



Automatic
Space-Saver Doors

DORMA RST

Maximum opening width for minimum clear structural width

The DORMA RST space-saver door performs a swivel movement. The pivot centres are located off-centre, below and above the door opening. This gives minimum space swept by the door leaves. DORMA RST space-saver doors are supplied in standard sizes ready to install.

(If desired, installation and commissioning by DORMA.) They meet high standards of safety and reliability, and

can also be used on emergency escape routes, since they can be opened like a normal hinged door. If the automatic operator is not switched on, the door can be manually opened without trouble.



Quality-assured manufacture to ISO 9001, EN 29001, BS 5750. Certified and verified by BSI Quality Assurance Reg.-No. Q 6423, FM 10756

Advantages – point by point ...

... for the builder

- assurance that design is state-of-the-art and complies with all regulations
- easy to specify and order
- simple to install and commission, whether in new or existing buildings.

... for the architect

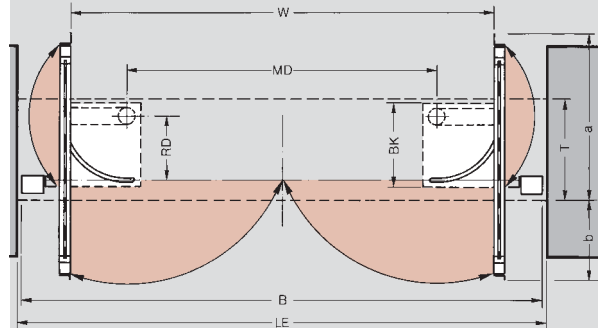
- clearly defined system responsibility
- customised to individual specification requirements and scope of functions.

- choice between elegant fine-framed system with “all-glass” look ...
- or rugged aluminium frame system.

... for the user

- optimum from aesthetic, technical and cost/benefit aspects
- “made-to-measure” complete solution, manufactured accurately to high quality in the factory
- extremely safe
- makes entrances usable also by wheelchair users and disabled persons.

DORMA RST

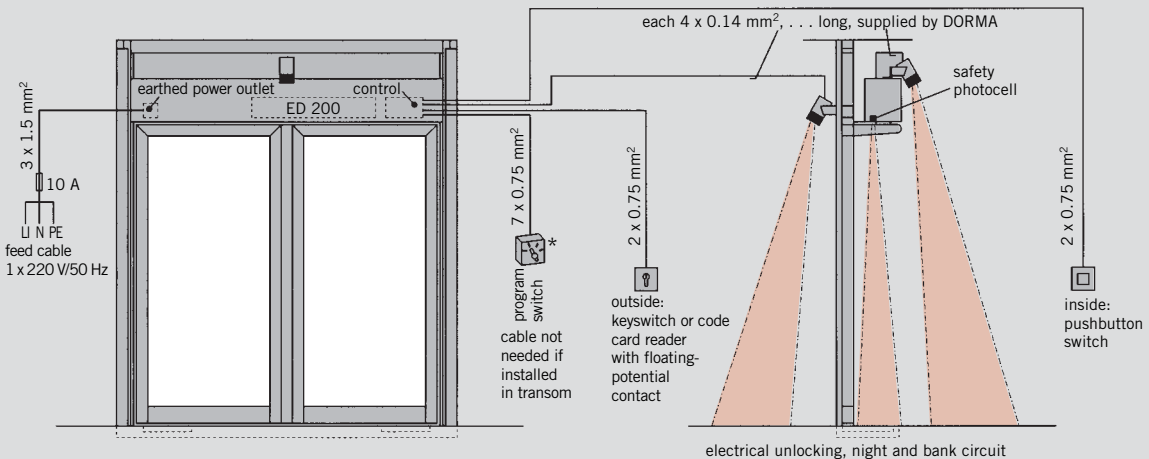


- W opening width
- LE clear structural width
- B width of system
- LH clear opening height (standard: 2100 mm)
- RR structural opening height
- RD radius of centre of motion
- MD distance of centre of motion
- BK width of floor bearing box
- T depth of floor recess for floor bearing box
- a inside door depth
- b outside door depth
- e wall distance

Wiring plan

*The cable to the external program switch must be increased to 1.5 mm² cross-section if longer than 10 metres length. Maximum length 50 mm.

Locking options: electrical – transom unit
mechanical – cylinder lock
floor centre or centre of door.



Data and features		RST
Min. opening width W in mm	two-leaf	1000
Max. opening width W in mm	two-leaf	2000
Min. clear structural width LE in mm		1291
Swivelling door leaf		●
Max. door leaf weight in kg		60
Opening height (LH) RST-G approx. in mm		2100
Opening height (LH) RST-R approx. in mm		2300
Transom light or opaque panel		○
Frame (choice)	all-glass look rugged frame	● ●
Suitable for emergency escape routes		●
Max. escape route width in mm		2000
Drive unit		ED 200
Control unit	electronic	●
Programs	off	●
	automatic	●
	exit	●
	hold-open	●
Night/bank circuit		●
Pharmacist circuit		–
Airlock control (for two systems)		○
Opening and closing force in N		< 150
Max. opening speed in cm/sec per leaf		6
Max. closing speed in cm/sec per leaf		6
Adjustable damping of opening/closing speed		●
Max. pause-open time in sec		60
Electro-mechanical locking		○
Mechanical locking		○
Fail-closed on power failure		●
Photocell sensor monitors opening zone		●
Activator	radar movement detector	○
	keyswitch	○
Power supply unit for activators or supplementary modules, in V/mA		12/24 AC, 24 DC 560 mA
Max. power taken in W		250
Power required in V/Hz		220 – 240/50 – 60

● yes – no ○ option

Attractive appearance, high benefit, minimum space required

The leaves of the DORMA RST space-saver door sweep only a very small space. The supporting structure and the open leaf need only be a hand's breadth away from the wall. And even the maximum of the sweep is only a few centimetres outside the door line.

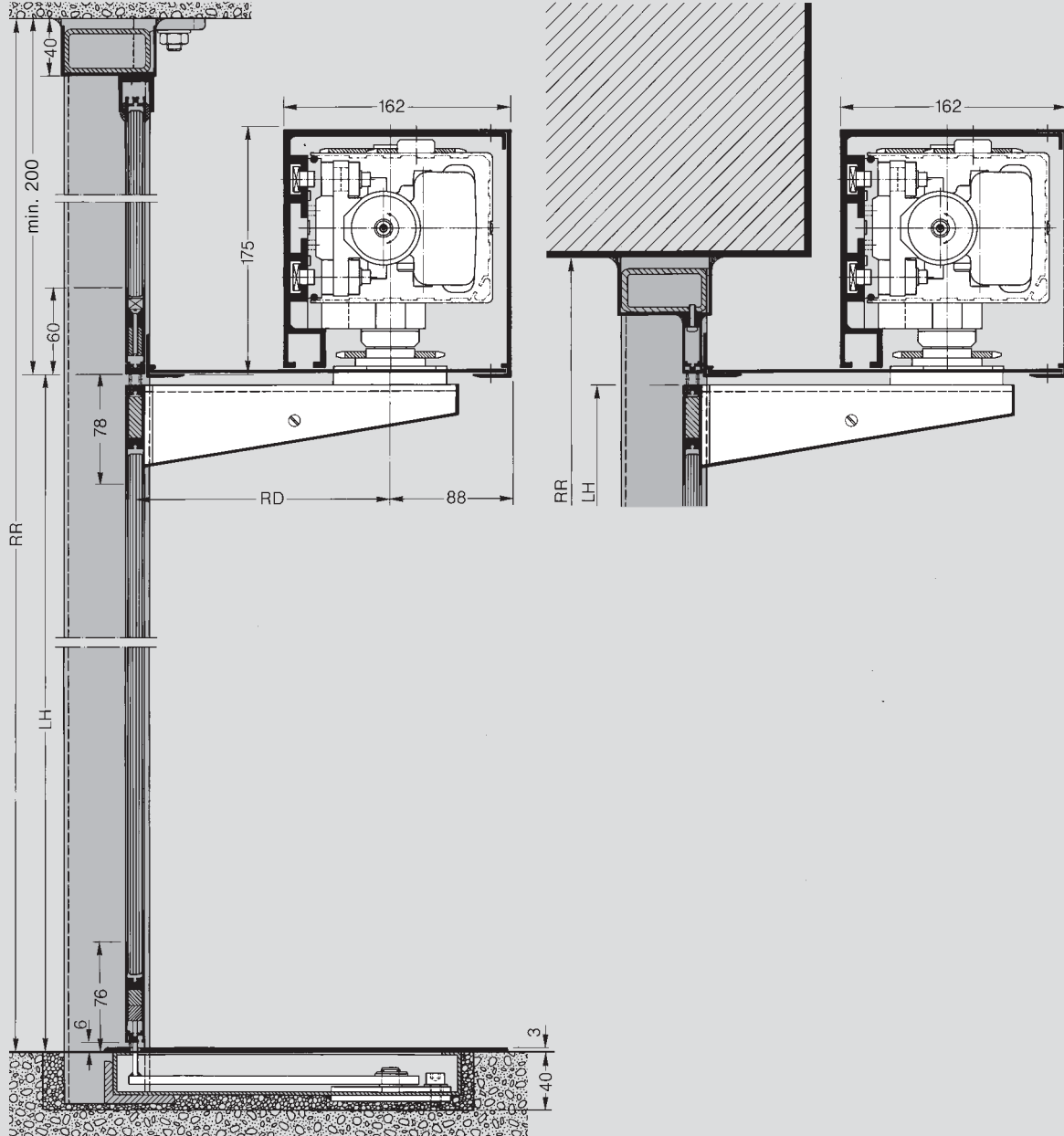
No installation problems: 1.3 metres width is sufficient to install the modern convenient door. And a clear open width of 2.00 m in a structural opening width of less than 2.40 m, for instance, is not usually available elsewhere.



Construction and scope of supply

- ① self-supporting steel structure with aluminium cladding to cover construction tolerances
- ② completely enclosed drive unit with built-in electronic control
- ③ door leaf with toughened or laminated safety glass
- ④ shallow floor bearing in galvanized steel box with stainless steel covers.

Vertical sections DORMA RST-G



Normal installation
with transom light

Installed direct to lintel
without transom light

**DORMA RST-G –
the elegant answer:
door with “all-glass” look**

The inconspicuous fine frame system G developed by DORMA gives the automatic space-saver doors fitted the appearance of being all glass. At the same time it offers optimum sealing and efficiently protects the glass edges. DORMA RST-G automatic space-saver doors are the convincing answer in applications where maximum daylighting and vision are desired, with a high aesthetic design standard.



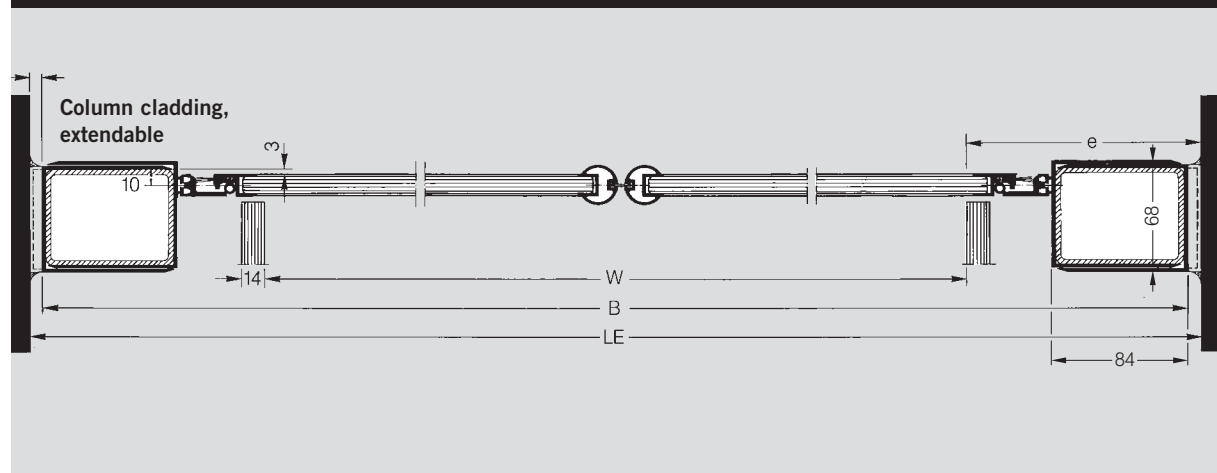
The perfect finishing touch to elegant ambiance: the DORMA RST-G space-saver door with fine-frame system.

Standard versions DORMA RST-G

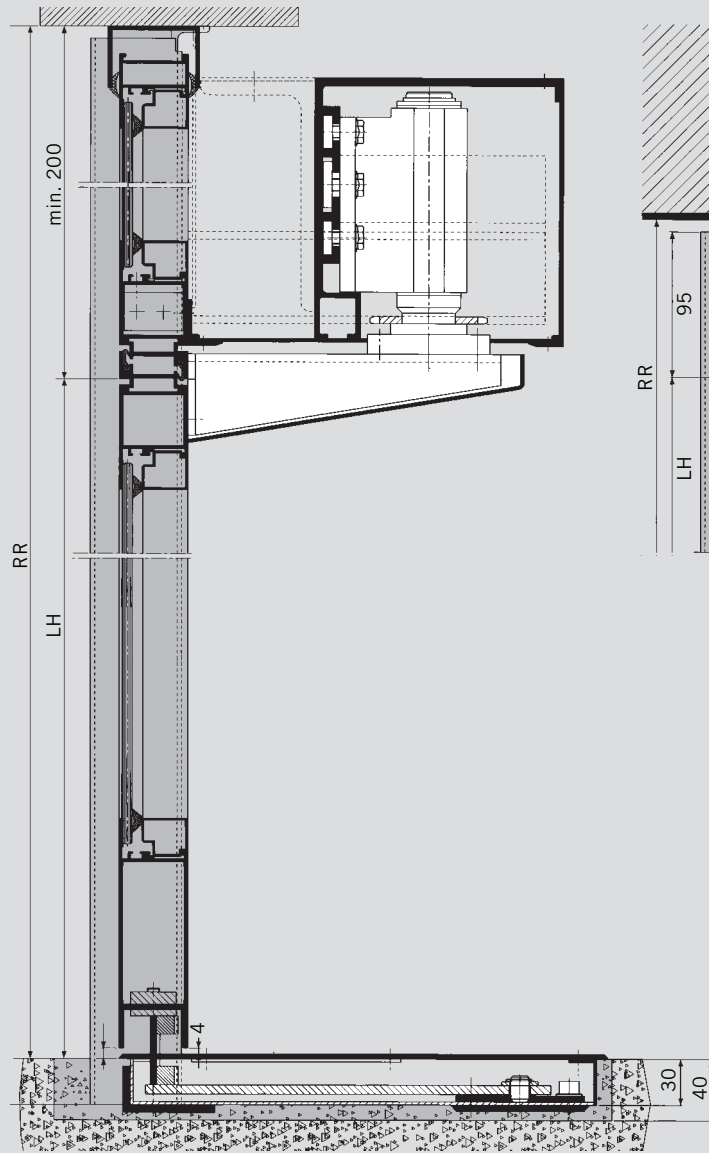
Ordering size:	01	02	03	04	05	06	07	08	09	10	11
W	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
LE min.	1291	1391	1491	1591	1691	1791	1891	1991	2135	2235	2335
B	1275	1375	1475	1575	1675	1775	1875	1975	2075	2175	2275
RD		180				240				300	
MD	654	754	854	834	934	1034	1134	1234	1214	1314	1414
BK		250				310				370	
T		310				370				430	
a		384				504				624	
b	147	197	247	177	227	277	327	377	307	357	407
e min.					148					170	

All dimensions in mm.

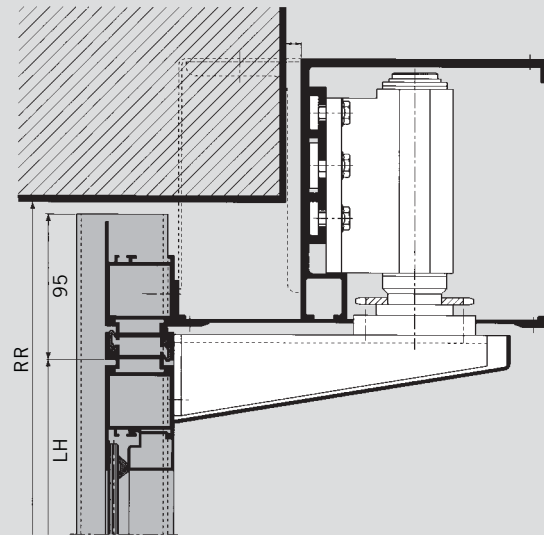
Horizontal section DORMA RST-G



Vertical sections DORMA RST-R



Normal installation
with transom light



Installed direct to lintel
without transom light

**DORMA RST-R –
the rugged answer
for heavy duty use**

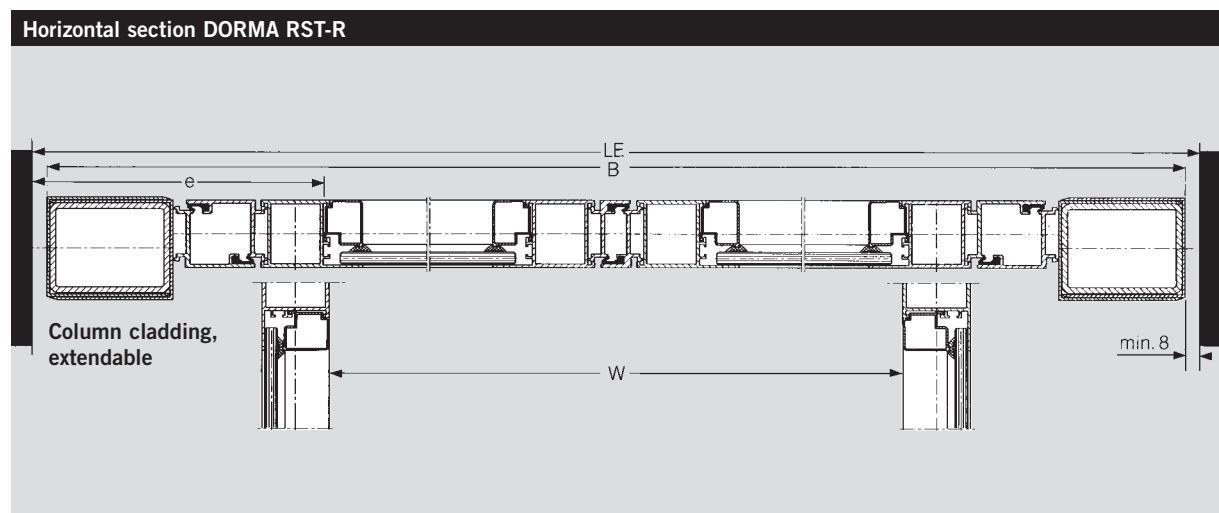
The system of rugged aluminium frame sections developed by DORMA gives the automatic space-saver door maximum stability, torsional stiffness, safety and a good seal. The DORMA RST-R automatic space-saver door emphasises the architectural partitioning function, and is particularly suitable for heavily used entrance or interior doors.



Where there's continual coming and going: the DORMA RST-R space-saver door with rugged aluminium frame system.

Standard versions DORMA RST-R											
Ordering size:	01	02	03	04	05	06	07	08	09	10	11
W	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
LE min.	1391	1491	1591	1691	1791	1891	1991	2091	2231	2231	2431
B	1375	1475	1575	1675	1775	1875	1975	2075	2175	2275	2375
RD	180			240			300				
MD	685	785	885	865	965	1065	1165	1265	1245	1345	1445
BK	250			310			370				
T	310			370			430				
a	432,5			552,5			672,5				
b	171,5	221,5	271,5	201,5	251,5	301,5	351,5	401,5	331,5	381,5	431,5
e min.	194,5						207,5				

All dimensions in mm.



Specification text

- Automatic space-saver door system DORMA RST-G, fine-frame version, manufactured meeting German Code of Practice for Power Operated Windows, Doors and Gates, ZH 1/494, latest issue, and German accident prevention and VDE regulations.
- Automatic space-saver door system DORMA RST-R, rugged-frame version, manufactured meeting German Code of Practice for Power Operated Windows, Doors and Gates, ZH 1/494, latest issue, and German accident prevention and VDE regulations.

Dimensions

overall width mm
overall height mm
opening width mm
opening height mm

Transom construction

Drive unit including aluminium cladding, with key-operated program switch and a photocell sensor on the underside of the transom, square-section steel tube running all round, aluminium covers, height 175 mm.

Swivel leaves

Single glazed with toughened glass ESG, transparent, framed all round in aluminium sections to take seals. The door leaves can be swivelled open in the emergency escape direction, borne on swing arms in the transom structure and concealed in the floor boxes.

- Transom light

Glazing

- single toughened safety glass ESG
- laminated safety glass VSG

Drive unit

- Door drive unit:** type DORMA ED 200, electrohydraulic drive unit on low-vibration mountings, electronic control, silent hold-open setting, with adjustable opening, closing and braking speeds.
Switching programs
OFF · AUTOMATIC · EXIT · HOLD-OPEN
Electrical supply required: 1 x 220/240 V, 50/60 Hz

Safety system

Opening zone is monitored by photocell sensor. In case of power failure, the door system closes or can be opened and closed manually.

Activator

- radar movement detector
- (other) _____

Extra functions (options)

- electromechanical locking
- mechanical locking

Colour

- silver colour (anodised)
- dark brown (anodised)
- white (RAL 9016)
- white (RAL 9010)
- special colour _____ (RAL ____)

Manufacturer and model

DORMA RST-G
DORMA RST-R

DORMA UK Limited

Wilbury Way
Hitchin
GB-Hertfordshire SG4 0AB
Tel. +44 14 62/47 76 00
Fax +44 14 62/47 76 01
E-mail: autos@dorma-uk.co.uk
www.dorma-uk.co.uk