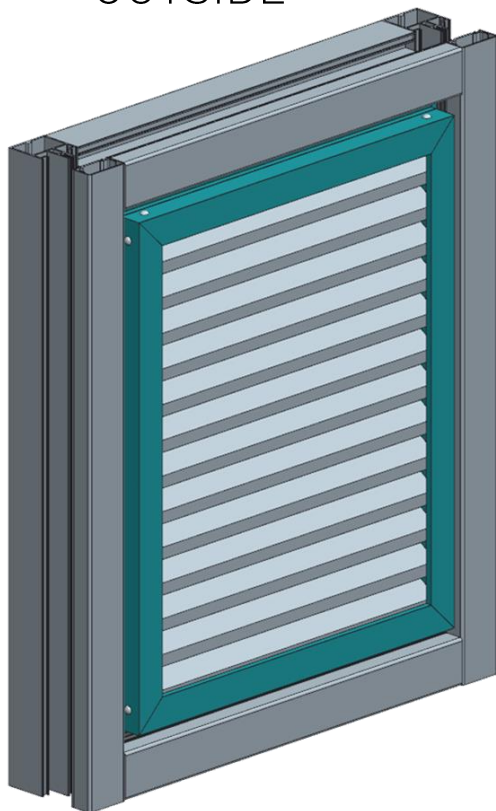


Fitting instructions

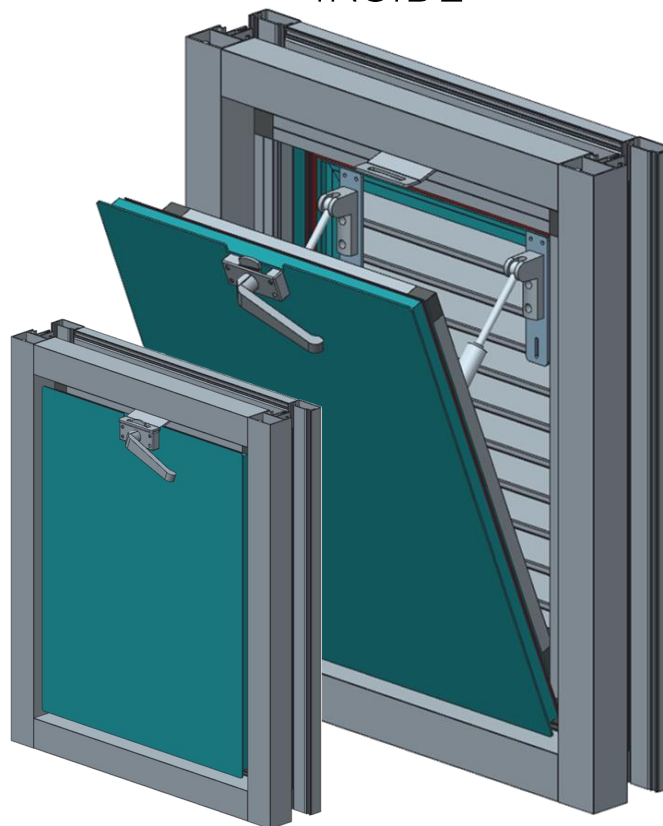
DucoGrille NightVent Manual

12/09/2023

OUTSIDE



INSIDE

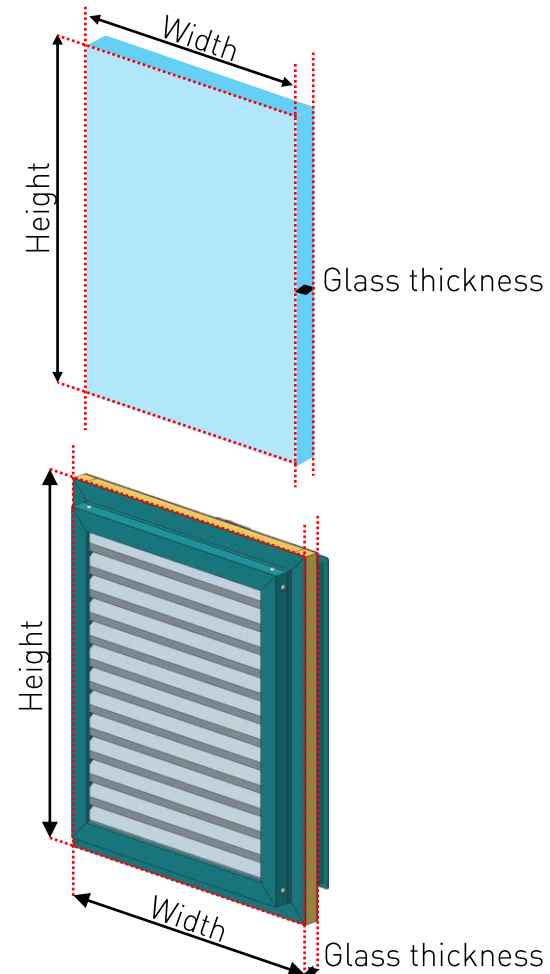
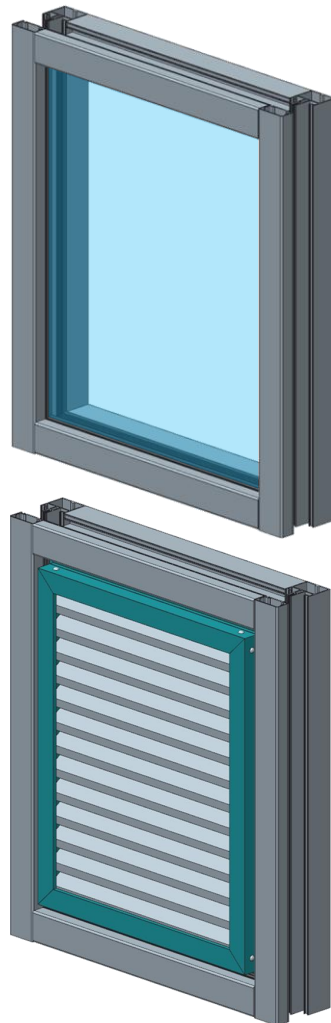


CONTENT

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.

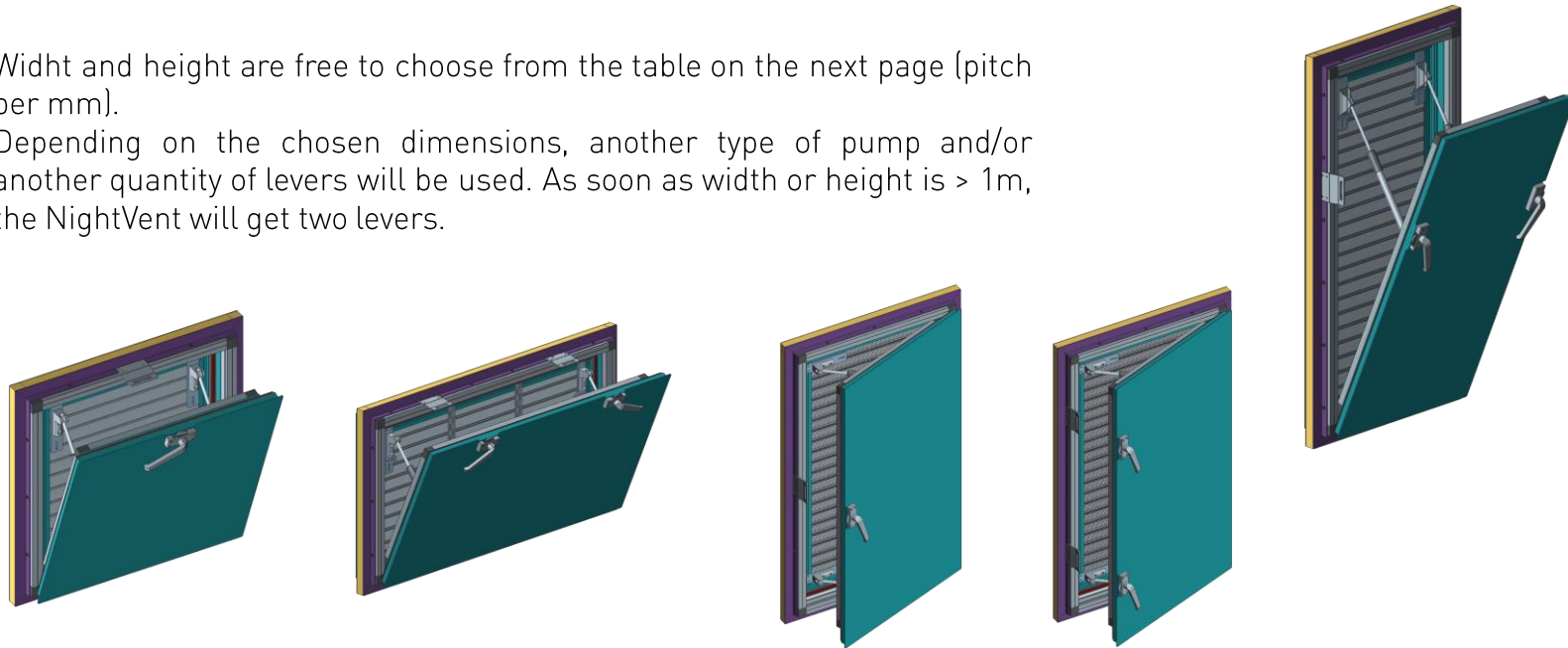


2

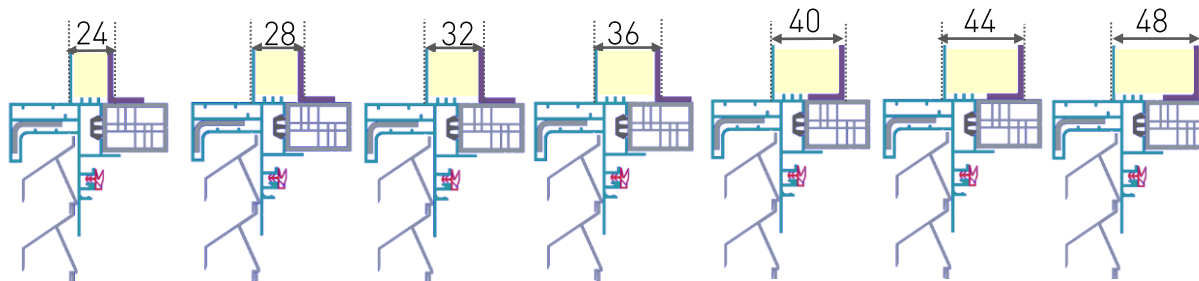
Width and height

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)



2

Width and height

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	

Pumptype 20EX

Hinge side under		WIDTH																					
		350-399	400-499	500-599	600-699	700-799	800-899	900-999	1000-1099	1100-1199	1200-1299	1300-1399	1400-1499	1500-1599	1600-1699	1700-1799	1800-1899	1900-1999	2000-2099	2100-2199	2200-2299		2300-2399
HEIGHT	400 - 499	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	Pumptype 20EX
	500 - 599	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	Pumptype 30EX
	600 - 699	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	Pumptype 30EX
	700 - 799	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	Pumptype 30EX
	800 - 899	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	Pumptype 30EX
	900 - 999	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	Pumptype 30EX
	1000 - 1099	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	
	1100 - 1199	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	
	1200 - 1299	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	
	1300 - 1399	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	
	1400 - 1499	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	
	1500 - 1599	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	
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	2000 - 2099	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
	2100 - 2199	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
	2200 - 2299	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	
	2300 - 2399	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
	2400 - 2500	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	

Pumptype 35EX

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

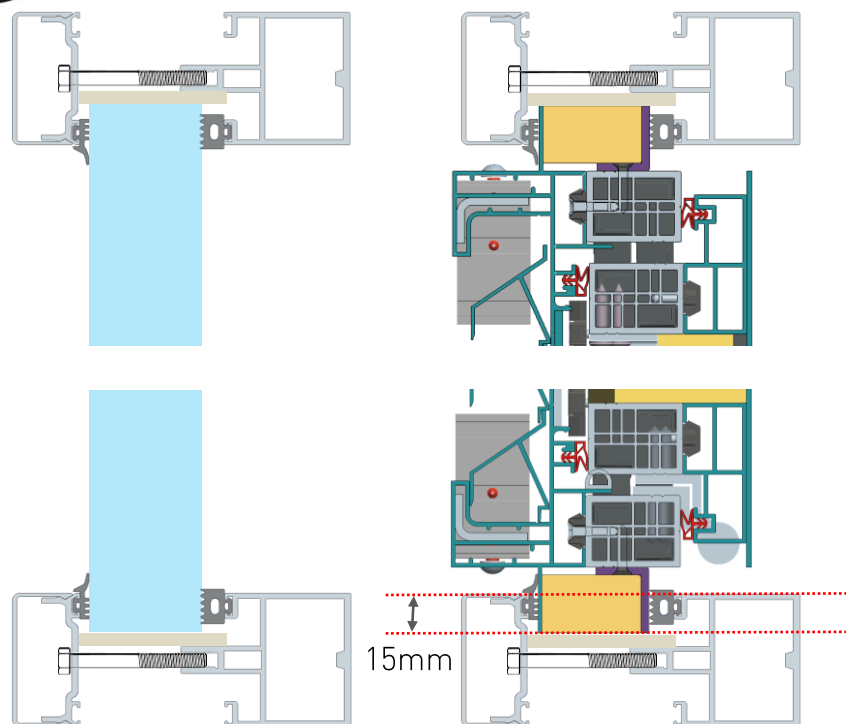
Handles at 1/4 and 3/4 of WIDTH

Handles at 2/3 height left and right

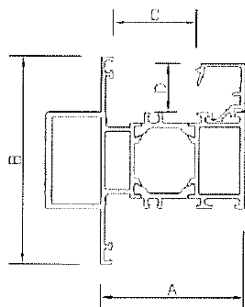
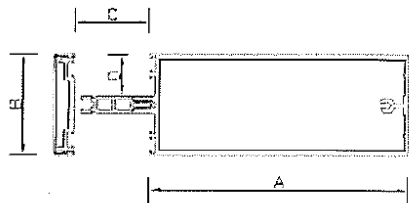
Handles at 1/4 and 3/4 of WIDTH if HEIGHT < WIDTH or handles at 2/3 height left and right if HEIGHT ≥ WIDTH

3

Installation



A = Profieldiepte
B = Profielbreedte
C = Spanningsbreedte
D = Spanningshoogte



(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).

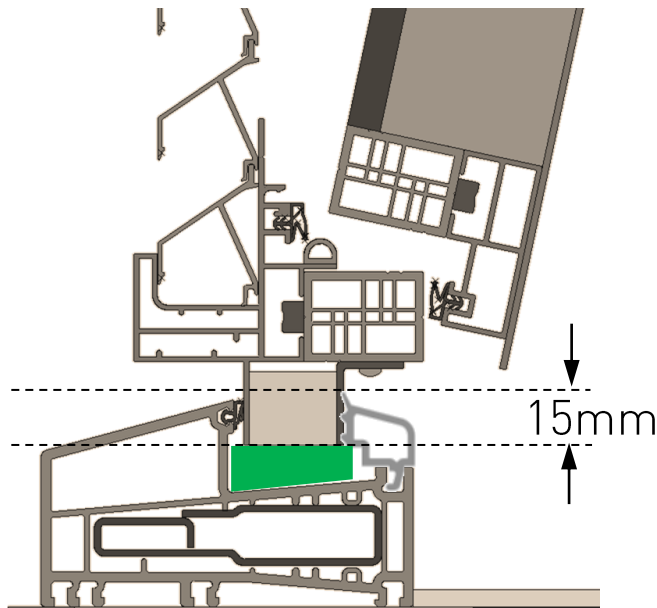
For larger dimensions, extrapolation always gives you a weight on the safe side.

When mounting, provide suitable material.

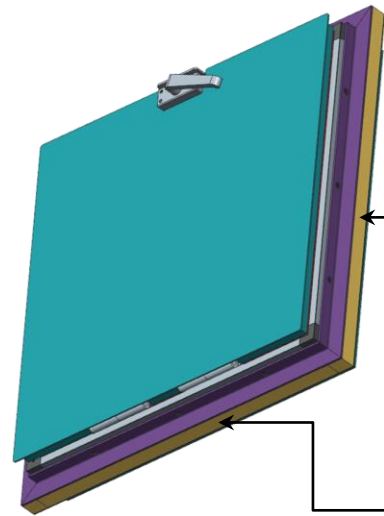
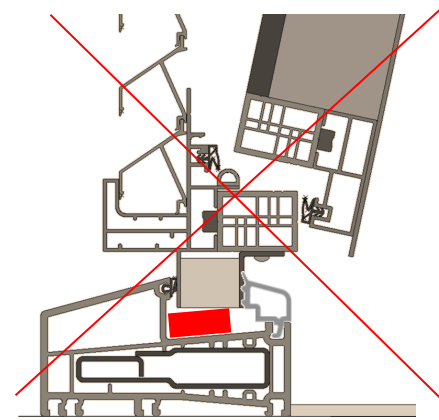
3

Installation

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.

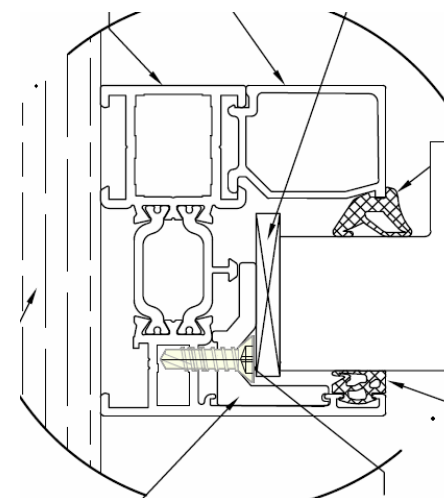
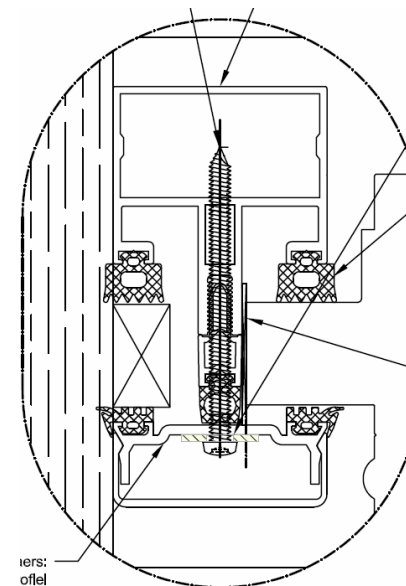
Follow the manufacturer's installation instructions carefully.

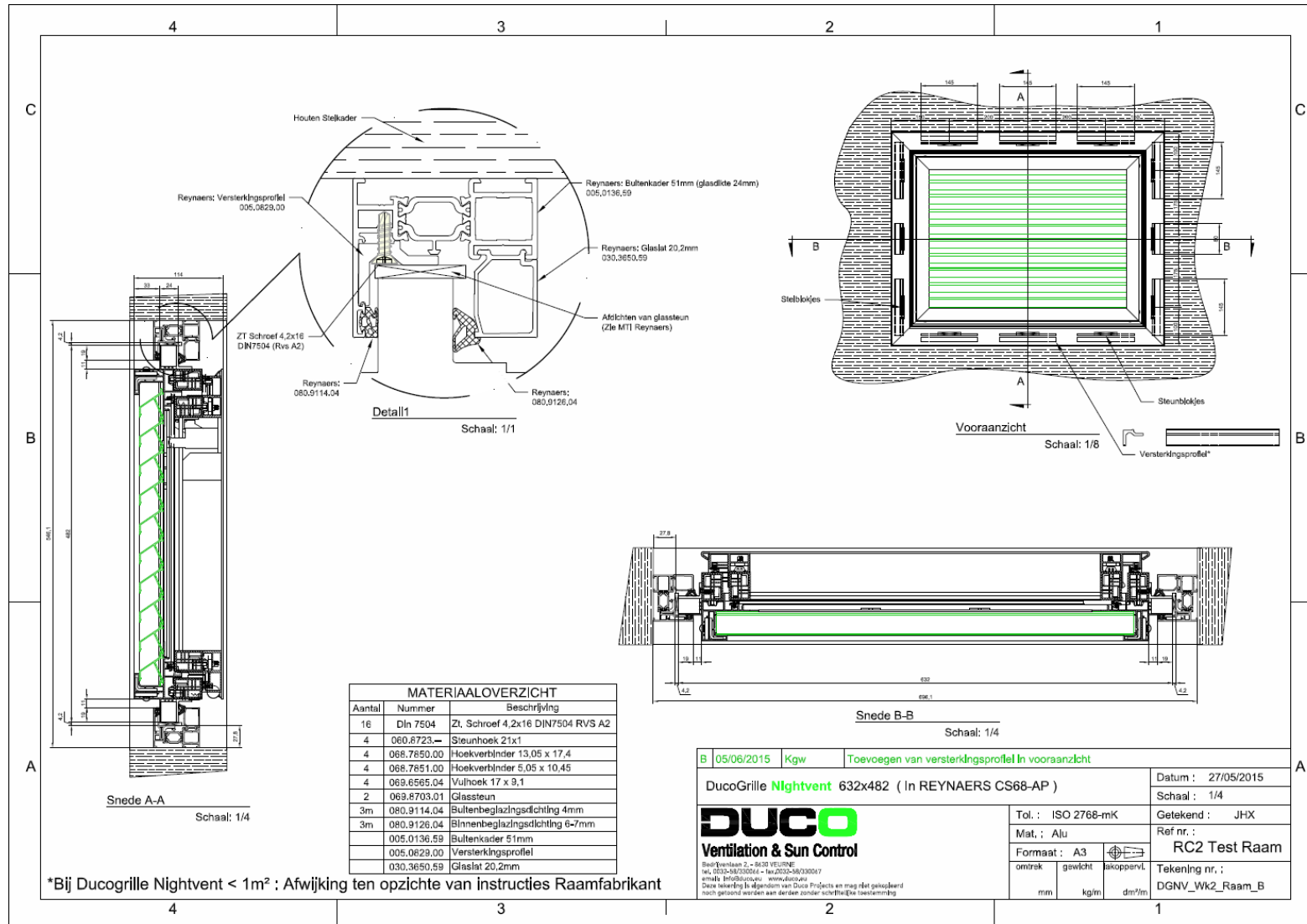
An example of Reynaer's profiles can be found on the next 2 pages.

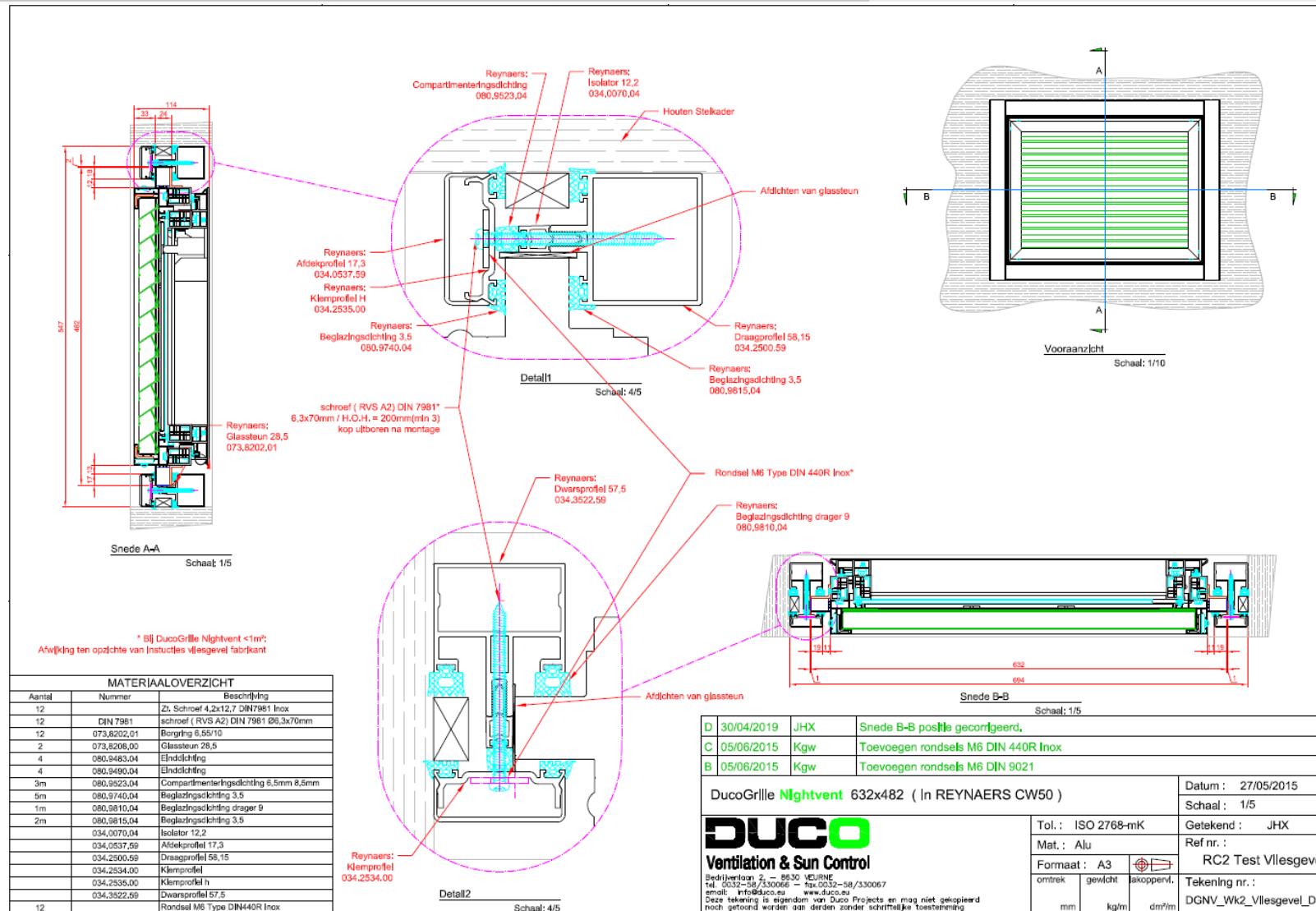
Please note when installing a DucoGrille NightVent with a surface area of less than 1m². In that case there are some variations due to the instructions of the curtain wall or window profile manufacturer. See also the drawings on the next pages.

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.



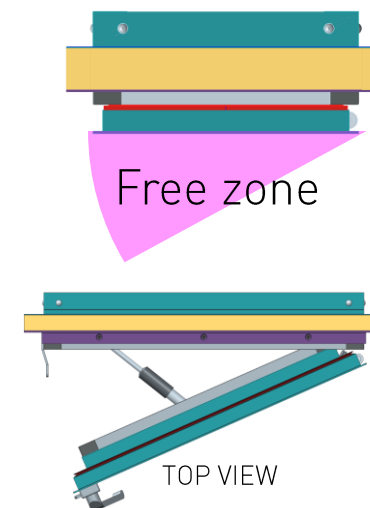
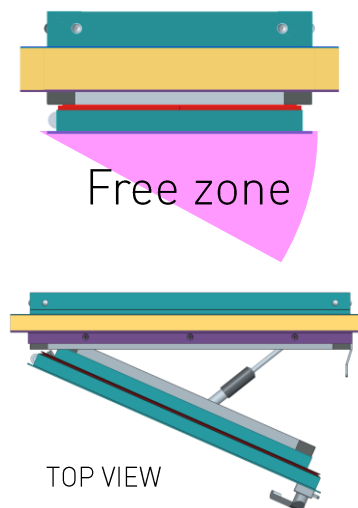
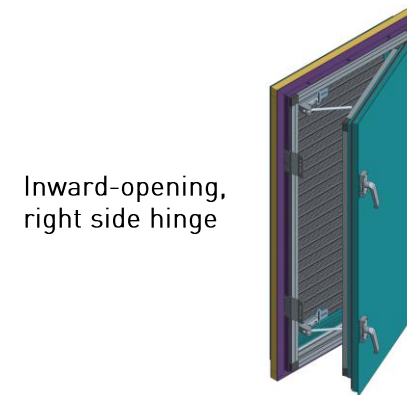
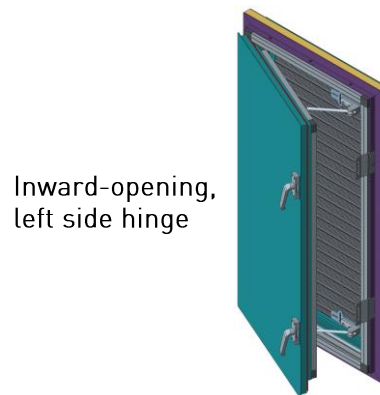
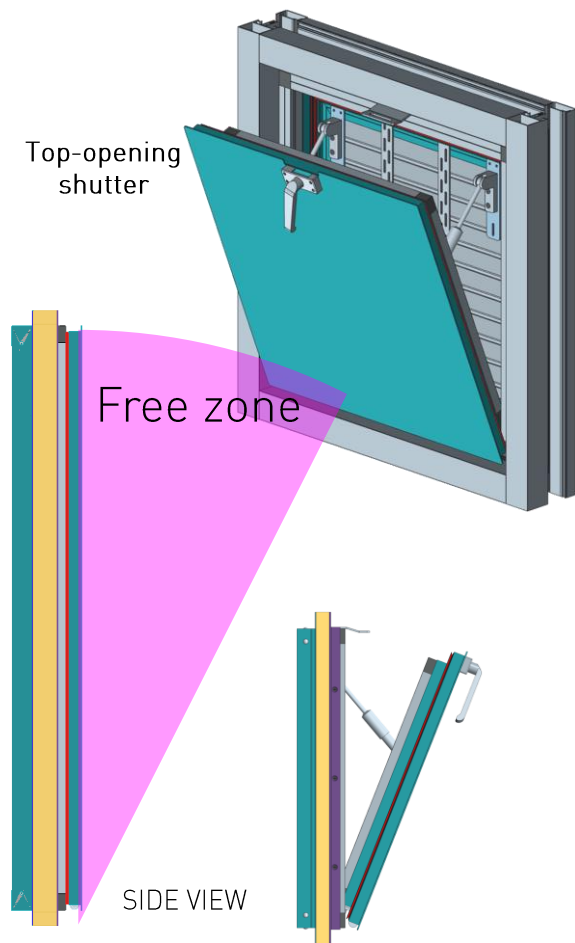




5

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.



6

Ventilation

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.

