

TECHNICAL DATA SHEET



Type	DucoGrille NightVent - Motoric											
DESCRIPTION	glazed in ventilation shutter											
SHAPE OF BLADE	30Z punched blades (P1) height 21mm x width 2,5mm											
PITCH	37,5 mm											
FRAME WIDTH	63 mm											
GLASS THICKNESS	24/28/32/36/40/44/48 mm											
FRAME DEPTH	88 mm (thermally interrupted) / 115 mm											
MIN. DIMENSIONS	Width 300 mm, Height 300 mm. Depending on combination, see dimensions table.											
ORIENTATION	Drops open hinges to the right or the left when the width is <600mm											
STROKE	300 mm 200mm if width and/or height <700mm											
WEIGHT	maximum: 80 Kg maximum: 95Kg if anti burglary											
OPTION	ANTI BURGLARY RC2											
MESH	- optional with insectmesh 2.3 x 2.3 mm Aluminiumextrusions are perforated and act as insect mesh											
MATERIAL	inside & outside: Aluminium : EN AW-6063 T66 (EN 573-3) thermal interruption: PVC Insulation PIR											
SURFACE TREATMENT	inner- and outside pannel - polyester powder coated (60-80µm) according Qualicoat Seaside type A - specific RAL codes and/or textured paint on request											
VISUAL FREE AREA	60% per meter of punching											
PHYSICAL FREE AREA	34% (use the K factor to calculate!)											
FREE AREA	369 L/s*m ² @ 2Pa											
AIRTIGHTNESS	CLASS 3 - up to and including 600Pa EN 12207 Qn 50 overpressure = 4,5 m ³ /h/m ² Qn 50 underpressure = 2,5 m ³ /h/m ² Qn 100 overpressure = 5,0 m ³ /h/m ² Qn 100 underpressure = 3,5 m ³ /h/m ²											
RESISTANCE vs WINDLOAD	Class 2a EN 12210, EN 12211											
WATERTIGHTNESS	Class 9a EN12208, EN 1027											
THERMAL VALUE	1,5 W/m ² K											
POSITIONS	Intermediate positions possible via control											
STEERING	Motorised, 24V DC / 0.7A / max 17W											
SPEED	8-12 mm/s at 2/3 force											
CONDITIONS OF APPLICATION	from -25° to +60°C											
AIR FLOW DATA	<table border="1"> <thead> <tr> <th>(EN13030)</th> <th>standard</th> </tr> </thead> <tbody> <tr> <td>Ce</td> <td>0,202</td> </tr> <tr> <td>K-factor intake</td> <td>24,51</td> </tr> <tr> <td>Cd</td> <td>0,202</td> </tr> <tr> <td>K-factor exhaust</td> <td>24,51</td> </tr> </tbody> </table>		(EN13030)	standard	Ce	0,202	K-factor intake	24,51	Cd	0,202	K-factor exhaust	24,51
(EN13030)	standard											
Ce	0,202											
K-factor intake	24,51											
Cd	0,202											
K-factor exhaust	24,51											

WATER RESISTANCE

(EN13030)	standard
v = 0 m/s	A
v = 0,5 m/s	B
v = 1 m/s	C
v = 1.5 m/s	D
v = 2 m/s	D
v = 2.5 m/s	D
v = 3 m/s	D
v = 3,5 m/s	D

CARACTERISTIQUES ACOUSTIQUES

closed					
Rw(C;C _{tr}) = 33(-1;-4) dB					
125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
21,5 dB	21,3 dB	28,2 dB	37,1 dB	45,2 dB	53,7 dB
open					
Rw(C;C _{tr}) = 10(0;-1) dB					
125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
7,3 dB	6,5 dB	9,2 dB	8,9 dB	11,5 dB	12,4 dB

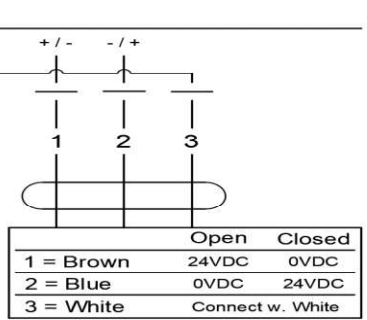
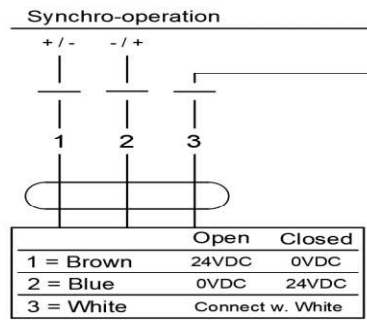
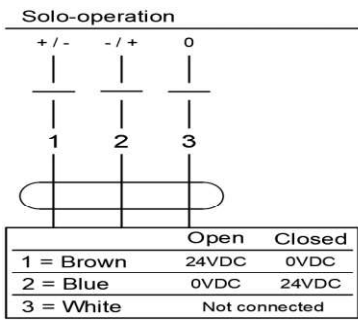
COOLING CAPACITY (1x1m)

type	airflow (l/s)	COOLING CAPACITY
Single sided natural ventilation (ΔT=6K)	30,3	0,22
Cross flow natural ventilation (v=3m/s)	185,5	1,34
Stack natural ventilation (Δh=6m)	222,5	1,61

		WIDTH																							
		0,3	0,4	0,5	0,6	0,7	0,8	0,9	1	1,1	1,2	1,3	1,4	1,5	1,6	1,7	1,8	1,9	2	2,1	2,2	2,3	2,4	2,5	
HEIGHT	0,3						83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	
	0,4				46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46
	0,5				31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
	0,6		46	31	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
	0,7		46	31	19	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	0,8	83	46	31	16	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	0,9	83	46	31	14	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
	1	83	46	31	12	19	19	19	19	19	19	19	19	19	19	19	19	19	19						
	1,1	83	46	31	11	17	17	17	17	17	17	17	17	17	17	17	17	17							
	1,2	83	46	31	10	15	15	15	15	15	15	15	15	15	15	15	15								
	1,3	83	46	31	9	14	14	14	14	14	14	14	14	14	14	14									
	1,4	83	46	31	8	13	13	13	13	13	13	13	13	13	13										
	1,5	83	46	31	7	12	12	12	12	12	12	12	12	12											
	1,6	83	46	31	7	11	11	11	11	11	11	11	11												
	1,7	83	46	31	6	10	10	10	10	10	10	10													
	1,8	83	46	31	6	9	9	9	9	9	9														
	1,9	83	46	31	5	9	9	9	9																
	2	83	46	31	5	8	8	8																	
	2,1	83	46	31	5	8	8	8																	
	2,2	83	46	31	5	7	7	7																	
	2,3	83	46	31	4	7	7	7																	
	2,4	83	46	31	4	7	7	7																	
	2,5	83	46	31	4	6	6	6																	

Stroke 200 Stroke 300

hinge side left/right
 not possible
'x' number in cell represents the opening angle



3

2

1

D

D

C

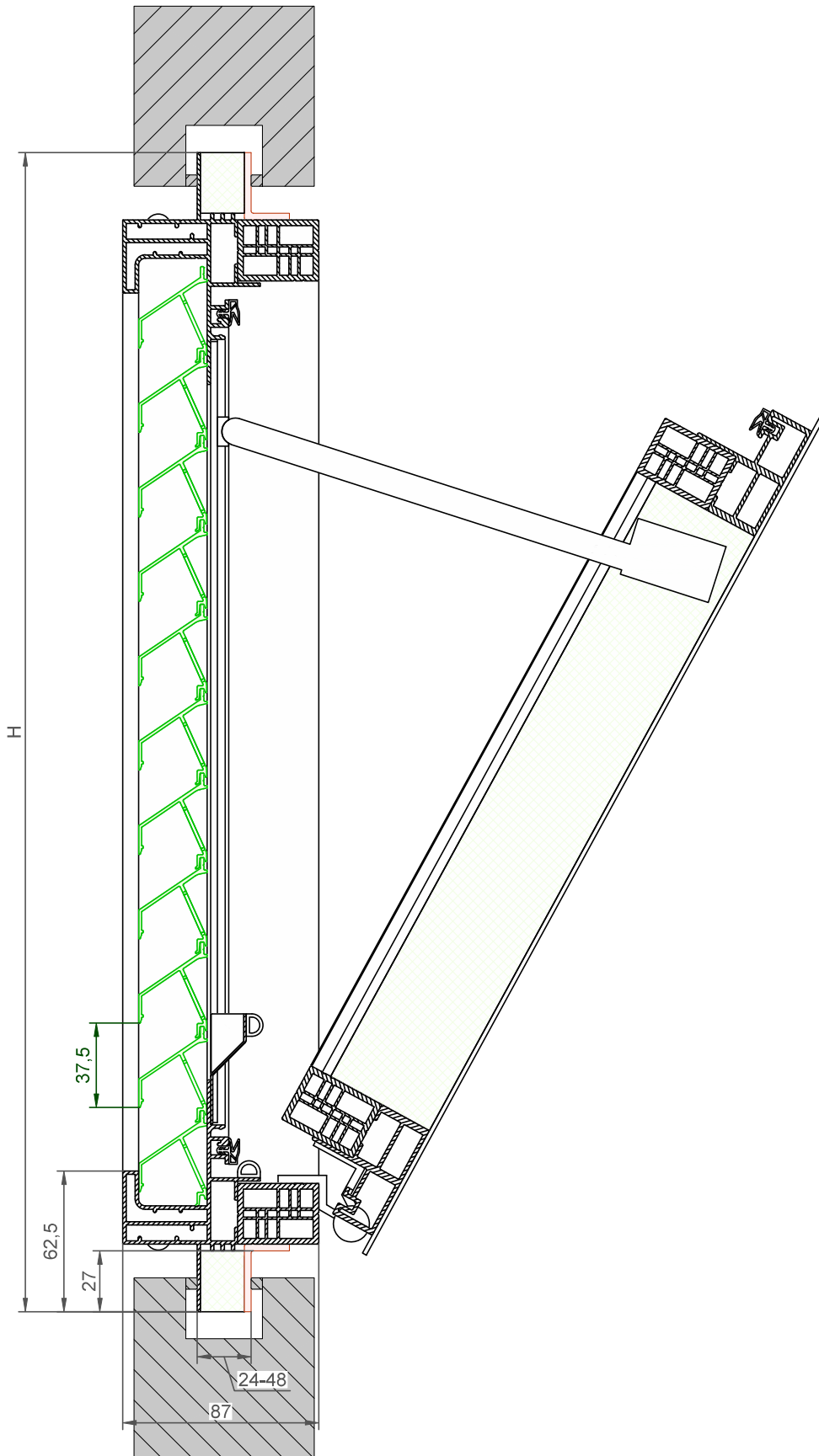
C

B

B

A

A



DucoGrille NightVent

Motorisch

Datum : 05/09/2023

Schaal : 1:2

DUCO
Ventilation & Sun Control

Bedrijvenlaan 2 - 8630 VEURNE
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Deze tekening is eigendom van Duco Projects en mag niet gekopieerd
noch getoond worden aan derden zonder schriftelijke toestemming

Tol. : ISO 2768-mK

Getekend : SVE/JHX

Mat. :

Ref nr. :

Formaat : A3



omtrek

gewicht

lakoppervl.

Tekening nr. :

mm

kg/m

dm²/m

DGNightVent motorisch

3

2

1