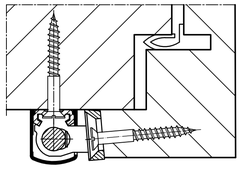
Additional locking OL 90 N for overlap 0 - 17mm

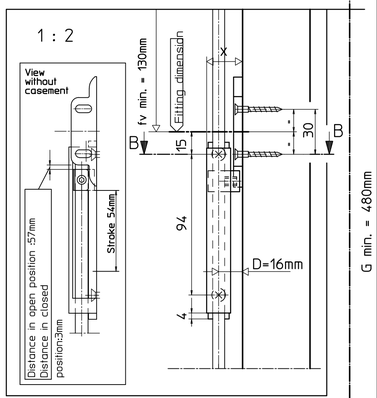
Additional locking OL 90 N for overlap 14-25mm

B - B

1 : 1

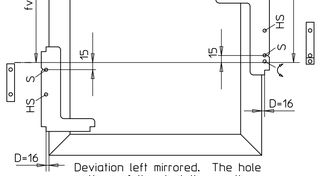


1 : 2



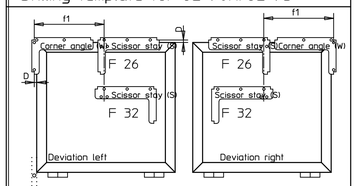
Drilling template OL90N/OL95 Application for additional locking overlap 14-25mm

End stop with drilling template OL 90
1. Drill hole pattern for transome part
2. Shift drilling template 15mm from fv
3. Drill hole pattern guide (HS,S)



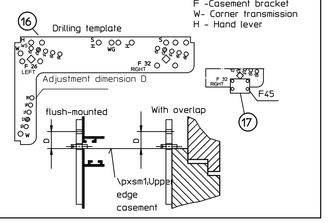
Deviation left mirrored. The hole pattern of the deviation on the right is mirror-inverted.

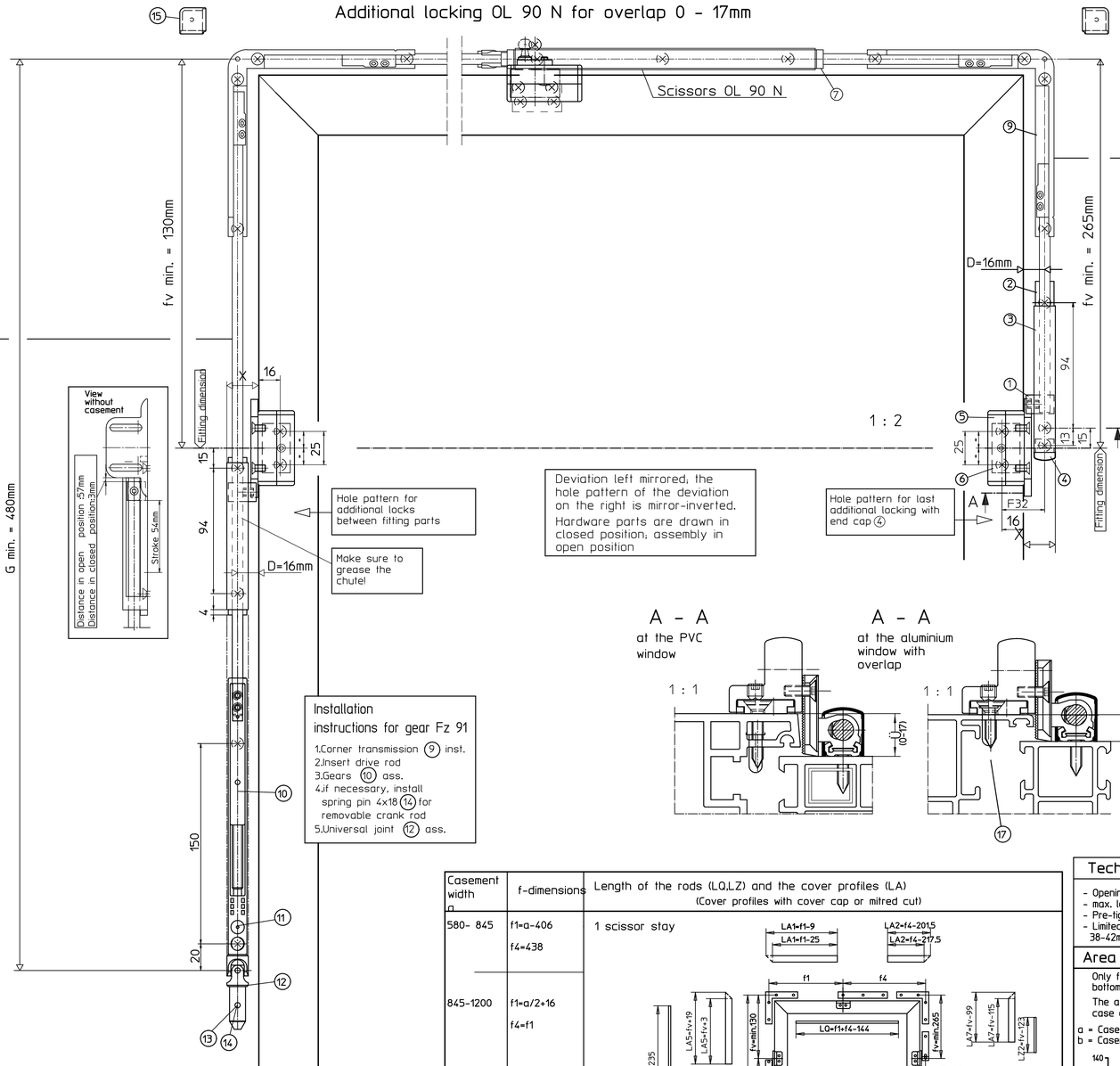
Drilling template for OL 90N/OL 95



Mark the hole pattern for Fz91 according to the drawing!

Designation drill bush: S -Scissor stay base
F -Casement bracket
W- Corner transmission
H - Hand lever

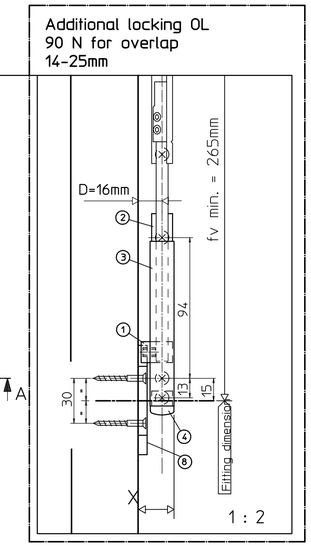


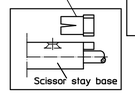


Deviation left mirrored; the hole pattern of the deviation on the right is mirror-inverted.
Hardware parts are drawn in closed position; assembly in open position

Hole pattern for last additional locking with end cap (4)

1 : 2



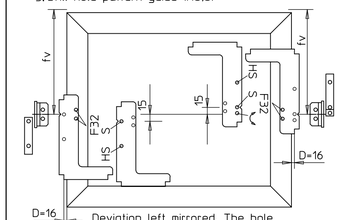


Further installation drawings for GEZE OL 90 N:

OL 90 N additional locking	40444-EP-005
OL 90 N with gearbox Fz 91 or Fz 92 for pitched windows	40444-EP-007
OL 90 N with gear Fz 91 or Fz 90 L/R	40444-EP-008
OL 90 N crank rod and accessories for gear Fz 90, Fz 91, Fz 92	40444-EP-011

Drilling template OL90N/OL95 Application for additional locking overlap 0-17mm

End stop with drilling template OL 90 N
1. Hole pattern for additional bracket (F32)
2. Shift drilling template 15mm
3. Drill hole pattern guide (HS,S)



Deviation left mirrored. The hole pattern of the deviation on the right is mirror-inverted.

Installation instructions for gear Fz 91

1. Corner transmission (9) inst.
2. Insert drive rod
3. Gears (10) ass.
4. if necessary, install spring pin 4x18 (14) for removable crank rod
5. Universal joint (12) ass.

A - A at the PVC window

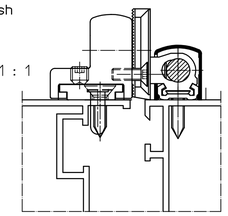
1 : 1

A - A at the aluminium window with overlap

1 : 1

A - A at the flush aluminium window

1 : 1



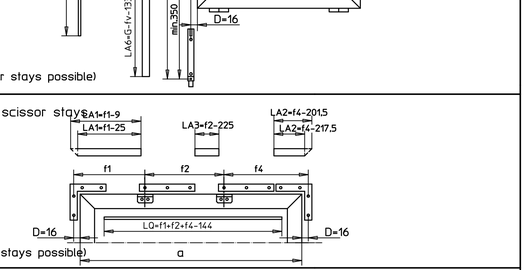
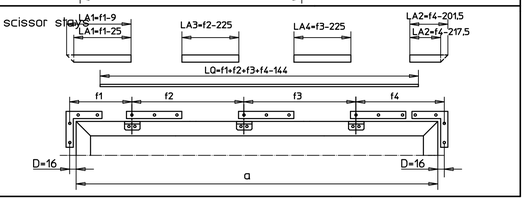
Mounting elements

Window type	Fixing screws	Drill ø
Wood	Countersunk wood screws 4x35 DIN 97 o.DIN 7997	2.5mm
Aluminium	Countersunk self-tapping screws 4.2xL DIN7972 o.DIN7982 Screw must go through min.1.8mm profile wal	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.

Important information:

- Installation drawing, installation instructions, maintenance and operating instructions must be observed,
- The specified area of application must be observed,
- The prescribed fitting dimensions must be observed,
- The prescribed mounting elements must be used,
- In order to avoid injuries protective caps are to be screwed onto projecting threads of the fastening screws.
- Fittings are drawn in the closed position. However, mounting is carried out in the open position,
- All fixing screws must be tightened in the open position with an Allen key SW3 with SNm,
- After assembly and before commissioning, the function of tightening all fixing screws must be checked, and all fixing screws must be tightened again,
- The joints and sliding points must be greased with an acid-free grease in accordance with DIN 51825,
- The free accessibility of the fitting parts for greasing and maintenance must be ensured in accordance with DIN 18357,
- If rods and cover profiles from other manufacturers are used, GEZE assumes no warranty and no liability for the resulting damage and consequential damage,
- From a free rod length of 600mm, rod guides must be used,
- The use of a suitable safety catch is prescribed for bottom-hung windows (see GEZE gripping and cleaning scissor stay),

Casement width a	f-dimensions	Length of the rods (LQ,LZ) and the cover profiles (LA) (Cover profiles with cover cap or mitred cut)
580- 845	f1=a-406 f4=438	1 scissor stay
845-1200	f1=a/2+16 f4=f1	
1000-1270	f1=a-810 f2=410 f4=438	2 scissor stays 
1270-2400	f1=a/3+16 f2=a/3 f4=a/3+16	
1400-1700	f1=a-1226 f2=410 f3=f2 f4=438	3 scissor stays 
1700-3000	f1=a/4+16 f2=a/4 f3=f2 f4=f1	

(from a=1000 also 2 scissor stays possible)

(from a=1400 also 3 scissor stays possible)

Technical data

- Opening width approx. 170mm; fitting stroke 54mm
- max. locking force 15 kg
- Pre-tightening 4mm; overlap 4,5mm
- Limited opening width to approx. 100-130mm, fitting stroke 38-42mm with stroke limiter for gear Ident. no. 12335

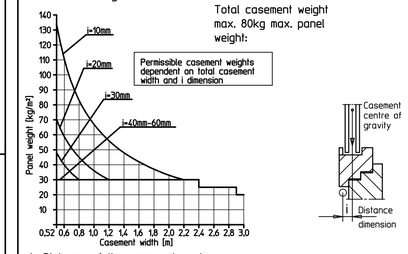
Area of application

Only for vertically installed rectangular windows with bottom- or top-hung casements inward opening

The additional locking can be fitted in the case of right and left deviation.

a = Casement width min. 580mm (only for rectangular windows)
b = Casement height from 480mm

Total casement weight max. 80kg max. panel weight:



i =Distance of the casement centre of gravity to the hinge pivot point = 10 to 60mm
Ü = Overlap height 0-25mm
D =Outer edge of casement to centre of link arm (see table) X =Side clearance (see table)
Y =Upper clearance (see table)

Casement height b	D-dimension top	Clearance Y top
from 480mm	10 to18mm	D + 9mm

Deviation	D-dimension side	Side clearance X
Gear Fz91 with fixed crank rod	16mm	25mm
detachable crank rod	16mm	30mm

if the permissible casement width is not overlapped, up to 3 scissor stays may be mounted

Order requirement* for rectangular windows with OL 90 N, Fz 91 and additional locks		Fitting parts (see BOM) A	B	C	D	E	F+F1
Overlap 0-17mm	(al. window)	2X		X	X	X	
Overlap 0-17mm	(wood and plastic)	2X		X	X		X
Overlap 14-25mm	(al. window)		2X	X	X	X	
Overlap 14-25mm	(wood and plastic)		2X	X	X		X

* Cover profile and rod must be ordered separately

Pos.	Pc.	Name	Ident no. for version: EV1	white RAL9016	dark bronze	black	RAL...	Pc.
A		Additional locking device OL 90 for overlap N 0-17 mm	30519	30523	30520	30522 RAL black	30522	5
		(1 piece) Content:						
1	1	Sliding part						
2	1	Guide						
3	1	Cover for locking mechanism						
4	1	End cap						
5	1	Additional bracket for transome part						
6	1	Screw plate						
7	1	Connection						
18	2	Protective cap						
B		Additional locking OL 90 N for overlap 14-25mm	30524	30528	30525	30527 RAL black	30527	5
		(1 piece) Content:						
1	1	Sliding part						
2	1	Guide						
3	1	Cover for locking mechanism						
4	1	End cap						
8	1	Transome part						
7	1	Connection						
C		Corner transmission with Gear Fz 91	30817 galvanised	30817 galvanised	30818 black	30818 black	30817 or 30818	6
		Content:						
9	1	Corner transmission						
10	1	Gear						
11	1	grub screw M4x10,8						
12		of universal joint						
13	1	Spring pin 4x16 for fixed crank rod						
14	1	Spring pin 4x20 for removable crank rod						
15	1	Cover cap						
D		Corner transmission	70546					4
9	1	for rectangular windows						
E		Scissors OL 90 N	30373	30377	30374	74509	30376	6
F		Scissor stay OL 90 N without casement bracket	71203	71207	71204	99477	71206	4
F1		Casement bracket for wooden windows with Euro-groove	30886	30890	30887	99475	30889	2
		Rods and cover profiles						
		Cover profile L=2m *	30401	30405	30402	74537	30404	
		Cover profile L=3m *	30396	30400	30397	74539	30399	
		Cover profile L=6m	27558	27561	27559	74540		
		Rod Ø8 galvanised L=2m	16555					
		Rod Ø8 galvanised L=3m	16591					
		Rod Ø8 galvanised L=6m	16592					
		Accessories (Must be ordered separately)	For wood		for plastic/metal			
16		Drilling template OL 90N/OL 95	54799 yellow		54800 blue			
17		Additional drilling template OL 90 N for wooden windows F=45	28141					
		Rod coupling OL 90	43546					
	10	Rod guide	10878					1 each
		Stroke limiting device for gear	12335					

* Cover profile mitre cut on both sides

04	09.06.21	ut1270	3362	
03	09.03.20	ut1270	2642	
Dep.	Revision	Date	Name	Revision-Nr.

Frg. Prod./Rel. Prod

GEZE GmbH, P.O. Box 13 63, 71226 Leonberg, Germany

vertraulich / confidential

Benennung / designation: OL 90N with Fz 91 and additional locking
Additional sheet for 40444-EP-008

	Datum/date	Name	Blatt / von sheet / of
erstellt / drawn	09.06.21	ut1270	1 / 1
Frg. Prod./Rel. Prod	10.06.21	tbf1	Maßstab scale

Material-Nr. ID-no.

Zeichnungs-Nr. / document-no.: 40444-EP-022

EMPB = Erstmusterprüfbericht /Initial sample test report

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