 x 6,000 mm. It ensures that the shaft on which the profiles are rolled up is automatically guided away from the lintel when opening the door and guided towards the lintel when closing the door. This results in less wear during operation of the door and quieter operation. This feature is optional.

### Maximum widths

With the GI 90 Iso-Microline, you can have a maximum width of up to 8 meters. With the GI 100, depending on the material, you can have widths of up to 12 meters (aluminium) and 20 meters (steel) respectively. Custom sizes and applications are available on request.

1 GI 100, E6/EV1 anodised with 5 window slats



# Always on the move

## Technical data

Profile/type	GI 90 Iso-Microline	GI 100
Slats per metre		
Door height	11,3	10
Insulation	Yes	Yes
Material thickness (mm)	2 x 0,4	2 x 1,0
N/m <sup>2</sup> door surface aluminium	–	105
N/m <sup>2</sup> door surface steel	100,3	275
Usable to approx. width – in meters (aluminium)	–	12
Usable to approx. width in meters (steel)	8 <sup>1</sup>	20
Guide width (mm)	26	30
Windows	Yes	Yes
Wind load according to DIN EN 12 424 class 2 (other classes on request)	Yes	Yes
Rolling shutter curtain	double-walled steel profile	double-walled aluminium or steel profiles
Hinge-like connection	Yes	Yes
Standard dimensions (clear width x clear height)	8.000 x 6.000 mm <sup>1</sup>	12.000 x 8.000 mm
Larger dimensions on request	Yes	Yes
End profiles	Rigid aluminium hollow profile Permanently elastic seal for optimal compensation for floor irregularities	Rigid aluminium hollow profile Permanently elastic seal for optimal compensation for floor irregularities
Guide rails	Extruded aluminium guide rails with plastic spring and special bellmouth	Galvanised guide rails with special bellmouth
End caps	High shifting protection with corrosion-resistant end pieces (plastic head pieces) <sup>2</sup>	High shifting protection with corrosion-resistant end pieces (plastic or galvanised head pieces)
Wind locks, storm anchors	No	Safe deflection of wind loads (optional) <sup>3</sup>
Lintel seal	As standard	As standard
Variable consoles and mounting technology	Perfectly adapted drive and control systems	Perfectly adapted drive and control systems
Plug-on drive unit	Yes	Yes (also with rolling system)
Chain wheel drive unit	Yes	Yes

<sup>1</sup> Larger dimensions on request

<sup>2</sup> Available from 2nd half 2008

<sup>3</sup> Resistance to wind loads according to DIN EN 12424 class 2

<sup>4</sup> Additional dimensions on request

## Lintel tables

Min. required lintel height (S) – rolling shutter GI 90 (approximate values)<sup>4</sup>

Clearance door height	Clearance door width								
	2000	2500	3000	3500	4000	4500	5000	5500	6000
6000	700	700	700	700	700	700	700	700	730
5500	690	690	690	690	690	690	690	690	720
5000	670	670	670	670	670	670	670	670	700
4500	630	630	630	630	630	630	640	640	700
4000	610	610	610	610	610	610	620	620	670
3500	600	600	600	600	600	600	600	610	630
3000	580	580	580	580	580	580	580	590	610
2500	550	550	550	550	550	550	550	550	590
2000	530	530	530	530	530	530	530	530	560

Min. required lintel height (S) – rolling shutter GI 100 aluminium (approximate values)<sup>4</sup>

Clearance door height	Clearance door width								
	2000	2500	3000	3500	4000	4500	5000	5500	6000
6000	860	860	860	860	860	860	860	860	870
5500	840	840	840	840	840	840	840	840	860
5000	820	820	820	820	820	820	820	820	830
4500	810	810	810	810	810	810	810	810	810
4000	720	720	720	720	720	720	720	730	730
3500	700	700	700	700	700	700	700	710	710
3000	690	690	690	690	690	690	690	690	690
2500	610	610	610	610	610	610	610	610	610
2000	580	580	580	580	580	580	580	580	590

Min. required lintel height (S) – rolling shutter GI 100 steel/stainless steel (approximate values)<sup>4</sup>

Clearance door height	Clearance door width								
	2000	2500	3000	3500	4000	4500	5000	5500	6000
6000	860	860	860	860	860	870	870	870	890
5500	840	840	840	840	840	860	860	860	860
5000	820	820	820	820	820	830	830	830	830
4500	810	810	810	810	810	810	810	810	810
4000	720	720	720	720	730	730	740	740	750
3500	700	700	700	700	710	710	720	720	720
3000	690	690	690	690	690	690	690	690	690
2500	610	610	610	610	610	610	610	620	620
2000	580	580	580	580	580	580	590	590	600

Günther rolling shutters can be attached to all common wall materials such as concrete, masonry, steel, or wood. For gas concrete, a sub-construction must be attached to the building.

We reserve the right to make technical changes.

# Rolling shutters

## G 105 and G 120



Rolling shutter G 105



Rolling shutter G 120

### The single-walled models G 105 and G 120 – for wide and very wide openings

The single walled rolling shutters, G 105 and G 120, are excellent for unheated buildings. Applications include shipyards, steel mills, shipping or logistic centres, and wholesale halls.

#### Materials and surfaces

The slats of both models are made of single-walled, untreated aluminium. On request, they can be supplied sea water-resistant or anodised. Optionally, you can order both rolling shutters made of galvanised steel or stainless steel. We can also supply any variation powder-coated in any RAL colour.

On demand, we can also manufacture the G 105 with windows made of polycarbonate and with openings for aiding of ventilation of the building. By the way, up to a door size of 3,000 x 2,500 mm, we supply the G 105 Aluminium also as manually operated spring shaft rolling shutter.

#### Maximum widths

With the G 105, depending on the material, you can have widths of up to 12 meters (aluminium) and 14 meters (steel) respectively. With the G 120, you can have even larger widths of up to 18 meters (aluminium) and 30 meters (steel) respectively. The choice of the respective material is dependent on the place of installation and the use of the door system.



1



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*Exquisite design  
that defies  
all weathers!*

1 G 105

2 G 105 with side part and integrated side door

3 G 120



# Always on the move

## Technical data

Profile/type	G 105	G 120
Slats per metre		
Door height	10	10
Insulation	–	–
Material thickness (mm)	1,25/1,50	1,25/1,50
N/m <sup>2</sup> door surface aluminium	56/69	71,2/85,5
N/m <sup>2</sup> door surface steel	168/202	211/253,2
Usable to approx. width in meters (aluminium)	10/12	15/18
Usable to approx. width in meters (steel)	12/14	18/30
Guide width (mm)	26	30
Windows	Yes	No
Wind load according to DIN EN 12 424 class 2 (other classes on request)	Yes	Yes
Rolling shutter curtain	single-walled aluminium or steel profiles	single-walled aluminium or steel profiles
Hinge-like connection	Yes	Yes
Standard dimensions (clear width x clear height)	8.000 x 6.000 mm	12.000 x 8.000 mm
Larger dimensions on request	Yes	Yes
End profiles	Rigid aluminium hollow profile Permanently elastic seal for optimal compensation for floor irregularities	Rigid aluminium hollow profile Permanently elastic seal for optimal compensation for floor irregularities
Guide rails	Galvanised guide rails with special bellmouth	Galvanised guide rails with special bellmouth
End caps	High shifting protection with corrosion-resistant end pieces (plastic or galvanised head pieces)	High shifting protection with corrosion-resistant end pieces (plastic or galvanised head pieces)
Wind locks, storm anchors	Secure deflection of wind loads (optional)*	Secure deflection of wind loads (optional)*
Lintel seal	As standard	As standard
Variable consoles and mounting technology	Perfectly adapted drive and control systems	Perfectly adapted drive and control systems
Plug-on drive unit	Yes	Yes
Chain wheel drive unit	Yes	Yes

## Lintel tables

Min. required lintel height (S) – rolling shutter G 105 aluminium (approximate values)\*\*

Clearance door height	Clearance door width								
	2000	2500	3000	3500	4000	4500	5000	5500	6000
6000	720	720	720	720	720	720	800	810	810
5500	710	710	710	710	710	710	730	730	730
5000	690	690	690	690	690	690	720	720	720
4500	680	680	680	680	680	680	700	700	710
4000	610	610	610	610	610	610	690	690	690
3500	600	600	600	600	600	600	620	620	630
3000	580	580	580	580	580	580	610	610	610
2500	570	570	570	570	570	570	590	590	590
2000	550	550	550	550	550	550	570	570	570

Min. required lintel height (S) – rolling shutter G 105 steel (approximate values)\*\*

Clearance door height	Clearance door width								
	2000	2500	3000	3500	4000	4500	5000	5500	6000
6000	720	720	720	720	720	720	750	750	760
5500	710	710	710	710	710	710	740	740	750
5000	690	690	690	690	690	690	720	720	740
4500	680	680	680	680	680	690	710	720	720
4000	610	610	610	610	610	620	690	700	700
3500	600	600	600	600	600	600	630	630	640
3000	580	580	580	580	580	580	610	610	620
2500	570	570	570	570	570	570	590	590	590
2000	550	550	550	550	550	550	570	580	580

Min. required lintel height (S) – rolling shutter G 120 aluminium (approximate values)\*\*

Clearance door height	Clearance door width								
	2000	2500	3000	3500	4000	4500	5000	5500	6000
6000	830	830	830	830	830	830	830	830	830
5500	810	810	810	810	810	810	810	810	810
5000	740	740	740	740	740	740	740	740	740
4500	720	720	720	720	720	720	720	720	720
4000	700	700	700	700	700	700	700	700	710
3500	690	690	690	690	690	690	690	690	640
3000	610	610	610	610	610	610	610	610	610
2500	600	600	600	600	600	600	600	600	600
2000	580	580	580	580	580	580	580	580	580

\* Resistance to wind loads according to DIN EN 12424 class 2

\*\* Additional dimensions on request

Günter rolling shutters can be attached to all common wall materials such as concrete, masonry, steel, or wood. For gas concrete, a sub-construction must be attached to the building.

We reserve the right to make technical changes.

# Rolling shutters

## Adapted drive units



### Variable interface: Control

Electronic reversing contactor (control box or WSM) with 24 V control voltage in the plastic switchbox, system power supply wired with CEE plug 16 A, 5-pin, actuators as membrane push-button Open/Stop/Close, status LED indicator, and round lock cylinder with key for control voltage On/Off, integrated in the housing lid, are available options. The modular construction permits the use of further options and covers all your requirements. Key switches, safety sensitive edges systems, radio remote controls, as well as light barriers, inductive loops, and even traffic light systems complete the range of options. If you have special application requests, we will gladly assist you.



### A maximum of security

Of course, your Günther door also convinces in all questions of security. It corresponds to the safety regulations of the "Hauptverband der gewerblichen Berufsgenossenschaften e.V." (Federation of the Commercial Professional Associations), Central Office for Accident Prevention, Bonn, as well as DIN and EN, as defined for power-operated windows, doors, and gates. Safety is guaranteed as standard by the new DIN EN 13241-1 standards.

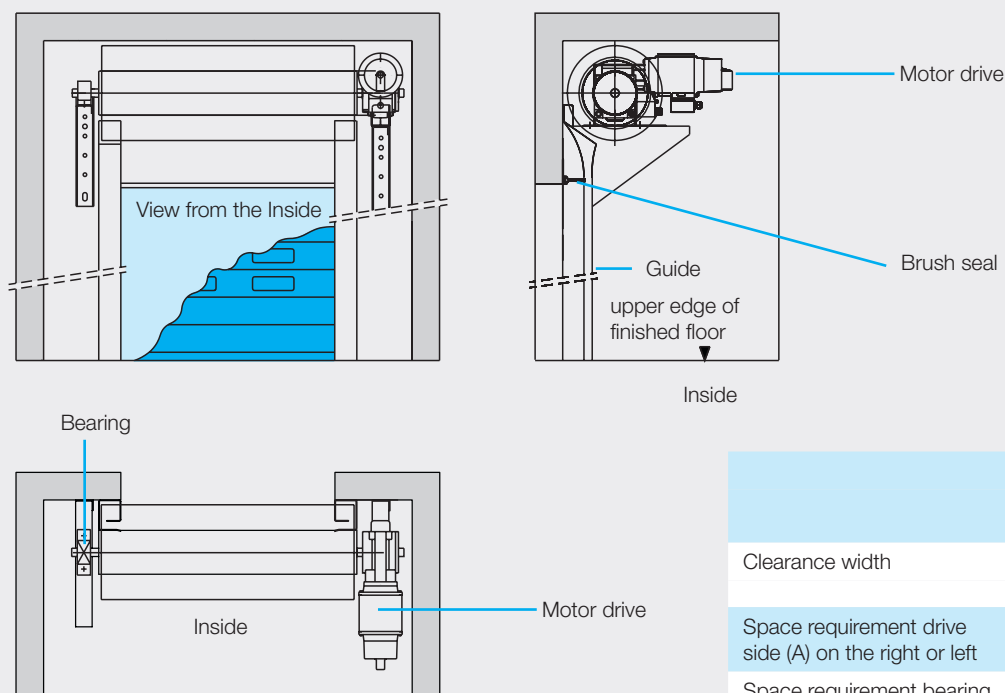
The electrical plug-on drive units are equipped with integrated safety catching devices and secure the door curtain against falling. The electrical chain wheel drive units are equipped with separate safety catching devices. For emergency operation in case of power failure, a crank is provided. The drive units can be equipped with an emergency manual chain gear, depending on the installation. Your rolling shutter is secured against high wind loads with solid wind locks or rolled storm anchors – depending on the size of the door.

- 1 GI 100 aluminium, RAL coated
- 2 Surface-mounted pushbuttons, lockable
- 3 Traffic light red/green
- 4 Flush-mounted pushbuttons, lockable



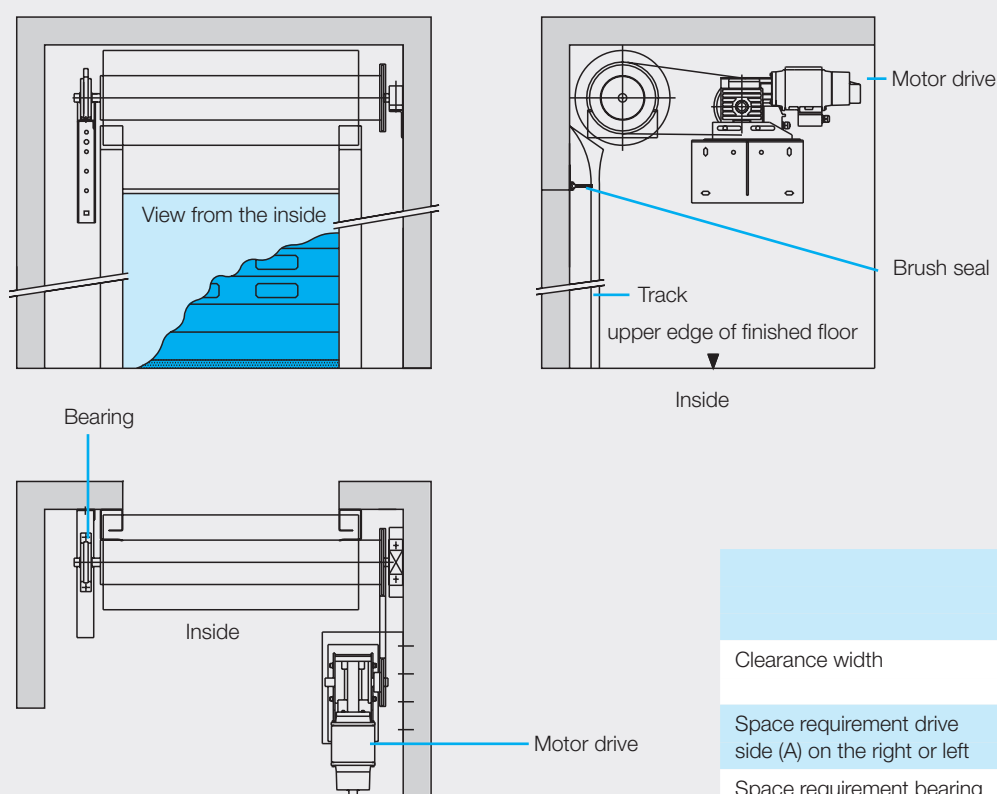
# Always on the move

## Standard version with plug-on drive unit



Mounting dimensions for chain wheel drive unit (approximate values)		
Clearance width	2.000 mm–6.000 mm	6.000 mm–8.000 mm
Space requirement drive side (A) on the right or left	min. 250 mm	min. 350 mm
Space requirement bearing side (L) on the right or left	min. 150 mm	min. 250 mm

## Standard version chain drive



Mounting dimensions for chain wheel drive unit (approximate values)		
Clearance width	2.000 mm–6.000 mm	6.000 mm–8.000 mm
Space requirement drive side (A) on the right or left	mind. 150 mm	mind. 350 mm
Space requirement bearing side (L) on the right or left	mind. 150 mm	mind. 250 mm

# Rolling shutters

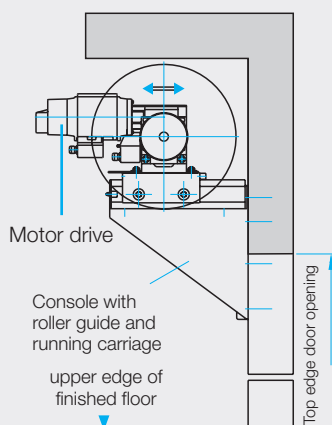
## Intelligent rolling system



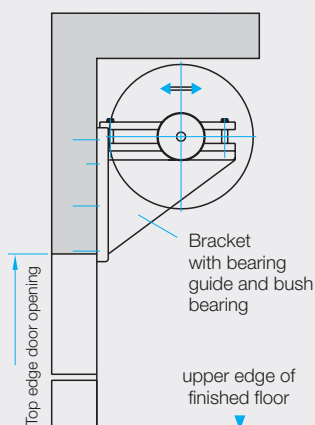
### Your benefit: the intelligent rolling system

In order to provide for even more precise intake of the slats of your rolling shutter into the guide rails and to protect them even better against wear, we can install an intelligent rolling system in case of special technical requirements. The plug-on drive unit and the tube shaft run in horizontal guides. Depending on the diameter of the door roll on the tube roller, the rolling system automatically changes the distance from the lintel. During opening, it moves away from the lintel. During closing, it approaches the lintel again. With the rolling system, your rolling shutter is even quieter and you require a clearly smaller lintel for the installation. Currently, the intelligent rolling system can be fitted to the GI 100 aluminium model up to a size of 6.000 x 6.000 mm.

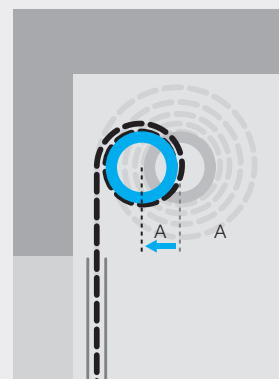
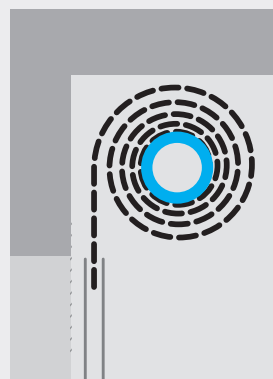
Drive unit



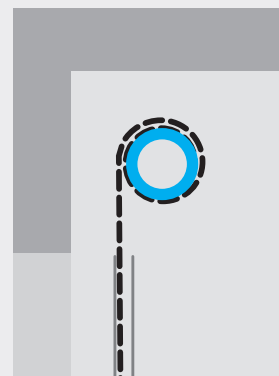
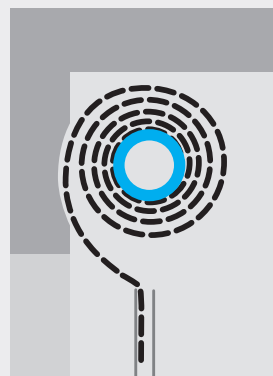
Bearing unit



With intelligent rolling system – precise door guidance

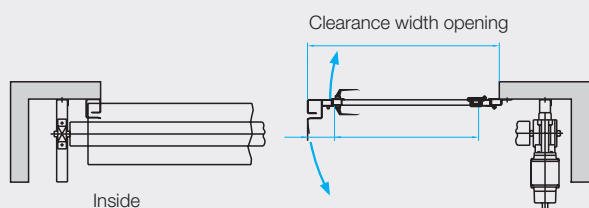
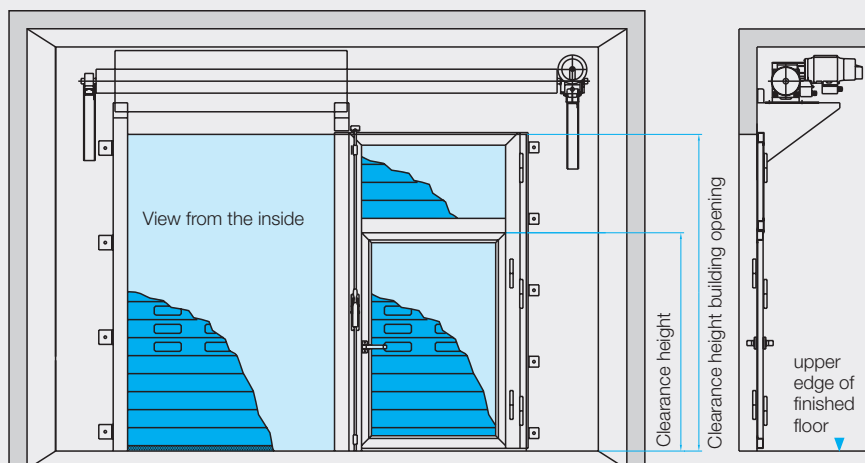


Without intelligent rolling system – increased wear, larger lintel requirement



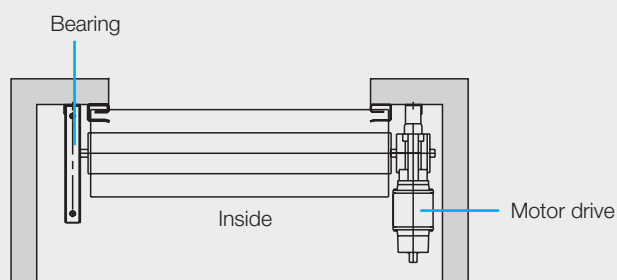
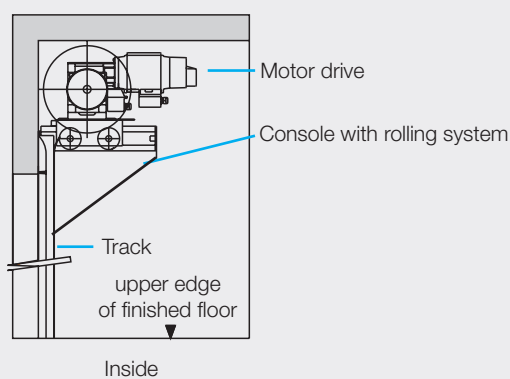
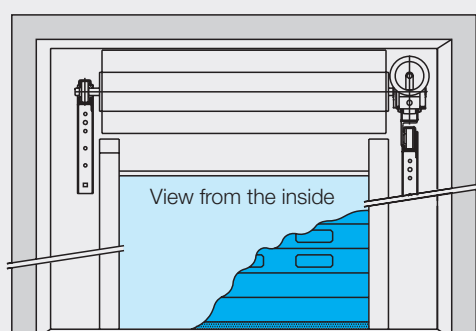


# Always on the move



Rolling shutter system with mobile side part and integrated pass door; also available in other variations

## Standard version with plug-on drive unit and rolling system



Mounting dimensions for push-on drive unit with rolling system (approximate values)

Clearance width (2.000 mm–6.000 mm)	without SHK	with SHK
Space requirement drive side (A) on the right or left	min. 270 mm	min. 300 mm
Space requirement bearing side (L) on the right or left	min. 150 mm	min. 200 mm

# Rolling grills

## Security



## Custom-made security in exquisite design

### Colours for your taste

We will fulfil all your requests, starting with the colour. Models with an aluminium rolling grill are offered with an untreated surface as standard. On request, they are also available anodised or powder-coated in almost all colours of the RAL range.

If you decide on a painted rolling grill, it is essential to bear the following in mind: Due to the way the system operates, wear traces can develop on colour-coated rolling grills over time. These will not be recognised as defects later. Noises may develop.

Valuable extras for your design: On demand, you can obtain side doors and facings with the same look as your rolling grill.

**GÜNTHER-TORE**

*guarantees*

Tested quality with the latest safety standards, certified to DIN EN 13241-1

*Safety  
you can rely on!*

- 1 GRL 105 painted in any RAL colour
- 2 and 3 GRR 50 with side part and integrated side door
- 4 GRL 105



*Always on  
the move*

GÜNTHER-TORE 

Rolling shutters/  
rolling grills



2



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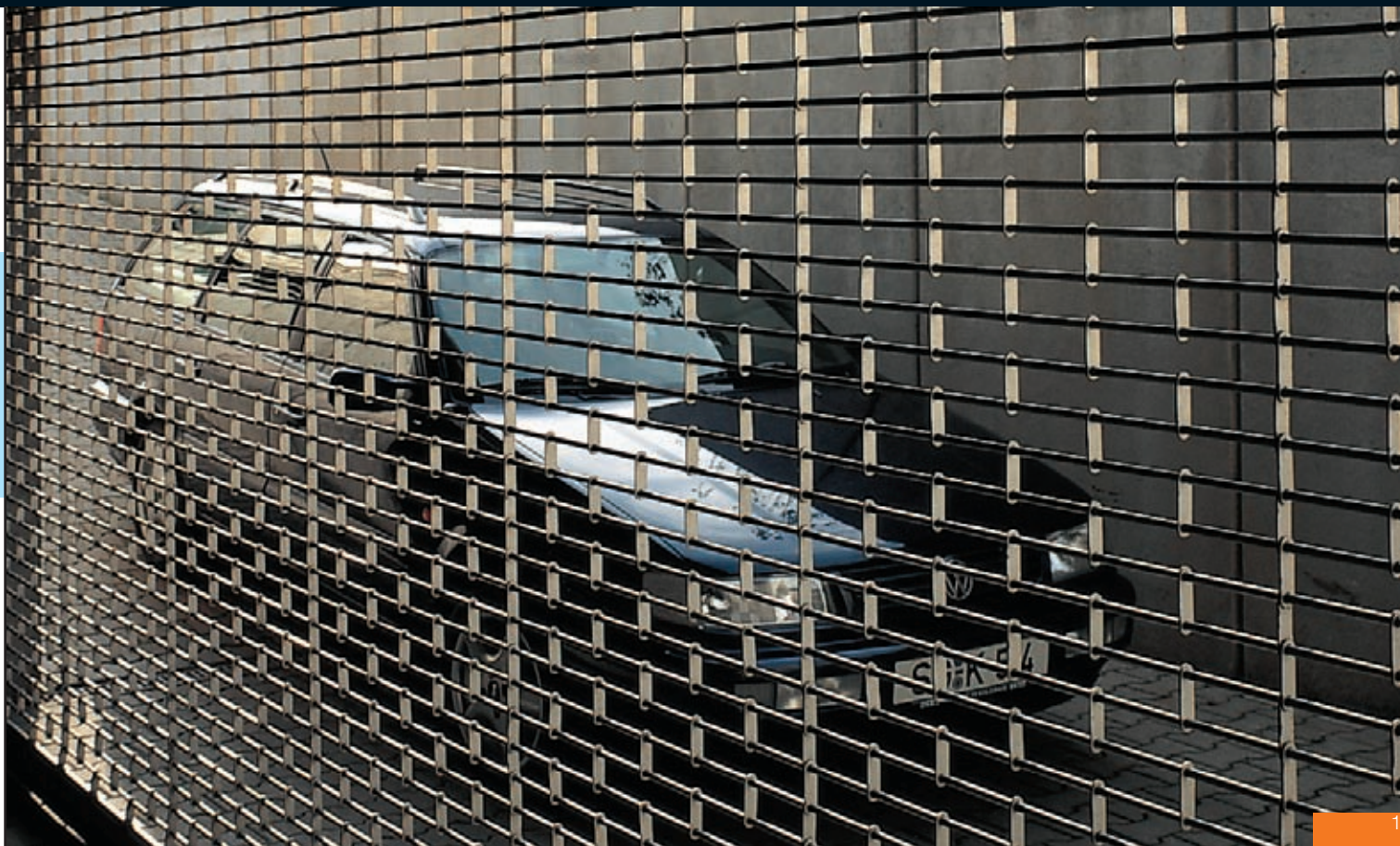
4

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# Rolling grills

## Technology



### Premium technology for your ideal rolling grill

Your automatic rolling grill by Günther is equipped with a special, very robust electric drive unit – protection class IP54. Naturally this compact three-phase motor – 400 V, 50 Hz – is supplied with precisely the performance capability to match your application and hence the weight of your rolling grill.

This long-lived electric drive unit is equipped with a worm gear, motor brake, limit switch unit and emergency crank handle. On request, you can receive it as plug-on unit or as chain wheel drive unit.

### Load-bearing, strong shaft

The corrosion-protected tube shaft is also customised according to DIN 18 073, depending on the size of the door. Deflection of  $<1/500$  of the span width is ensured. When opening the door, it is rolled up on the tube shaft with low wear. The tube shaft is attached with maintenance-free self-aligning ball bearings.

### Functional guide rails

The guide rails arranged on the side are practical and functional. They permit quiet operation and ensure an intake of your rolling grill from the shaft into the guide rails with little wear when opening.

The rolling grill models are equipped with guide rails made from extruded aluminium sections with integrated plastic slide insets.

For applications in living or office buildings, we expressly recommend the installation of a special noise control frame. Noises and vibrations are thus reliably kept away from the building. When installing a noise control frame, only a plug-on drive unit can be used.

As standard, we deliver your guide rails and the noise control frame unpainted, but on request in almost any RAL colour of your choice too.





2

### Highly adaptable control

Electronic reversing contactor (control box or WSM) with 24 V control voltage in the plastic switchbox, system power supply wired with CEE plug 16 A, 5-pin, actuators as membrane push-button Open/Stop/Close, status LED indicator, and round lock cylinder with key for con-

trol voltage On/Off, integrated in the housing lid, are available options. The modular construction permits the use of further options and covers all your requirements. Key switches, safety sensitive edges systems, radio remote controls, as well as light barriers, inductive loops, and even traffic light systems complete the range of options. If you have special application requests, we will gladly assist you.

1 GRR 50 aluminium, E6/EV 1

2 Control box

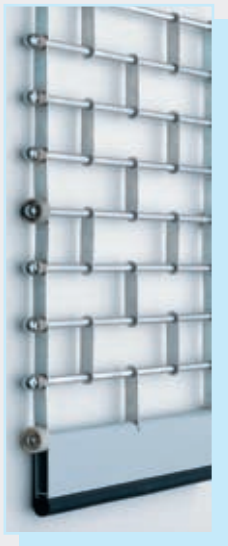
### Your advantages

- ⊗ Accurately customisable control
- ⊗ Selection of efficient electric drives
- ⊗ Strong, variable pipe shaft
- ⊗ Intelligent rolling system
- ⊗ High-quality, aesthetically designed slats
- ⊗ Highest safety standards



# Rolling grills

## Models & design



Rolling grill GRR 50



Rolling grill GRL 105

### Model GRR 50

The 8 mm galvanised round steel bar core, covered with aluminium tubes and connected with durable aluminium lamellas, create the distinctive appearance of the GRR 50. This model is also available in stainless steel on request. With the GRR 50, you can have a maximum width of up to 20 meters.

### Model GRL 105

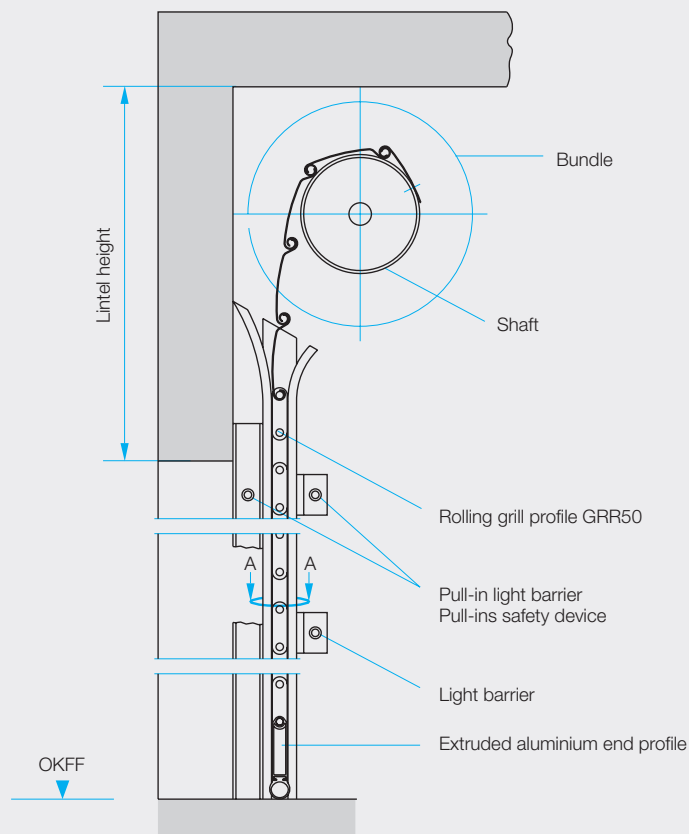
For the model GRL 105, you can choose between a rolling grill made of aluminium or high-quality steel. The strainer-like perforated slats of this type create an attractive appearance as well as a good view of the object to be protected. With the GRL 105, depending on the material, you can have widths of up to 12 meters (aluminium) and 15 meters (steel) respectively. Hole diameter approx. 3 mm, ventilation area approx. 25 % of the door area.

### Tube shaft and guide rails are perfectly coordinated

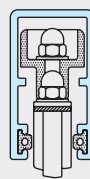
This allows your rolling grill by Günther to be opened and closed noiselessly. And you ideally protected against burglary.

### Consistent security

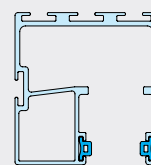
The electric plug-on drive units are equipped with an integrated safety catching device, which prevents the rolling grill from falling. When using chain wheel drive units, the separate safety catching device provides for this safety standard. With an emergency crank handle, which is standard equipment, your door can be operated even in case of power failure. As an option, the drive unit is also available with an emergency manual chain gear, depending on the installation.



Rail cross section A-A



Guide FS90



Double-chamber system made of high-quality extruded aluminium profile, with mechanical protection against burglary



# Always on the move

## Lintel tables GRR 50

Min. required lintel height – rolling grill GRR 50 aluminium (approximate values)\*

Clearance door height	Clearance door width								
	2000	2500	3000	3500	4000	4500	5000	5500	6000
6000	720	720	720	720	720	720	720	730	730
5500	710	710	710	710	710	710	710	710	720
5000	690	690	690	690	690	690	700	700	710
4500	670	670	670	670	670	670	690	690	690
4000	670	670	670	670	670	670	670	670	670
3500	600	600	600	600	600	600	600	600	600
3000	580	580	580	580	580	580	580	580	580
2500	550	550	550	550	550	550	550	550	570
2000	540	540	540	540	540	540	540	540	550

Min. required lintel height – rolling grill GRR 50 stainless steel (approximate values)\*

Clearance door height	Clearance door width								
	2000	2500	3000	3500	4000	4500	5000	5500	6000
6000	720	720	720	720	720	720	720	730	740
5500	710	710	710	710	710	710	710	720	720
5000	690	690	690	690	690	700	700	710	710
4500	670	670	670	670	670	690	690	690	690
4000	670	670	670	670	670	670	670	670	670
3500	600	600	600	600	600	600	600	600	600
3000	580	580	580	580	580	580	580	580	580
2500	550	550	550	550	550	550	550	570	570
2000	540	540	540	540	540	540	540	550	550

## Technical data

Profile type	GRR 50	GRL 105
Bars per m door height	20	10
Material thickness (mm)	8	1,25
N/m <sup>2</sup> door surface aluminium	110	46
N/m <sup>2</sup> door surface stainless steel/steel	150	144
Usable to approx. width in meters (aluminium)	20	12
Usable to approx. width in meters (V2A)	20	15 galvanised steel
Guide groove width (mm)	24	24

\* Additional dimensions on request

## Lintel tables GRL 105

Min. required lintel height – rolling grill GRL 105 aluminium (approximate values)\*

Clearance door height	Clearance door width								
	2000	2500	3000	3500	4000	4500	5000	5500	6000
6000	610	610	610	610	610	610	610	610	610
5500	600	600	600	600	600	600	600	600	600
5000	590	590	590	590	590	590	590	590	590
4500	530	530	530	530	530	530	530	530	530
4000	520	520	520	520	520	520	520	520	520
3500	500	500	500	500	500	500	500	500	500
3000	490	490	490	490	490	490	490	490	490
2500	480	480	480	480	480	480	480	480	480
2000	460	460	460	460	460	460	460	460	460

Min. required lintel height – painted rolling grill GRL 105 steel (approximate values)\*

Clearance door height	Clearance door width								
	2000	2500	3000	3500	4000	4500	5000	5500	6000
6000	610	610	610	610	610	610	610	610	610
5500	600	600	600	600	600	600	600	600	600
5000	590	590	590	590	590	590	590	590	590
4500	530	530	530	530	530	530	530	530	550
4000	520	520	520	520	520	520	530	530	530
3500	500	500	500	500	500	500	520	520	520
3000	490	490	490	490	490	490	490	500	500
2500	480	480	480	480	480	480	480	490	490
2000	460	460	460	460	460	460	460	460	470

## Your advantages

- ⊕ Optimum security
- ⊕ Individual design
- ⊕ High-quality design
- ⊕ Reliable and long-lived
- ⊕ Functional and economical
- ⊕ For shop windows, shopping arcades, and stalls
- ⊕ For underground parking garages, other parking spaces surrounded by walls, and as park space dividers



# Rolling grills

## Adapted drive units

Rolling shutters/  
rolling grills



### Plug-on drive units

Mounting dimensions for plug-on drive unit  
(approximate values)

	Clearance width	
	2.000–6.000 mm	6.000–8.000 mm
Space requirement drive side (A) on the right or left	min. 250 mm	min. 350 mm
Space requirement bearing side (L) on the right or left	min. 150 mm	min. 250 mm

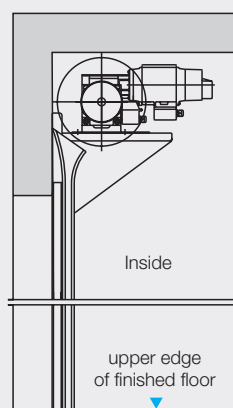
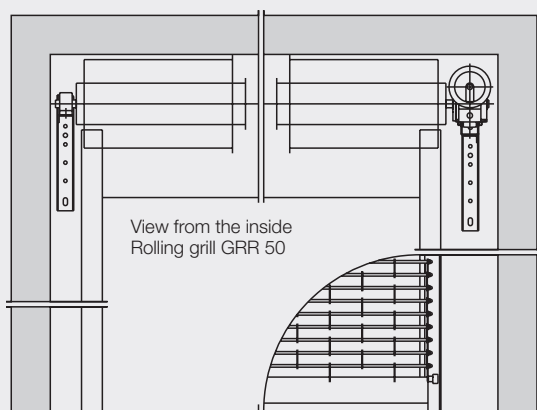
### Chain wheel drive

Mounting dimensions for chain wheel drive unit  
(approximate values)

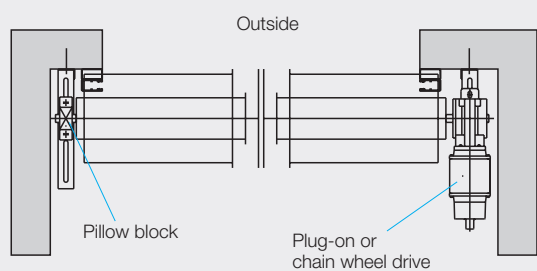
	Clearance width	
	2.000–6.000 mm	6.000–8.000 mm
Space requirement drive side (A) on the right or left	min. 150 mm	min. 350 mm
Space requirement bearing side (L) on the right or left	min. 150 mm	min. 250 mm



*Always on  
the move*



Vertical cross-section



*Optimum function  
thanks to  
perfected technology!*



2

1 GRL 105 at the airport Frankfurt/Main

2 GRR 50, Halle Zoo, enclosure partition

# Rolling shutters, rolling grills

## Side doors and side parts



### A convenient and practical addition

A **side door**, separated from the door system, is the right choice if sufficient space is available. Günther offers side doors in the same optical design as the adjacent planned door system on request. This applies to all rolling shutters/rolling grills manufactured by Günther. An essential aspect concerns safety: Side doors have no door sill and are full-value escape doors complying with safety regulations. Hand trucks and other lifting devices can pass through the door without hindrance. People and vehicles are kept apart. The side doors can be mounted directly adjacent to a rolling shutter; mounting in or behind a suitable wall opening is likewise no problem.

Side doors can open inwards or outwards as desired, hinged DIN left or DIN right. All side doors are fitted with a lock and handle and prepared for a cylinder lock (optional panic hardware).



- 1 GRR 50 with side door & interference protection
- 2 GI 90 with side part & integrated side door
- 3 GI 100 with side part (side door)
- 4 GI 100 with side part (side door)
- 5 GRR 50 with side part (side door) & interference protection



*Always on  
the move*

GÜNTHER-TORE 

Rolling shutters/  
rolling grills



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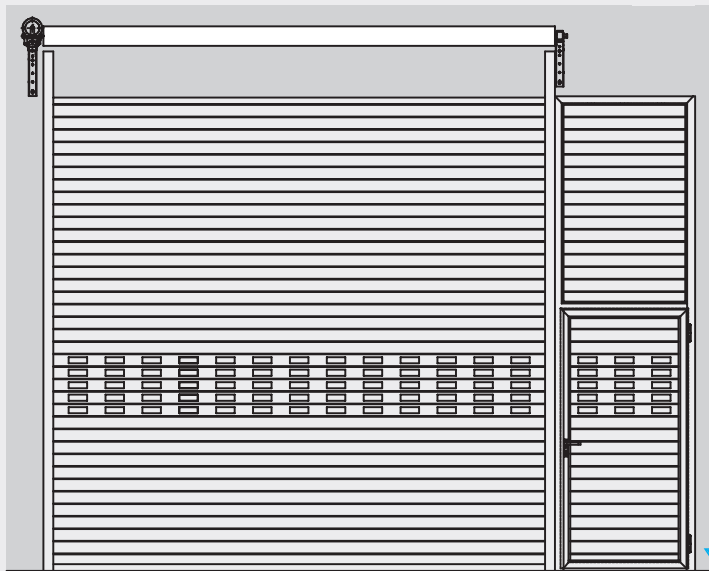


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# Rolling shutters, rolling grills

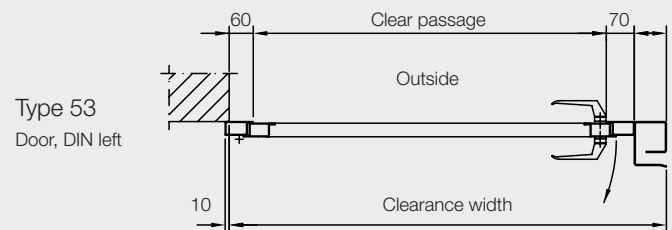
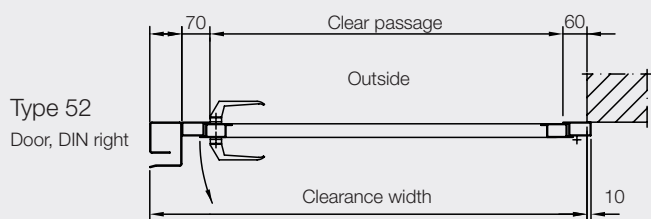
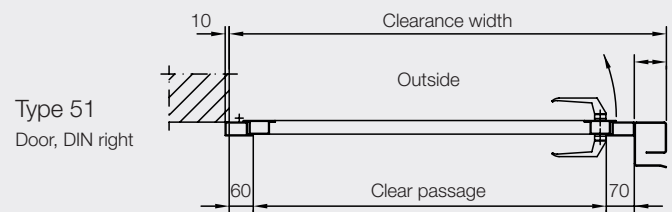
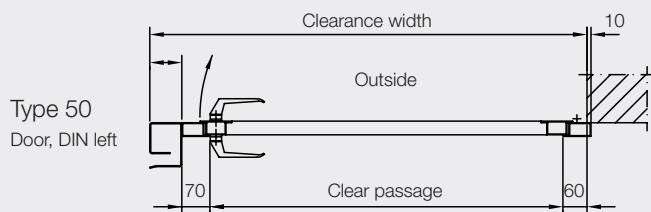
## Side doors and side parts



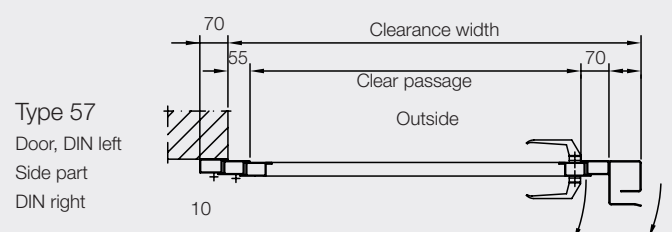
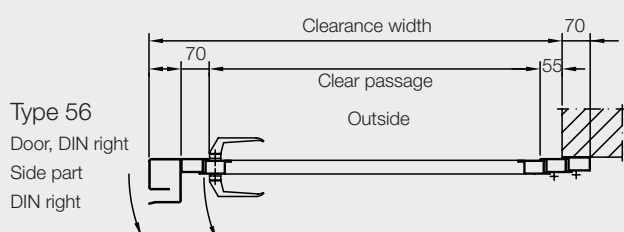
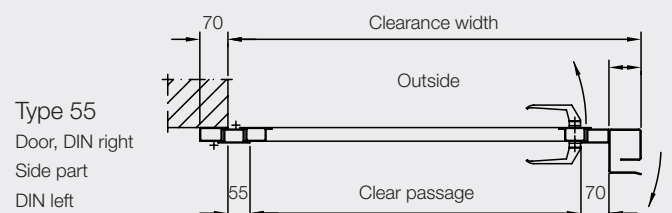
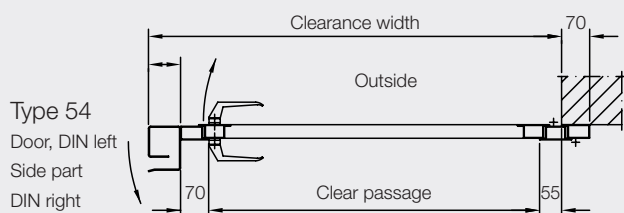
View from the inside

upper edge of finished floor

### Fixed side part



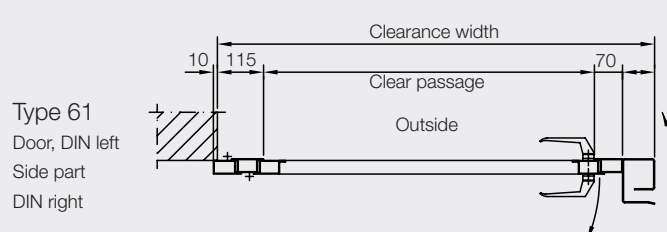
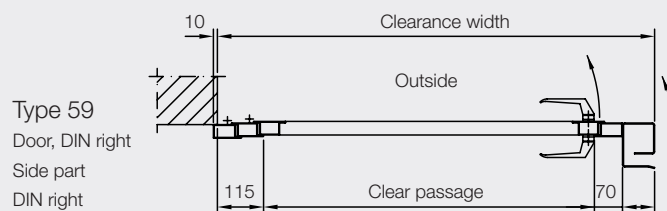
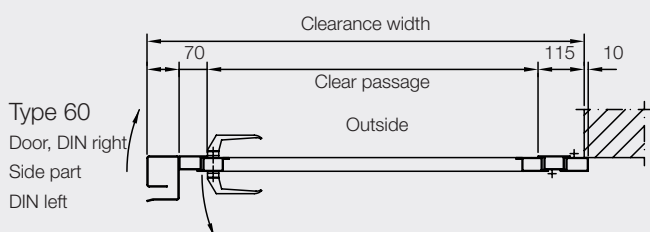
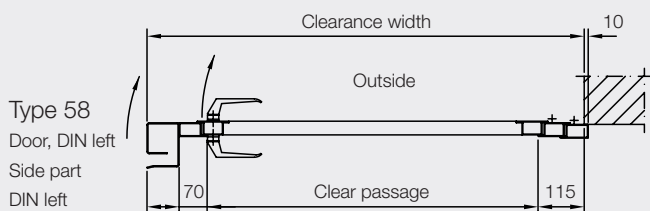
### Mobile side part (opening inwards)



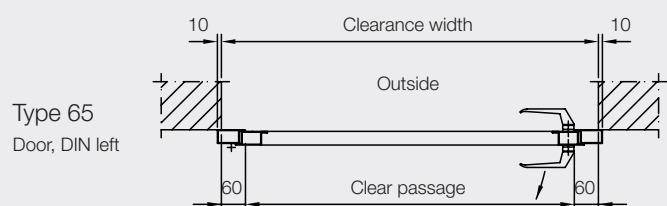
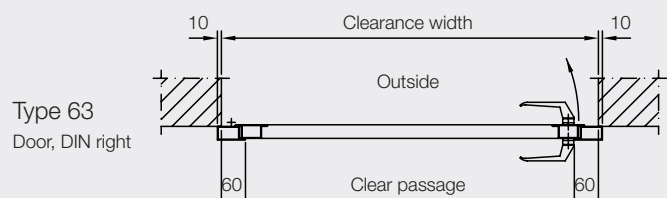
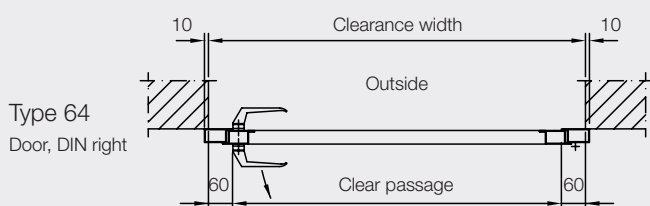
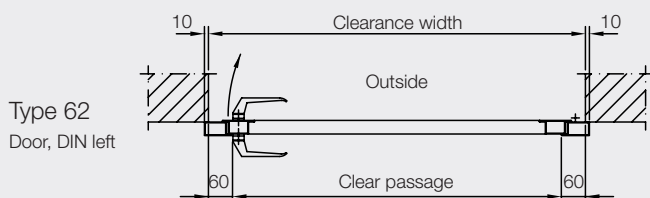


# Always on the move

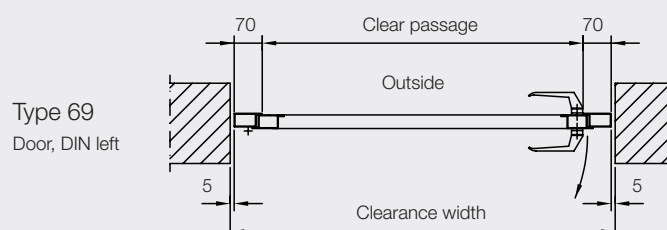
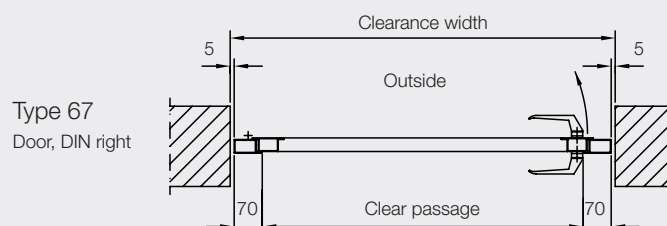
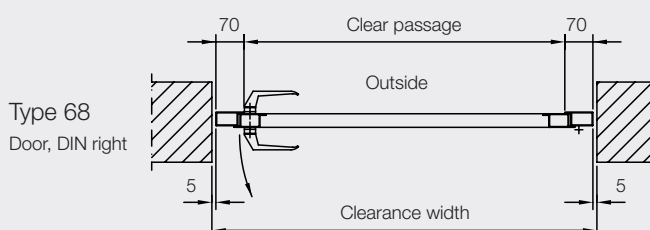
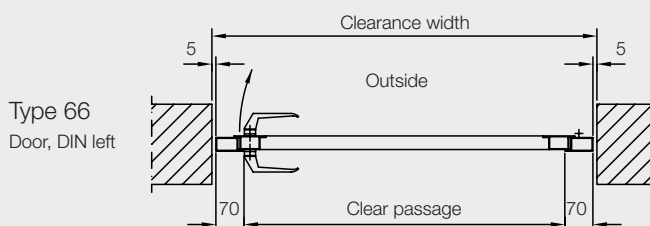
## Mobile side part (opening outwards)



## Separate door (rabbet behind the embrasure)



## Separate door (rabbet inside the embrasure)



# Rolling shutters, rolling grills

## Safety components



## Technology you can rely on – safely!

Standards for safety requirements are of the highest importance in the harmonisation of the EU domestic market. Standards give the customer security!

### **Mechanical aspects** (DIN EN 12 604)

- Security against falling
- Mechanical protective measures
- Safe distances e.g. against crushing, cutting, pulling in

### **Safety in use of power-operated doors** (DIN EN 12 453)

- Protective devices
- Force limitation
- Minimum protection level

### **Installation and use of doors** (DIN EN 12 635)

- Operation and use
- Maintenance and repair

### **Protective devices for power-operated doors and gates**

(DIN EN 12 978)

- Non-contact functioning and pressure-sensitive protective devices

All Günther doors are type-tested and conform to DIN EN 13241-1 and all current European standards. The issuing of the declaration of conformity as well as the attachment of the CE mark certifies this and gives the customer the necessary security.

However, legislation prescribes that doors must be checked at least once per year, or according to accident prevention regulations, and serviced as necessary.

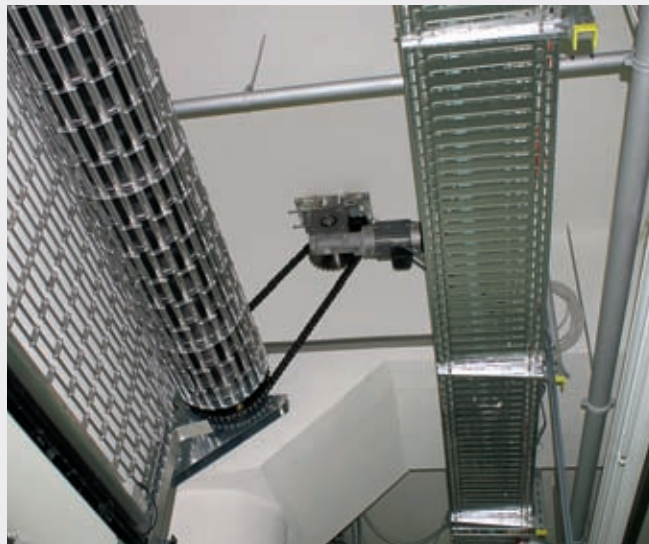
Do you any questions on this subject? We will be happy to advise you in detail.



*Always on  
the move*



Plug-on drive unit



Chain wheel drive unit



Bottom profile with safety edge



Rolling grill pull-in protection unit



Rolling grill pull-in protection light barrier



Energy chain

# Tender specification texts

## Rolling shutters

### GI 90 Iso-Microline

#### Technical data

Rolling shutter curtain according to DIN EN 12 604

Wind load according to DIN EN 12 424 class 2/DIN 1055 – Part 4

##### Profiles:

- Double-walled steel section galvanised and painted, filled with CFC-free PU foam
- Connected hinge-like
- Secured against lateral shift

##### Structural shape:

- Profile exterior and interior curved
- Door widths up to 8,000 mm
- Other sizes on request

##### Surface:

- Outside micro-lined
- RAL 9002 grey white or RAL 9006 white aluminium (grey)
- Inside smooth
- On request: glass (inserted panes) made from polycarbonate, clear

##### Bottom profile:

- Rigid aluminium hollow profile
- Good compensation for floor irregularities with permanent elastic bottom seal made from EPDM

##### Locking:

- On request possible on the inside and/or outside

##### Guide rails:

- Extruded aluminium profile
- Special bellmouth and wear-proof sliding profiles made from plastic for particularly noiseless door operation
- Guide rail depth at least 1 % of the door width, according to DIN 18 358

##### Lintel gasket:

Standard brush seal

##### Winding shaft:

- Steel tube, completely primed
- Deflection safety according to DIN 18 073 (max. deflection 1/500)

##### Consoles (standard):

- Steel, galvanised/primed

##### Drive/control:

Alternatively:

- Electrical drive unit 400 V, 3/N/PE/50 Hz, 60 % ED as plug-on drive unit with integrated unreeling protection. Electronic reversing contactor 24 V in switchbox, system power supply wired with CEE plug 5 A, 5-pin, actuators as membrane push-button Open/Stop/Close, status LED indicator, and round lock cylinder with key for control voltage On/Off, integrated in the housing lid
- Emergency operation by means of emergency crank handle, optional emergency chain
- Electrical drive unit 400 V, 3/N/PE/50 Hz, 60 % ED as chain wheel drive unit with separate unreeling protection
- Electronic reversing contactor 24 V in switchbox, system power supply wired with CEE plug 5 A, 5-pin, actuators as membrane push-button Open/Stop/Close, status LED indicator, and round lock cylinder with key for control voltage On/Off, integrated in the housing lid
- Emergency operation by means of emergency crank handle, optional emergency chain
- Alternatively:
- Deadman control in downward movement
- Self-holding operation in up and downward movement, including self-monitoring bottom contact rail, optoelectronic, function "Stop" and "Reverse"

##### Installation:

In front of and behind the opening for the following building materials

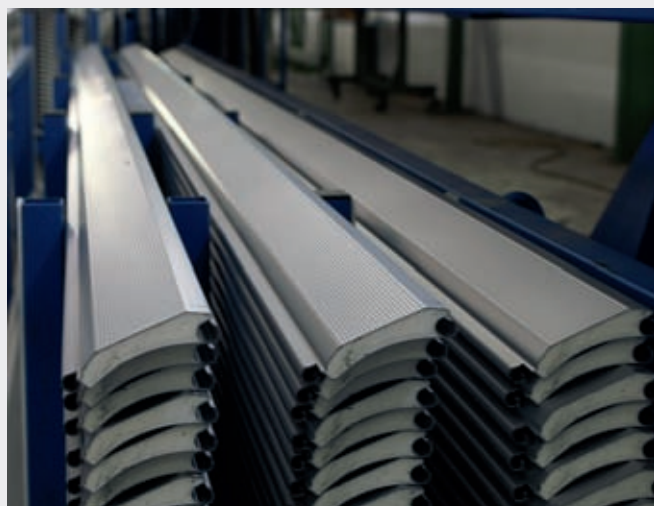
- Concrete
- Masonry
- Steel
- Lightweight construction such as gas concrete with building side frame (sub-construction)

##### Basic condition:

- The door opening is ready and freely accessible
- The hall floor is stabilised

##### Remarks:

On request, you may receive individually dimensioned mounting sketches for each door. For custom constructions or custom sizes, please contact us.





## GI 100

### Technical data

Rolling shutter curtain according to DIN EN 12 604

Wind load according to DIN EN 12 424 class 2/DIN 1055 – Part 4

#### Slats:

- Double-walled steel profiles, insulated
- Double-walled aluminium profiles, insulated
- Connected hinge-like
- Steel, galvanised or
- Natural aluminium
- Optionally coated in any RAL colour
- Stainless steel (V2A)
- Aluminium anodised E6/EV1

#### Structural shape:

- Profile exterior and inside divided with 2 ribs. Slats are arranged to repel water
- Production widths up to 12,000 mm
- Other widths on request
- On request: glass (inserted panes) made from polycarbonate, clear

#### End section:

- Rigid aluminium hollow profile
- Good compensation for floor irregularities with permanent elastic bottom seal made from EPDM

#### End caps:

- Corrosion resistant end caps in every profile for high shift protection of the bars against each other, plastic or galvanised steel
- Optional storm locks, or rolled storm anchor from 6,000 mm clearance width
- Optional in case of high wind loads

#### Locking:

- On request possible on the inside and/or outside

#### Guide rails:

- Galvanised steel profile
- Special bellmouth
- Guide rail depth at least 1 % of the gate width, according to DIN 18 358
- Optional brush seal for sealing the guide rail

#### Lintel gasket:

Standard brush seal

#### Shaft:

- Steel tube, completely primed
- Deflection safety according to DIN 18 073 (max. deflection 1/500 of the winding shaft length)

#### Consols (standard):

- Steel, galvanised/primed
- Optional: GT rolling system, for improvement of the door seal and additional reduction of operating noise and door curtain wear (only available for plug-on drive units).

#### Drive/control:

Alternatively:

- Electrical drive unit 400 V, 3/N/PE/50 Hz, 60 % ED as plug-on drive unit with integrated unreeling protection. Electronic reversing contactor 24 V in switchbox, system power supply wired with CEE plug 5 A, 5-pin, actuators as membrane push-button Open/Stop/Close, status LED indicator, and round lock cylinder with key for control voltage On/Off, integrated in the housing lid, emergency operation by means of emergency crank handle, optional emergency chain
- Electrical drive unit 400 V, 3/N/PE/50 Hz, 60 % ED as chain wheel drive unit with separate unreeling protection. Electronic reversing contactor 24 V in switchbox, system power supply wired with CEE plug 5 A, 5-pin, actuators as membrane push-button Open/Stop/Close, status LED indicator, and round lock cylinder with key for control voltage On/Off, integrated in the housing lid, emergency operation by means of emergency crank handle, optional emergency chain

Alternatively:

- Deadman control in downward movement
- Self-holding operation in up and downward movement, including self-monitoring bottom contact rail, optoelectronic, function "Stop" and "Reverse"

#### Installation

In front of and behind the opening for the following building materials

- Concrete
- Masonry
- Steel
- Lightweight construction such as gas concrete with building side frame (sub-construction)

#### Conditions:

- The door opening is ready and freely accessible
- The hall floor is stabilised

#### Remarks:

On request, you may receive individually dimensioned mounting sketches for each gate. For custom constructions or custom sizes, please contact us.



# Tender specification texts

## Rolling shutters

### G 105

#### Technical data

Rolling shutter curtain according to DIN EN 12 604

Wind load according to DIN EN 12 424 class 2/DIN 1055 – Part 4

##### Slats:

- Single-walled profile
- Connected hinge-like
- Natural aluminium or galvanised steel – optionally coated in any RAL colour
- Optionally anodised aluminium
- Optionally stainless steel

##### Structural shape:

- Curved
- Slats are arranged to repel water
- Production widths up to 12,000 mm
- Larger widths on request

##### Bottom profile:

- Rigid aluminium hollow profile
- Good compensation for floor irregularities with permanent elastic bottom seal made from EPDM

##### End caps:

- Corrosion-resistant end caps in every second profile for high shift protection of the slats against each other, plastic or galvanised steel
- Storm locks for door widths 4.500 mm and over
- Rolled storm anchor for door widths 6.000 mm and over

##### Locking:

- On request possible on the inside and/or outside

##### Guide rails:

- Galvanised steel profile
- Special bellmouth
- Non-wearing plastic end caps, as well as steel end caps (depending on design)
- Guide rail depth at least 1 % of the gate width, according to DIN 18 358

- Optional brush seal for sealing the guide rail

##### Lintel gasket:

Standard brush seal

##### Shaft:

- Steel tube, completely primed
- Deflection safety according to DIN 18 073 (max. deflection 1/500)

##### Consoles (standard):

Steel, galvanised/primed

##### Drive/control:

Alternatively:

- Electrical drive unit 400 V, 3/N/PE/50 Hz, 60 % ED as plug-on drive unit with integrated unreeling protection. Electronic reversing contactor 24 V in switchbox, system power supply wired with CEE plug 5 A, 5-pin, actuators as membrane push-button Open/Stop/Close, status LED indicator, and round lock cylinder with key for control voltage On/Off, integrated in the housing lid, emergency operation by means of emergency crank handle, optional emergency chain
- Electrical drive unit 400 V, 3/N/PE/50 Hz, 60% ED as chain wheel drive unit with separate unreeling protection Electronic reversing contactor 24 V in switchbox, system power supply wired with CEE plug 5 A, 5-pin, actuators as membrane push-button Open/Stop/Close, status LED indicator, and round lock cylinder with key for control voltage On/Off, integrated in the housing lid, emergency operation by means of emergency crank handle, optional emergency chain

Alternatively:

- Deadman control in downward movement
- Self-holding operation in up and downward movement, including self-monitoring bottom contact rail, optoelectronic, function “Stop” and “Reverse”

##### Installation

In or behind the opening for the following building materials

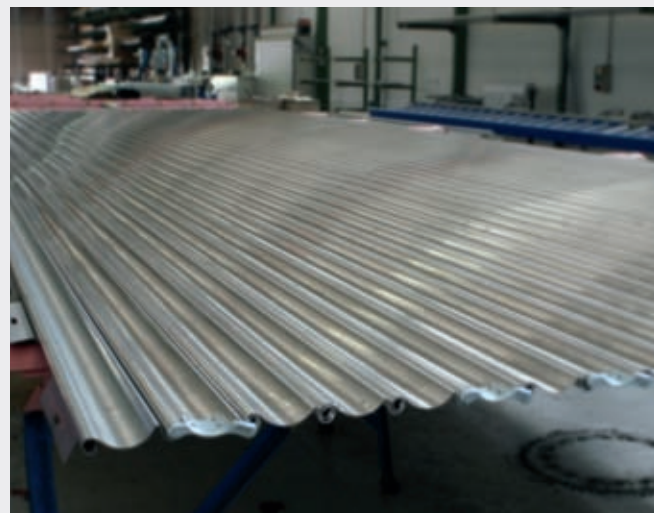
- Concrete
- Masonry
- Steel
- Lightweight construction such as gas concrete with building side frame (sub-construction)

##### Basic conditions:

- The door opening is ready and freely accessible
- The hall floor is stabilised

##### Remarks:

On request, you may receive individually dimensioned mounting sketches for each gate. For custom constructions or custom sizes, please contact us.





## G 120

### Technical data

Rolling shutter curtain according to DIN EN 12 604

Wind load according to DIN EN 12 424 class 2/DIN 1055 – Part 4

#### Slats:

- Single-walled steel profile
- Connected hinge-like
- Steel galvanised or
- Optionally coated in any RAL colour
- Natural aluminium
- Aluminium anodised E6/EV1
- Optionally stainless steel

#### Structural shape:

- Curved
- Slats are arranged to repel water
- Production widths up to 12.000 mm
- Other sizes on request

#### Bottom profile:

- Rigid aluminium hollow profile
- Good compensation for floor irregularities with permanent elastic bottom seal made from EPDM

#### End caps:

- Corrosion-resistant end caps in every second profile for high shift protection of the slats against each other, plastic or galvanised steel
- Optional storm locks, or rolled storm anchor from 6.000 mm clearance width
- Optional in case of high wind loads

#### Locking:

On request possible on the inside and/or outside

#### Guide rails:

- Galvanised steel profile
- Special bellmouth
- Wear-resistant plastic or steel end caps
- Guide rail depth at least 1% of the gate width, according to DIN 18358
- Optional brush seal for sealing the guide rail

#### Lintel gasket:

Standard brush seal

#### Shaft:

- Steel tube, completely primed
- Deflection safety according to DIN 18 073 (max. deflection 1/500)

#### Consoles (standard):

Steel, galvanised/primed

#### Drive/control:

Alternatively:

- Electrical drive unit 400 V, 3/N/PE/50 Hz, 60 % ED as plug-on drive unit with integrated unreeling protection. Electronic reversing con-

tactor 24 V in switchbox, system power supply wired with CEE plug 5 A, 5-pin, actuators as membrane push-button Open/Stop/Close, status LED indicator, and round lock cylinder with key for control voltage On/Off, integrated in the housing lid, emergency operation by means of emergency crank handle, optional emergency chain

- Electrical drive unit 400 V, 3/N/PE/50 Hz, 60 % ED as chain wheel drive unit with separate unreeling protection Electronic reversing contactor 24 V in switchbox, system power supply wired with CEE plug 5 A, 5-pin, actuators as membrane push-button Open/Stop/Close, status LED indicator, and round lock cylinder with key for control voltage On/Off, integrated in the housing lid, emergency operation by means of emergency crank handle, optional emergency chain

Alternatively:

- Deadman control in downward movement
- Self-holding operation in up and downward movement, including self-monitoring bottom contact rail, optoelectronic, function "Stop" and "Reverse"

#### Installation

In or behind the opening for the following building materials

- Concrete
- Masonry
- Steel
- Lightweight construction such as gas concrete with building side frame (sub-construction)

#### Basic conditions:

- The door opening is ready and freely accessible
- The hall floor is stabilised

#### Remarks:

On request, you may receive individually dimensioned mounting sketches for each gate. For custom constructions or custom sizes, please contact us.



# Tender specification texts

## Rolling grills

### GRR 50

#### Technical data

##### Bars:

- Made from 8 mm steel core, galvanised
- Pushed-on distance tubes
- Connecting plates
- Lateral rollers for noiseless operation, protection against vandalism and as storm locks
- Approx. 77 % ventilation area

##### Shape:

- Rectangular shape
- Aperture dimensions approx. 50 x 249 mm
- Production width up to 20,000 mm
- Other sizes on request

##### Surface:

- Natural aluminium
- Electrolytically oxidised aluminium colours
- Stainless steel
- RAL colour according to client's choice

##### End section:

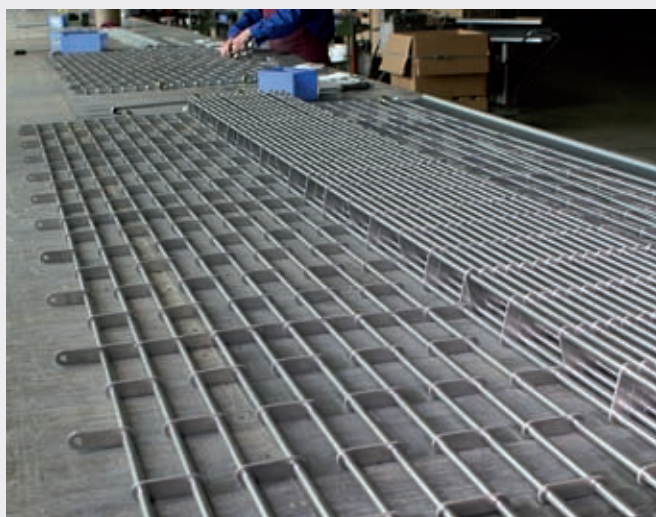
- Rigid aluminium hollow profile
- Good compensation for floor irregularities with permanent elastic bottom seal made from EPDM

##### Locking:

On request possible on the inside and/or outside

##### Guide rails:

- Aluminium extruded profile
- Special bellmouth and wear-proof sliding profiles made from plastic for particularly noiseless door operation
- Guide rail depth at least 1 % of the gate width, according to DIN 18358



##### Shaft:

- Steel tube, completely primed
- Deflection safety according to DIN 18 073 (max. deflection 1/500)

##### Consoles (standard):

- Steel, galvanised/primed
- Mounting by means of anchors, penetrating screws or welding

##### Drive/control:

##### Alternatively:

- Electrical drive unit 400 V, 3/N/PE/50 Hz, 60 % ED as plug-on drive unit with integrated unreeling protection. Electronic reversing contactor 24 V in switchbox, system power supply wired with CEE plug 5 A, 5-pin, actuators as membrane push-button Open/Stop/Close, status LED indicator, and round lock cylinder with key for control voltage On/Off, integrated in the housing lid, emergency operation by means of emergency crank handle, optional emergency chain
- Electrical drive unit 400 V, 3/N/PE/50 Hz, 60 % ED as chain wheel drive unit with separate unreeling protection. Electronic reversing contactor 24 V in switchbox, system power supply wired with CEE plug 5 A, 5-pin, actuators as membrane push-button Open/Stop/Close, status LED indicator, and round lock cylinder with key for control voltage On/Off, integrated in the housing lid, emergency operation by means of emergency crank handle, optional emergency chain

##### Alternatively:

- Deadman control in downward movement
- Self-holding operation in up and downward movement, including self-monitoring bottom contact rail, optoelectronic, function "Stop" and "Reverse", intake protection consisting of sender and receiver

##### Installation

In front of and behind the opening for the following building materials

- Concrete
- Masonry
- Steel
- Lightweight construction such as gas concrete with building side frame (sub-construction)

##### Basic conditions:

- The door opening is ready and freely accessible
- The hall floor is stabilised

##### Remarks:

On request, you may receive individually dimensioned mounting sketches for each gate. For custom constructions or custom sizes, please contact us.

## GRL 105

### Technical data

Rolling grill curtain according to DIN EN 12 604

Wind load according to DIN EN 12 424 class 2/DIN 1055 – Part 4

#### Slats:

- Perforated profiles (hole diameters approx. 3 mm)
- Ventilation of approx. 25 %
- Single-walled
- Connected hinge-like
- Natural or anodised aluminium
- Steel, galvanised and coated in any RAL colour

#### Structural shape:

- Profile exterior and interior curved
- Slats are arranged to repel water
- Door widths up to 12.000 mm
- Other widths on request

#### Bottom profile:

- Rigid aluminium hollow profile
- Good compensation for floor irregularities with permanent elastic bottom seal made from EPDM

#### Locking:

On request possible on the inside and/or outside

#### Guide rails:

- Aluminium extruded profile
- Special bellmouth
- Guide rail depth at least 1% of the gate width, according to DIN 18 358

#### Winding shaft:

- Steel tube, completely primed
- Deflection safety according to DIN 18 073 (max. deflection 1/500 of the winding shaft length)

#### Consoles (standard):

Steel, galvanised/primed

#### Drive/control:

Alternatively:

- Electrical drive unit 400 V, 3/N/PE/50 Hz, 60 % ED as plug-on drive unit with integrated unreeling protection. Electronic reversing contactor 24 V in switchbox, system power supply wired with CEE plug 5 A, 5-pin, actuators as membrane push-button Open/Stop/Close, status LED indicator, and round lock cylinder with key for control voltage On/Off, integrated in the housing lid, emergency operation by means of emergency crank handle, optional emergency chain
- Electrical drive unit 400 V, 3/N/PE/50 Hz, 60 % ED as chain wheel drive unit with separate unreeling protection Electronic reversing contactor 24 V in switchbox, system power supply wired with CEE plug 5 A, 5-pin, actuators as membrane push-button Open/Stop/Close, status LED indicator, and round lock cylinder with key for control voltage On/Off, integrated in the housing lid, emergency operation by means of emergency crank handle, optional emergency chain

Alternatively:

- Deadman control in downward movement
- Self-holding operation in up and downward movement, including self-monitoring bottom contact rail, optoelectronic, function "Stop" and "Reverse"

#### Installation

In front of and behind the opening for the following building materials

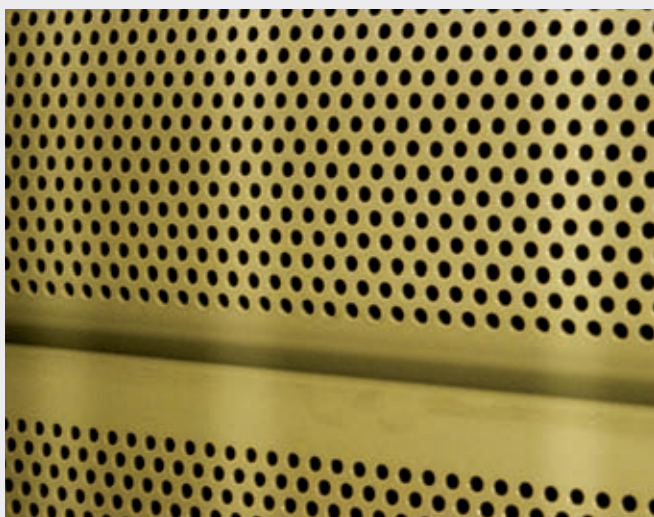
- Concrete
- Masonry
- Steel
- Lightweight construction such as gas concrete with building side frame (sub-construction)

#### Basic conditions:

- The door opening is ready and freely accessible
- The hall floor is stabilised

#### Remarks:

On request, you may receive individually dimensioned mounting sketches for each gate. For custom constructions or custom sizes, please contact us.







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