



### Installation dimension

| Casement width a                  | F-dimensions  | Scissor distribution, Lengths of rods (LQ,LZ) and cover profiles (LA) |
|-----------------------------------|---|---|
| 380-420                           | $f1 = a/2 + D - 20$   | 1 scissor stay<br>  |
| 420-1200                          | $f1 = a/2 + D$  | 1 scissor stay<br>  |
| 900-2400                          | $f1 = a/4 + D$<br>$f2 = a/2$  | 2 scissor stays<br>   |
| 1300-3600                         | $f1 = a/6 + D$<br>$f2 = a/3$<br>$f3 = a/3$                              | 3 scissor stays<br>   |
| In the case of several casements  |   |   |
| Total casement width a = max.3600 | $f1 = \text{min.}180$<br>$f2 = \text{min.}340$<br>$f3 = \text{min.}340$ | $a = 1300-3600\text{mm}$  |

### Drilling template application

for scissors with casement bracket, corner deflection and gear Fz90

Designation drill bush:  
 S - Scissor stay base  
 F - Casement bracket  
 W - Corner transmission  
 W and G gear Fz90  
 H - Hand lever

### Area of application

Only for vertically rectangular windows with bottom- or top-hung casements inward opening in dry interior rooms.

a = Casement width min.380mm  
 Total casement width (sum of all casement widths) max. 3600  
 b = Casement height min. 250mm  
 Total casement weight max. 80kg  
 Max. panel weight:

| Casement width a | Panel weight              |
|------------------|---------------------------|
| 380 to 2400mm    | max. 30 kg/m <sup>2</sup> |
| 2400 to 2900mm   | max. 25 kg/m <sup>2</sup> |
| 2900 to 3600mm   | max. 20 kg/m <sup>2</sup> |

i = Distance of the casement centre of gravity to the hinge pivot point = 10 to 60mm  
 U = Overlap height 18mm  
 D = Outer edge of casement to centre of V-arm (see table)  
 X = Side clearance (see table)  
 Y = Upper clearance (see table)

| Casement height b | D-dimension top          | Clearance Y top |
|-------------------|--------------------------|-----------------|
| 250 to 400mm      | 18mm (F32)               | D + 9mm         |
| from 401mm        | 12mm (F26) or 18mm (F32) | D + 9mm         |

If additional locking is used, D-16 is necessary (Attention, screws in frame touch a web).

| Deviation   | D-dimension side | Side clearance X |
|---|------------------|------------------|
| Gears Fz90L/R and Fz91 with fixed crank rod removable crank rod | min. 10mm        | D + 9mm          |
|   | min. 14mm        | D + 14mm         |

If the permissible casement width is not overlapped, up to 3 scissor stays may be mounted. For scissor distribution, see table Installation dimensions.

### 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 5Nm.
- 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).

### Mounting elements

| Window type | Fixing screws  | Drillø |
|-------------|--|--------|
| Plastic     | Countersunk self-tapping screws 4.2-L, DIN7972, DIN7982<br>Screw must go through min.2 profile walls | 3.5mm  |

Fixing screws are not included in the delivery.

### Order requirement for rectangular window OL90N with ...

| Order requirement for rectangular window OL90N with ... | Fitting parts (see BOM) |   |   |   |
|---|-------------------------|---|---|---|
|   | A                       | B | C | D |
| Gear Fz 90 left   | X                       |   |   | X |
| Gear Fz 90 right  | X                       |   |   | X |
| Gear Fz 91  | X                       | X |   |   |

\* Cover profile and rod must be ordered separately

| Name   | Ident no. for version:  |                         |                              |                         |                | Pc.    |
|--|-------------------------|-------------------------|------------------------------|-------------------------|----------------|--------|
|  | EV1                     | white RAL9016           | dark bronze                  | black                   | RAL-           |        |
| <b>A</b> Scissor stay OL90N<br>Content:<br>1 Flat forming scissor stay OL90N<br>2 Scissor stay base<br>3 Casement bracket<br>4 Rod guide<br>5 Screw plate<br>6 Connection<br>19 Protective cap                 | 30373                   | 30377                   | 30374                        | 74509                   | 30376          | 6      |
| <b>B</b> Content:<br>8 Corner transmission<br>9 Gear<br>10 grub screw M4x10,8<br>11 of universal joint<br>12 Spring pin 4x16 for fixed crank rod<br>13 Spring pin 4x20 for removable crank rod<br>14 Cover cap | 30817 galvanised        | 30817 galvanised        | 30818 black                  | 30818 black             | 30817 or 30818 | 6      |
| <b>C</b> Corner bracket with gear Fz90 left<br>Content:<br>Pos.: 10, 11, 12, 13, 14<br>Corner bracket with gear Fz90L  | 30809 galvanised        | 30809 galvanised        | 30810 black                  | 30810 black             | 30809 or 30810 | 4      |
| <b>D</b> Corner bracket with gear Fz90 right<br>Content:<br>Pos.: 10, 11, 12, 13, 14<br>Corner bracket with gear Fz90R   | 30811 galvanised        | 30811 galvanised        | 30812 black                  | 30812 black             | 30811 or 30812 | 4      |
| <b>Rods and cover profiles</b><br>Cover profile L=2m *<br>Cover profile L=3m *<br>Cover profile L=6m *<br>Rod Ø8 galvanised L=2m<br>Rod Ø8 galvanised L=3m<br>Rod Ø8 galvanised L=6m                           | 30401<br>30396<br>27558 | 30405<br>30400<br>27561 | 30402<br>30397<br>27559      | 74537<br>74539<br>74540 | 30404<br>30399 |        |
| <b>Accessories</b><br>(Must be ordered separately)<br>17 Drilling template<br>18 Rod coupling OL90 N<br>4 Rod guide<br>10 Stroke limiting device for gear  | For wood 54799 yellow   |                         | for plastic/metal 54800 blue |                         |                | 1 each |

\* Cover profile mitre cut on both sides

