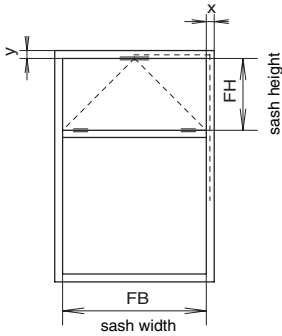


Fanlight opener OL 90 N / OL 95 for bottom-hung sashes, lifting of handle = 54 mm, surface-mounted with concealed rods, excluding fixing material and hinges



Min. sash height 400 mm
Cutting for sash height < 700 mm:
 $FH = LRH + 8 \text{ mm}$

Required space:
 $Y = \text{top} = 20 \text{ mm}$
 $X = \text{side} = 20 \text{ mm}$
(measured from the sash lap over the frame)

$X = 26 \text{ mm}$ in case of additional lock

Max. sash weight 80 kg

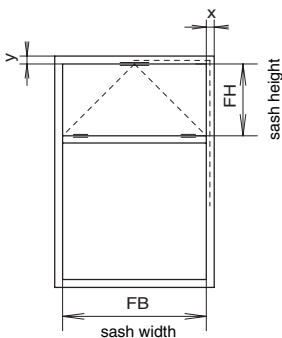
Application table OL 90 N

Article no.	Wind load group	Max. sash size in mm	Wind load group	Max. sash size in mm
Z 994 330 02 1x Z 994 170 02	A – B	Max. sash width 1200 Max. sash height 900	C	Max. sash width 1000 Max. sash height 600*
Z 994 330 02 2 x Z 994 170 02	A – B	Max. sash width 2400 Max. sash height 900	C	Max. sash width 1800 Max. sash height 600*
Z 994 330 02 3 x Z 994 170 02	A – B	Max. sash width 3000 Max. sash height 900	C	Max. sash width 2600 Max. sash height 600*
Min. sash width 380 mm – max. weight of insert element up to a sash width of 3000 mm = 30 kg/m ²				

Application table OL 95

Article no.	Wind load group	Max. sash size in mm	Wind load group	Max. sash size in mm
Z 994 330 02 1x Z 994 634 02	A – B	Max. sash width 1000 Max. sash height 900	C	Max. sash width 800 Max. sash height 600*
Z 994 330 02 2 x Z 994 634 02	A – B	Max. sash width 2000 Max. sash height 900	C	Max. sash width 1400 Max. sash height 600*
Z 994 330 02 3 x Z 994 634 02	A – B	Max. sash width 2200 Max. sash height 900	C	Max. sash width 2000 Max. sash height 600*
Min. sash width 440 mm – max. weight of insert element up to a sash width of 2200 mm = 30 kg/m ²				

Fanlight opener Primat - FL 190 for bottom-hung sashes, lifting of handle = 58 mm, opening width = 190 mm, surface-mounted with concealed rods, excluding fixing material and hinges



Min. sash height 400 mm
Cutting for sash height < 700 mm:
 $FH = LRH + 8 \text{ mm}$

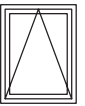
Required space:
 $Y = \text{top} = 22 \text{ mm}$
 $X = \text{side} = 22 \text{ mm}$
(measured from the sash lap over the frame)

$X = 24 \text{ mm}$ in case of additional lock

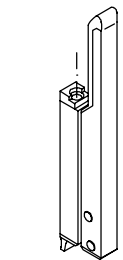
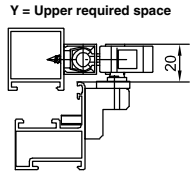
Max. sash weight 80 kg

Application table

Article no.	Wind load group	Max. sash size in mm	Wind load group	Max. sash size in mm
Basic fitting	A – B	Max. sash width 1200 Max. sash height 900	C	Max. sash width 1000 Max. sash height 600*
Basic fitting + 1 additional fitting	A – B	Max. sash width 2400 Max. sash height 900	C	Max. sash width 1800 Max. sash height 600*
Basic fitting + 2 additional fittings	A – B	Max. sash width 3000 Max. sash height 900	C	Max. sash width 2600 Max. sash height 600*
Min. sash width 400 mm – max. weight of insert element up to a sash width of 3000 mm = 30 kg/m ²				



Fanlight opener OL 90 / OL 95 for bottom-hung sashes, surface-mounted with concealed rods.
Fixing material and hinges must be ordered separately!
Processing drawing: Register 400



Z 994 170 02
Z 994 170 64
Additional stay-arm **OL 90**,
opening width 170 mm
in accordance with
application table

Z 994 634 02
Z 994 634 64
Additional stay-arm **OL 95**,
opening width 220 mm
in accordance with
application table

Z 994 330 02
Z 994 330 64
Handle, lifting = 54 mm
and corner linkage gear

Z 991 909
Fixing material for
stay-arm and handle

Z 991 910
Fixing material for
additional stay-arm

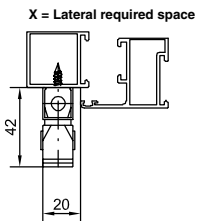
Operating rods with cover profile
-vertical und horizontal-

Z 994 171 02
Z 994 171 64
Operating rod, diam. 8 mm
with cover profile,
elevation width = 15.5 mm
overall length = 200 cm

Z 994 172 02
Z 994 172 64
Operating rod, diam. 8 mm
with cover profile,
elevation width = 15.5 mm
overall length = 300 cm

Z 911 705
Unattached operating rod,
diam. 8 mm,
stock length = 600 cm

Z 911 587 02
Z 911 587 64
Cover profile
Elevation width = 15.5 mm
Gesamtlänge 600 cm
für **FH** max. 900 mm



Please observe the application diagrams!

Series

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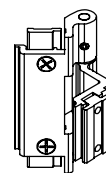
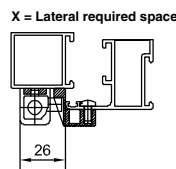
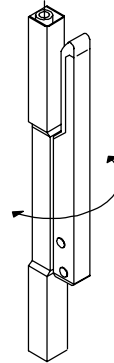
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Supplementary parts

Z 994 173 02
Z 994 173 64
Accessory set
for swivel handle
(please order separately)
Required space **x = 22 mm**

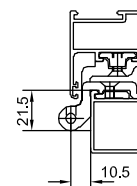
Z 994 174 02
Z 994 174 64
Additional vertical lock,
on both sides, complete for
a sash height from
601 to 900 mm

Always required for group C,
see application table

Z 903 888
Additional guide piece,
required for vertical linkage
exceeding 200 cm,
1 required for each 0.6 m
additional length

Z 993 419 02
Z 993 419 64
Side and bottom-hung
sash hinge, clamp-on
design, three-part,
suitable for DIN L and
DIN R, can be used as
a centre hinge

3 hinges are required from
a sash width ≥ 1600 mm



Minimum space required
at the frame = 22 mm

Safety and cleaning stay-arms are
obligatory for fanlight openers!

Drilling jigs:
-> cf. **Auxiliary accessories and tools**

Series

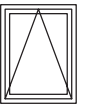
2.1 EU

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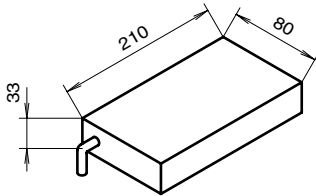
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Electric drives and accessories for fanlight openers OL 90/ OL 95 and FL 190, surface-mounted with concealed rods,
Processing drawing: Register 400



Z 994 085 02

Z 994 085 64

GEZE electric drive
E 212 R 1, including 1 relay,
for multiple control via
1 change-over switch, (E27/ E33),
light metal cover cap

Z 994 086 02

Z 994 086 64

GEZE electric drive
E 212 R 2, including 2 relays,
for multiple control via
any given number of vent operation,
switches (E 50-1/E 50-3),
light metal cover cap

Mechanical and electrical data:

Max. lifting = 66 mm
Adjusted to 52 mm
Protection mode IP 52
For dry rooms only
Operating voltage 230 V AC
Current consumption 0.4 A
Input 90 V A
Short time operation ED 25 %
Tensile and compressive force:
1200 N = 10 %

Change-over switch for electric drive E 212



Z 905 427

Individual control, change-over switch E33,
open-stop-closed, for surface-mounting



Z 905 428

Individual control, change-over switch E27,
open-stop-closed, concealed

Z 908 583

Multiple control,
vent operation switch E 50-1,
open-stop-closed

Z 908 584

Multiple control
vent operation switch E 50-3,
open-stop-closed

**Accessories for electric drives
for OL 90 / OL 95**

Z 908 585

Rod coupling for
electric drive E 212
(horizontal installation)
50 mm required space

Series

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