



TURN-TILT WINDOWS



A12.11 SALTO 4008

01.06.2018

SALTO 4008

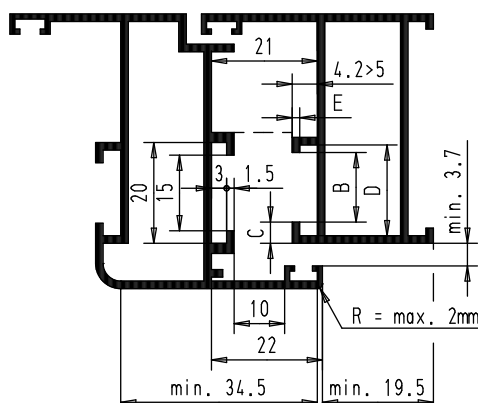
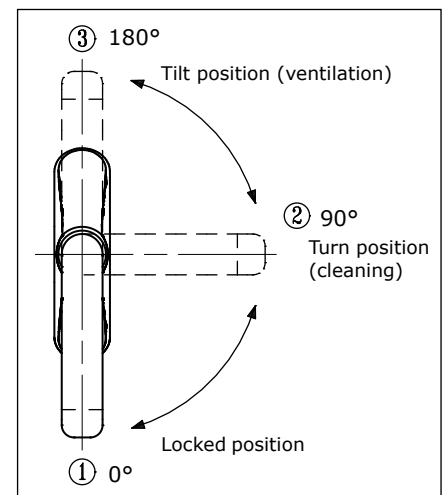
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1. General characteristics

- Totally clampable SALTO 4008 turn-tilt system for windows up to 90 kg vent weight (up to 130 kg provided that two additional thread forming screws are used).
- Very quick assembly:
 - pre-assembled components and screws.
 - non-handed mishandling device incorporated in the corner transmission (no modification required for handing).
 - single wedge (n° 4008-189) for both locking point and mishandling device.
 - single wedge (n° 4008-181) for both locking point and anti-lift pin.
 - easy access to fixing and adjustment screws.
- One single centre locking set suitable for vertical and horizontal application for vent sizes over 1200 mm.
- A special self-drilling screw ensures solid and dimensionally stable fixing of the link arm.
- For good stability and operation of the window there are 3 sizes of link arms:
 - Link arm A for vent width: 400- 600 mm
 - Link arm B for vent width: 600-1300 mm
 - Link arm C for vent width: 1300-1700 mm
- The three link arms have an adjustable friction device incorporated to hold vent in tilt position.
- The link arms B and C are provided with a pre-locking pull in wedge to ease closing from the tilt position.
- Horizontal and vertical adjustment of bottom hinge is possible after installation.
- All parts are made of non-corroding materials.
- Size range:
 - vent width: 400-1700 mm.
 - vent height: 500-2400 mm.
 - vent weight: max. 90 kg (130 kg).
 - ratio of vent width F_b / vent height F_h = max. 1.5
- Special dimensions on request!
- The SALTO system has been tested in accordance with following standards:
 - Belgian standard STS 52.0 for windows 50 m or more above the ground.
 - German standard RAL-RG 607/3 : Class F130-9
 - Polish standard
- One system suitable for profiles with frame groove width from 10 to 14 mm. See table below.



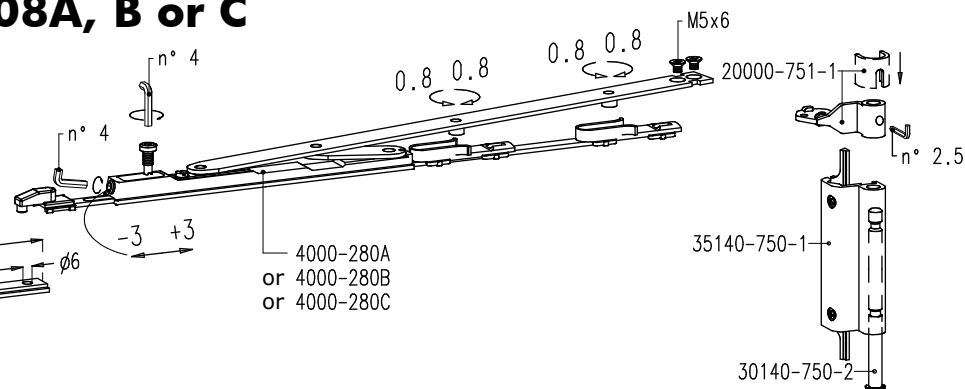
B (mm)	C (mm)	D (mm)	E (mm)
13.8	4.2	18	1.5
12.5	3.9	16.8	1.5
12.1	2.9	15.3	1.5
10	4.2	14.8	1.5
14.1	4.2	18.5	2.5
13.5	3.5	17.5	2.5



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2. Base set n° 4008A, B or C

Vent width
Fb = 445-1200 mm
Vent height
Fh = 530-1200 mm



Fb = 400-600 : 4008A
Fb = 600-1300 : 4008B
Fb = 1300-1700 : 4008C

4008A, B or C

=		
1	4000-232N	connection piece
1	4000-280A, B or C	link arm
1	4000-303	run on rest
1	4000-321	bolt
1	4000-357	corner transmission
1	4008-181	wedge
1	4008-182	run on rest
1	4008-189	wedge
2	30000-690	screw

Top hinge n° 4008-120

1	20000-751-1	vent hinge
1	30140-750-2	hinge pin
1	35140-750-1	frame hinge
2	M5x6 Din965 k7.5	screw

Bottom hinge n° 35140-760

1	30000-760-2	hinge pin
1	30140-760-2	adjustment bearing piece
1	30140-760-3	cap
1	35000-760-1	vent hinge
2	35000-760-3	screw
1	35000-760-4	clamping plate
1	35140-760-1	frame hinge

4008-120

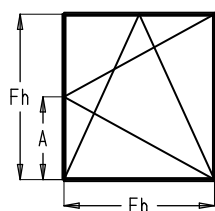
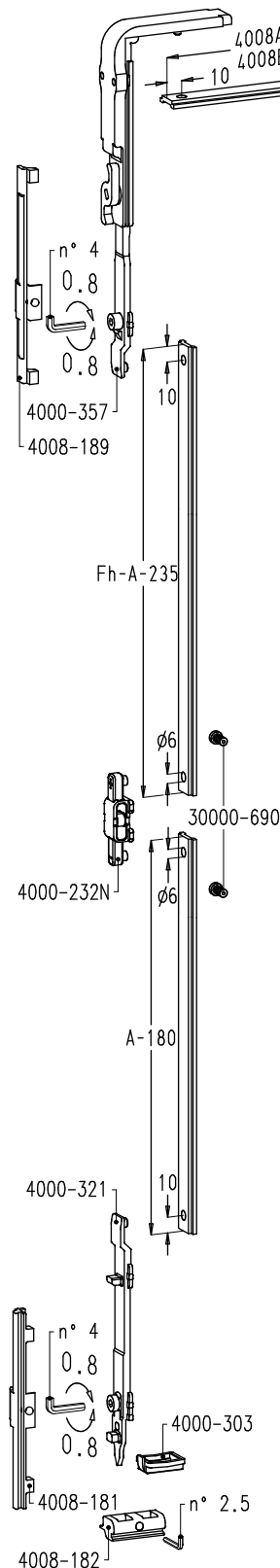
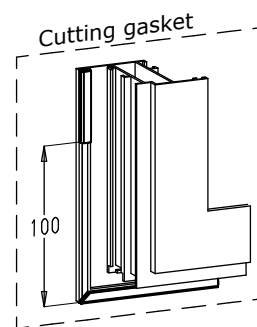
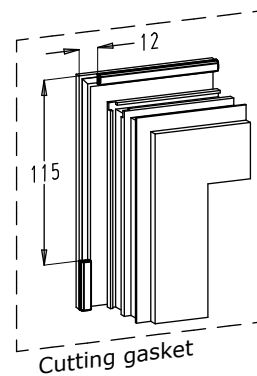
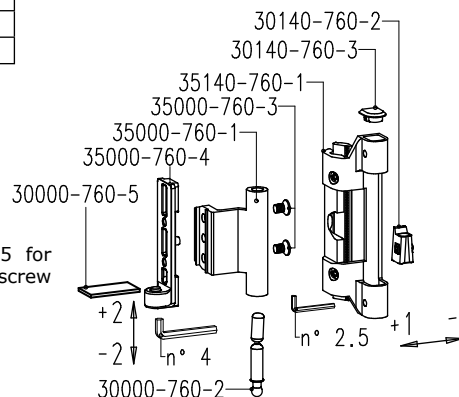


Plate n° 30000-760-5 for supporting adjusting screw (order separately)



35140-760



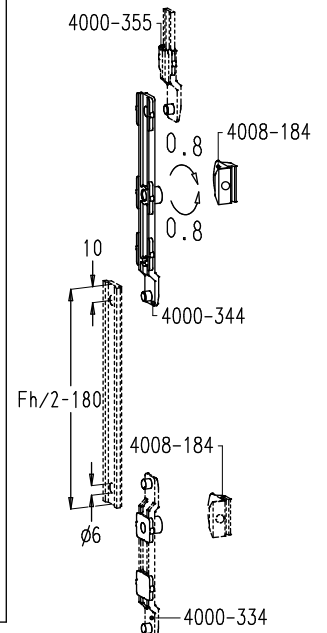
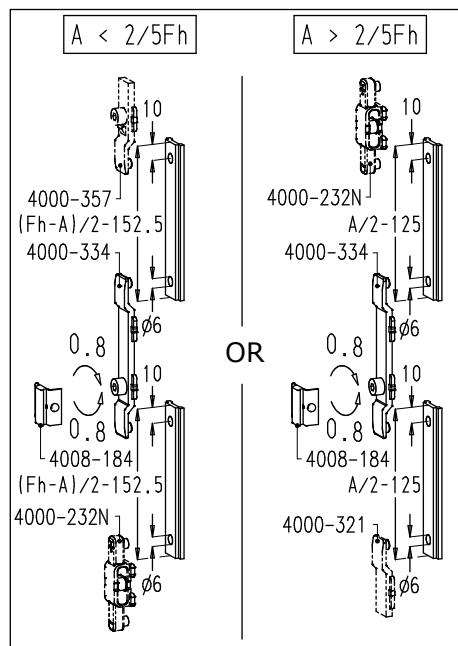
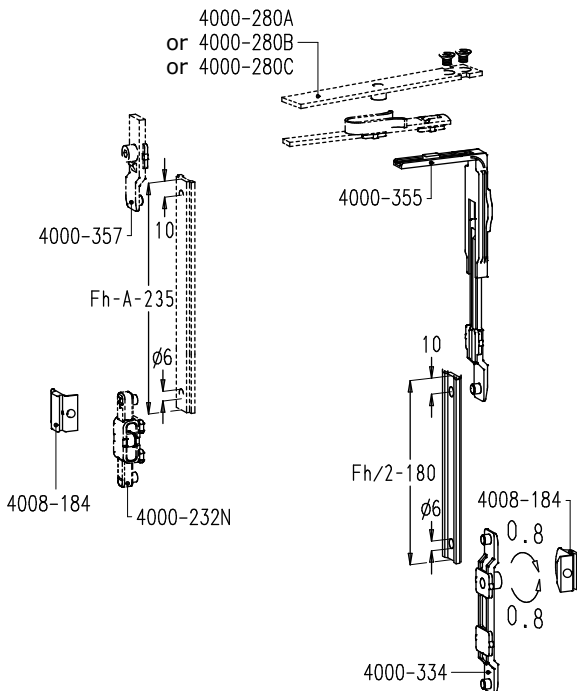
3. Centre locking sets n° 4008-30N and 4008-31

Vent height
Fh=1200-1800 mm

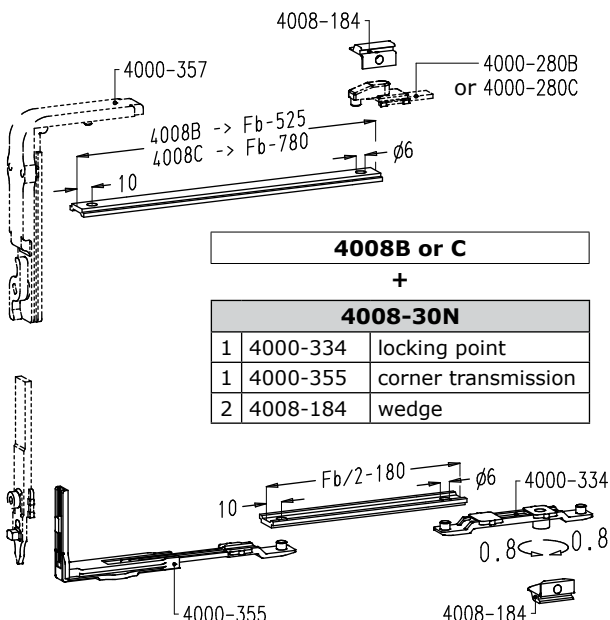
4008A, B or C	
+	
4008-30N	
1	4000-334 locking point
1	4000-355 corner transmission
2	4008-184 wedge

Vent height
Fh=1800-2400 mm

4008A, B or C	
+	
4008-30N	
+	
4008-31	
1	4000-334 locking point
1	4000-344 locking point
2	4008-184 wedge

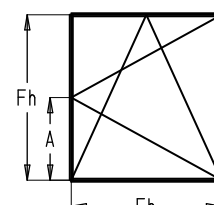


Vent width Fb = 1200-1700 mm



4008B or C	
+	
4008-30N	
1	4000-334 locking point
1	4000-355 corner transmission
2	4008-184 wedge

- The centre locking set n° 4008-30N is suitable for windows with vent height from 1200 to 1800 mm and vent width from 1200 to 1700 mm.
- Windows with vent height from 1800 mm to 2400 mm require an additional centre locking set n° 4008-31.



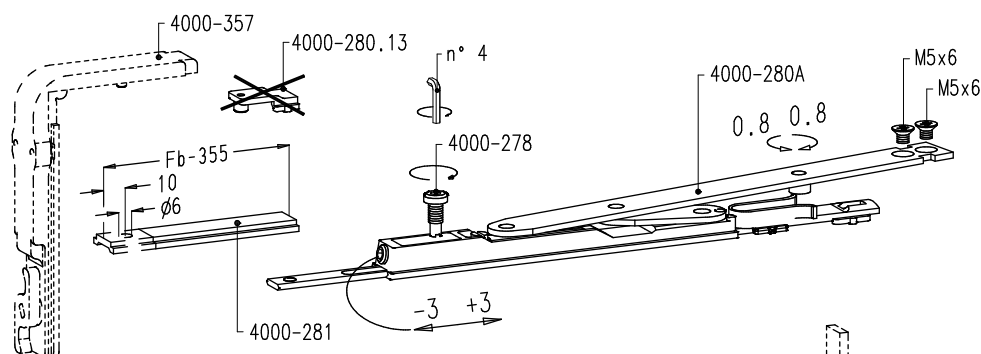


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4. Small windows

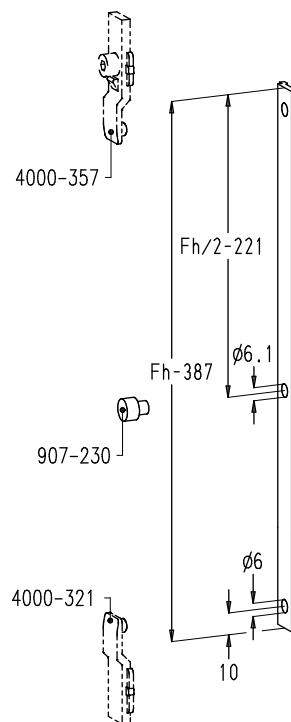
Vent width (Fb) = 400-445 mm

- For windows with vent width from 400 to 445 mm connection piece **n° 4000-281** must be additionally ordered.
- Connection piece n° 4000-280.13 is replaced by connection piece n° 4000-281.
- Connection piece n° 4000-281 is to be cut and drilled with a hole of $\varnothing 6$ mm as shown.



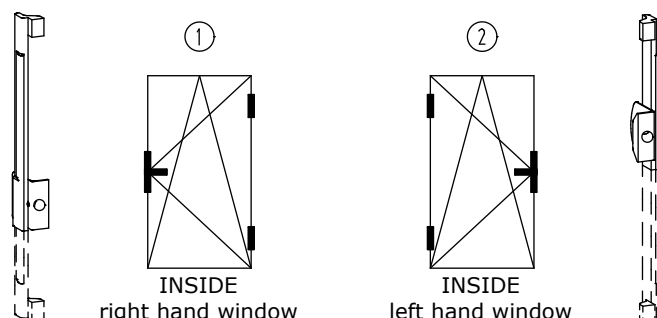
Vent height Fh = 500-530 mm

- For windows with vent height from 500 to 530 mm drive pin **n° 907-230** must be additionally ordered.
- These windows require one single connecting rod between the corner transmission n° 4000-357 and the bolt n° 4000-321.
- The rod is cut and drilled as shown.
- The n° 907-230 drive pin is riveted into the $\varnothing 6.1$ mm hole and acts as the drive for the handle.



Vent height Fh = 500-625 mm

- For windows with vent height from 500 to 625 mm wedge **n° 4008-189** must be cut just below the locking plate (see drawing).
- For a right hand window the wedge is cut according to drawing 1, for a left hand window according to drawing 2.



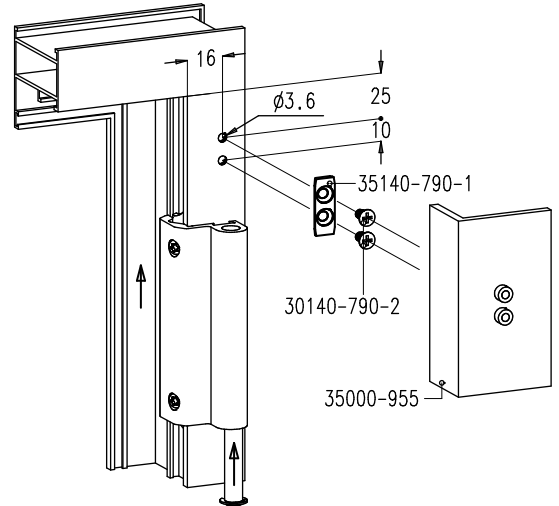


5. Special accessories

5.1. Reinforcement set n° 35140-790

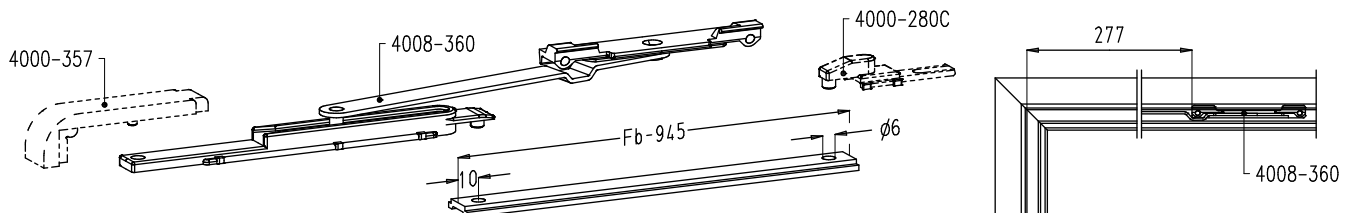
- For windows with vent weight between 90 kg and 130 kg and with $F_b > 1400$ mm the reinforcement set n° 35140-790 must be used to reinforce the top hinge.
- The M4x10 thread forming screws must fix into at least 6 mm of aluminium.
- Drilling jig n° 35000-955 is available for drilling the holes.

Reinforcement set n° 35140-790		
1	35140-790-1	reinforcement piece
2	30140-790-2	screw



5.2. Additional arm n° 4008-360

- An additional arm n° 4008-360 should be used on vents over 1400 mm wide.
- The additional arm provides greater stability, especially for wide and heavy windows in tilt position.
- The additional arm is non-handed.

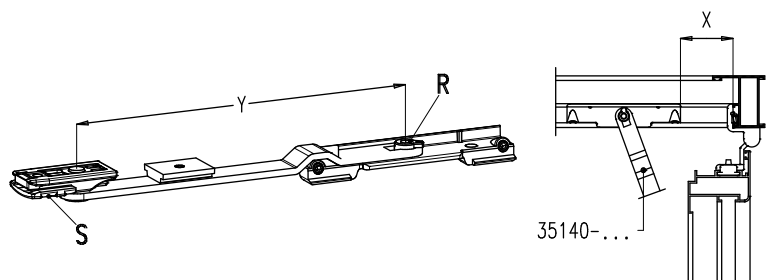


5.3. Window stay n° 35140-901, -902 or -903

- The window stay restricts the opening angle of the window in turn position.
- The window stay should be used for safety purposes or where the opening arc may be obstructed.
- The position of the stay will dictate the opening angle of the window.
- The window stay is detachable by turning rivet R with a 4 mm hexagon key.
- The window stay has an incorporated adjustable friction by tightening the screw S, which can hold the vent in any turn position.

Fb = mm	Order code	Y	X
400-600	35140-901	160	35
600-1300	35140-902	270	45
1300-1700	35140-903	370	80

- Dimension X restricts the opening angle at $\pm 90^\circ$.

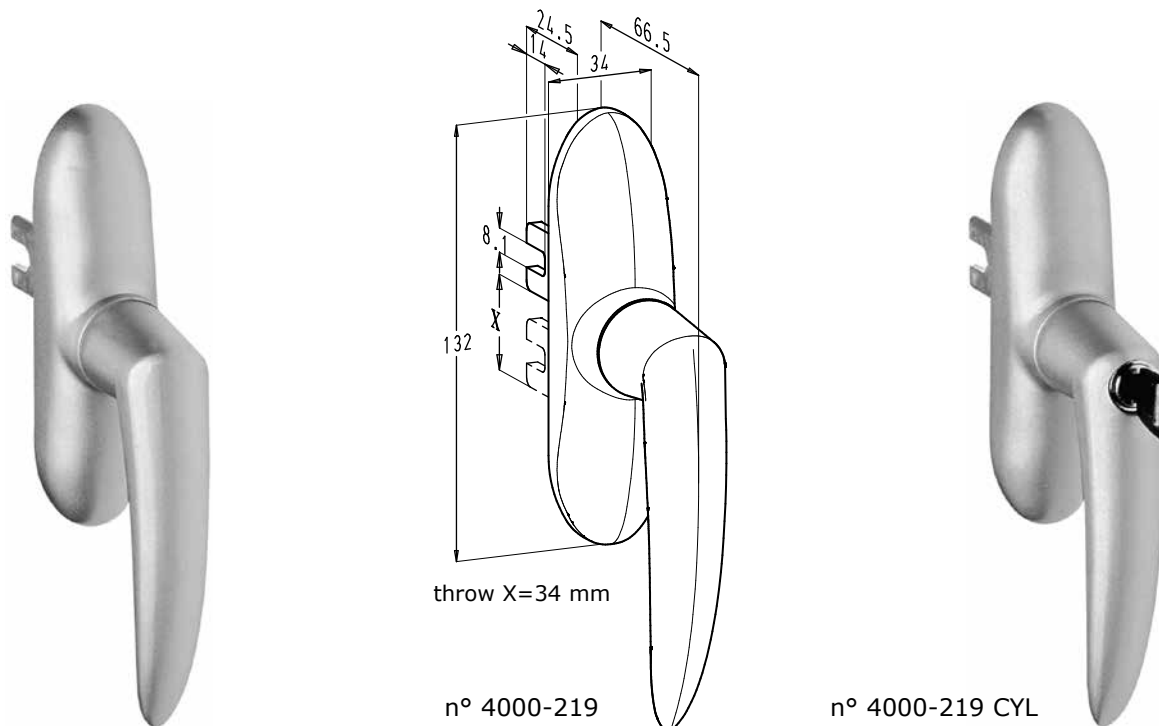




6. Handles

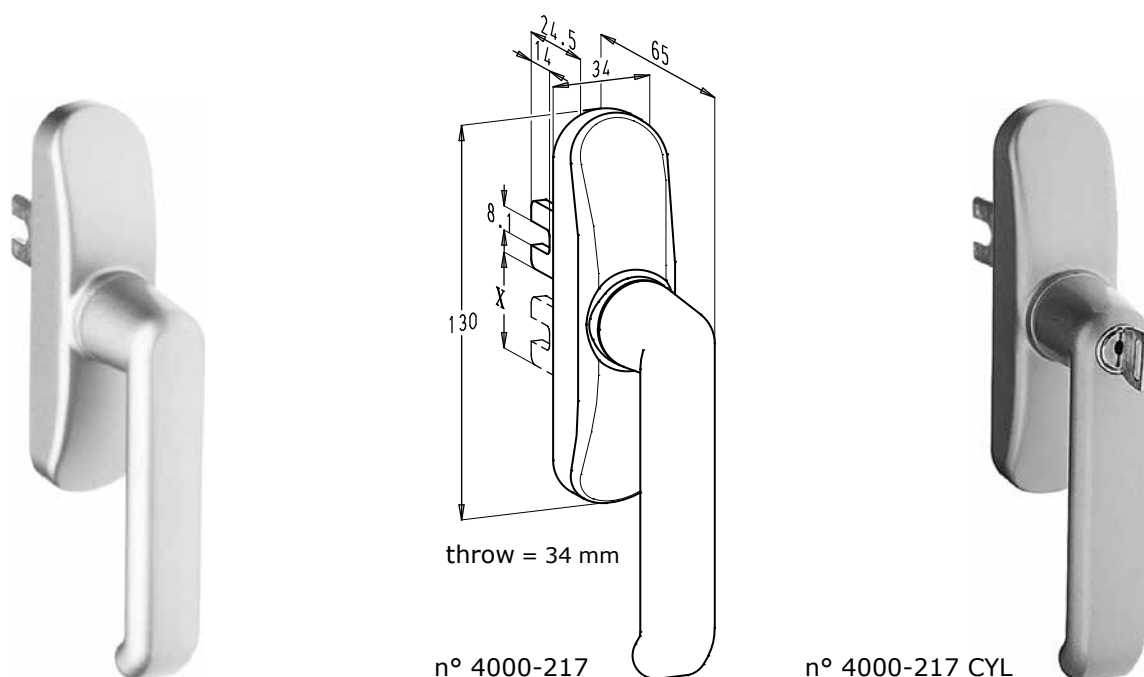
6.1. Handles with one fork

Handle n° 4000-219 and n° 4000-219 CYL



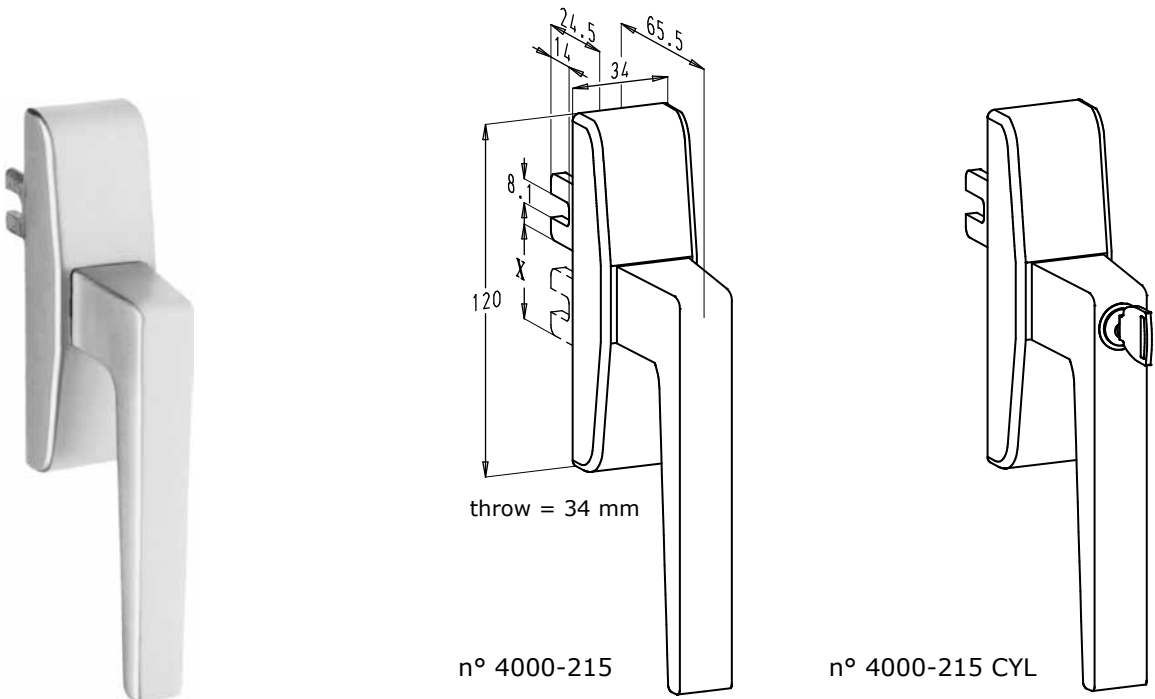
- The same handles can be used for both side hung and turn-tilt windows. Both window types can be used next to one another with the advantage of having the same appearance.
- Finish: grip in aluminium and base in zinc alloy, always polyester powder coated (more than 450 RAL colours).
- The cylinder locking handle can be locked in closed and tilt position.
- Fixing holes see page A12.11.11.

Handle n° 4000-217 and n° 4000-217 CYL



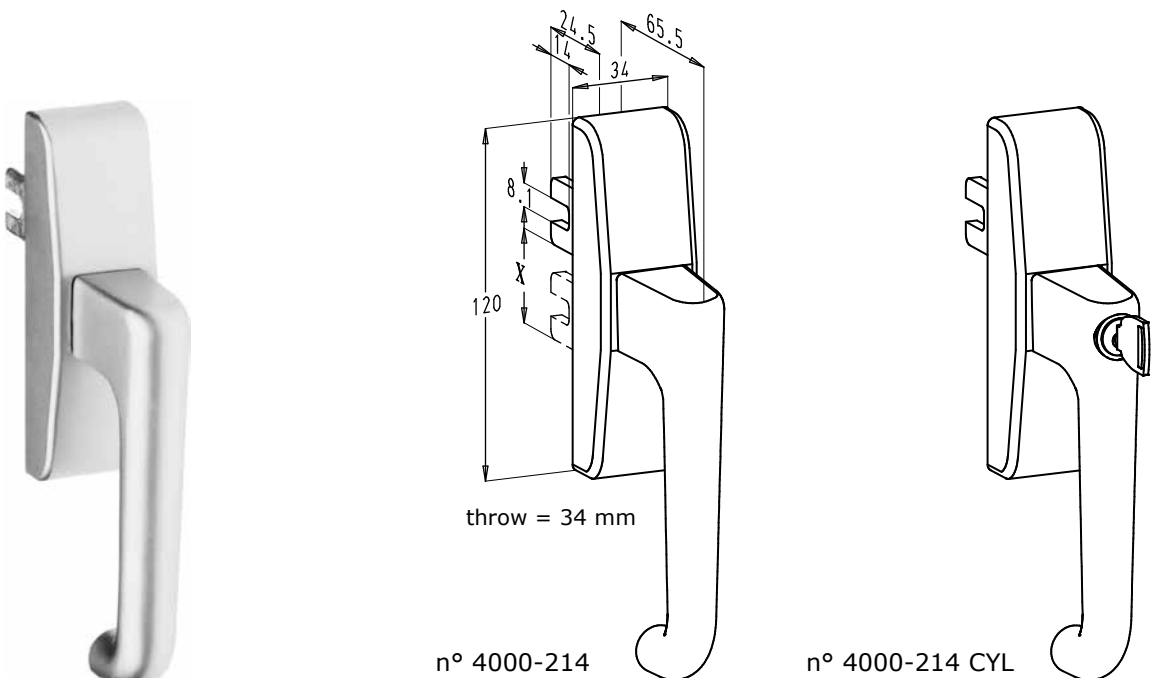


Handle n° 4000-215 and n° 4000-215 CYL



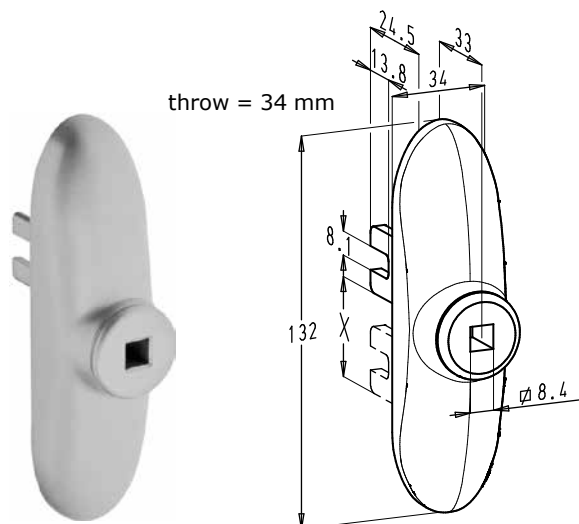
- The same handles can be used for both side hung and turn-tilt windows. Both window types can be used next to one another with the advantage of having the same appearance.
- Finish: grip and base in aluminium anodised or polyester powder coated (more than 450 RAL colours).
- The cylinder locking handle can be locked in closed and tilt position.
- Fixing holes see page A12.11.11.

Handle n° 4000-214 and n° 4000-214 CYL

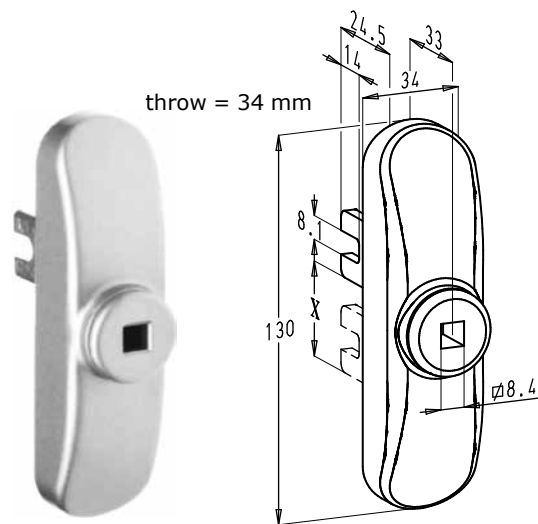




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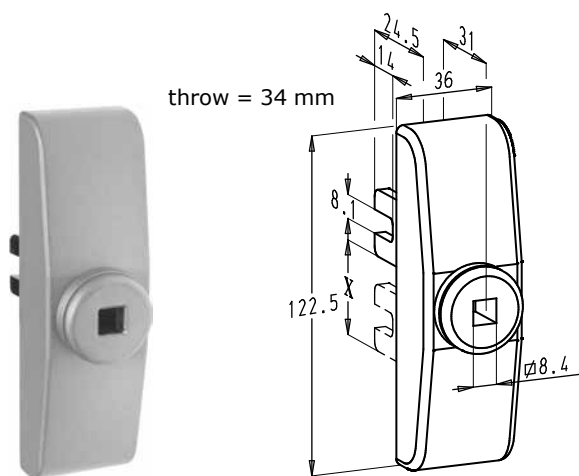
Handle n° 4000-219V, -217V, -215V and loose grip n° 505

n° 4000-219V

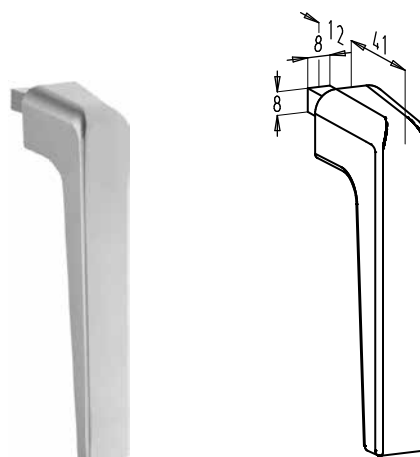


n° 4000-217V

- The same handles can be used for both side hung and turn-tilt windows. Both window types can be used next to one another with the advantage of having the same appearance.
- Finish:
 - handle n° 4000-219V and -217V in zinc alloy, always polyester powder coated (more than 450 RAL colours).
 - handle n° 4000-215V and loose grip n° 505 in aluminium anodised or polyester powder coated (more than 450 RAL colours).
- The handle can be operated by loose grip n° 505 or, in case of fire, the square pointed end of a fireman's axe.
- Fixing holes see page A12.11.11.
- This is especially suitable in places where only authorized persons can open the windows, but in case of fire a fireman's axe can also operate the handle.



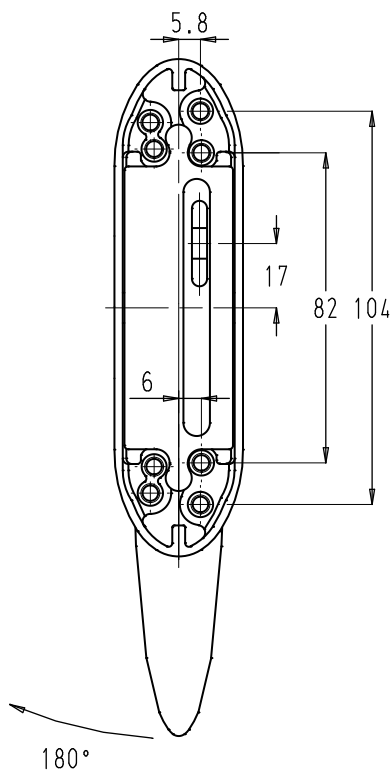
n° 4000-215V



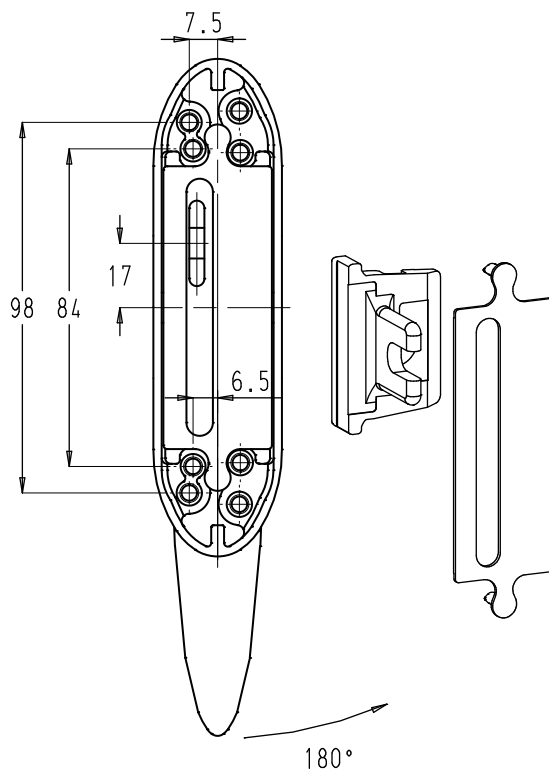
n° 505



6.2. 'S' handle



Standard handle

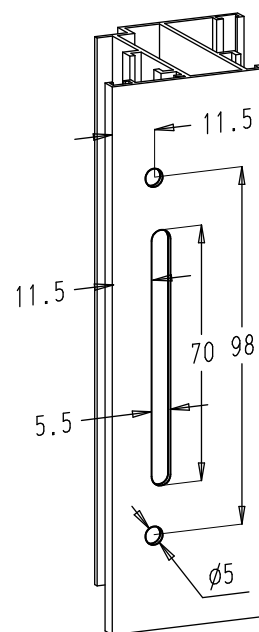
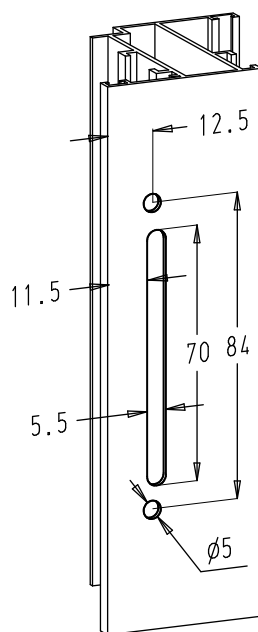
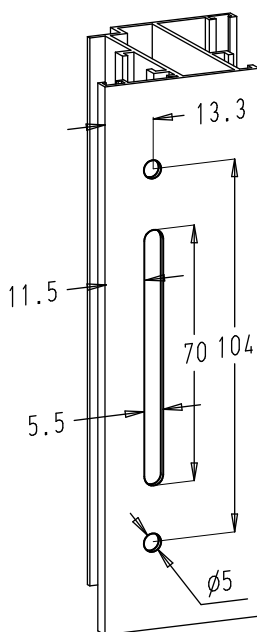
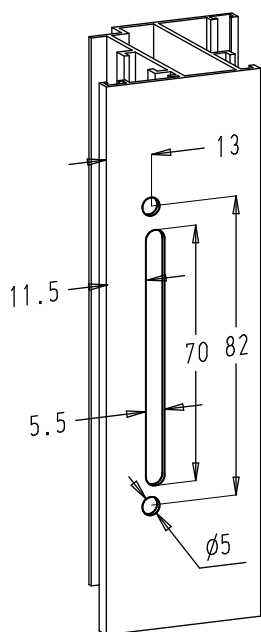


'S'-handle

6.3. Handle preparation

Standard handle

'S'-handle

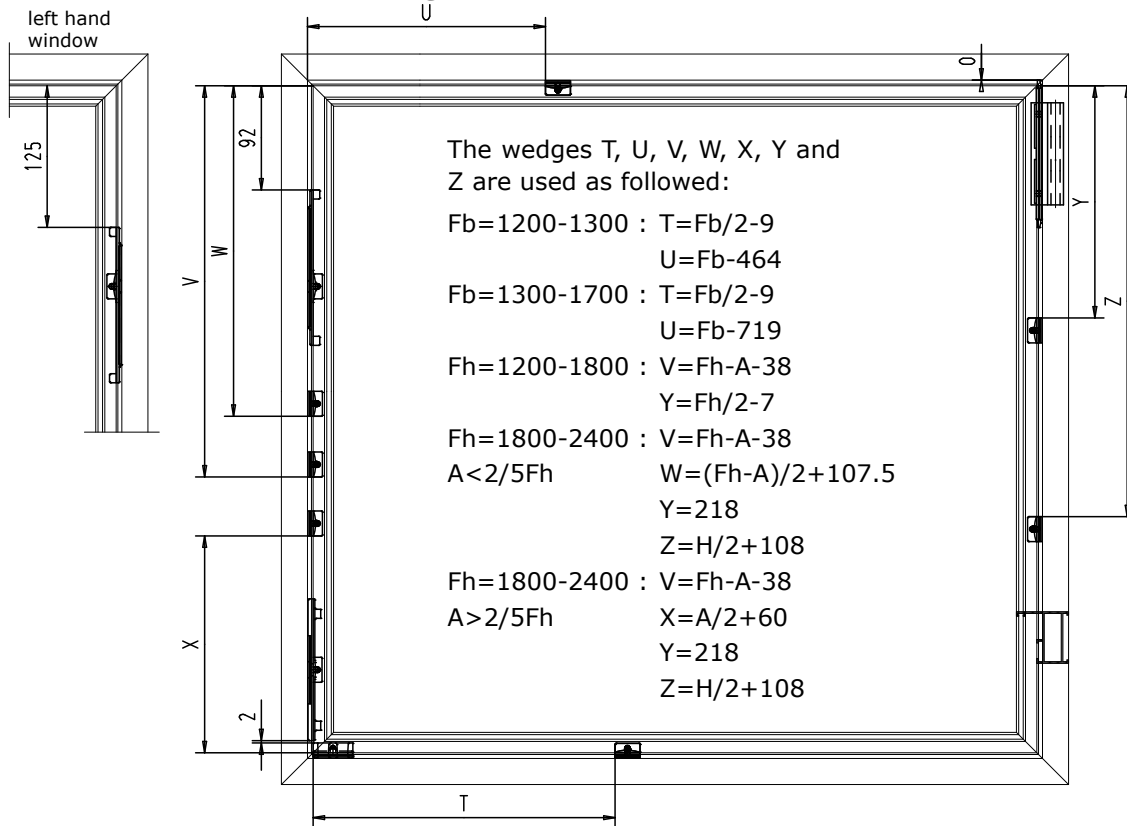


- A drilling jig n° 4000-396 is available for the handle cut-outs.



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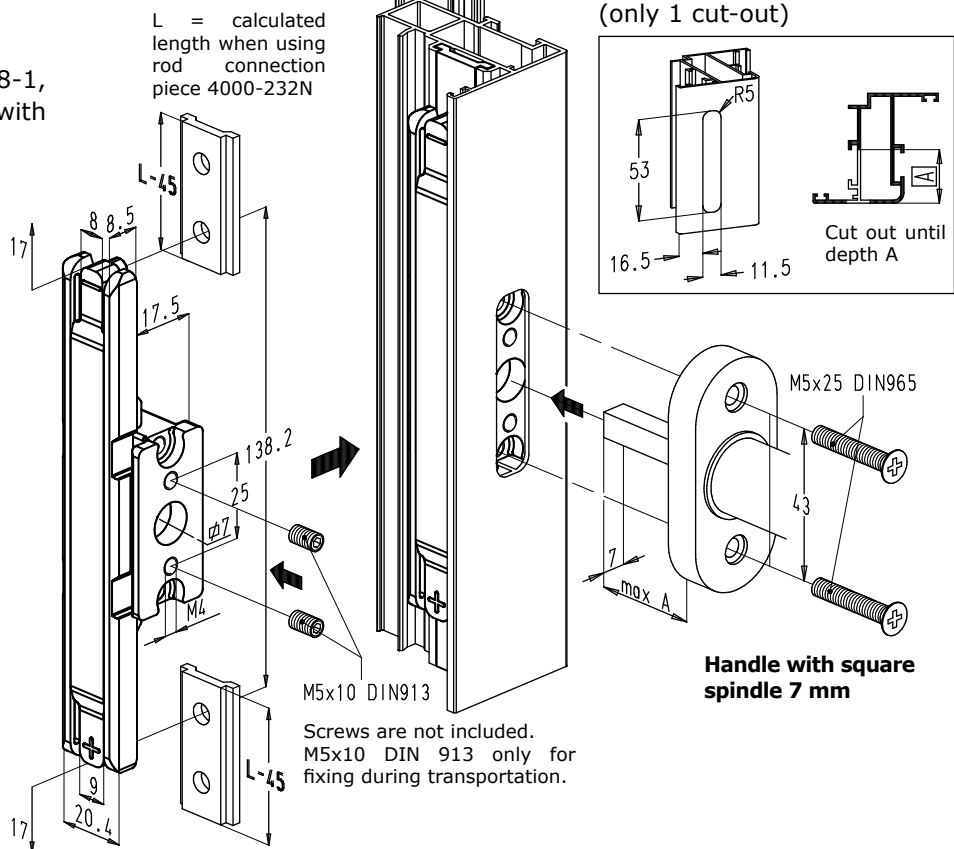
7. Position of the wedges



8. Lockcase n° 4000-208-1

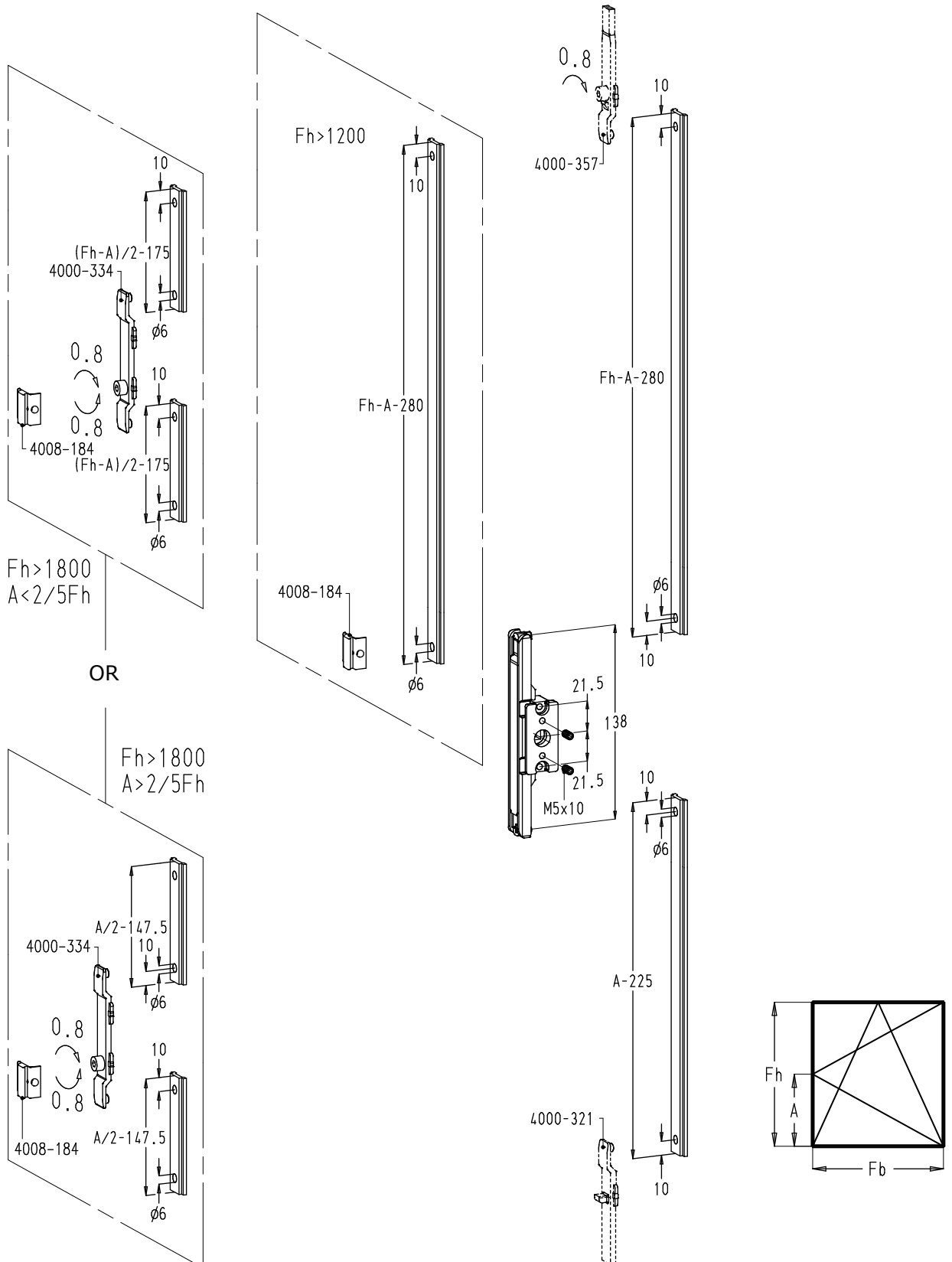
General

- Lockcase n° 4000-208-1, operated by a handle with square spindle of 7 mm.
- The lock can also be operated by the Sobinox handles in stainless steel. See chapter A11.15.
- The lockcase is made entirely of non-corroding materials.
- The installation is only possible for vent heights over 590 mm.





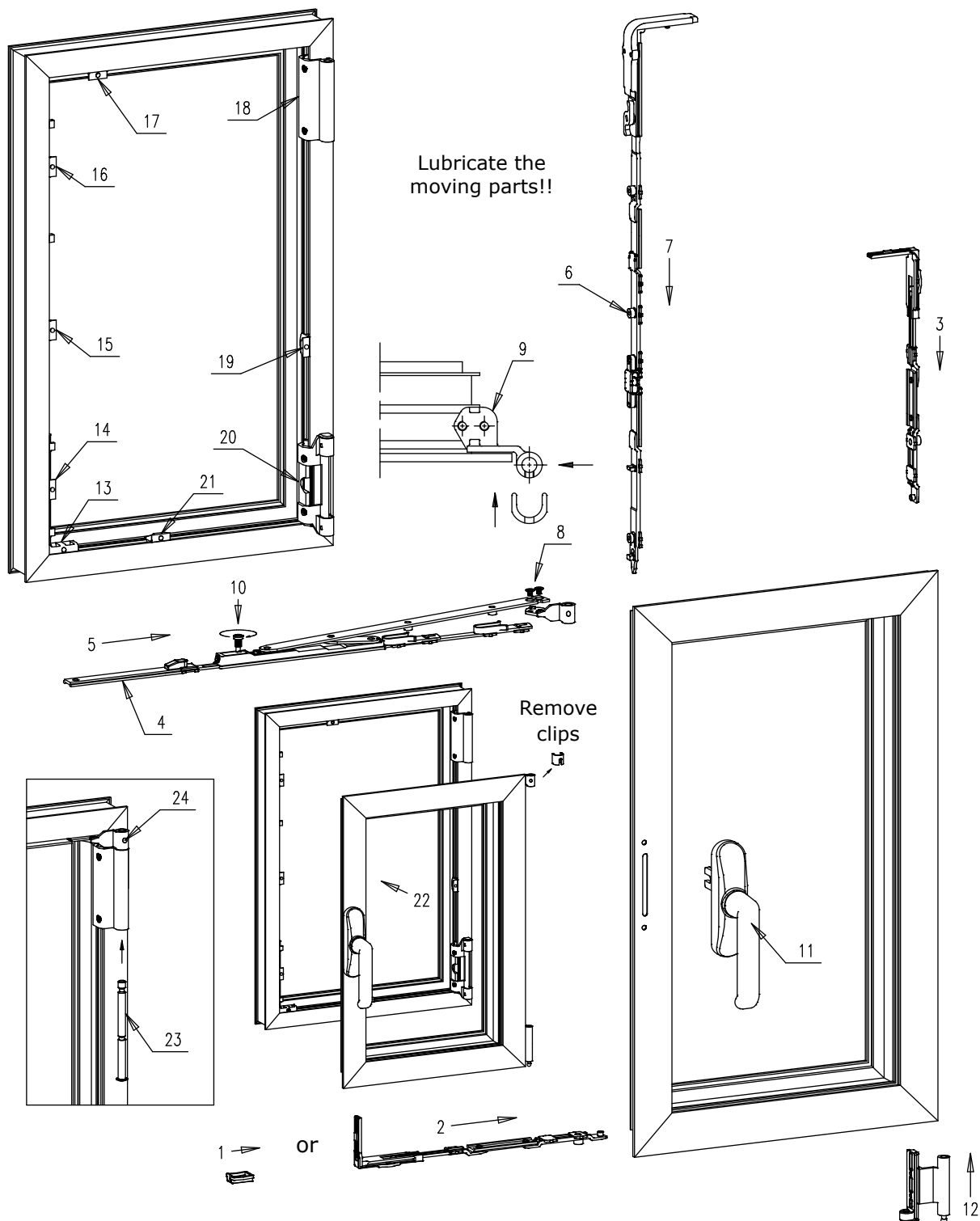
Rod dimensions





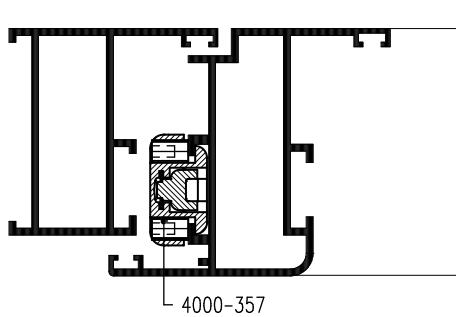
9. Installation instructions

- Steps n° 2, 4, 17 and 21 only for vents over 1200 mm wide.
- Steps n° 3, 6, 15 and 19 only for vents over 1200 mm high.
- For windows with vent height between 1800 and 2400 mm end piece n° 4000-334 must be put in with steps n° 3 and 7 and fit 2 additional wedges on the frame.
- For reinforcement set n° 35140-790, see page A12.11.07.

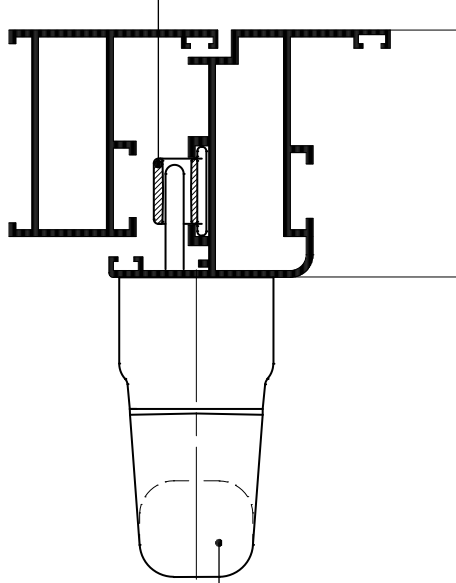




10. Application examples

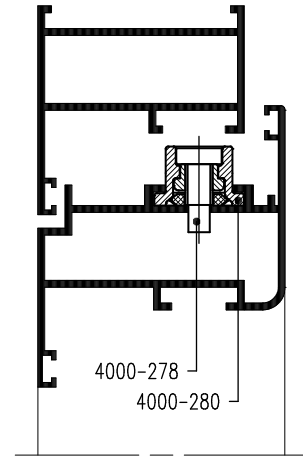


4000-357

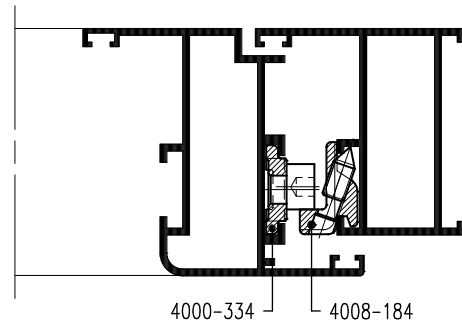


4000-232N

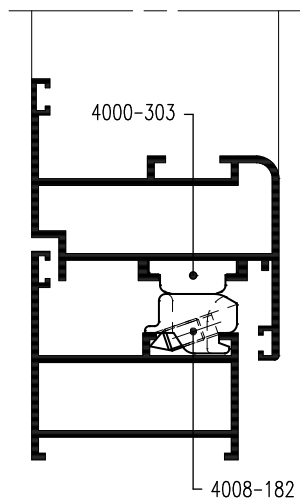
4000-217



4000-278
4000-280

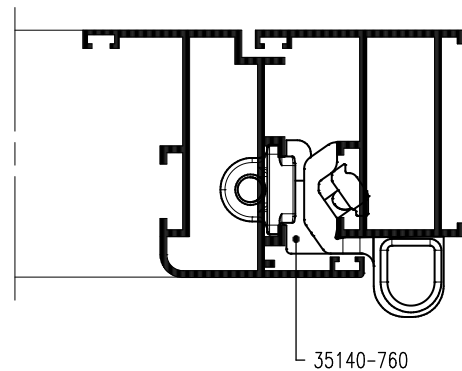


4000-334 4008-184



4000-303

4008-182

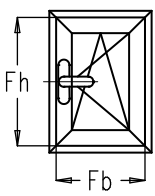


35140-760



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11. Ordering table

	Fb=400-445	Fb=445-600	Fb=600-1200	Fb=1200-1300	Fb=1300-1400	Fb=1400-1700
Fh = 500-530	4000-217 + 4008A + 907-230 + 4000-281	4000-217 + 4008A + 907-230	4000-217 + 4008B + 907-230	/	/	/
Fh = 530-1200	4000-217 + 4008A + 4000-281	4000-217 + 4008A	4000-217 + 4008B	4000-217 + 4008B + 4008-30N	4000-217 + 4008C + 4008-30N	4000-217 + 4008C + 4008-30N + 35140-790
Fh = 1200-1800	4000-217 + 4008A + 4000-281 + 4008-30N	4000-217 + 4008A + 4008-30N	4000-217 + 4008B + 4008-30N	4000-217 + 4008B + 2x 4008-30N	4000-217 + 4008C + 2x 4008-30N	4000-217 + 4008C + 2x 4008-30N + 35140-790
Fh = 1800-2400	/	/	4000-217 + 4008B + 4008-30N + 4008-31	4000-217 + 4008B + 2x 4008-30N + 4008-31	4000-217 + 4008C + 2x 4008-30N + 4008-31	4000-217 + 4008C + 2x 4008-30N + 4008-31 + 35140-790
For windows from 90 kg to 130 kg: + reinforcement set n° 35140-790						
window stay	35140-901	35140-901	35140-902	35140-902	35140-903	35140-903

Order example:

A turn-tilt window with overall vent width (Fb) 1450 mm and overall vent height (Fh) 1600 mm in which glass has a thickness of 16 mm and a weight of 40 kg/m².

Note: to determine the precise vent weight see next page.

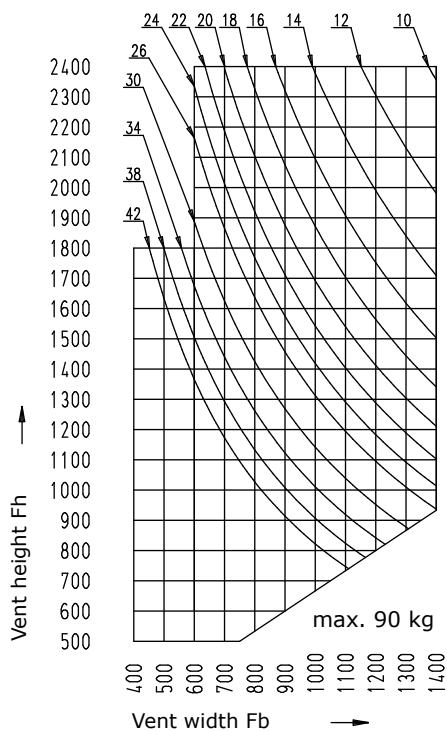
Fittings to order:

- 1x 4000-217
- 1x 4008C
- 2x 4008-30N
- 1x 35140-790
- 1x 4008-360
- 1x 35140-903



12. General information

- The SALTO 4008 turn-tilt system can be used within the Fh/Fb sizes and weight limitations indicated on the chart below. The ratio of the dimensions Fb/Fh must not exceed the value of 1.5. The handle height should not be less than 1/3 of the vent height. Technical advise should be sought when the sizes of your window are not shown in the chart.
- In schools and in other places where safety is important, we advise a window stay n° 35140-901, -902, -903 and a handle with cylinder.
- Alternatively install a SALTO 4108 tilt-turn system with a turn lock handle. The advantage of this system is that the locked handle can operate the window from closed position to tilt position, for ventilation. The turn position can only be obtained by unlocking the handle.
- For heavy, wide windows and especially for vents over 1400 mm wide an additional arm is recommended for good stability of the window in the tilt position.
- The SALTO 4008 turn-tilt system is made of non-corroding materials. The set should not be installed in corrosive atmospheres.
- Sobinco cannot be held responsible for the malfunctioning of the SALTO system if any non-Sobinco parts are used.
- All parts must be assembled according to the instructions as described in previous pages.
- Surface treatment of vent and frame must take place before assembly of the set, as this will affect the working of the gear.
- Glazing must be in accordance with national standards.
- The window and gear should be kept clean and lubricated in accordance with our maintenance instructions (copy available on request).



Glass thickness without air gap	
mm	kg/m ²
10	25
12	30
14	35
16	40
18	45
20	50
22	55
24	60
26	65
28	70
30	75
32	80
34	85
36	90
38	95
40	100
42	105

