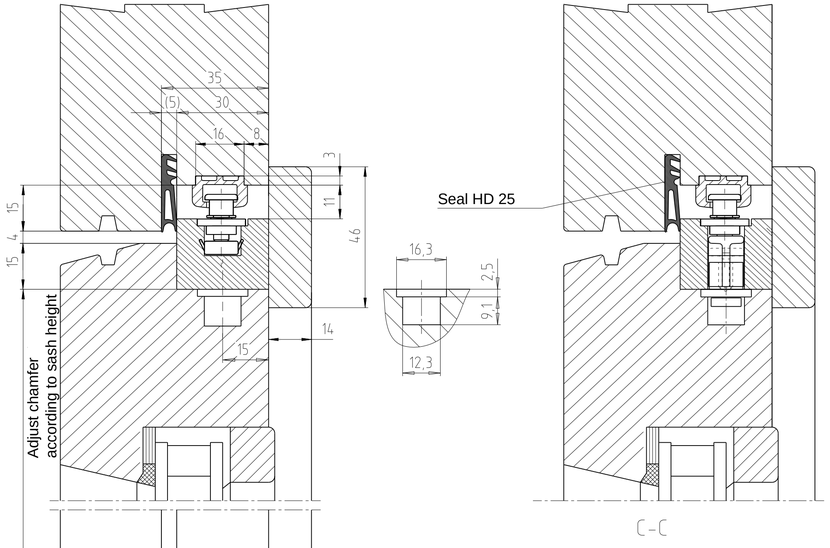
TORNADO 9
68 mm timber thickness
35 mm rebate depth
with seal HD 25



Profile
The rebate rails and cover rails are mounted one after another.
Euro groove in the sash profile is 120° - 360° all around the perimeter
(or 0° - 360°) and 270° - 90° all around the perimeter in the "top" rebate rail.

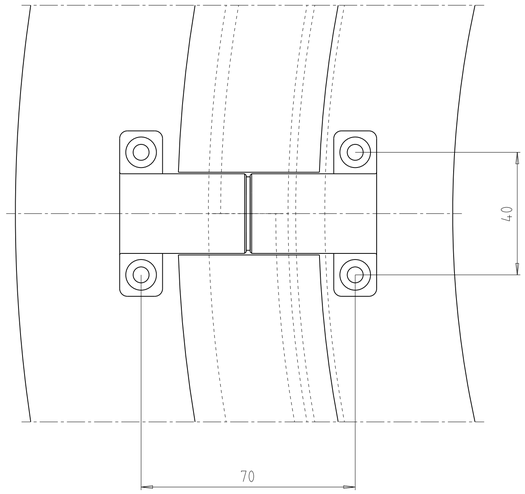
Gear
Milling and drilling template for the gear in the sash profile
has to be machined according to drawing section X.

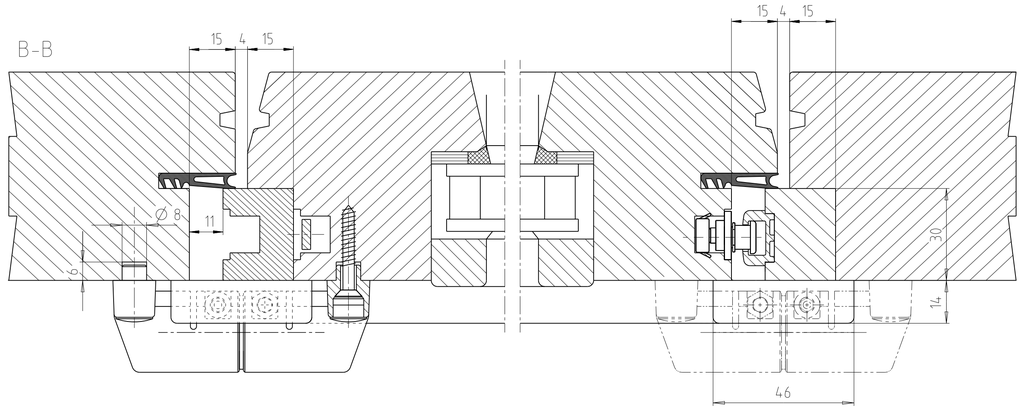
Pivot hinge
with frame bearing supports Ø 8 x 5 mm to screw it onto the sash/frame
in correct position (see section B-B).
Holes for frame bearing supports to be drilled Ø 8 x 6 deep into the sash
and frame profile. Center pivot hinge = center window.

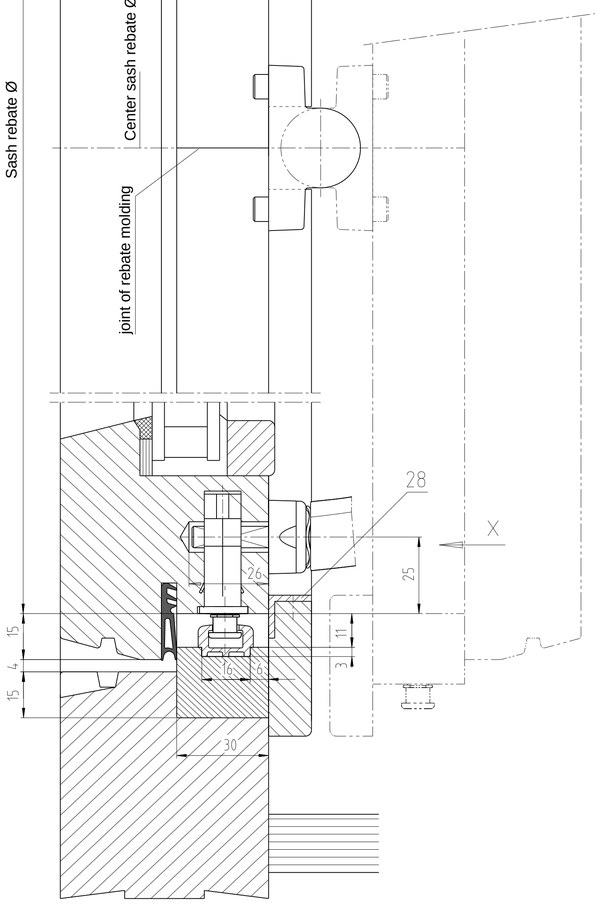
Top coupling
Apply mill for the coupling in the rebate rail according
to diagram (see coupling cut-out C).

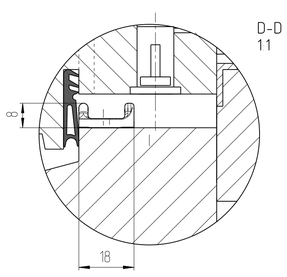
Strikers
Position of the strikers can vary (see other page, size 1 - 3).

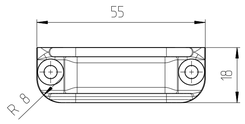
Edge protection
Insert the edge protection in the bottom cover rail (see section A-A, Pos. 28).

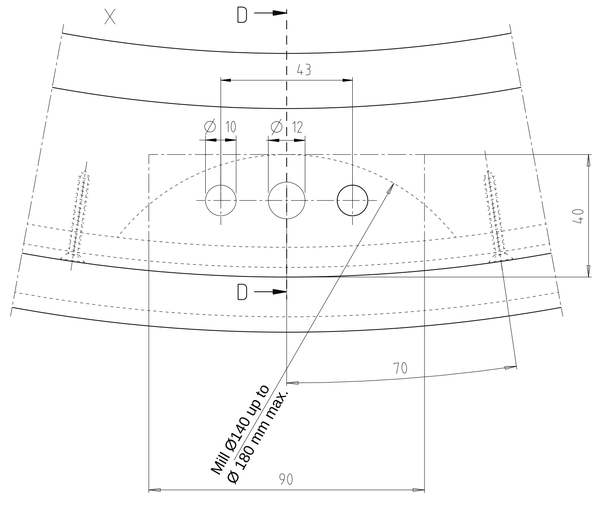


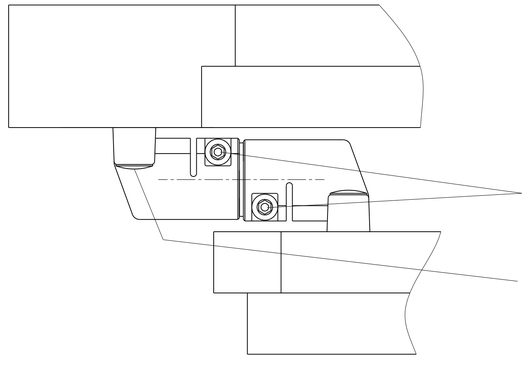












Brake adjustment
After glazing adjust the pivot hinge brake with the hinge in the open position.
Tighten screw of frame bearing support (fixed side).

Adjust the sash bearing support screw according to the sash weight until the sash remains in each opening position, as long as the sash will not be moved.

Attention - Version with cover bar (46 x 14): with the hinge in the open position, both screws have to be accessible from the top (frame and sash side).

Disassembly of the sash
Remove fixing screws of the frame bearing supports.
Remove sash with hinge completely.

Schutzvermerk
ISO 16016 beachten

Drawing TNDO 09 11 mm RD URZ
Assembly instr. pivot sash for timber IV68
window construction with sealing

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Zchng.-Nr 244063 Z01
Rev
Format A1

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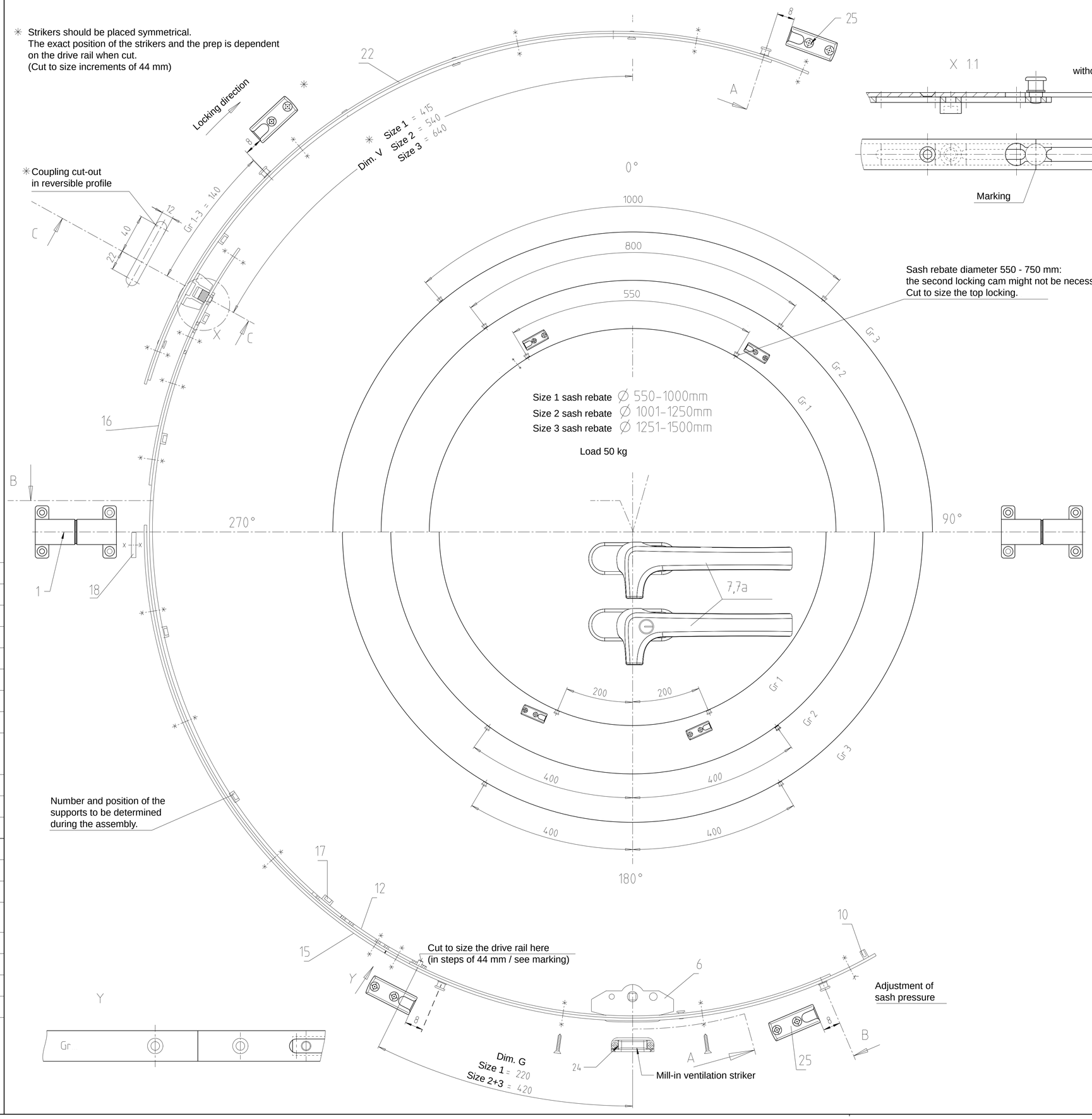

Hardware assembly

In general:
The individual parts come in fixed in the center position.
Assemble the central locking ZV16 in a clockwise direction. For ease of installation, bend the cover and drive rails according to the sash rebate diameter with pivot hinges already mounted.

1. Gear (Pos. 6):
Install and attach the gear, just remember the outer screw on the left side has to be fixed after the coupling of the drive rail (Pos. 12) to the gear drive rod.

2. Drive rail (Pos. 12): Cut to size and assemble:
Mark dimension G and V on the sash. Put the drive rail (Pos. 12) on the sash rebate diameter and the center of the locking cam on the marking "V". Marking "G" is determining the length of the drive rail. Cut to size at the designated marking. Add support parts (Pos. 17) to the drive rail.
Slide the drive rail from the top behind the left pivot hinge (Pos. 1) and couple it at the bottom with the bolt of the gear drive rod. Screw in the last gear screw.

3. Bottom cover rail (Pos. 15):
The faceplates of the gear and extensions need to be butted up tight against each other. (See section “Y”) The lay-on side is marked with the size, for example Gr.1/Size 1. The faceplate has to be placed behind the top rebate rail. If this is not possible the faceplate is fastened with the clip (Pos.18).

4. Top cover rail (Pos. 16):
Cut the drive rail to size. Total length = dimension from locking cam up to the sash center at the most.
Attach the rail and slide it under the locking cam right to the marking (see detail X) and screw tight.

5. Reversible profile:
Apply top rebate rail (up to the center). The position of the prep for the coupling of the top locking is determined by the locking cam of the drive rail (Pos. 12). Mark the center of the cam. Mill the dimensions according to the drawing. Screw the rebate rail.
Version with cover bar: apply top and bottom cover bar up to the pivot hinge.
The distance from cover bar to pivot hinge should be approximately 1 mm short to avoid damage to the finish when pivoting.

6. Top locking (Pos. 22):
Insert the top locking into the eurogroove of the reversible profile.
Attention: Coupling has to enclose the locking cam.

7. Strikers (Pos. 25)
Mount strikers in the frame according to the dimensions referenced on this page.
Attention: Observe the cam movement in clockwise direction and the position of the strikers (see detail drawing Y).

8. Handle (Pos. 7, 7a):
Screw on the handle. Attention: Install the handle in the open position. The handle should be upright. When you operate the handle for the first time you will shear-off the center fixing pieces.

9. Sash pressure:
Adjust the sash pressure (sealing pressure) with a 3 mm Hex wrench in the locking cams.

Pos.	Piece	Description	Package group	Pivot hinge	Handle	Striker	Gear	Locking
1	2	Pivot hinge TNDO		✳				
6	1	Gear					✳	
7	1	Handle with fixing screw			✳			
7a	1	Lockable handle with fixing screw			✳			
10	1	Filler piece				✳		
12	1	Drive rail					✳	
15	1	Cover rail bottom					✳	
16	1	Cover rail top						✳
17	6	Support piece				✳		
18	1	Clip						✳
22	1	Locking top						✳
24	1	Ventilation striker				✳		
25	4	Striker				✳		
28	1	Edge protection			✳			

Drawing TNDO 09 11 mm RD URZ
Assembly instr. pivot sash for timber IV68 window construction with sealing

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Schutzvermerk ISO 16016 beachten