

TECHNICAL DATA SHEET



Type	DucoGrille NightVent - Manual	
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 350 mm, Height 350 mm. Depending on combination, see dimensions table.	
ORIENTATION	Drops open hinges to the right or the left when the width ≥ 400 & < 600 mm	
STROKE	view table	
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 (60-80 μ m) according Qualicoat Seaside type A - specific RAL codes and/or textured paint on request Lever anodized SAA	
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	Open/Close	
STEERING	Manual	
CONDITIONS OF APPLICATION	from -25° to +60°C	
AIR FLOW DATA	(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)	capacity (kW)
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

Hinge side left/right

HEIGHT	WIDTH	
	400-499	500-599
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

Pumtype 20EX

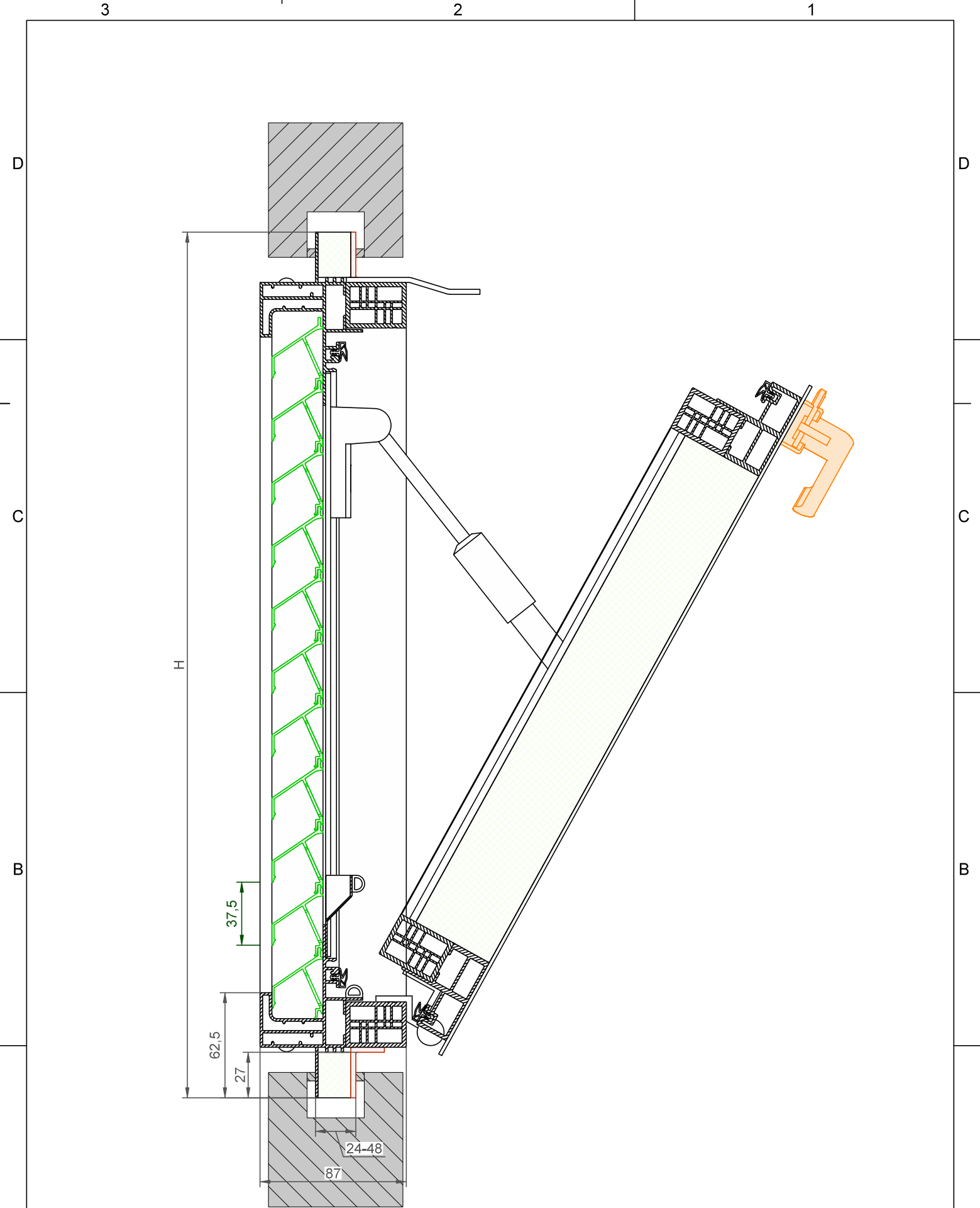
Hinge side under



HEIGHT	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	2400-2500	
400 - 499	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
500 - 599	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
600 - 699	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
700 - 799	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
800 - 899	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
900 - 999	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
1000 - 1099	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			
1200 - 1299	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								
1400 - 1499	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									
1600 - 1699	16	16	16	16	16	16	16	16	16	16	16	16	16	16									
1700 - 1799	15	15	15	15	15	15	15	15	15	15	15	15	15	15									
1800 - 1899	14	14	14	14	14	14	14	14	14	14	14	14	14	14									
1900 - 1999	13	13	13	13	13	13	13	13	13	13	13	13	13	13									
2000 - 2099	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									
2200 - 2299	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									
2400 - 2500	10	10	10	10	10	10	10	10	10	10	10	10	10	10									

Pumtype 30EX
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Number in cells represent the opening angle

- Orange: Handle at 1/2 of HEIGHT
- Blue: Handles at 1/4 and 3/4 of HEIGHT
- Grey: not possible
- Yellow: Handle at 1/2 of WIDTH
- Light Yellow: Handles at 1/4 and 3/4 of WIDTH if HEIGHT < WIDTH or handles at 2/3 height left and right if HEIGHT > WIDTH
- Red: Handles at 1/4 and 3/4 of WIDTH
- Pink: Handles at 2/3 height left and right



DucoGrille NightVent Manueel  Ventilation & Sun Control <small>Bedrijvenlaan 2 - 8630 VEURNE tel. 0032-58/330066 - fax.0032-58/330067 email: info@duco.eu www.duco.eu Deze tekening is eigendom van Duco Projects en mag niet gekopieerd noch getoond worden aan derden zonder schriftelijke toestemming</small>			Datum : 05/09/2023	
			Schaal : 1:2	
Tol. : ISO 2768-mK			Getekend : SVE/JHX	
Mat. :			Ref nr. :	
Formaat : A3				
omtrek	gewicht			
mm	kg/m	dm ² /m		DGNightVent manueel