Overview table for GEZE floor springs

For 1-leaf doors

	TS 500 NV	TS 500 N EN 3	TS 550 NV	TS 550 NV F	TS 550 NV E	TS 550 F-G	TS 550 E-G
Approval for fire and smoke protection doors				•	•	•	•
Max. door leaf width (mm)	1100	950	1400	1400	1400	1400	1400
Application possibilities:							
Single-action doors (right/left)	•	•	•	•	•	•	•
Opening angle	170°	170°	170°	180°	180°	180°	180°
Double-action doors	•	•	•				
Leaf weight up to (kg)	150	100	300	300	300		
Functions:							
Closing force, adjustable	•	EN 3 fix	•	•	•	•	•
Back check, fixed	•	•	•	•	•		
Hydraulic stop, adjustable	•		•	•	•	•	•
Closing speed, adjustable	•	•	•	•	•	•	•
Mechanical hold-open device	•	•	•				
Electric hold-open device					•		•
Hold-open angle	optional 85° 90° 105° 120°	optional 85° 90° 105° 120°	85° - 165°		75° - 165°		80° - 150°
Mechanical closing sequence control, integrated							
Page	6	6	13	20	26	44	44

 \bullet = yes

Table showing the ratio of closing force to door leaf width

Closing force	Door leaf width (mm)
Size 2	up to 850
Size 3	from 850 to 950
Size 4	from 950 to 1100
Size 5	from 1100 to 1250
Size 6	from 1250 to 1400

For 2-leaf doors

	TS 550 IS	TS 550 E-IS	TS 550 IS-G	TS 550 E-IS-G
Approval for fire and smoke protection doors	•	•	•	•
Max. door leaf width (mm)	1400	1400	1400	1400
Application possibilities:				
Single-action doors (right/left)	•	•	•	•
Opening angle	180°	180°	180°	180°
Double-action doors				
Leaf weight up to kg	250	250		
Functions:				
Closing force, adjustable	•	•	•	•
Back check, fixed	•	•		
Hydraulic stop, adjustable	•	•	•	•
Closing speed, adjustable	•	•	•	•
Mechanical hold-open device				
Electric hold-open device		•		•
Hold-open angle		80° - 175°		80° - 150°
Mechanical closing sequence control, integrated	•	•	•	•
Page	32	38	44	44

Cover plates

There are various cover plates with screw accessories available for GEZE floor springs. These can be used on the right, left and with double-action doors.

Pivot hinges / door rails

Special pivot hinges and door rails with 36 mm pivot point distance are required for the installation of a floor spring on single-action doors. (See Accessories for floor springs from page 54)

The requirement

The standard (EN 1154) stipulates that the door closer size (closing force) must be set to match the door leaf width. The next higher size has to be set if the structural circumstances (door height, door weight) or local conditions (wind influence) make this necessary.

The GEZE solution

The floor spring variants of the TS 500 NV/TS 550 and TS 550 NV series comprise several sizes in one housing. Using an adjustment screw, the corresponding closing force can easily be adapted to the structural and local circumstances.

GEZE TS 500 NV / TS 500 N EN3

Floor spring for 1-leaf single-action/double-action doors up to 1100 mm leaf width with optional hold-open mechanism

The TS 500 NV and TS 500 N EN3 versions are two floor springs for use with doors with a maximum available leaf width of 1100 mm. The closing speed and hydraulic latching action can be adjusted. The fixed back check prevents uncontrolled opening of the door and prevents damage. The closing force, size 1-4 according to EN 1154, can be adjusted from above with the TS 500 NV and is fixed with the TS 500 N EN3, size 3. The very low overall height of just 42 mm is a welcome benefit for both new constructions and retro-fitting. The safety valve provides protection against intentional overload.

Standard package / scope of delivery

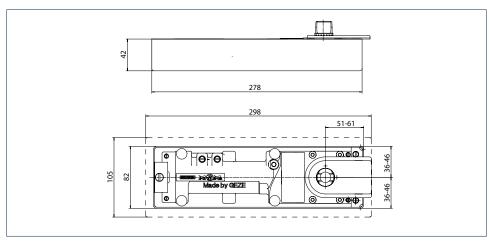
Floor spring complete with flat conical spindle, cement box and installation instructions, without hold-open mechanism (cover plate not included).

Special versions

- with hold-open mechanism 85°, 90°, 105° and 120°
- with extended pivot up to 50 mm (5 mm-grading)



GEZE TS 500 NV



GEZE floor spring TS 500 NV (Dimensions of GEZE TS 500 N EN3 identical)

Area of application TS 500 NV

- For right and left hung doors
- For internal double-action doors
- For leaf widths up to 1100 mm
- For leaf weights up to 150 kg

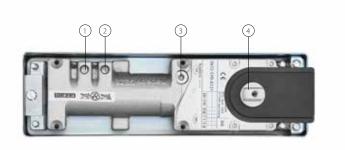
Area of application TS 500 N EN 3 • For right and left hung doors

- For internal double-action doors
- Leaf widths up to 950 mm
- Leaf weights up to 100 kg

Technical data for floor springs

Product features	GEZE TS 500 NV	GEZE TS 500 N EN3			
Use on single /double-action door	Single-action door / double-action door				
Closing force in accordance with EN 1154	1 – 4	3			
Recommended leaf width up to	1100 mm	950 mm			
Leaf weight (max.)	150 kg	100 kg			
Door buffer stop DIN direction	left	/ right			
Product tested in accordance with	Door closer tested in a	accordance with EN 1154			
_ength	278	3 mm			
Overall depth	82	mm			
Height	42	mm			
Length adjustment range for cement box	10 mm				
Width adjustment range for cement box	10	mm			
Height adjustment range for cement box	6 mm				
Functions					
Adjustable closing force	Yes, stepless	No			
Adjustable closing speed	•	•			
Adjustable latching action	Yes, via valve	No			
ntegrated back check	Yes, mech	nanical, fixed			
Position of closing force adjustment	Тор				
Safety valve against wilful damage	•	•			
Thermo-control valves	•	•			
Closing effect from	170 °				
Hold-open mechanism	Optional				
Hold-open range	85 °, 90 °, 105 °, 120 °				

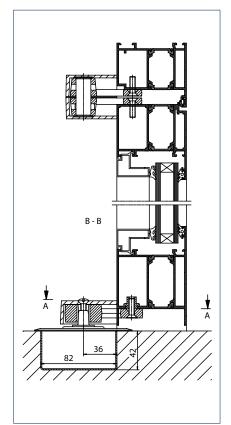
• = YES

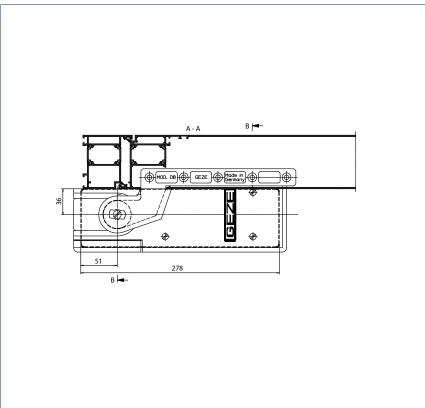


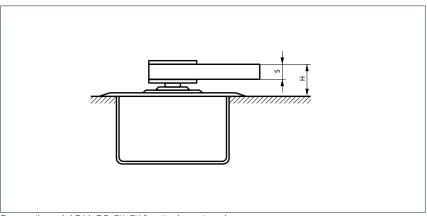
- 1 = Latching action adjustment
- = Closing speed adjustment
- 3 = Closing force adjustment
- 4 = Spur-cut spindle

Standard installation

Example of door rail, pivot hinge and floor spring installation on a single-action door (aluminium):







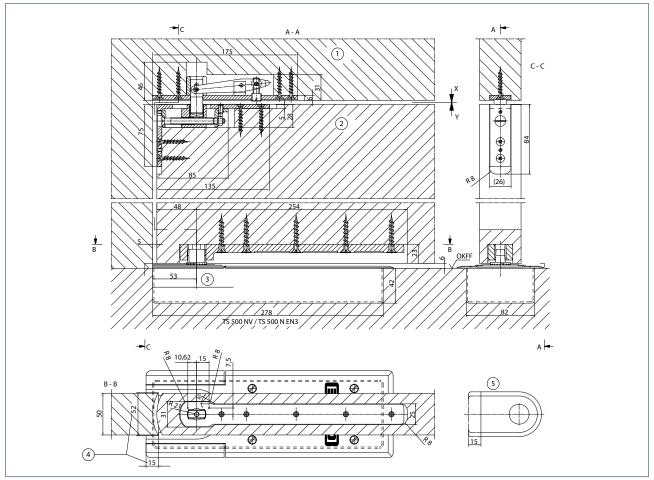
Door rail model DM, DB, EK, FK for single-action doors

H = Installation height dimension

With extended spindles, the installation height dimension "H" is increased by the respective pivot extension

Model	S	Н
DM	16 mm	27 mm
DB, EK, FK	10 mm	24 mm

Example of door rail, pivot hinge and floor spring installation on a double-action door:

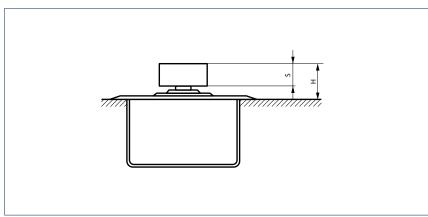


1 = Pivot top

2 = Pivot bottom

3 = Adjustment range 51 - 61 4 = Cover plate levered out 5 = Cover plates - cap shortened

OKFF = Finished floor level



Door rail model CM, C for double-action doors

With extended spindles, the installation height dimension "H" is increased by the respective pivot extension

Model	S	Н
CM	19 mm	29 mm
С	19 mm	29 mm

Order information

Description	DIN direction	Hold-open angle	Spindle extension	Version	ID no.
	left / right	0°		silver	102084
GEZE TS 500 NV closer	left / right	85 °		silver	103974
Size EN 1-4, optionally with fixed mechanical hold-open device (without cover plate and accessories) 1)	left / right	90°		silver	104028
	left / right	105°		silver	104029
	left / right	120 °		silver	104030
	left / right	0 °		silver	103086
GEZE TS 500 N EN3 closer	left / right	85 °		silver	104046
Size EN 3, optionally with fixed mechanical hold-open device	left / right	90°		silver	104047
(without cover plate and accessories) 1)	left / right	105 °		silver	111594
	left / right	120°		silver	111596
GEZE floor spring cover plate				brass	103012
for TS 500 NV / TS 500 N EN3				stainless steel	102127
Accessories					
	left			simulated stainless steel	137586
	left			EV1	006794
GEZE cover caps for door rails (flush-impact doors)	left			aluminium, matt	006792
suitable for model DB, DM, EK, FK	right			simulated stainless steel	137577
	right			EV1	006798
	right			aluminium, matt	006796
	left			simulated stainless steel	137618
	left			EV1	045196
GEZE cover caps for door rails (rebated doors)	left			aluminium, matt	045184
suitable for model DB, DM, EK, FK	right			simulated stainless steel	137617
	right			EV1	045155
	right			aluminium, matt	045011
	left / right			EV1	001090
GEZE caps for pivot hinges (flush-impact doors)	left / right		-	aluminium, matt	001089
suitable for model DB, EK, FK	left / right			simulated stainless steel	137640
	left			EV1	037918
	left			aluminium, matt	037917
	right			EV1	038302
GEZE caps for pivot hinges (rebated doors)	right			aluminium, matt	038284
suitable for model DB, EK, FK -	left			simulated stainless steel	137641
	right			simulated stainless steel	137642

¹⁾ The specified hold-open angle is valid for single-action doors. When it comes to double-action doors, this hold-open angle is respectively 5° larger.

Description	DIN direction	Hold-open angle	Spindle extension	Version	ID no.
	left / right		10 mm		010338
	left / right		13 mm		052170
	left / right		15 mm		010347
	left / right		20 mm		010372
	left / right		25 mm		010373
	left / right		28 mm		050931
GEZE spindle cap for floor spring ²⁾ with flat cone,	left / right		30 mm		010374
including clamping-extension bolt	left / right		35 mm		010377
	left / right		40 mm		010378
	left / right		45 mm		010381
	left / right		5 mm		010337
	left / right		50 mm		010385
	left / right		8 mm		050930
	left / right		0 mm		05064
GEZE spindle cap for floor spring with square for double-action doors, including clamping-extension bolt			0 mm		053315
	left		10 mm		05395
	left		15 mm		05396
	left		20 mm		05396
	left		25 mm		05396
	left		5 mm		05395
GEZE spindle cap for floor spring ²⁾	left		0 mm		05395
with square for single-action doors, including clamping-extension bolt	right		10 mm		053959
	right		15 mm		05396
	right		20 mm		05396
	right		25 mm		05396
	right		5 mm		05395
	right		0 mm		05395
GEZE pivot hinge top cover plate for pivot hinge model B and C				EV1	00666
GEZE door rail for double-action doors Model C, for metal and wooden doors GEZE door rail for double-action doors				flat cone	00743
Model CM, for metal doors, on-site adaptation to profile system, without surface treatment				galvanised	02181
GEZE door rail for double-action doors Model CM, for metal doors, adapted to profile system				flat cone	00106
GEZE door rail for single-action doors				flat cone	04457
Model DB, for rebated, flush-impact metal and wooden doors				square	03758
GEZE door rail for single-action doors Model DM, for metal doors, on-site adaptation to profile				flat cone	03763
system, without surface treatment GEZE door rail for single-action doors				square	03763
Model DM, for metal doors, adapted to profile system with flat cone or square				galvanised	00106
				flat cone	00826
GEZE door rail for single-action doors				square	00669
Model EK, for welding to steel doors				flat cone	00827
				square	00669

²⁾ Use of a longer spindle can be necessary depending on the installation situation. This is no problem for any of the GEZE floor spring variants of the TS 500 NV/TS 550/TS 550 NV series, where the standard spindle is simply unscrewed and the longer pivot is put in place.

Description	DIN direction	Hold-open angle	Spindle extension	Version	ID no.
GEZE door rail for double-action doors Model S, for welding to steel doors				flat cone	007434
GEZE sealing compound for floor springs For use in wet rooms and for installation on the outside of buildings, two-component system, sufficient for 1 cement box					058879
				pivot pin 43 mm	006371
GEZE adjustable pivot hinge for double-action doors Model B, suitable for door rails C, CM, S				pivot pin 55 mm	000108
iviodel b, suitable for door fails e, ew, 5				pivot pin 65 mm	000903
				pivot pin 43 mm	006666
GEZE adjustable pivot hinge for double-action doors Model C, suitable for door rails C, CM, S				pivot pin 55 mm	000905
				pivot pin 65 mm	000904
				combination b DIN left	044697
GEZE pivot hinge for single-action doors Model DB, for rebated, flush-impact metal and wooden doors				combination b DIN right	044680
				combination c	044787
				combination a	044676
				combination a	006719
GEZE pivot hinge for single-action doors				combination b DIN left	000889
Model EK, for welding to steel doors				combination b DIN right	000890
				combination c	000891
				combination a	006724
GEZE pivot hinge for single-action doors Model FK, for welding to steel doors —				combination b DIN left	000895
				combination b DIN right	000896
		<u> </u>		combination c	000897

^{*} See page 55 onwards for more information regarding possible combinations