die Rolltor bauer

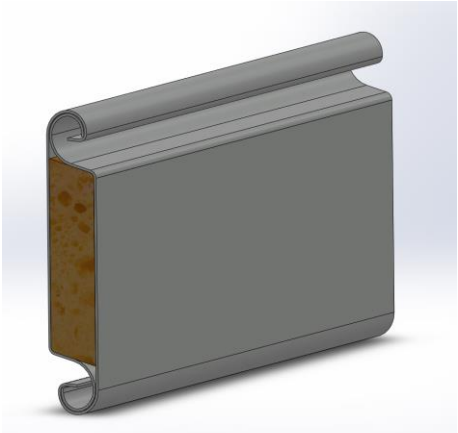
Tortechnik nach Maß

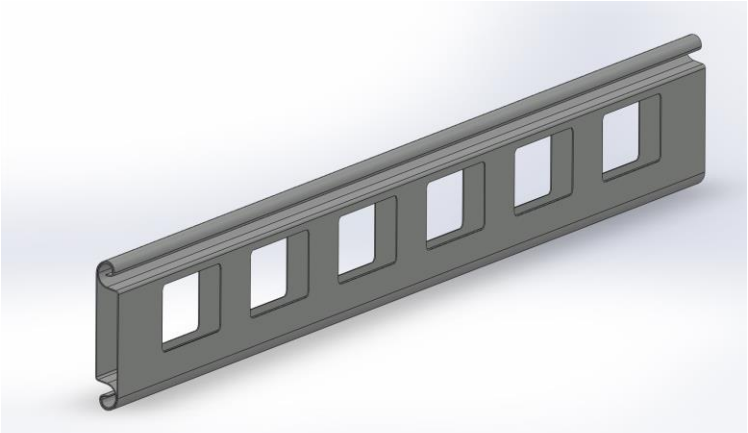
METALL NOWOTNIK GmbH

METALLVERARBEITUNG & TORANLAGENBAU

Rolldoor System RT 100 / RT 120

RT 100

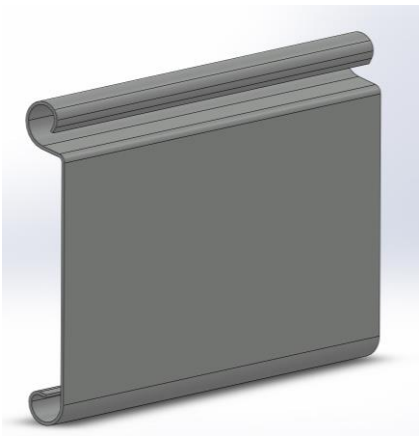


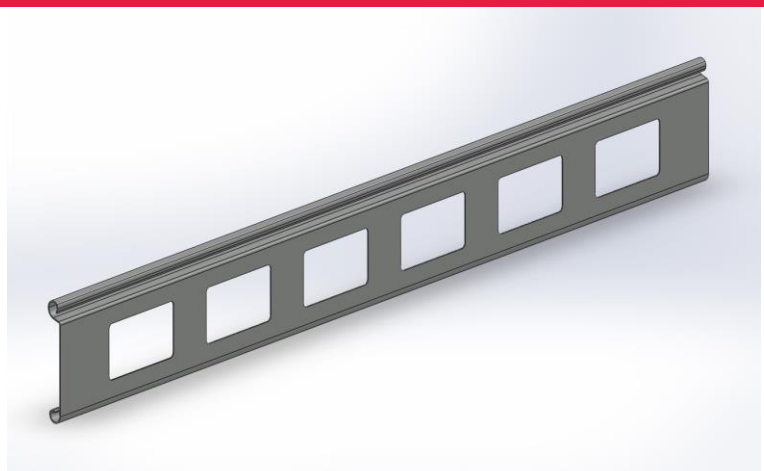


Material	Alu	Steel
Section height	ca. 100 mm	ca. 100 mm
Material thickness	1,20 mm	1,00 mm
Section thickness	21 mm	21 mm
Weight kg/m	1,15	2,6
Weight kg/m²	12	26,1

Windows per meter	Windows size
7 Piece	100 x 54 mm

RT 120

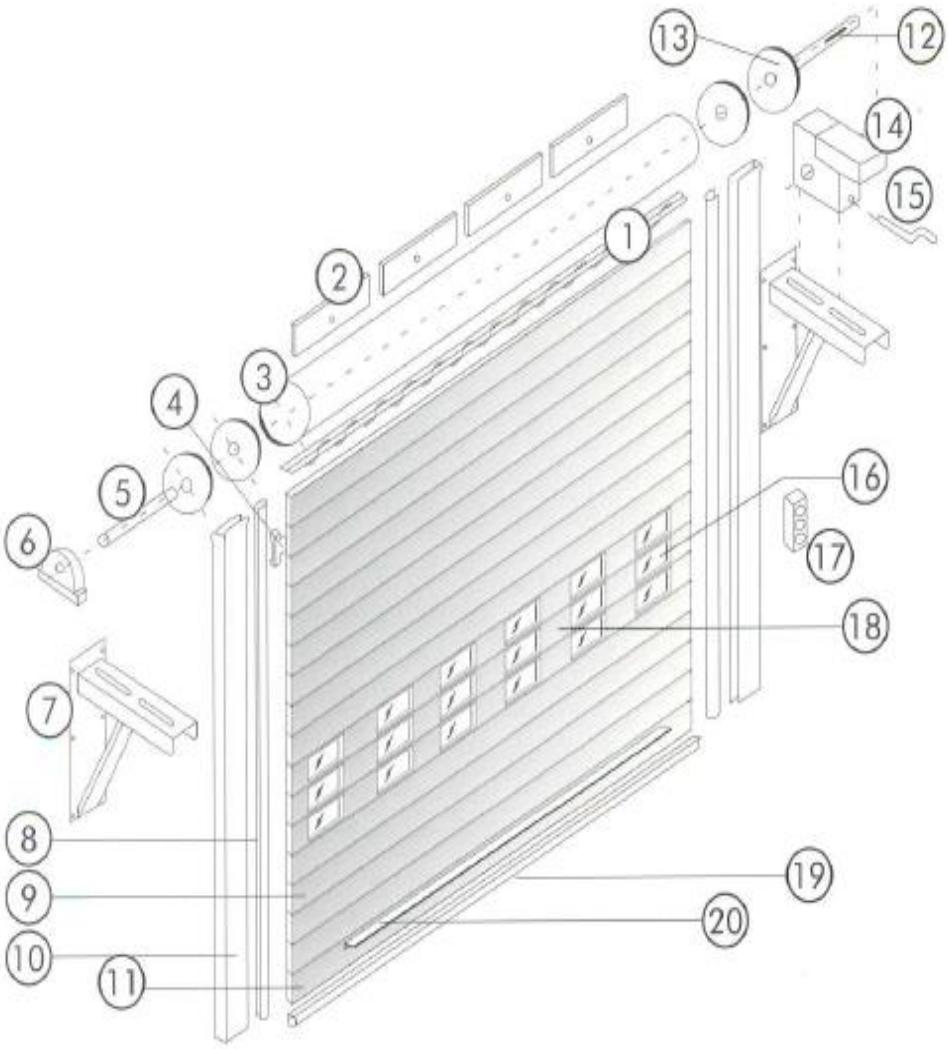




Material	Alu	Steel
Section height	ca. 100 mm	ca. 100 mm
Material thickness	1,20 mm	1,00 mm
Section thickness	18 mm	18 mm
Weight kg/m	0,6	1,3
Weight kg/m²	6,3	13,3

Windows per meter	Windows size
7 Piece	100 x 54 mm

Structure & Components

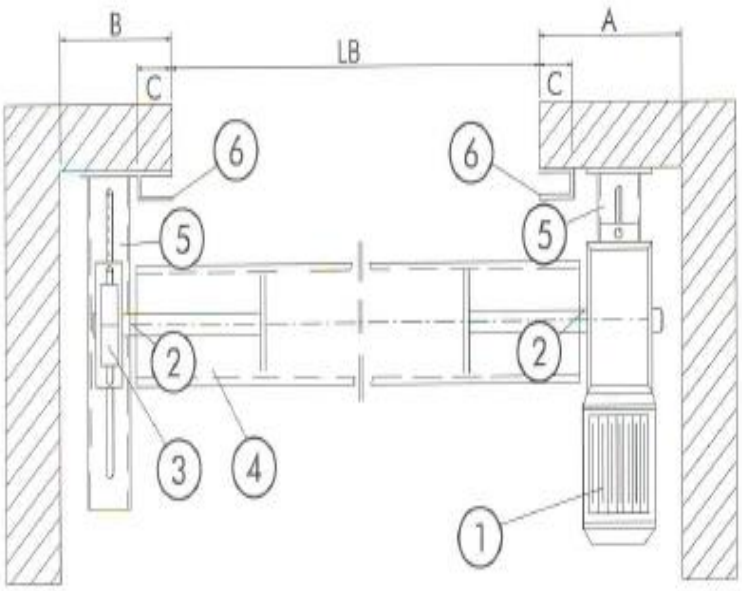


1) brush strip
2) mounting slat
3) tube
4) slide shoe
5) bearing pin
6) pedestal bearing
7) console
8) edge protection section
9) slat
10) guide rail
11) bottom rail
12) bearing pin
13) circular blank
14) shaft-mounted drive
15) emergency crank
16) window
17) control device
18) window slat
19) hollow rubber
20) reinforcing bracket

The main part of a roller shutter is the curtain. It consists of single-wall or double-wall slats that are slid into one another and equipped with plastic locks at the sides. A bottom rail with the bottom sealing rubber is situated at the bottom of the curtain, and it can be reinforced or strutted as necessary. The upper end of the curtain is screwed to the wind-up shaft by means of special mounting slats. The diameter and wall thickness of the shaft are dimensioned according to the size of the door and the static requirements. Pins are welded to the ends of the shaft in such a way as to accurately receive the bearings and the drive. The drive is selected according to the size of the door, the requirements and the available space. Generally, shaft-mounted drives are used, or, if the available space is too small, sprocket drives with suitable transmission ratio. All drives operate at 380V/50Hz with reversing contactor and are prepared ready for connection to the control and security devices. Security devices against unwanted unwinding of the curtain that have been checked by the TÜV are installed according to applicable regulations. In case of shaft-mounted drives, these are security devices integrated in the transmission, in case of sprocket drives, the security devices are installed separately opposite to the motor.

Space Requirement

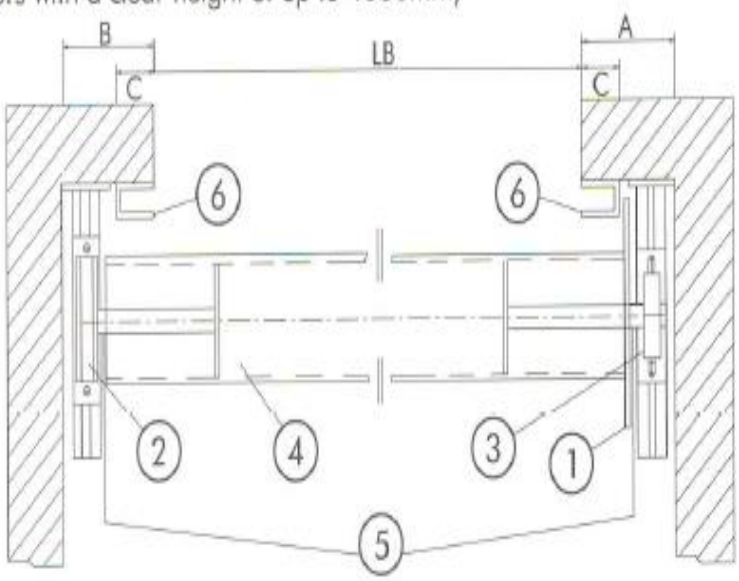
Minimum space required for roller shutters with shaft-mounted drive
(doors with a clear height of up to 4000mm)



1) drive
2) shaft bolt
3) pedestal bearing
4) wind-up shaft
5) consoles
6) guide rail

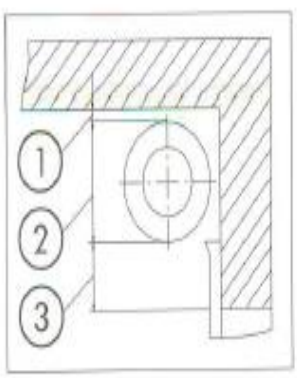
LB	A	B	C
-4000	250	180	80
4000-5500	300	200	80
5500-6500	450	220	100

Minimum space required for roller shutters with sprocket drive
(doors with a clear height of up to 4000mm)



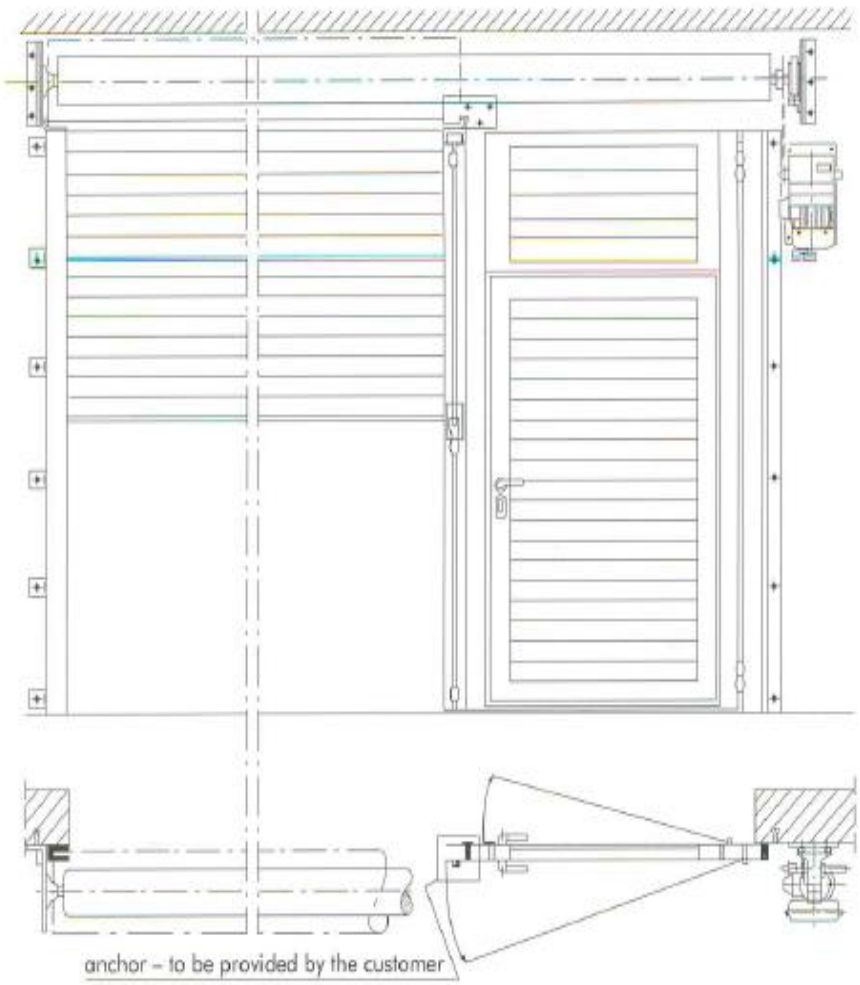
1) sprocket
2) safety device
3) pedestal bearing
4) wind-up shaft
5) consoles
6) guide rail

LB	A	B	C
-4000	150	150	80
4000-5500	200	50	80
5500-6500	220	50	100



Minimum space required for the lintel
The necessary lintel height is calculated as (3) inlet ~ 250mm + (2) roll diameter (see table) + 20mm (1) distance to ceiling. If the available space is too small, the inlet can be reduced. However, this encourages technically caused passage of the curtain in the middle. A negative inlet of the guide rail can counteract this undesired side effect.

Side Parts



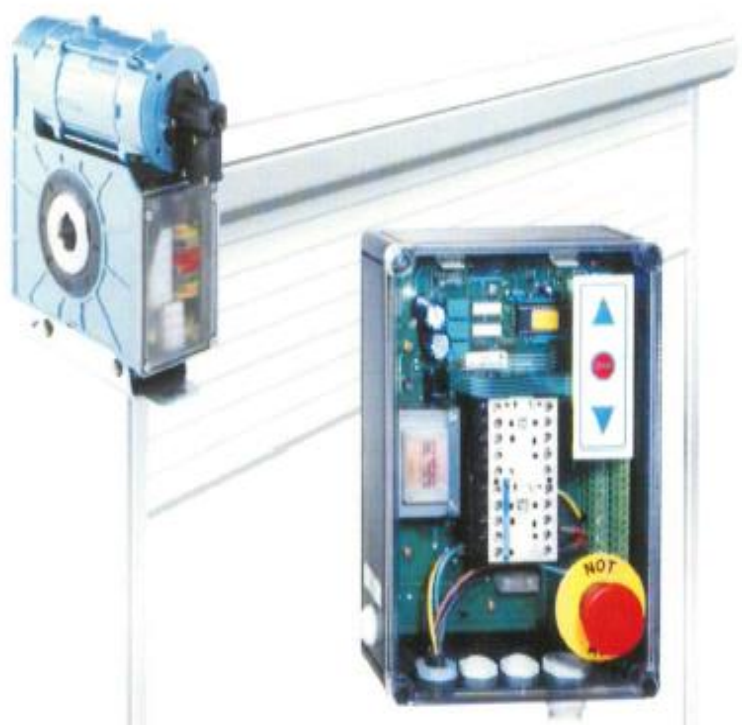
Roller shutters can be equipped with a fixed or pivotable lateral walk-through leaf. In certain cases, this is a practical and functional solution, e.g. if the roller shutter is the only access to the room, if it constitutes an escape door or if the number of persons passing the door is high. The lateral part with the walk-through door is designed similar to the look of the shutter curtain and can, if necessary, be pivoted to the side after the roller shutter is opened. That way, the entire door opening can be used without restrictions. When the lateral part is open, a security switch interrupts the control circuit of the drive.

Standard design:
Lateral part pivoting inward, walk-through door pivoting outward

Special design:
Lateral part and walk-through door pivoting inward

Construction:
The frame of the lateral part and of the walk-through door consists of galvanised torsion-resistant RP tubes. The lateral part is locked with espagnolette, the door has a profile cylinder lock, lockable from both sides with LM handle (delivered without PZ). The door panel consists of roller shutter sections. All welds of the frame sections are ground to be flush with adjacent areas.

Paint:
Frame parts galvanised, with final coating in standard colour RAL 7031 blue grey



Electric shaft-mounted or sprocket drives, controls, control devices and security devices are important components of a power-operated door. As a standard, we deliver our pre-wired control device 903 (deadman control) with a 16A Cekon plug (admissible as main switch according to the directive ZH 1/494) and a triple push button. If necessary, we can also deliver door controls and control devices that can easily be retrofitted later on.


LETALIŠČE BOVEC