Roller Shutter Configurator

LDR ROLLTECHNIK

Request: ☐
Order: ☐

Date: _____

Target Date: _____

Company Name: _____

Project: _____

*These dimensions are **always required** (you can add a drawing)*
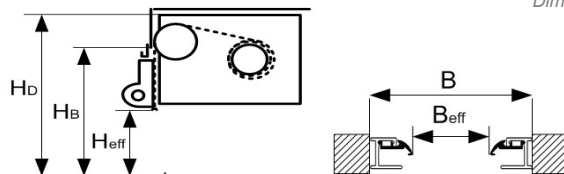
*These dimensions can be specified **additionally***
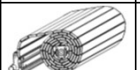
*Dimensions required for **certain installation situations***
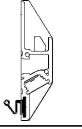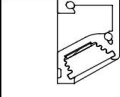
		Please specify quantity and dimensions [mm] of your shutters:			
		Shutter No. 1	**Shutter No. 2**	**Shutter No. 3**	**Shutter No. 4**
	Quantity:				
B	Width of opening BEFORE installation				
H$_D$	Total height up to the upper edge of roller shutter system				
B$_{eff}$	Effective width of opening AFTER installation				
H$_B$	Height up to the lower edge of front cover				
H$_{eff}$	Effective height of opening after installation				
D	Distance from axis of deflection to spring roller				
E	Length of horizontal guides at the top				
F	Length of vertical guides in the back				
	Desired color (powder coating) e.g. RAL				
kg	weight of shutter profile = 9kg/m² without end profile				
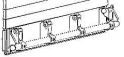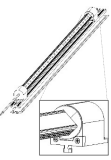
*Choose the required **options** ☒ or indicate specific dimensions ....*

S Standard
O Option

			Our roller blind variants		Our standard	Design of your desired roller blinds (if there are no details, we will assume the standard):			
1	**Shutter profile**	**1.1**	Aluminium shutter profile with silver anodized finish (E6/EV1 quality), with joint seal, profile height 35mm, thickness 8mm		**S**	☐	☐	☐	☐
2	**Construction / Winding**	**2.1**	MODUL (ready-to-install casing with pre-tensioned spring roller, pre-rolled curtain and integrated deflection rollers). Two different sizes: MODUL and miniMODUL (for shutters smaller then HD 1200mm)		**S**	Standard dimensions: with H$_D$>1200: MODUL 255 x 200 x B, with H$_D$<=1200: miniMODUL 247 x 145 x B	Standard width: ☐ Specific: ……….... mm	Standard width: ☐ Specific: ……….... mm	Standard width: ☐ Specific: ……….... mm	Standard width: ☐ Specific: ……….... mm
		2.2	Spring roller only (w/o Modul), incl. side mounting plates		**O**	Standard width: B	Standard width: ☐ Specific: ……….... mm	Standard width: ☐ Specific: ……….... mm	Standard width: ☐ Specific: ……….... mm	Standard width: ☐ Specific: ……….... mm
		2.3	MODUL with electric tubular motor 12V, 24V or 230V, incl. steel weight in terminal profile, optional EMC emergency manual control (with crank control)	ähnlich 2.1	**O**	Width of modul is B+60 (30mm on both sides) because of crank gearing and emergency break	Voltage 230V: ☐	Voltage 230V: ☐	Voltage 230V: ☐	Voltage 230V: ☐
		2.4	Shaft only (w/o MODUL) electric tubular motor, rest same as 2.3	ähnlich 2.2	**O**		Voltage 230V: ☐	Voltage 230V: ☐	Voltage 230V: ☐	Voltage 230V: ☐
		2.9	Without winding (e. g. for sliding under roof construction)		**O**	Recommended: B x H$_D$ = max. 0,50 m²	☐	☐	☐	☐
3	**Redirection**	**3.1**	Deflection Rollers, rubberized, at left and right side, D=80mm (minimizes friction)		**S**	Included with MODUL 2.1 and 2.3	☐	☐	☐	☐
		3.2	Radius bends at left and right side, R=39mm, compatible with guide rail type F001 (5.2), F1F4 (5.3), the parts can be modified for other rail types		**O**	Recommendation: B x H = max. 0,50m²	2 pieces: ☐ 4 pieces: ☐	2 pieces: ☐ 4 pieces: ☐	2 pieces: ☐ 4 pieces: ☐	2 pieces: ☐ 4 pieces: ☐
		3.3	Deviating shaft		**O**	Standard if B > 2000mm or if shutter weight higher then 34,7kg	☐	☐	☐	☐
		3.4	support bracket		**O**	Standard if B < 2000mm and the shutter weight higher then 27,2kg	☐	☐	☐	☐
		3.9	No redirection (e. g. with direct winding on spring roller)		**O**		☐	☐	☐	☐

			Description		S/O	Standard notes	Option 1	Option 2	Option 3	Option 4
4	End stop upper position	4.1	Outside end stop (plastic hooks for bar lock handle, mounted left and right on guide rail same as used for closing position), additional hooks can be used for middle positions		S	Standard are two pieces (left and right) for the top end position	Standard 2 pieces: ☐ Specific quantity: ….	Standard 2 pieces: ☐ Specific quantity: ….	Standard 2 pieces: ☐ Specific quantity: ….	Standard 2 pieces: ☐ Specific quantity: ….
		4.2	Concealed end stop on the inside (integrated into MODUL left and right, with rubber buffers)		O	only with MODUL, not with miniMODUL	☐	☐	☐	☐
		4.9	Without end stop		O		☐	☐	☐	☐
5	Guide rails	5.1	Guide rail profile type F003 (replaces F002), overlapping mounting, with run-on radius, with rubber seal, mounting slots for magnetic sensor, LED-lighting and mounting kit		S	Standard lenght: HD - 50 mm, Standard with run-on radius at the top and with installation-ready countersunk holes (see 5.8)	Standard length: ☐ Specific: ……….. mm	Standard length: ☐ Specific: ……….. mm	Standard length: ☐ Specific: ……….. mm	Standard length: ☐ Specific: ……….. mm
		5.2	Guide rail profile type F001 (replaces F1F1), inside mounting, with run-on radius, with rubbber seal		O		Standard length: ☐ Specific: ……….. mm	Standard length: ☐ Specific: ……….. mm	Standard length: ☐ Specific: ……….. mm	Standard length: ☐ Specific: ……….. mm
		5.3	Additional guide rail type F1F4 used for horizontal guidance at the top and vertical guidance at the back		O	Standard length: E and F, with countersunk holes	Standard length: ☐ Specific: ……….. mm	Standard length: ☐ Specific: ……….. mm	Standard length: ☐ Specific: ……….. mm	Standard length: ☐ Specific: ……….. mm
		5.5	Guide rail profile type 11b, plastic slide rails on 3 sides for higher actuation frequencies and less war and tear, with run-on radius, mounting only with M4 cylindric screws		O	Standard lenght: HD - 50 mm, Standard with run-on radius at the top and with installation-ready countersunk holes (see 5.8)	Standard length: ☐ Specific: ……….. mm	Standard length: ☐ Specific: ……….. mm	Standard length: ☐ Specific: ……….. mm	Standard length: ☐ Specific: ……….. mm
		5.8	Countersunk holes for countersunk screws, ready for mounting		S	Standard size: 90° Countersunk hole suitable for M5 countersunk screw	4mm (Standard 5.5) ☐ 5mm (Standard 5.1-5.4) ☐ 6mm ☐ without drillings ☐	4mm (Standard 5.5) ☐ 5mm (Standard 5.1-5.4) ☐ 6mm ☐ without drillings ☐	4mm (Standard 5.5) ☐ 5mm (Standard 5.1-5.4) ☐ 6mm ☐ without drillings ☐	4mm (Standard 5.5) ☐ 5mm (Standard 5.1-5.4) ☐ 6mm ☐ without drillings ☐
6	Rain gutter	6.2	Rain gutter type D001, for glue mounting, with rubber lip and plastic end caps		O		Standard length: ☐ Specific: ……….. mm	Standard length: ☐ Specific: ……….. mm	Standard length: ☐ Specific: ……….. mm	Standard length: ☐ Specific: ……….. mm
		6.3	Rain gutter type D006, acts as a one-piece solution as reinforced front cover + rain gutter + rubber lip, height 112mm		S	Standard lenght: B + 100 mm	Standard length: ☐ Specific: ……….. mm	Standard length: ☐ Specific: ……….. mm	Standard length: ☐ Specific: ……….. mm	Standard length: ☐ Specific: ……….. mm
		6.4	Top profile type D004 (F1D1), flat outline without rain gutter, with rubber lip				Standard length: ☐ Specific: ……….. mm	Standard length: ☐ Specific: ……….. mm	Standard length: ☐ Specific: ……….. mm	Standard length: ☐ Specific: ……….. mm
		6.5	Top seal type DPP, Silicone P-profile attached to one of the shutter profiles, seal between shutter surface and front cover, requires a flat counterface and a gap of 8 to 11mm		O	Standard: Attached to the first shutter profile above the front cover (HB)	mounted at standard position: ☐ loose parts: ☐	mounted at standard position: ☐ loose parts: ☐	mounted at standard position: ☐ loose parts: ☐	mounted at standard position: ☐ loose parts: ☐
		6.6	Aluminium Profile Type D002-1 with integrated LED periphery lighting, height 85mm, depth 22mm, Splash-proof and tested to withstand high-pressure cleaners, steady illuminations of the nearby surroundings of the vehicle, maximum lenght 5300mm		O	Standard length B+30, illuminated lenght min.100mm shorter then profile. Anodized alu end caps. Profile can be ordered with additional lenght to be shortened during installation	Voltage:12V ☐ 24V ☐ Lenght Alu: …………mm Lenght LED: ……….mm Lenght cable: ……….mm Cable: left ☐ right ☐ Seal: yes ☐ no ☐	Voltage:12V ☐ 24V ☐ Lenght Alu: …………mm Lenght LED: ……….mm Lenght cable: ……….mm Cable: left ☐ right ☐ Seal: yes ☐ no ☐	Voltage:12V ☐ 24V ☐ Lenght Alu:……….mm Lenght LED: ……….mm Lenght cable: ……….mm Cable: left ☐ right ☐ Seal: yes ☐ no ☐	Voltage:12V ☐ 24V ☐ Lenght Alu: ……….mm Lenght LED: ……….mm Lenght cable: ……….mm Cable: left ☐ right ☐ Seal: yes ☐ no ☐
		6.7	Aluminium Profile Type D003 with integrated LED periphery lighting, height 35mm, depth 40mm, Splash-proof and tested to withstand high-pressure cleaners, steady illuminations of the nearby surroundings of the vehicle, maximum lenght 5200mm		O	Standard length B+30, illuminated lenght min.100mm shorter then profile. Anodized alu end caps. Profile can be ordered with additional lenght to be shortened during installation	Voltage:12V ☐ 24V ☐ Lenght Alu: …………mm Lenght LED: ……….mm Lenght cable: ……….mm Cable: left ☐ right ☐	Voltage:12V ☐ 24V ☐ Lenght Alu: …………mm Lenght LED: ……….mm Lenght cable: ……….mm Cable: left ☐ right ☐	Voltage:12V ☐ 24V ☐ Lenght Alu: …………mm Lenght LED: ……….mm Lenght cable: ……….mm Cable: left ☐ right ☐	Voltage:12V ☐ 24V ☐ Lenght Alu: …………mm Lenght LED: ……….mm Lenght cable: ……….mm Cable: left ☐ right ☐
		6.9	Without rain gutter		O		☐	☐	☐	☐

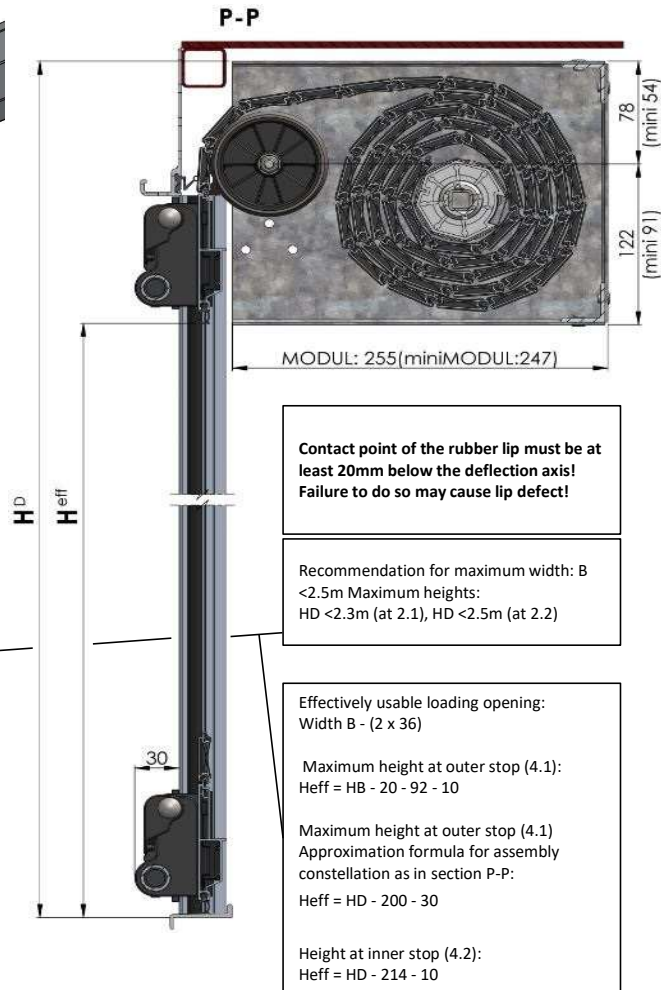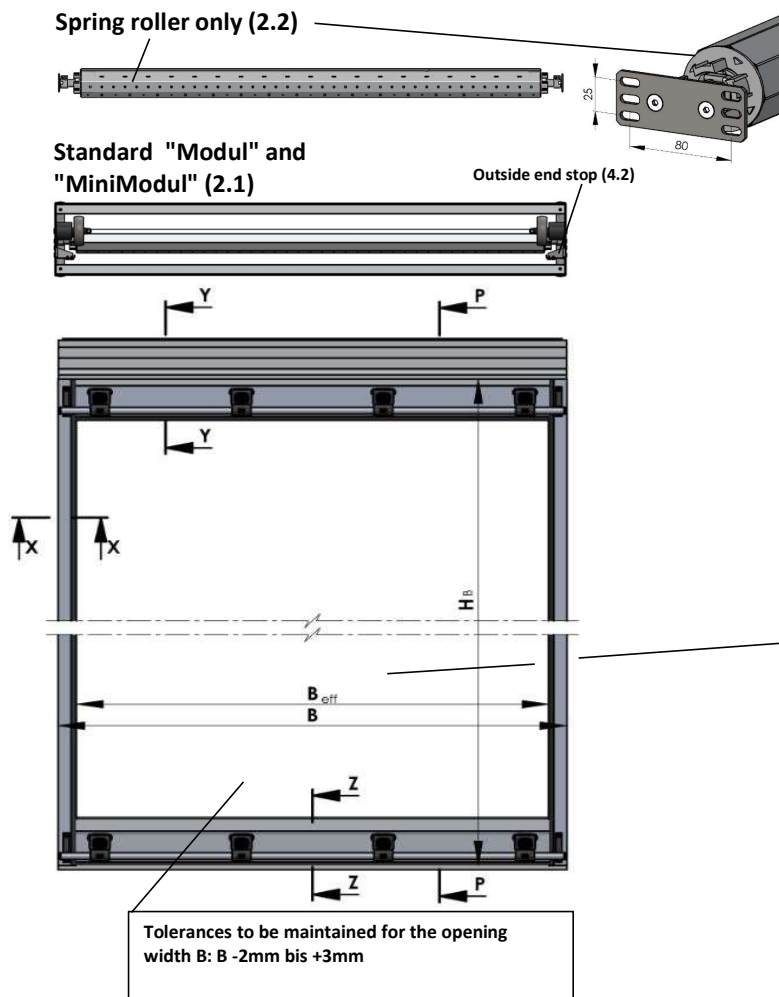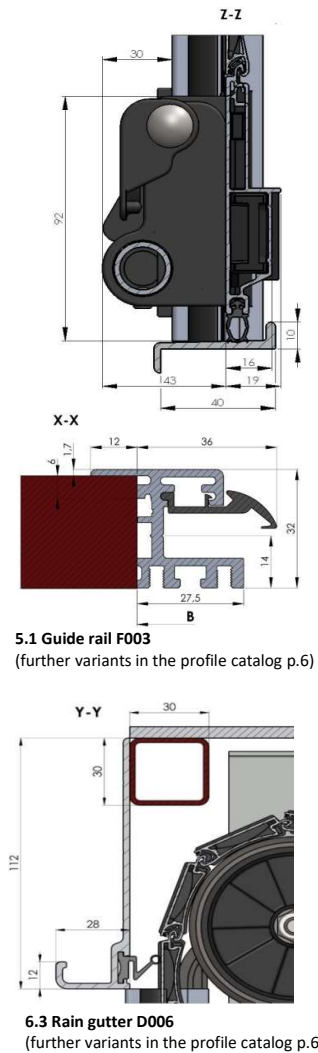| No	Category	Item	Description		S/O	Specification	Config 1	Config 2	Config 3	Config 4
7	Sill	7.1	Sill type F1S, for screw or glue mounting, depth 40mm		S	Standard length: B + 50 mm	Standard length: ☐ Specific: .... mm	Standard length: ☐ Specific: .... mm	Standard length: ☐ Specific: .... mm	Standard length: ☐ Specific: .... mm
		7.9	Without sill		O		☐	☐	☐	☐
8	Closing mechanism	8.1	Bar lock, lockable with key, cover for keylock		S	Standard: identical keys 1 lock up to 1500mm width 2 locks from 1501mm width	identical keys: ☐ different keys: ☐ without lock: ☐	identical keys: ☐ different keys: ☐ without lock: ☐	identical keys: ☐ different keys: ☐ without lock: ☐	identical keys: ☐ different keys: ☐ without lock: ☐
		8.4	Electric central lock, 12 or 24V, Bar lock from outside, manual emergency operation with key (not combinable with 5.5!)		O	one-sided with B<=600mm on both sides with B>600mm	12V ☐ 24V ☐	12V ☐ 24V ☐	12V ☐ 24V ☐	12V ☐ 24V ☐
		8.5	Angled reinforcing profile, additional reinforcement of wide roller shutters, also applicable for easy retrofitting of old shutters with a new barlock		O	Standard: with B=2200mm or wider	☐	☐	☐	☐
		8.9	Without locking (e. g. own locking system or electric motor)		O		☐	☐	☐	☐
9	Magnet-sensor	9.1	Magnet (integrated into 3rd shutter profile left and right, suitable for sensor on guide rail)		S		☐	☐	☐	☐
		9.2	Magnet + magnetic sensor ifm-MK5156 (3-wire AMR Cell, normally closed), fits into T-slot of guide rails		O	10-30V, current rating 100mA, typical application: connection to PLC-control unit / small relay	☐	☐	☐	☐
		9.3	Magnet + magnetic sensor ifm-MK0100 (2-wire reed contact, normally open), fits into T-slot of guide rails		O		☐	☐	☐	☐
10	Mounting kit	10.1	Mounting kit incl. screws, connects MODUL (2.1) to the guide rails, compatible with T-slot		O	not combinable with 5.5	☐	☐	☐	☐
11	Other	11.1	Adhesive Reflectors for folding hinges, Amber (vehicle side) or Red (rear end)		S	Standard color: Amber	Amber: ☐ Red: ☐ Without Reflector: ☐	Amber: ☐ Red: ☐ Without Reflector: ☐	Amber: ☐ Red: ☐ Without Reflector: ☐	Amber: ☐ Red: ☐ Without Reflector: ☐
		11.3	LED-lighting for glare-free and steady illumination of equipment rooms, protection class min. IP67, protection of the electronics during oscillation of input voltage, overvoltage and voltage reversal, automotive cable lenght 1000mm, different mounting brackets available		O	Cross section 18x11mm, Standard length from stock or individual length on request	12V ☐ 24V ☐ 250mm ☐ 450mm ☐ 1050mm ☐ Pieces per shutter:	12V ☐ 24V ☐ 250mm ☐ 450mm ☐ 1050mm ☐ Pieces per shutter:	12V ☐ 24V ☐ 250mm ☐ 450mm ☐ 1050mm ☐ Pieces per shutter:	12V ☐ 24V ☐ 250mm ☐ 450mm ☐ 1050mm ☐ Pieces per shutter: ....
		11.4	Mounting bracket for LED-Strip (11.3) made of PA6, adjustable tilt angle, integrated strain relief, incl. adaptors for guide rails and profile systems like Item®, Bosch®, Maytec®		O	2 pieces (top and bottom end) per light standard incl. screws	With bracket (Stand.): ☐ w/o bracket: ☐	With bracket (Stand.): ☐ w/o bracket: ☐	With bracket (Stand.): ☐ w/o bracket: ☐	With bracket (Stand.): ☐ w/o bracket: ☐
		11.5	Stretch pulling strap, for easier handling of high shutters, fixing on terminal profile and guide rail		O	Standard lenght: 25x1400mm	black ☐ red ☐	black ☐ red ☐	black ☐ red ☐	black ☐ red ☐
			Tiltable aluminium drawer (Standard for fire-trucks), made to measure, complete set with guide rails				Please send us info material about aluminium drawers: ☐			

Date 250428

	Config 1	Config 2	Config 3	Config 4
Net (Euro) price per piece:				
Time of delivery:				

Rollo Shutter Configurator / technical Drawings

Z-Z

X-X

5.1 Guide rail F003
(further variants in the profile catalog p.6)

Y-Y

6.3 Rain gutter D006
(further variants in the profile catalog p.6)

Spring roller only (2.2)

Standard "Modul" and "MiniModul" (2.1)

Outside end stop (4.2)

H^D
H^{eff}
H_B

B_{eff}
B

Tolerances to be maintained for the opening width B: B -2mm bis +3mm

P-P

MODUL: 255(miniMODUL:247)

Contact point of the rubber lip must be at least 20mm below the deflection axis! Failure to do so may cause lip defect!

Recommendation for maximum width: B <2.5m Maximum heights:
HD <2.3m (at 2.1), HD <2.5m (at 2.2)

Effectively usable loading opening:
Width B - (2 x 36)

Maximum height at outer stop (4.1):
Heff = HB - 20 - 92 - 10

Maximum height at outer stop (4.1)
Approximation formula for assembly constellation as in section P-P:

Heff = HD - 200 - 30

Height at inner stop (4.2):
Heff = HD - 214 - 10

Rollo Shutter Configurator / technical Drawings

Rearward offset spring shaft:

Ø 80

Distance D is bridged with belt

at D> 400mm becomes E = D - 200mm recommended, with D <400mm no horizontal guide rail

Alternative deflection bend (3.2) instead of deflection roll (3.1)

deflection roll (3.1)

Deflection shaft continuous (3.3)

90°

Ø 62   Ø 80   Ø 50

90°
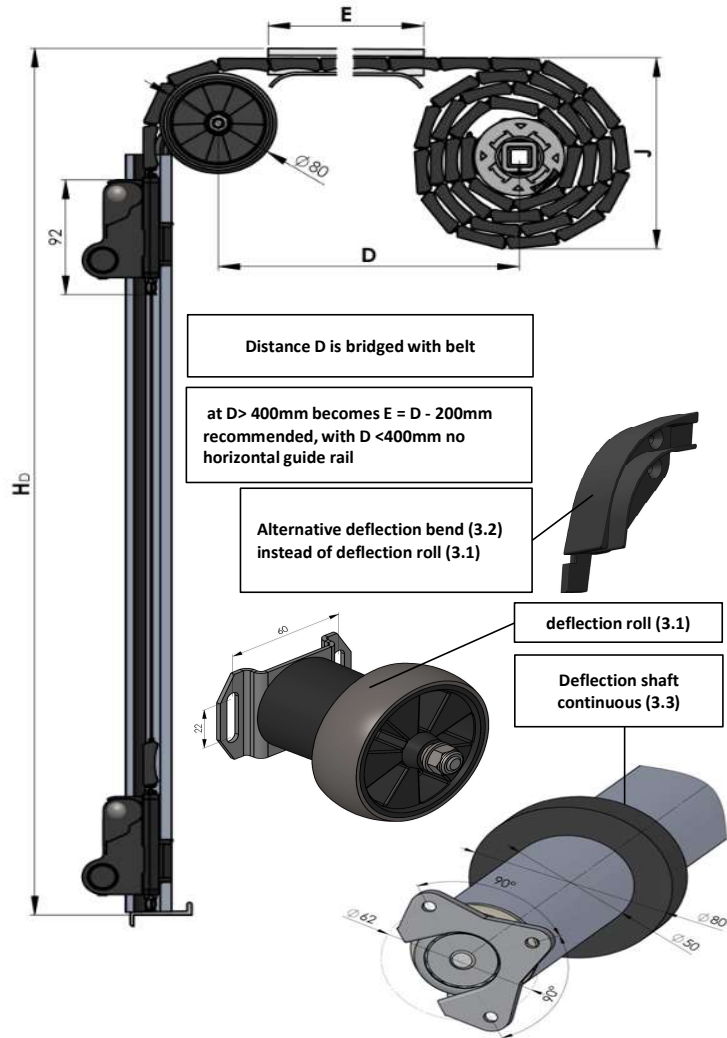
Spring shaft without deflection (3.9):

G>= 20mm!!

Spring shaft without module (2.2)

Turns   Height of the opening to the axis   Bale diameter

n	H	J
1	240mm	95mm
2	540mm	110mm
3	880mm	125mm
4	1270mm	140mm
5	1730mm	155mm
6	2110mm	165mm
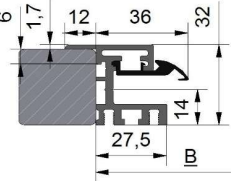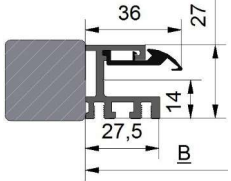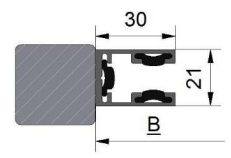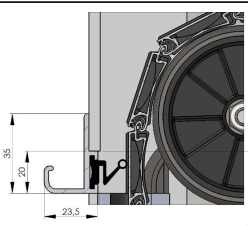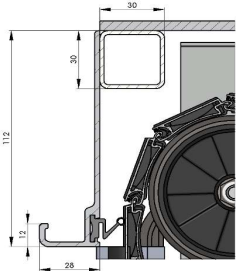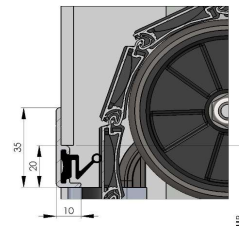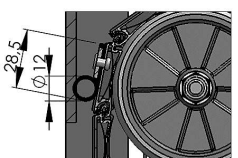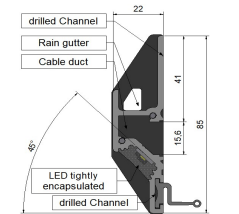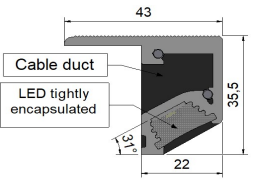
Inset "under roof" (2.9):

(5.3)

69

49

(3.2)

3.2 Alternative for 5.5: bow type 11b

66

46

Size at 2.9: W x HD **max. 0.5m²!**

At the aperture we recommend:
- thickness max. 10mm
- Height of the lower edge of the panel at least to the deflection axis or lower
- for easy installation Profile D006 (6.3) use (integrated profile as roof edge / panel)

Rollo Shutter Configurator / profile catalog

Guide rails:

5.1 (Standard profile)	F003 (replacement for F002)	5.2	F001 (replacement for F1F1)
	- Nose is used for easy alignment and covered mounting joint / corner radius - Uniform groove system on the back for easy mounting of mounting set, magnetic switches, LED lights, cable routing, etc. - incl. curved start up - Splash and dust protection by sliding seal		- Mounting depth variable - Can be combined with almost any aluminum profile system - uniform groove system on the rear side (description see F003) - incl. curved start up - Splash and dust protection by sliding seal
5.5	11b		
	-best sliding properties due to plastic sliding strips from 3 sides - compact width (30 instead of 36) - Mounting depth variable - incl. curved start up - Can be combined with almost any aluminum profile system - No waterproofing!		

Rain gutter / seal at the top:

6.2	D001		
	- Aluminum gutter with flat outer surface - integrated rubber sealing lip with wiping and sealing function - Ideal for gluing - Plastic end caps for clean completion		
6.3 (Standard profile)	D006	6.4	D004
	- One-piece aluminum cover with gutter and integrated rubber sealing lip (identical to 6.1 and 6.2) - No separate thin panel above more necessary - Ideal for sandwich exterior walls from 20mm thickness		- like profile type D001, but without rain gutter - integrated rubber sealing lip with wiping and sealing function - ideal for indoor applications
6.5	DPP	6.6	D002-1
	- Silicone P-profile is clamped onto a roller shutter slat and rolled up when opened - Seals against the smooth inner surface of the panel - Very good seal - Silently there is no friction - Seals gap from 8 to 12mm - Attention, type DPP does not wipe water from the roller shutter!		- Integrated LED ambient lighting - Glare-free homogeneous illumination - LED technology sealed by polyurethane full encapsulation - High pressure cleaner suitable - Total length up to 5300mm in one piece - Profile can be used as a classic rain strip or separately as a surface light - Integrated rubber sealing lip - Profile ends can be shortened later
6.7	D003		
	- Integrated LED ambient lighting - Glare-free homogeneous illumination - LED technology sealed by polyurethane full encapsulation - High pressure cleaner suitable - total length up to 5200mm in one piece - veneering of the upper construction edge - small dimensions allow full utilization of the adjoining surfaces - profiles can be shortened afterwards		

Date 250428