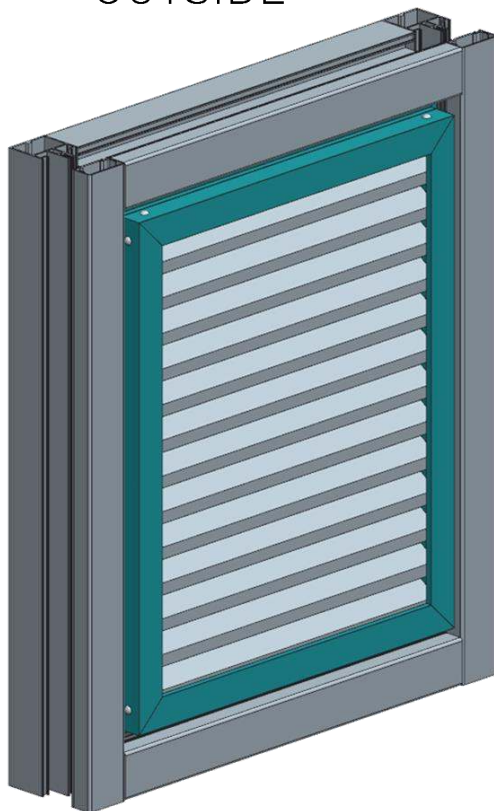


Fitting instructions

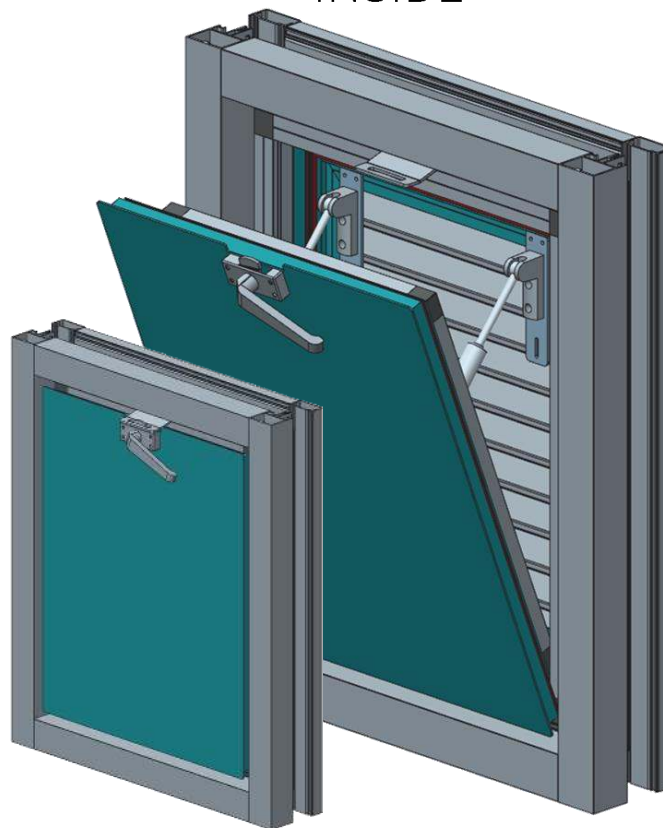
DucoGrille NightVent Manual

12/09/2023

OUTSIDE



INSIDE

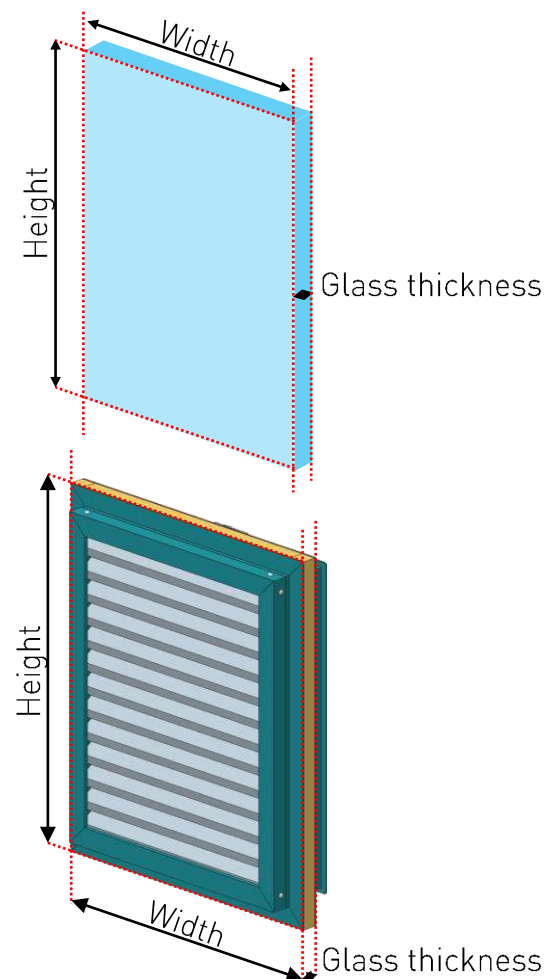
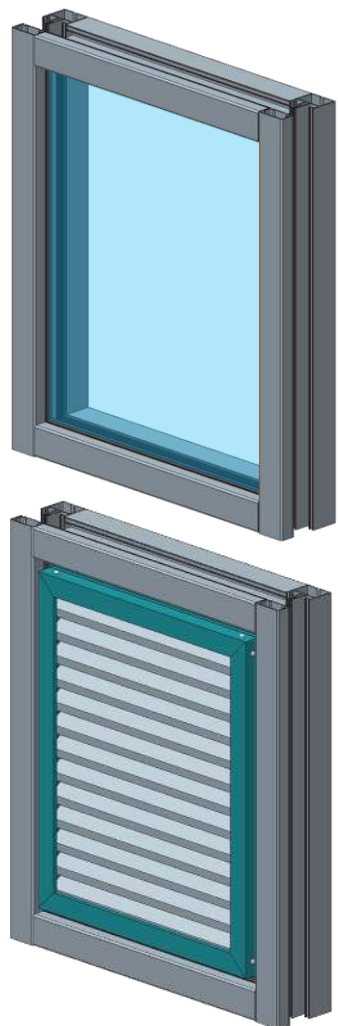


CONTENT

1. Principle
2. Width and height
3. Installation
4. RC2 burglar-proof installation
5. Positioning
6. Ventilation

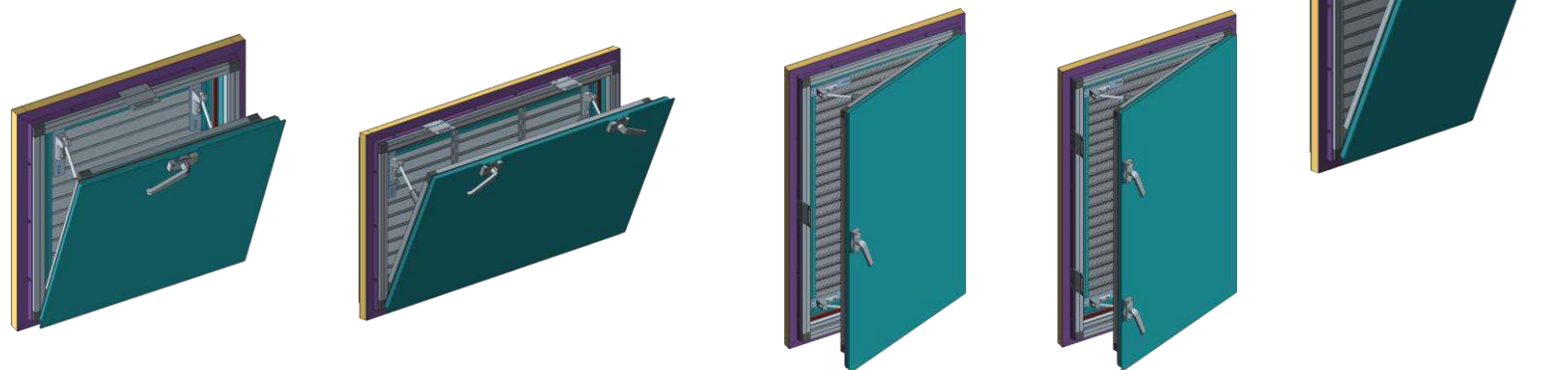
1 Principle

DucoGrille NightVent can be fitted to any window section (PVC/ALU/wood) or façade section as a GLASS SUBSTITUTE.

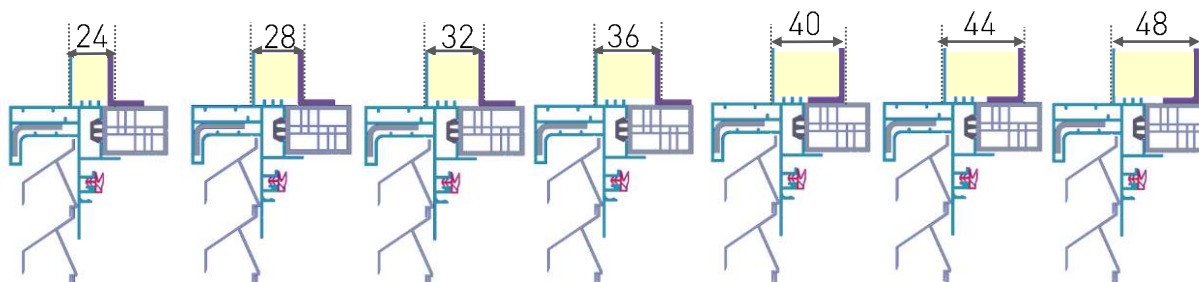


Width and height are free to choose from the table on the next page (pitch per mm).

Depending on the chosen dimensions, another type of pump and/or another quantity of levers will be used. As soon as width or height is > 1m, the NightVent will get two levers.



DucoGrille NightVent is available in the following glass thicknesses (mm)



Hinge side left/right				
		WIDTH		
		400-499	500-599	
HEIGHT	350 - 399	59	34	
	400 - 499	59	34	
	500 - 599	59	34	
	600 - 699	59	34	
	700 - 799	59	34	
	800 - 899	59	34	
	900 - 999	59	34	
	1000 - 1099	59	34	
	1100 - 1199	59	34	
	1200 - 1299	59	34	
	1300 - 1399	59	34	
	1400 - 1499	59	34	
	1500 - 1599	59	34	
	1600 - 1699	59	34	
	1700 - 1799	59	34	
	1800 - 1899	59	34	
	1900 - 1999	59	34	
	2000 - 2099	59	34	
	2100 - 2199	59	34	
	2200 - 2299	59	34	
	2300 - 2399	59	34	
	2400 - 2500	59	34	

[illegible]

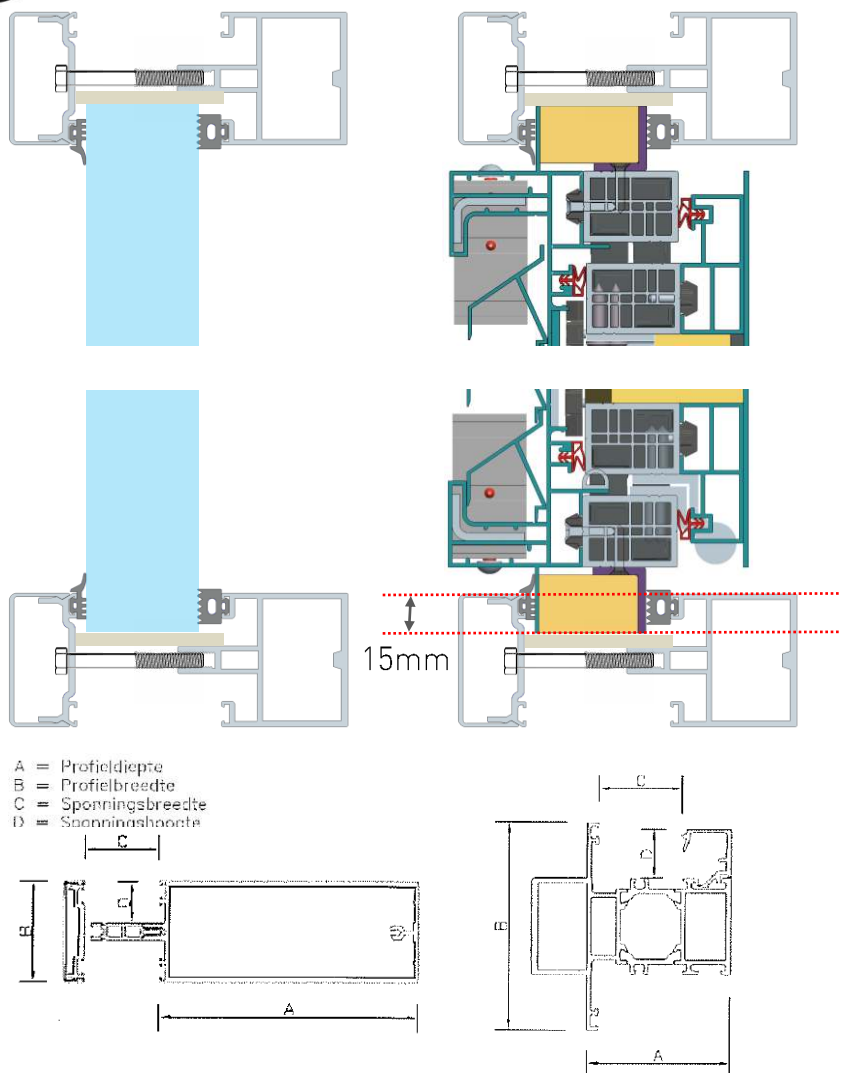
Number in cells represent the opening angle

	Handle at 1/2 of HEIGHT
	Handles at 1/4 and 3/4 of HEIGHT

	not possible
	Handle at 1/2 of WIDTH

Handles at 1/4 and 3/4 of WIDTH if HEIGHT<WIDTH or handles at 2/3 height left and right if HEIGHT≥WIDTH

	Handles at 1/4 and 3/4 of WIDTH
	Handles at 2/3 height left and right



(Just like glass,) DucoGrille NightVent is mounted in the rebate of the window or façade profile - principle of sealing profiles (dry glazing).

Fitting is best done after mounting the windows in the shell. Depending on the dimensions and façade type, one may consider installing the DucoGrille NightVent in the workshop.

Key points:

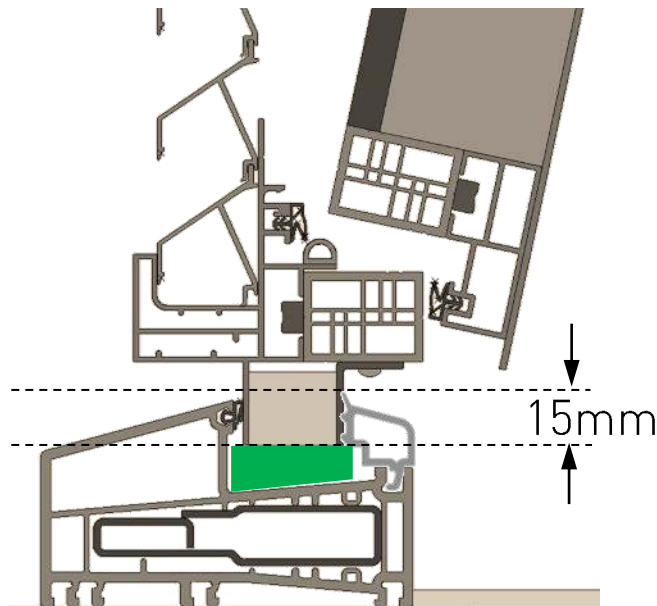
- The corners should be tightly sealed.
- The joints should exert a pressure on DucoGrille NightVent between 0.5 and 1.5kN per metre.
- Correct positioning of the "glass" supports is important, see next page.
- Unlike glass, the DucoGrille NightVent is not flat, but is stepped on the inside and outside. This greatly reduces the space to mount a glazing bar or joint. This may require some extra dexterity/craftsmanship for specific types of window profiles. Tip: use a flat wooden or plastic spatula to push the snap frame and/or joint into place.
- There are some additional requirements for an installation that is burglary-resistant (RC2): see slide 7, 8 and 9.

A DucoGrille NightVent of 1m² weighs 38 kg (43 kg if the "burglary-resistant" option is selected).

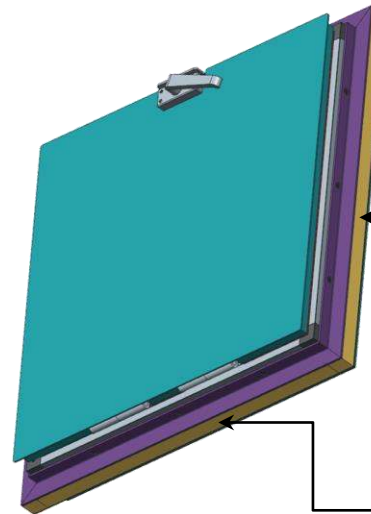
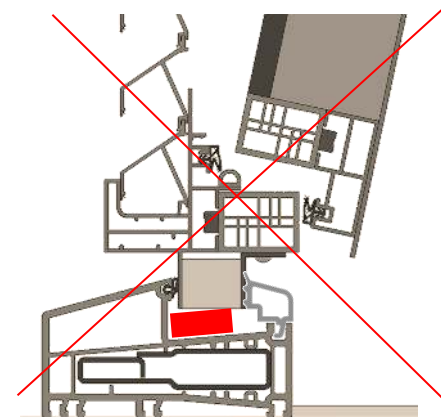
For larger dimensions, extrapolation always gives you a weight on the safe side.

When mounting, provide suitable material.

It is very important for the glazing blocks (support blocks, adjusting blocks and spacers or backfilling) to be positioned accurately. Ensure that the DucoGrille NightVent sits approximately 15mm inside the channel. Caution: If the DucoGrille NightVent is placed too far inside the channel, problems can arise when the shutter is opened.



Be very careful when placing the support blocks. These should be wider than the thickness of the glass so that the DGNV is worn across the full width.



At the side and top, ensure that the support blocks are never spaced over 500mm. With small shutters there is a minimum of 2 support blocks per side.

At the bottom, make sure that there is at least 1 block per hinge. For larger shutters or shutters with hinges on the side, a block must be placed each 500mm.

Follow the frame or curtain wall manufacturer's instructions precisely!

To ensure the burglar-proof resistance of the whole, DucoGrille NightVent (Option RC2) installed in a curtain wall section or window profile, this curtain wall or window profile must also be burglary-resistant at least Class 2.

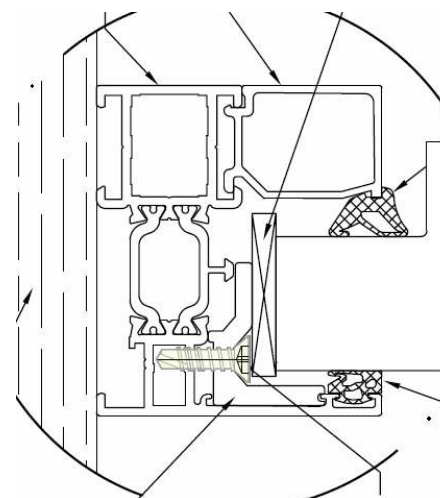
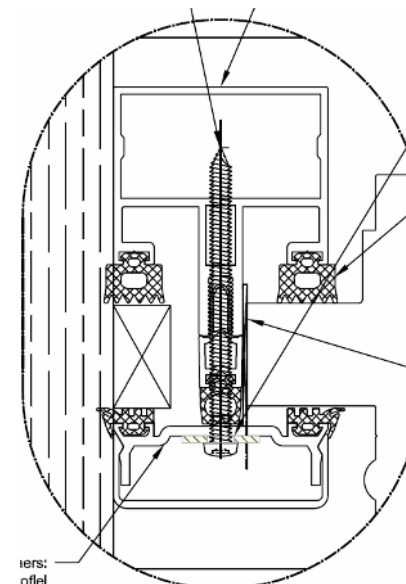
Follow the manufacturer's installation instructions carefully.

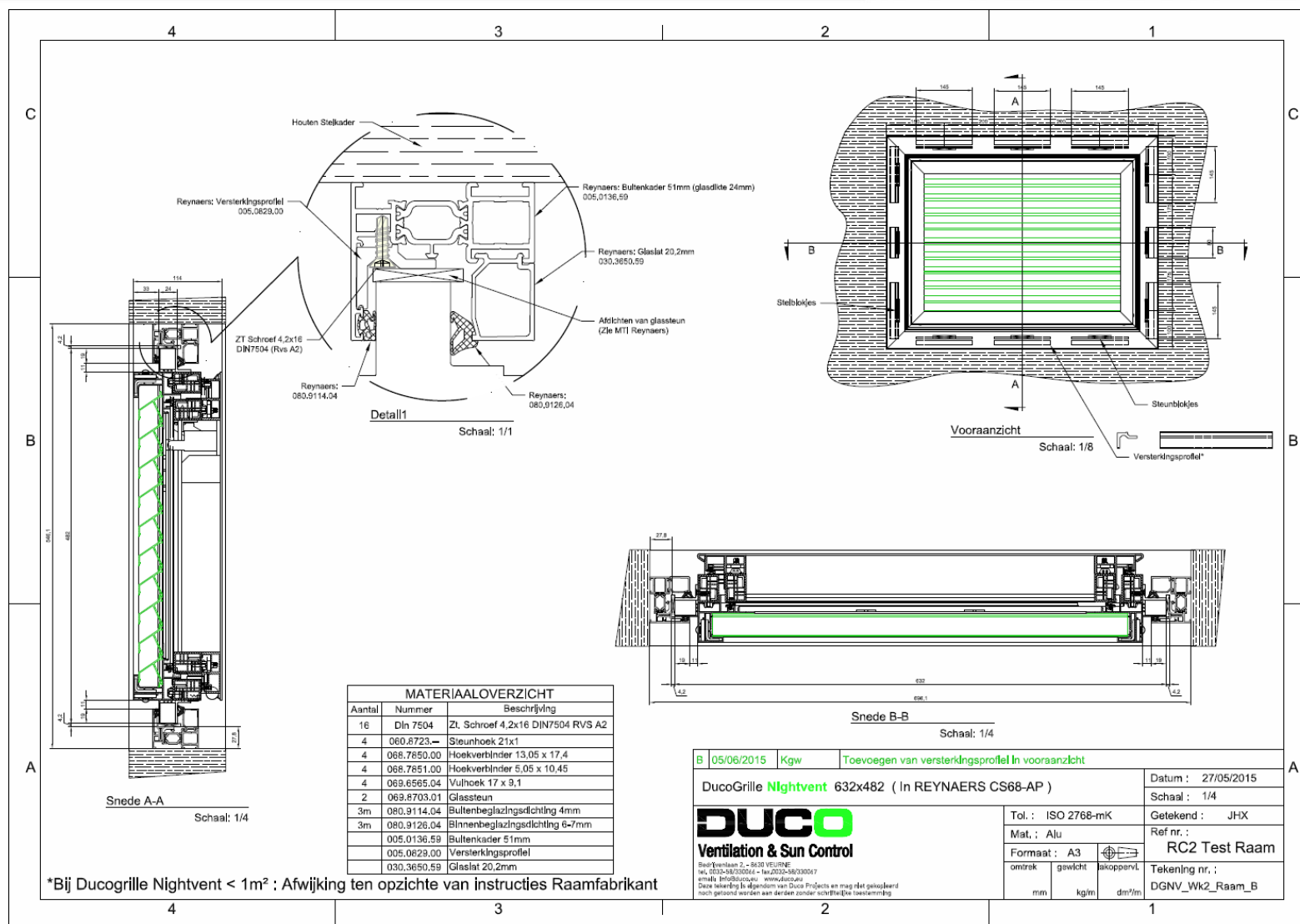
An example of Reynaer's profiles can be found on the next 2 pages.

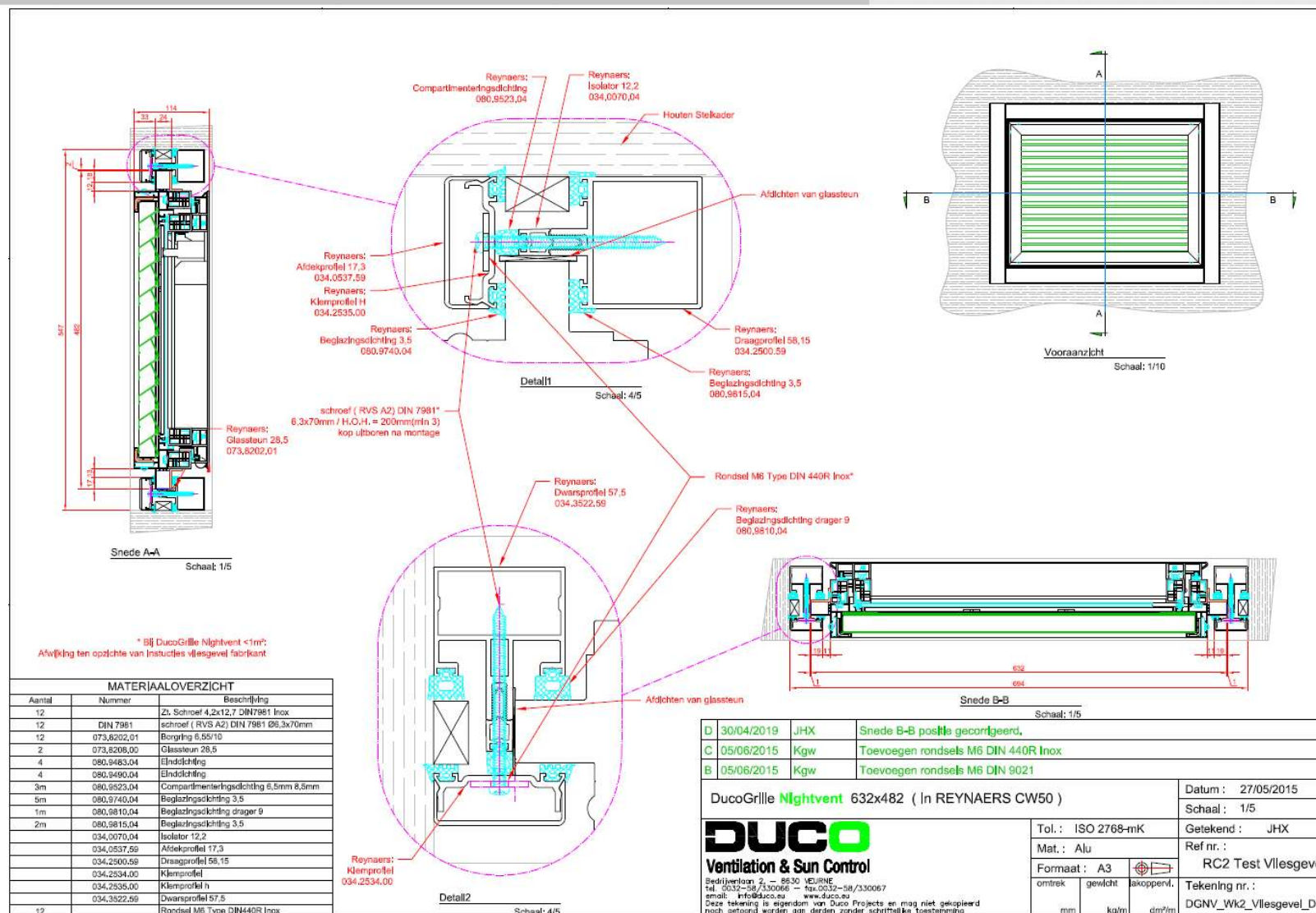
Please note when installing a DucoGrille NightVent with a surface area of less than 1m². In that case there are some variations due to the instructions of the curtain wall or window profile manufacturer. See also the drawings on the next pages.

In this case, when mounting the curtain wall, use long screws to secure through the chambers of the curtain wall profile. Take a sturdy SS A2 screw with minimum diameter 6.3mm. Choose for screws with a burglary-proof head or drill out the head of the screws after assembly. Also use inox washers M6 type Din 440R.

For window profiles, use the reinforcement profiles as prescribed and delivered by the window manufacturer. Place at least 3 on each side and attach with 4.2x16 DIN 7982 screws.



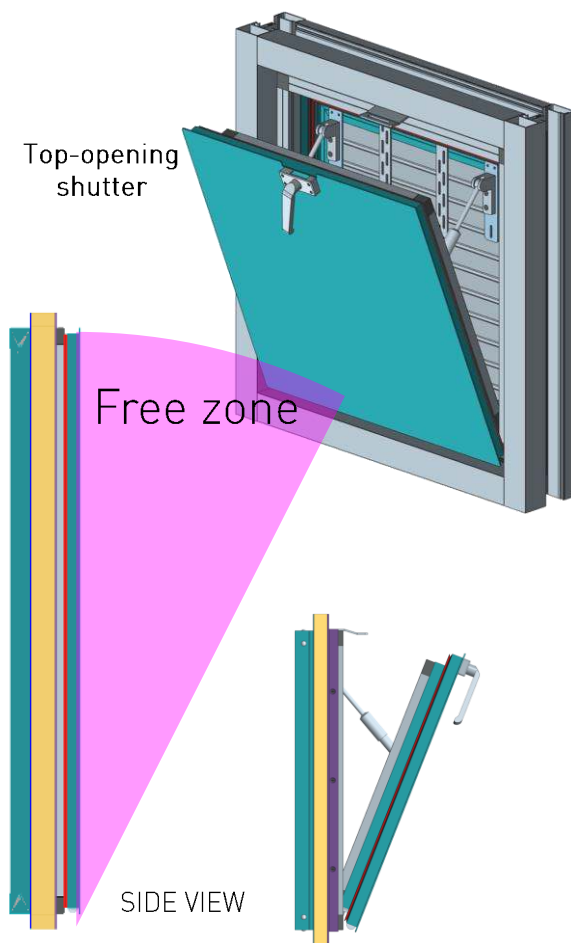




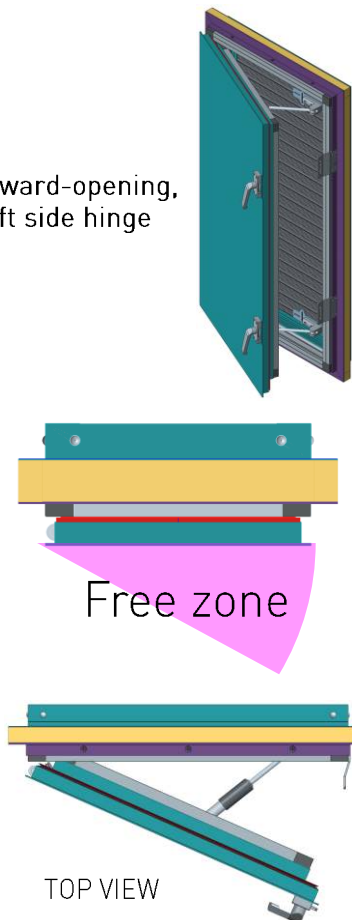
5

Positioning

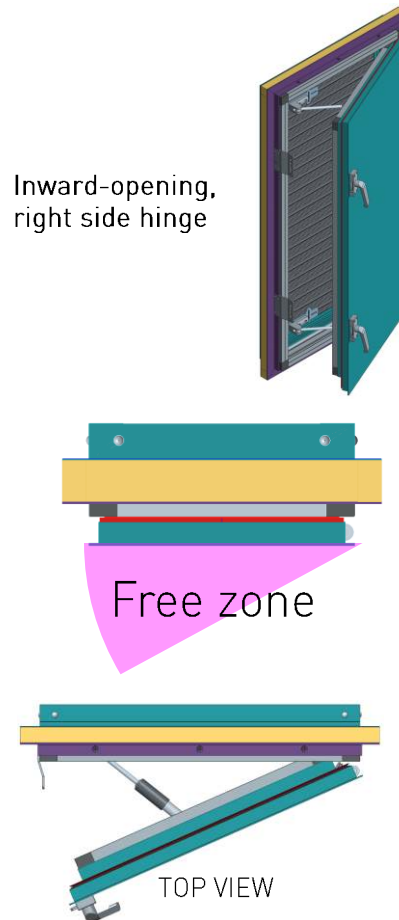
Ensure that the area on the inside of the DucoGrille NightVent is clear to allow the shutter to rotate. Remove all obstructions and inform the end-user of the positioning of interior elements etc. Keep in mind the height of the levers, this height can increase and become unreachable if the NightVent is placed high.



Inward-opening, left side hinge



Inward-opening, right side hinge



CAUTION:

When a window or façade section is used with a very large profile depth, air supply may be greatly reduced. Take this into account when calculating the required ventilation surface area.

