ROLLER GARAGE DOOR ROLLMATIC

4Ddoors
Affordable Ingenuity

SALES
TECHNICAL
MANUAL

RollMatic Roller Garage Door

Including operator

RollMatic roller garage door product description

// NEW Decopaint surface
Available from July 2014

General

Spring-compensated roller garage door with integrated anti-lift kit for private applications. As standard only for use with a 4D doors RollMatic operator.

Frame

- Aluminium extrusion profile side guides with integrated plastic runners. Coating in door curtain colour.
- Lintel cladding made of sheet steel in door curtain colour.
- Barrel casing and side cladding made of sheet steel, coated in the curtain colour. Coating in brown for Decograin curtain versions.
- Coating in the basic colour of the timber finish in Decopaint version.

Door curtain

Rolled aluminium profile foamed with polyurethane rigid foam, with integrated storm anchors, profile height 77 mm. Coloured versions with two-layer coil coating with a paint system based on a high-quality polyurethane coated with polyamide.

Surface coating

Interior and exterior of door curtain:
- Standard colours based on the RAL colour chart:

Traffic white	RAL 9016
Light ivory	RAL 1015
Ruby red	RAL 3003
Steel blue	RAL 5011
Moss green	RAL 6005
Anthracite grey	RAL 7016
Light grey	RAL 7035
Terra brown	RAL 8028
Cream	RAL 9001
Jet black	RAL 9005
White aluminium	RAL 9006 *

Dark colours should not be used for doors that are exposed to the sun, as possible section deflection may restrict the door's function and increase door curtain wear.

* IMPORTANT:
For the colour White aluminium based on RAL 9006, a colour sample relating to the order must be confirmed by the customer in order to avoid complaints with this sensitive metallic colour.

// NEW
Decopaint version with paint on the outside and timber design look on the inside
- **Golden Oak** – medium brown surface with golden yellow shimmer and vibrant oak character
- **Rosewood** – reddish-brown stripey timber design

Decograin version with plastic film coating with timber design on the outside (not available for external roller garage doors)
Exterior:
- Coated with UV-resistant synthetic foil with timber design.
  - **Golden Oak** – medium brown surface with golden yellow shimmer and vibrant oak character
  - **Rosewood** – reddish-brown stripey timber design
Interior:
- Coating in brown

Counterbalance

Tension spring assembly with lateral integral double tension springs. Cladding of internal roller garage door with transparent plastic and with aluminium profiles with integrated window cut-outs for external roller garage doors. Transmission of forces via two cables.

Manually operated version
(not possible with external roller garage door)

Door operated via chain hoist and interior / exterior handle.

Fittings and closing devices

Lockable bottom profile with two-point locking for manually operated doors. Integrated anti-lift kit for doors with a RollMatic operator.

Chamfered bottom profile
(optional, not available for manual operation)

Optional bottom profile to compensate for uneven floors (up to 300 mm height difference). Standard colour Jet black RAL 9005. Optional coating in door curtain colour (with the exception of Decograin).

Delivery

1 unit including operator / chain hoist

Glazing and / or ventilation grille arrangement
(optional)

120 x 40
Max. 10 units
Min. 300   60   180
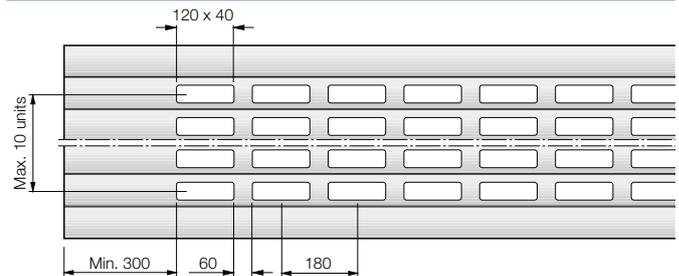
RollMatic Roller Garage Door

Including operator

RollMatic operator product description

Operator data

- 24 V DC gear drive
- Mains voltage 230 – 240 V AC, 0.5 kW
- Opening speed approx. 11 cm/s
- Internal roller garage door: operator always on left when viewed from inside
- External roller garage door: standard operator left, right can be selected (not shown)

Control electronics

- In a separate housing
- Micro-processor control
- Automatic teach-in of automatic safety cut-out and end-of-travel positions,
- Soft start and soft stop
- Lighting
- Adjustable automatic timer, hold-open phase 30 seconds after activation
- Impulse control

Standard equipment

- With 2-button hand transmitter HSE 2 BS (black textured surface)
- Connecting lead with Euro plug
- Control buttons in cover of the control unit
- Integrated garage lighting with 2-minute light in control housing
- Internal roller garage door: quick release operated from inside
- External roller garage door: secured release operated from inside

Housing

- Plastic housing with an external operator.
- Integrated in barrel casing with external roller garage doors.

Temperature range

- −20 °C to +60 °C

Note:
Installation of a photocell is required if the automatic timer is activated!

Certified safety in accordance with European standard 13241-1

Tension spring assembly with multi-spring system

[1] 4D doors RollMatic roller garage doors with double tension springs and double cabling protect the door leaf from crashing in every door position. The patented multi-spring system and the transparent protective cover prevent broken springs from flying out and thus protect from personal injury.

A well-protected shaft

[2] The standard shaft cover practically prevents reaching into the door barrel. In addition, it protects the curtain from damage and dirt when the door is open. The cover is supplied in the colour of the door or in brown with Decograin surfaces.

Integrated mechanical anti-lift kit

[3] The special section positioning at the shaft as well as the connection to the operator protect the RollMatic roller garage door from being pushed open forcefully from the outside. This makes burglary attempts much more difficult. Of course, manual opening from the inside is possible in emergencies.

Wear-resistant bearing rings

[4] The newly developed bearing rings made of various plastics reduce wear when the curtain is rolled up and down. This keeps the surface of the door curtain beautiful for a long period of time. The bearing rings also dampen noise and help the door to close better.

Standard wind locks

[5] 4D doors RollMatic roller garage doors can even withstand large wind loads (up to class 5). The wind locks fitted as standard in the profile ends keep the door securely within its guides. An additional advantage is increased protection from burglary.

Only from 4D doors

[1]

Only from 4D doors

[3]

Only from 4D doors

[4]

[5]

Surface finishes and colours

## For individual design possibilities

Smooth surface

The smooth surface of the aluminium profiles looks modern and elegant, unlike ribbed profiles from other suppliers. Furthermore, a high-quality coating on the inside and outside of the door's surface makes it easy to clean.

Profile with thermal insulation

The hollow space of the profile is evenly filled with polyurethane rigid foam for quiet door travel.

Profile view
Interior

Profile view
Exterior

Glazing elements

Get more daylight in your garage! The glazing elements with synthetic panes are arranged across the entire profile width. The number of elements depends on the respective door width. A maximum of ten profiles can be fitted with glazings in each door.

Ventilation grilles

Ventilation of your garage improves the room climate and prevents mould. Ventilation grilles made of long-lasting plastic are arranged across the entire profile width. A maximum of ten profiles can be used for each door.

Profile with
synthetic glazing

Profile with
ventilation grille

11 equally-priced colours

RollMatic roller garage doors from 4D doors are delivered in Traffic white as standard, in addition there are 10 preferred colours available without a surcharge.
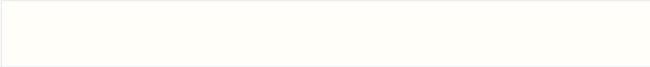
|	
Traffic white	RAL 9016
White aluminium	RAL 9006
Jet black	RAL 9005
Cream	RAL 9001
Terra brown	RAL 8028
Light grey	RAL 7035
Anthracite grey	RAL 7016
Moss green	RAL 6005
Steel blue	RAL 5011
Ruby red	RAL 3003
Light ivory	RAL 1015

Only from 4D doors

Harmonious overall appearance

Only 4D doors offers you the complete door in the selected door colour without a surcharge. The door curtain, guide rails, fascia panel, and shaft cover are thus combined in an attractive and harmonious unit.

All colours based on RAL.

The colours and surfaces shown are subject to the limitations of the printing process and cannot be regarded as binding. Please consult with your local 4D doors specialised dealer.

Decor surface finishes

In natural timber looks

Decograin surface finishes

The two Decograin surfaces in the colours Golden Oak and Rosewood have a convincingly real timber look. A special wear-resistant surface protection preserves the UV-resistant plastic film coating on the RollMatic over a long time.

To create a uniform appearance, the exterior door curtain, fascia and frame are supplied with a Decograin surface finish. The interior fascia, side guides, barrel casing and door curtain are painted in brown.

Decograin surface finishes are not available for external rolling shutters.

Interior profile view
in brown

Exterior profile view
in Decograin Golden Oak

Decopaint surface finishes
// NEW

The Decopaint surface finishes Golden Oak and Rosewood are an affordable alternative to Decograin decors.
The interior and exterior of the profiles are painted to look like timber.

Frames, side guides, fascia panels and shaft covers are powder-coated in a base colour matching the timber to create a harmonious appearance.

Side guide in base colour Golden Oak

Side guide in base colour Rosewood

Interior profile view
in Decopaint Golden Oak

Exterior profile view
in Decopaint Golden Oak

Decograin decors

Golden Oak

Rosewood

Decopaint decors

Golden Oak

Rosewood

Roller garage door fitting dimensions

RollMatic roller garage door incl. operator

Internal roller garage door: Fitting behind the opening, view of fitting side

Internal roller garage door: Fitting in the opening, interior view

Min. 105   LB   Min. 105   Exterior   ≥340   OFF   5   100   35   75   100   5

100   LB   100   Exterior   ≥340   OFF   5   35   75   5

EBT   5   SBD   275   230   LH   LD   Exterior   OFF
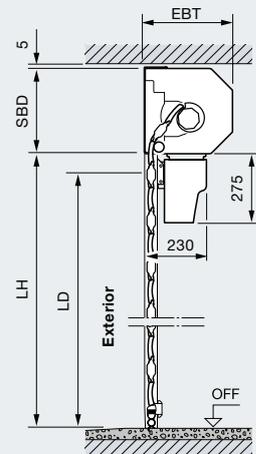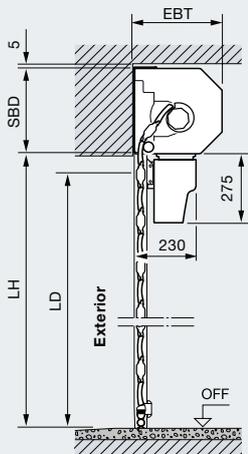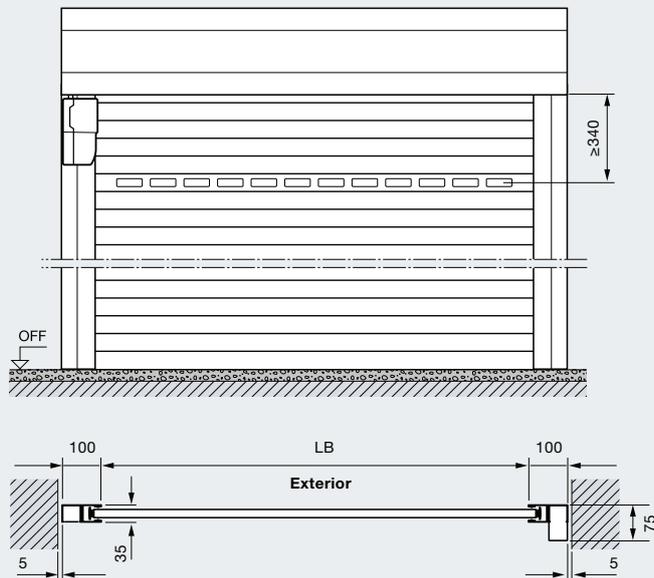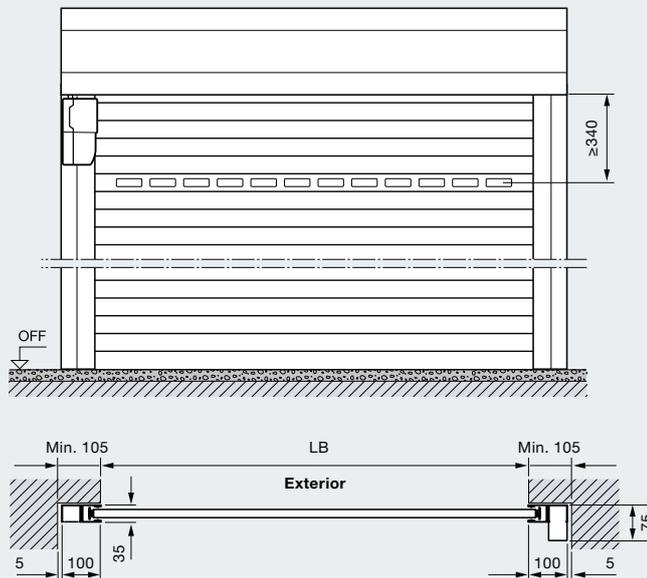
Size range for internal and external roller garage door

Clear height (LH)	1000	1250	1500	1750	1900	2000	2250	2500	2750	3000	3250	3500	3750	4000	4250	4500	4750	5000
3100																		
3000																		
2875																		
2750																		
2675																		
2625																		
2500																		
2375																		
2250																		
2125																		
2000																		
1800																		
1600																		

Clear width (LB)

20

Dimensions in mm

RollMatic Roller Garage Door

Including operator

Internal roller garage door fitting dimensions

Fitting behind the opening

Operator / chain hoist, interior left

Fitting depth = required headroom

Required headroom
290 (LH ≤ 2300)
335 (LH > 2300)

≥ 340

Clear height (LH) = ordering size

Clear passage**

Exterior

275

230

X1*

FFL

FFL

min. 105   Clear width (LB) = ordering size   min. 105

Exterior

35

75

5   100   100   5
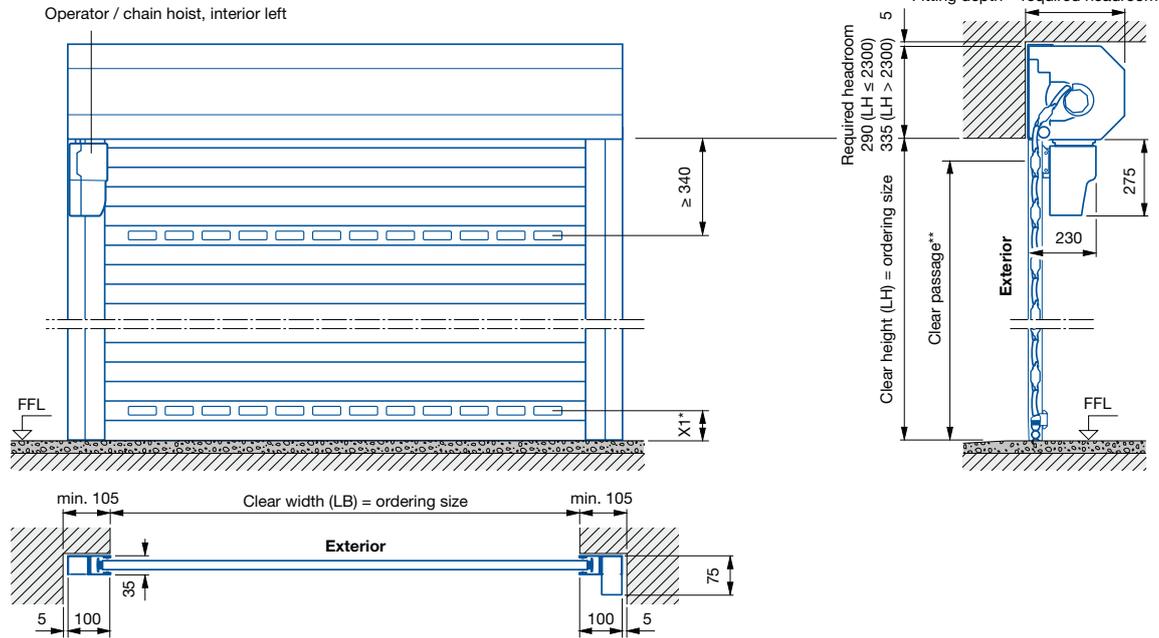
*   X1 = dimension without chamfered bottom profile
**   See the table "Dimensions" on page 245

Fitting in the opening
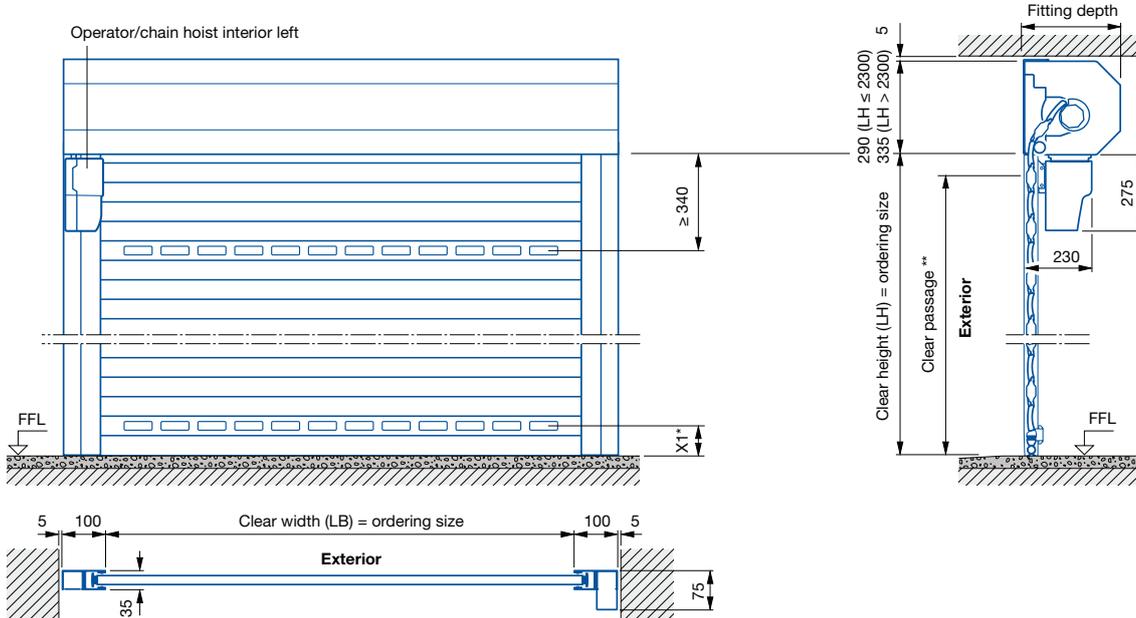
Operator/chain hoist interior left

Fitting depth

290 (LH ≤ 2300)
335 (LH > 2300)

≥ 340

Clear height (LH) = ordering size

Clear passage **

Exterior

275

230

X1*

FFL

FFL

5   100   Clear width (LB) = ordering size   100   5

Exterior

35

75

*   X1 = dimension without chamfered bottom profile
**   See the table "Dimensions" on page 245

Additional fascia panel (optional) is recommended.
Accessories see on page 249.

Chamfered bottom profile

LH   L   Max. LH

Max. LH   R   LH

H   H

Left   Right
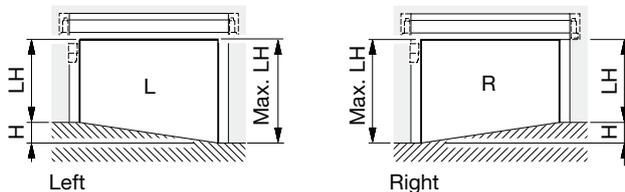
Chamfered bottom profile – View of fitting side

LH   =   (Clear height on short side) = ordering size
Max. LH = 3100 mm
Min. LH = 1600 mm

H   =   Height difference max. 300 mm

RollMatic Roller Garage Door

Including operator

External roller garage door fitting dimensions
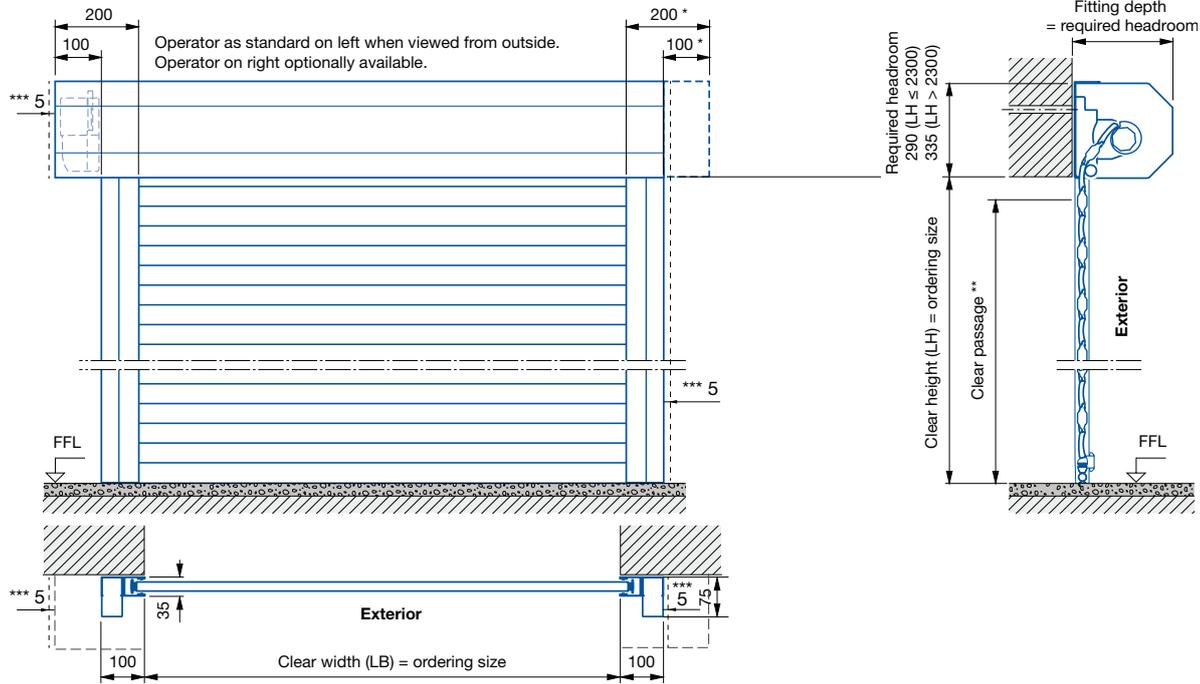
Fitting in front of the opening

Operator as standard on left when viewed from outside.
Operator on right optionally available.

Fitting depth = required headroom

Required headroom 290 (LH ≤ 2300) 335 (LH > 2300)

Clear height (LH) = ordering size

Clear passage **

Exterior

FFL

Clear width (LB) = ordering size

*   For a visually balanced look the barrel casing can be ordered symmetrically!
**   See the table "Dimensions"
***   At least 5 mm distance from fascia panel / side guide

Dimensions

	Version with RollMatic operator	Manually operated version (not available for external roller garage doors)
Clear passage height	= Clear height (ordering size) **– 60 mm**	= Clear height (ordering size) **– 125 mm**
Clear passage width	= Clear width (ordering size)	= Clear width (ordering size)

External roller garage door RollMatic
The solution for areas with a lack of interior sideroom

100 mm

[1]

Variable operator positions

[1] Depending on the fitting situation, operators for external roller garage doors can either be installed on the left or right. The shaft cover is 100 mm wider in this area and encloses the operator, protecting it from adverse weather effects or from unauthorised interference.

Tension spring cladding with vision sections

[2] You can easily check whether the cable guide or springs are working through the vision sections in the spring cladding, providing you with safety even after many years.

[2]

Secured release on inside

[3] The operator can be easily released from the inside using a hand pulley. You can, for example, easily open your door by hand from the inside during a power failure.

[3]

RollMatic Rolling Grille

RollMatic rolling grille product description

General

Spring-compensated rolling grille with integrated anti-lift kit for private and commercial applications. As standard only for use with a 4D doors RollMatic operator.

Frame

- Aluminium extrusion profile side guides with integrated plastic runners. Coating in door curtain colour.
- Lintel cladding made of sheet steel in door curtain colour.
- Barrel casing and side cladding made of sheet steel, coated in the curtain colour. Coating in RAL 9006 White aluminium with mill-finished door curtain.

Door curtain

HG 75
Extruded aluminium profile, straight or offset perforation, with powder-coated surface finish. Profile height 77 mm

HG-L
Honeycomb connections with aluminium crossbar, optionally mill-finished or with powder-coated surface finish.

Surface coating

Interior and exterior of door curtain:
- Standard colours based on the RAL colour chart:

Traffic white	RAL 9016
Light ivory	RAL 1015
Ruby red	RAL 3003
Steel blue	RAL 5011
Moss green	RAL 6005
Anthracite grey	RAL 7016
Light grey	RAL 7035
Terra brown	RAL 8028
Cream	RAL 9001
Jet black	RAL 9005
White aluminium	RAL 9006 *

Dark colours should not be used for doors that are exposed to the sun, as possible section deflection may restrict the door's function and increase door curtain wear.

* IMPORTANT:
For the colour White aluminium based on RAL 9006, a colour sample relating to the order must be confirmed by the customer in order to avoid complaints with this sensitive metallic colour. This is very important if a combination of 4D doors products is ordered from different factories. Please order a colour sample from 4D doors.

Counterbalance

Tension spring assembly with lateral integral double tension springs. Cladding with aluminium profile with integrated window cut-outs. Transmission of forces via two cables.

Manually operated version**

Door operated via pull cord or chain hoist and interior / exterior handle. Version fit behind and in the opening generally without barrel casing, doors with chain hoist with separate chain sprocket cladding. Version fit in front of the opening – external fitting generally with barrel casing.

** Note:
A fitting gearbox is required for fitting the manually operated version. The fitting gearbox can be reused for additional fittings.

Fittings and closing devices

Integrated anti-lift kit for doors with a RollMatic operator. Optionally manually operated: lockable bottom profile with two-point locking and lever handle or shootbolt.

Chamfered bottom profile
(optional, not available for manual operation)

Optional bottom profile to compensate for uneven floors (up to 300 mm height difference). Standard colour Jet black RAL 9005. Optional coating in door curtain colour possible.

Delivery

1 unit including operator / pull cord

Hole pattern for door curtain HG 75

Straight
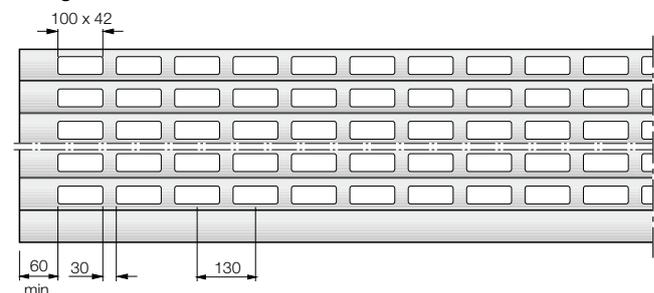
Offset
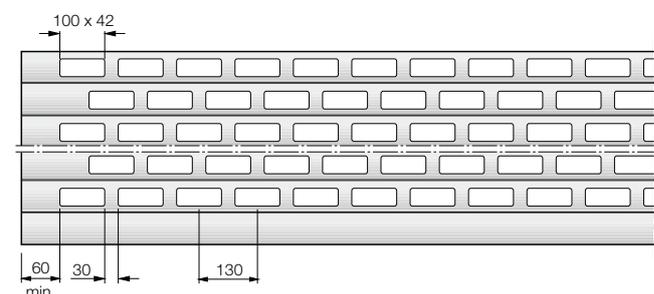
RollMatic Rolling Grille

RollMatic operator product description

Operator data

- 24 V DC gear drive
- Mains voltage 230 – 240 V AC, 0.5 kW
- Opening speed approx. 11 cm/s
- Standard operator left, optionally right by choice
- The operator is located beneath the rolling shutter barrel casing and therefore cannot be seen from the outside

Control electronics

- In a separate housing
- Micro-processor control
- Automatic teach-in of automatic safety cut-out and end-of-travel positions,
- Soft start and soft stop
- Lighting
- Adjustable automatic timer, hold-open phase 30 seconds after activation
- Impulse control

Standard equipment

- With 2-button hand transmitter HSE 2 BS (black textured surface)
- External unidirectional receiver HE 3 BiSecur in 868 MHz for the impulse function (no status query possible)
- Connecting lead with Euro plug
- Control buttons in cover of the control unit
- Integrated lighting with 2-minute light in the control housing
- Secured release operated from the inside

### Housing

- Operator is integrated in the barrel casing.

Temperature range

- –20 °C to +60 °C

Note:
Installation of a photocell is required if the automatic timer is activated!

RollMatic Rolling Grille

Fitting dimensions

Fitting behind the opening – View of inside fitting
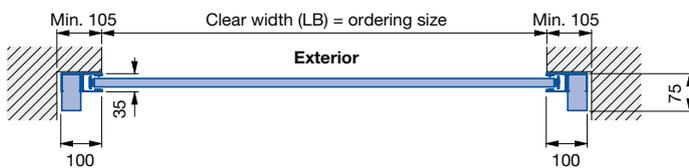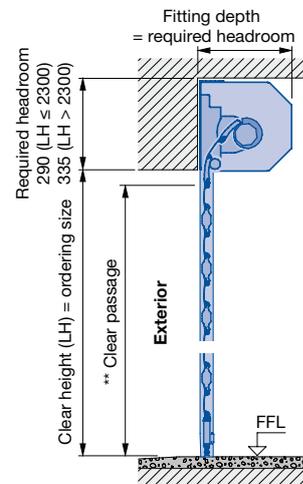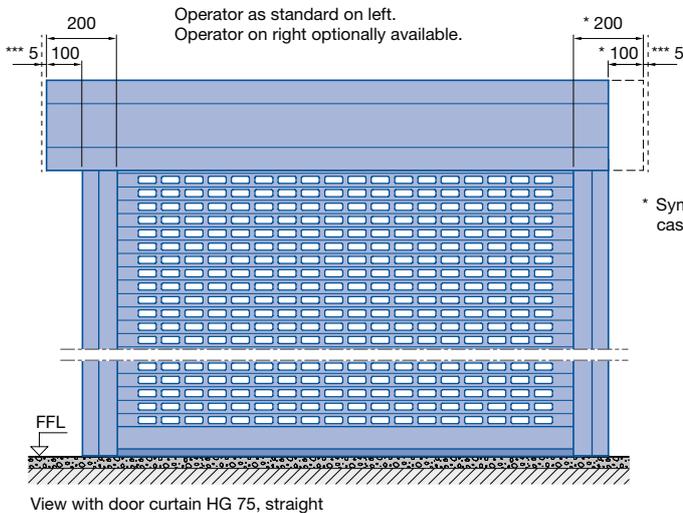
Operator as standard on left.
Operator on right optionally available.

* Symmetrical barrel casing optional

View with door curtain HG 75, straight

Fitting depth = required headroom

Required headroom 290 (LH ≤ 2300) 335 (LH > 2300)

Clear height (LH) = ordering size

** Clear passage

Exterior

FFL

Min. 105   Clear width (LB) = ordering size   Min. 105

Exterior

*   For a visually balanced look the barrel casing can be ordered symmetrically!
**   See the table "Dimensions"
*** Side distance min. 5 mm

Fitting compensation set (optional) is recommended.
See accessories on page 249.

Fitting in the opening – Interior view (only manually operated)

Pull cord interior view, left

View with door curtain HG 75, offset

Fitting depth

Required headroom 290 (LH ≤ 2300) 335 (LH > 2300)

Clear height (LH) = ordering size

** Clear passage

Exterior

FFL

5   100   Clear width (LB) = ordering size   100   5

Exterior
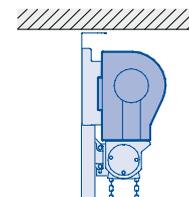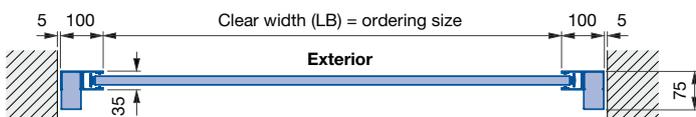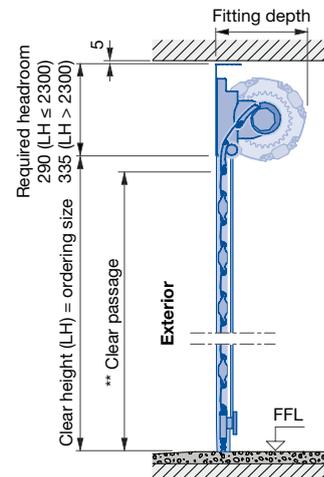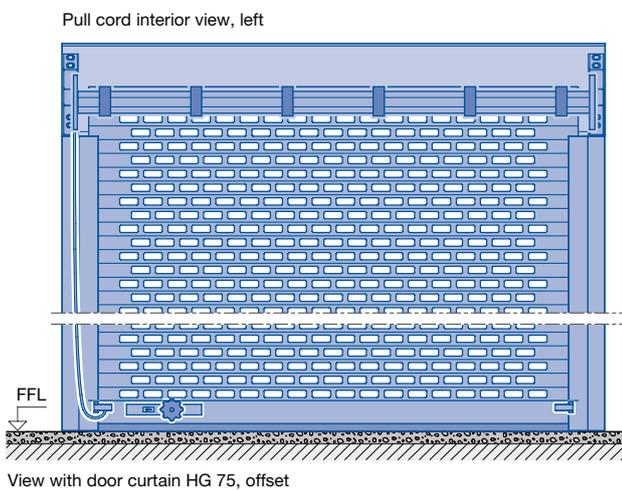
Only for chain hoist

**   See the table "Dimensions" on page 245

Additional fascia panel (optional) is recommended.
See accessories on page 262.

RollMatic Rolling Grille

Fitting dimensions

Fitting in front of the opening – View of external fitting
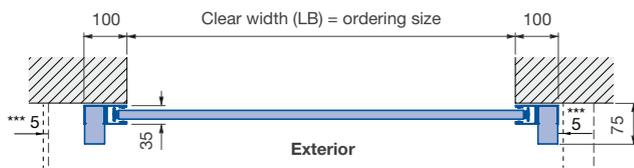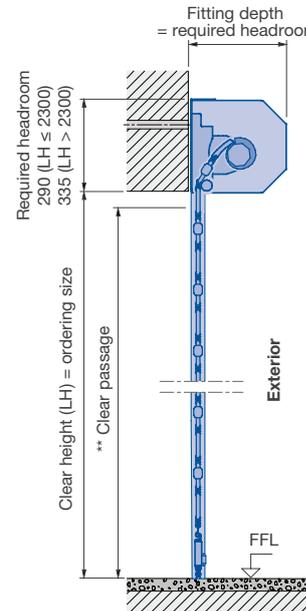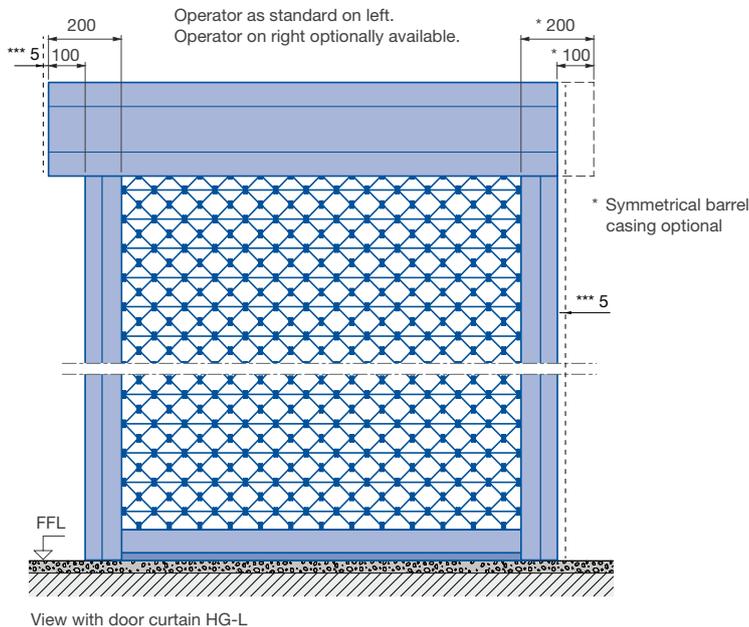
Operator as standard on left.
Operator on right optionally available.

200

* 200

*** 5

100

* 100

* Symmetrical barrel casing optional

*** 5

FFL

View with door curtain HG-L

Fitting depth = required headroom

Required headroom 290 (LH ≤ 2300) 335 (LH > 2300)

Clear height (LH) = ordering size

** Clear passage

Exterior

FFL

100 | Clear width (LB) = ordering size | 100

*** 5

35

Exterior

*** 5

75

* For a visually balanced look the barrel casing can be ordered symmetrically!

** See the table "Dimensions"

*** At least 5 mm distance from fascia panel / side guide

Fitting compensation set (optional) is recommended.
See accessories on page 249.

Dimensions

	Version with RollMatic operator	Manually operated version / lockable bottom profile / shootbolt
Clear passage height	= Clear height (ordering size) **– 70 mm**	= Clear height (ordering size) **– 125 mm**
Clear passage width	= Clear width (ordering size)	= Clear width (ordering size)

Chamfered bottom profile (only possible with power-driven version)

Ordering size = LH (clear height on short side)
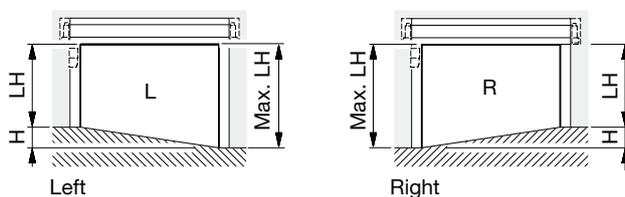
LH

L

Max. LH

H

Max. LH

R

LH

H

Left

Right

LH = (Clear height on short side) = ordering size
Max. LH = 3100 mm
Min. LH = 1600 mm

H = Height difference max. 300 mm

Chamfered bottom profile – View of fitting side