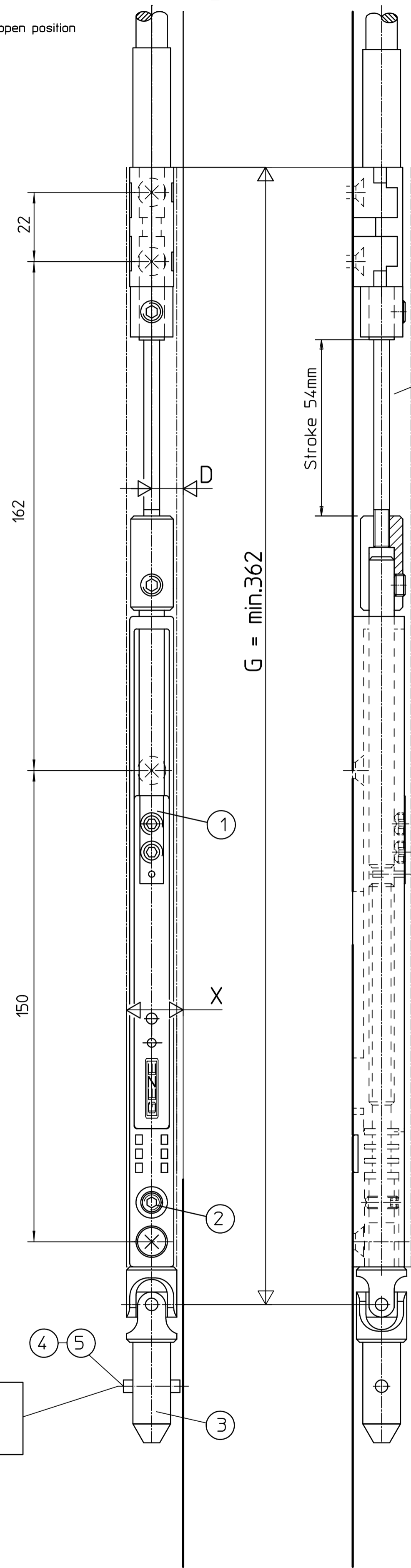


### Deviation with vertical gear Fz91

Drawn in open position



Mounting elements		
Window type	Fixing screws	Drill $\phi$
Wood	Countersunk wood screws 4x35 DIN 97 or DIN 7997	2.5mm
Aluminium	Countersunk self-tapping screws 4.2xL DIN7972 or DIN7982 Screw must go through min.1.8mm profile wall	3.5mm
Plastic	Countersunk self-tapping screws 4.2xL DIN7972 or DIN7982 Screw must go through min.2 profile walls	3.5mm

Fixing screws are not included in the delivery.

Flexible tension

Stroke 54mm

G = min. 362

22

162

150

D

X

2

4

5

3

Install the spring pin 4x20 for the removable crank rod immediately after installing the vertical gear and the universal joint.

Cover profile (LA) and pull rod (LZ)	
LA = G-12	
LZ = G-262	

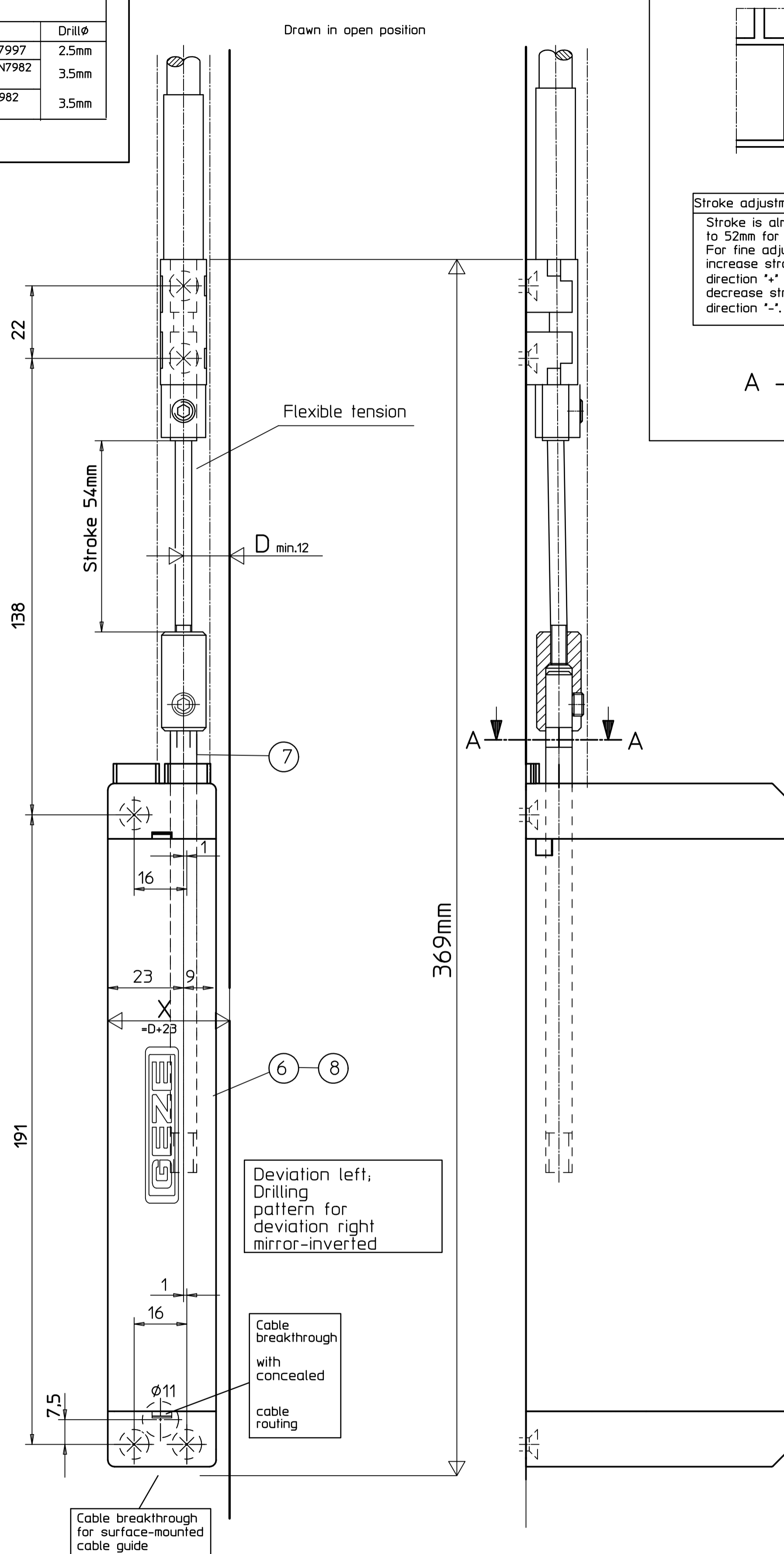
**Important information for Fz91**

- the information and notes on the installation drawing OL90N with flex. tens. must be observed
- The prescribed mounting elements must be used,
- Hardware parts are drawn in open position, assembly in open position
- all fixing screws are tightened to 5Nm in open position with an Allen key SW3
- The joints and sliding points must be greased with an acid-free grease in accordance with DIN 18357,
- After assembly and before commissioning, all fixing screws must be tightened.

Deviation	D-dimension side	Side clearance X
Gear Fz91 with fixed crank rod with detachable crank rod	min. 10 min. 14	D + 9mm D +14mm

### Deviation with electric drive E212R1/R

Drawn in open position



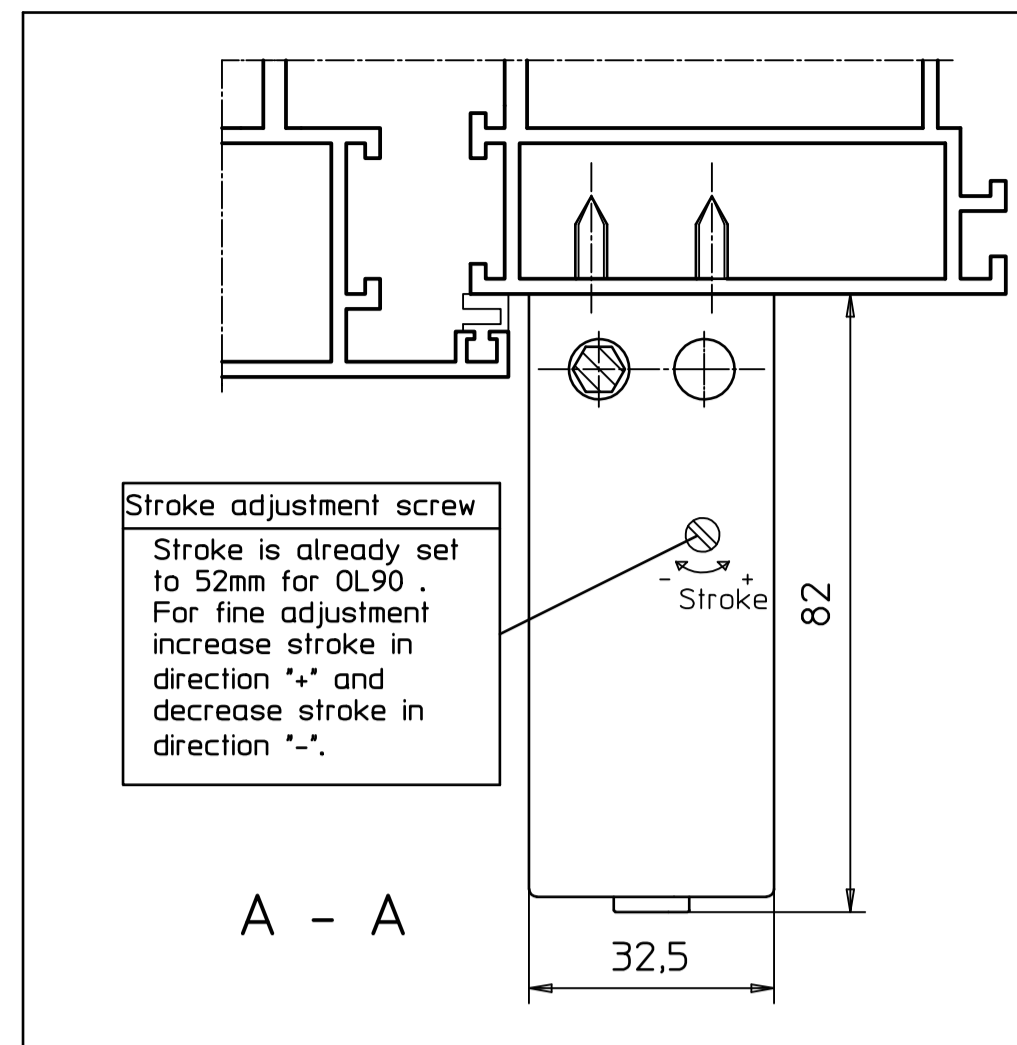
Deviation left; Drilling pattern for deviation right mirror-inverted

Cable breakthrough with concealed cable routing

Cable breakthrough for surface-mounted cable guide

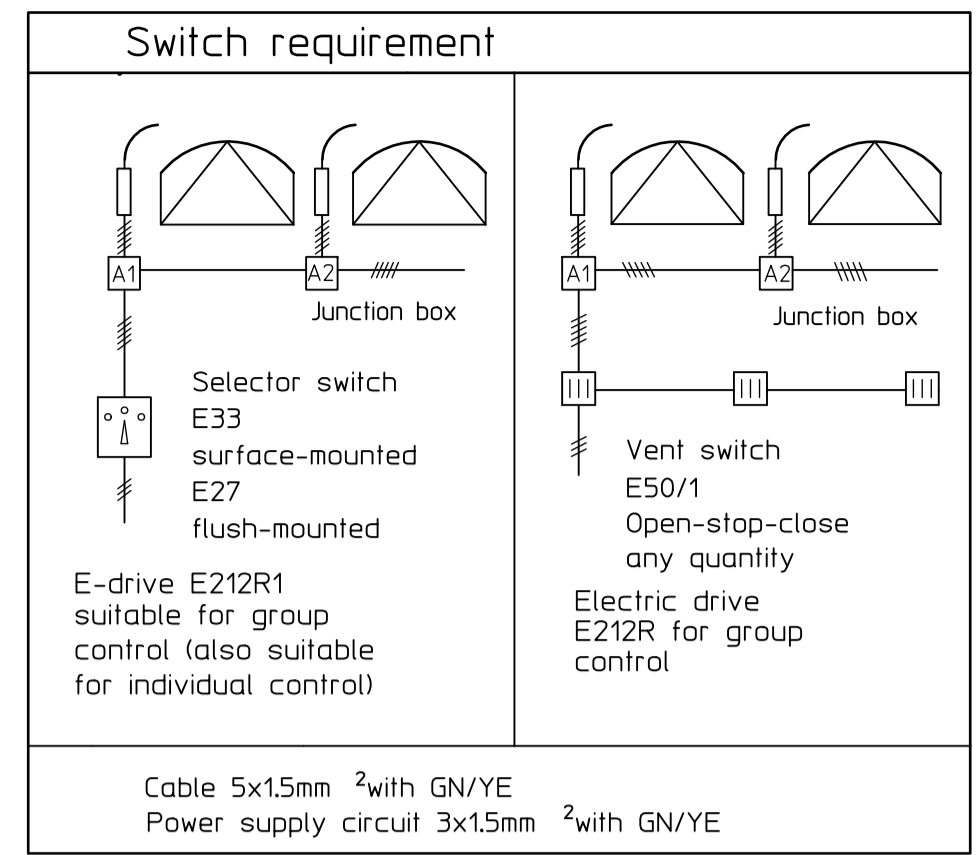
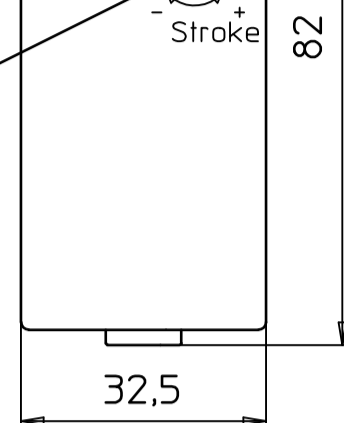
**Important information for E212R1/R**

- The information and notes on the installation drawing OL90N with flex. tens. must be observed.
- Maintenance and operating instructions as well as the guidelines for power-operated windows, doors and gates must be observed (ZH 1/494)
- Mechanical and electrical data are stated in detail on the wiring diagram
- (for E212/R 45109-9-950)
- (for E212/R1 45109-9-959)
- Delivery condition of the electric motor in open position, installation in open position.
- After reaching the end positions (open or closed) the operating light must extinguish immediately.



Stroke adjustment screw  
Stroke is already set to 52mm for OL90  
For fine adjustment increase stroke in direction '+' and decrease stroke in direction '-'.

A - A



**Technical data**

- Opening width approx. 170mm
- Fitting stroke 54mm
- Motor stroke adjustable from 42 to 70mm
- IP rating IP54
- Further technical data of the electric drive see wiring diagram 45109-9-950 (for E212R) and 45109-9-959 (for E212R1)

Further installation drawings for OL90N with flex. ten:

Round and segmental arch window	40444-EP-010
Frame transom mounting of tension	40444-EP-016
Round and segmental arch window with 2 scissors	40444-EP-017
Crank rods for gears	40444-EP-011

Pos.	Name	Ident no. for version:					PC
		EVI	white RAL9006	dark bronze	black	RAL...	
1	Gear Fz91	30822	30822	30823	30823	30822	2
1	Content:						
2	Gear grub screw M4x10,8						
3	of universal joint for fixed crank rod						
4	Spring pin 4x16 for removable crank rod						
5	Spring pin 4x20 for removable crank rod						
6	Electric drive E212R1 for group control	20835	20839	20836	20838	20838	3
1	Content:						
1	E212R1/230V AC Connecting rod						
1	Selector switch E33 surface-mounted			48941			
1	Open-Stop-Close						
1	Selector switch E27 flush-mounted			48942			
1	Open-Stop-Close						
8	Electric drive E212R	05428	15435	05429	06683	06683	3
1	Content:						
1	E212R/230V AC Connecting rod						
1	Vent switch E50/1			06575			
1	Open-stop-close						
1	Surface and flush mounting						
<b>Rods and cover profiles</b>		30401	30405	30402	74537	30404	
	Cover profile L=2m *	30396	30400	30397	74539	30399	
	Cover profile L=3m *	27558	27561	27559	74540		
	Cover profile L=6m						
	Rod $\phi$ 8 galvanised L=2m			16555			
	Rod $\phi$ 8 galvanised L=3m			16591			
	Rod $\phi$ 8 galvanised L=6m			16592			

\* Cover profile mitre cut on both sides

For discharge on masonry:

1	Screw-on plate for E212	57538
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GEZE		GEZE GmbH		Benennung / designation	
P.O. Box 19 63		7120 Leutkirch		OL 90N additional sheet flex activation	
Germany		Germany		deviation for E 212 and gear Fz91	
vertraulich / confidential		Name		Blatt / von	
Date / date		U1270		1 / 1	
Fig. Prod./Rel. Prod.		U1270		Material-Nr.	
U1270		U1270		40444-EP-031	
U1270		U1270		Zechungs-Nr. / document-no.	
U1270		U1270		40444-EP-031	