(en)

LOUVRE WALL SYSTEMS

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DUCO

HOME OF OXYGEN

DUCO Ventilation & Sun Control provides every building with a healthy supply of oxygen. With a comprehensive range of innovative natural and mechanical ventilation systems, either combined with external solar shading or otherwise, DUCO offers the ultimate guarantee of a healthy and comfortable indoor climate. The occupant's health is, therefore, central to DUCO. A well-thought-out combination of basic ventilation, mechanical extraction, purge ventilation and solar shading ensures optimum air quality. DUCO provides an innovative solution for residential buildings, offices, schools or care centres where everyone feels at home.

DUCO, Home of Oxygen

DUCO

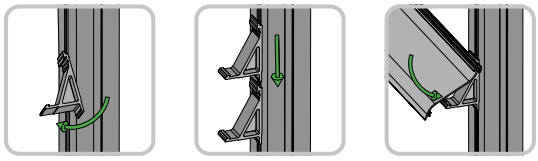
A SOLUTION FOR **EVERY SITUATION**

→ Finish

Almost every type of louvre wall is available in all colours: **SAA, any RAL colour, textured paint, special colours / lacquers ...** All types of louvre walls are painted in SeaSide grade as standard. In addition, every type of louvre wall in this brochure complies with the **Qualicoat** or **Qualanod** quality specifications.

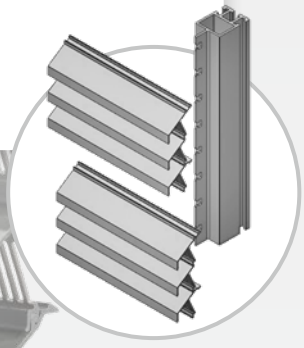
→ Quick assembly

With DUCO's patented **"Turn-Click" system** for DucoWall Classic and Acoustic, plastic louvre holders are pre-fastened to the mullion. The louvre blades are easily clicked on to this.



1. Turn
2. Click
3. Click

With DUCO's patented **"Direct Clip" system** for DucoWall Solid and Screening, the louvre blades are clicked onto the mullion directly, ensuring super-quick assembly.



Triple
Solid 30Z louvre blades

→ Vandalism and intrusion security

Solid louvre blades are very sturdy and **"vandal-proof"**.

RC2
RC3

Optionally, every type of louvre wall (DucoWall Solid, Classic*, Acoustic and Screening) can be made **burglar resistant up to resistance class 3**, and the DucoDoor Louvre and Grille louvre doors can be made **burglar resistant up to resistance class 2** in accordance with European standards.

* Except DucoWall Classic W 60C/2, W 60C/3, DucoWall Acoustic W 300 and DucoWall Screening Acoustic Double Bank.

→ Insect screen and vermin screen

With DucoWall Solid louvre blades with small punching slots (P1), the **perforated louvre blades** act as an insect screen. With all other types (Solid P2, Classic, Acoustic and Screening), **optional 2.3 x 2.3 mm or 6 x 6 mm stainless-steel mesh** can be selected.

P1

P2

Stainless-steel mesh

DucoWall Solid W 30Z P1

→ Ventilation capacity

Each louvre wall is tested extensively and optimised by DUCO's R&D department.
The **"High Performance"** HP louvre blades in the DucoWall Classic range ensure excellent airflow thanks to low resistance.

Airflow performance class	Ce or Cd
1	⩾ 0,4
2	0,3 - 0,399
3	0,2 - 0,299
4	⩽ 0,199

HP
High Performance

DucoWall Classic W 130HP

→ Penetration security

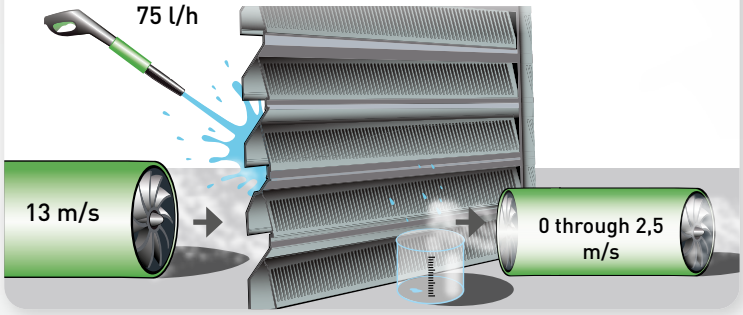
DucoWall Classic louvre walls with **V-louvre blades** are penetration proof.

→ Water resistance

EN13030

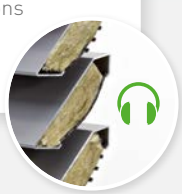
All DucoWall louvre wall systems have been tested by **BSRIA** in accordance with the water tightness tests developed in collaboration with HEVAC. The test simulates 75 litres per hour rainfall at a wind speed of 13 metres per second. A class is assigned to the louvre wall on the basis of the air velocity in the louvre wall and the % of watertightness.

Class A	100 - 99 %
Class B	98,5 - 95 %
Class C	94,9 - 80 %
Class D	< 80 %

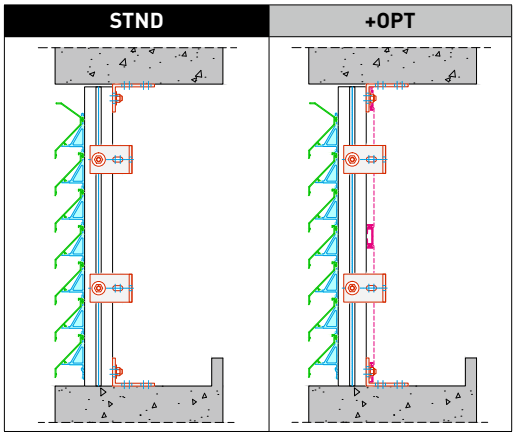


→ Sound absorption

DucoWall Acoustic louvre blades are fitted on the inside with non-combustible mineral wool and are ideally suited for applications with high levels of noise intrusion.



→ STND and +OPT version



The technical values of our grilles have been tested in two ways:

STND = "Standard"
This is the standard version.

+OPT = "+Options"
This is an optional version where the louvre wall has been tested incl. insect screen.
The **+OPT** version will often bring better results in terms of water resistance. See each product page for all values per grille type.

PRODUCTOVERVIEW

	Ventilation capacity = at intake = at exhaust The longer the bar, the greater the airflow. STND and +OPT version: see page 5	Maximum span between two mullions at 800 Pa and pressure coefficient: 1.2	
DUCOWALL SOLID			
Sturdy aluminium blades that connect to one another ensure **vandal-proof** louvre walls with a minimal support structure. **Very quick assembly** thanks to DUCO's patented "Direct-Clip" system.			
Ⓖ DucoWall **Solid W 30Z**	STND / +OPT n/a	← 1970 mm →	see p. 8
DUCOWALL SCREENING			
Aluminium louvre wall system that is eminently suitable for projects where the wall acts primarily as **screening**. These systems guarantee **very quick assembly**.			
DucoWall **Screening 35**	STND / +OPT	← 1650 mm →	see p. 11
DucoWall **Screening 55**	STND / +OPT	← 2050 mm →	see p. 12
DucoWall **Screening 70**	STND / +OPT	← 2400 mm →	see p. 13
DUCOWALL CLASSIC			
Aluminium louvre wall system with **louvre blade holders**. Quick assembly with DUCO's "Turn-Click" system. These louvre blade holders can be fitted on the mullion separately, enabling a **perfect finish** to be achieved.			
Ⓖ DucoWall **Classic W 20Z**	STND / +OPT	← 1200 mm →	see p. 14
Ⓖ DucoWall **Classic W 20V**	STND / +OPT	← 1850 mm →	see p. 15
DucoWall **Classic W 35V**	STND / +OPT	← 2650 mm →	see p. 16
Ⓖ DucoWall **Classic W 50Z**	STND / +OPT	← 1550 mm →	see p. 17
Ⓖ DucoWall **Classic W 50/75Z**	STND / +OPT	← 1550 mm →	see p. 18
Ⓖ DucoWall **Classic W 70V**	STND / +OPT	← 2150 mm →	see p. 19
Ⓖ DucoWall **Classic W 45HP** HP	STND / +OPT	← 1330 mm →	see p. 20
Ⓖ DucoWall **Classic W 50HP** HP	STND / +OPT	←1100 mm→	see p. 21
Ⓖ DucoWall **Classic W 130HP** [1] HP	STND / +OPT n/a	← 2300 mm →	see p. 22
DucoWall **Classic W 60C**	STND / +OPT	← 1250 mm →	see p. 23

[1] Impact and fall-through protection only applies in combination with Metal Clips.

LOUVRE GRILLES

Louvre blades with Ⓖ are also available as wall and/or window louvre grilles (DucoGrille).See our "Louvre grilles" brochure for more information.

		Ventilation capacity = at intake = at exhaust The longer the bar, the greater the airflow. STND and +OPT version: see page 5	Maximum span between two mullions at 800 Pa and pressure coefficient: 1.2	
DUCOWALL ACOUSTIC				
Aluminium louvre wall system with louvre blades that are fitted with **sound-absorbing**, non-combustible mineral wool. Quick assembly with DUCO's patented "Turn-Click" system[2].				
Ⓖ DucoWall **Acoustic W 75Z**		STND +OPT	← 1700 mm →	see p. 24
Ⓖ DucoWall **Acoustic W 75L**		STND +OPT	← 1650 mm →	see p. 24
Ⓖ DucoWall **Acoustic W 150**		STND +OPT	← 2150 mm →	see p. 25
DucoWall **Acoustic W 300**		STND +OPT	← 2150 mm →	see p. 25
DucoWall **Screening Acoustic**	[3]	STND +OPT	← 2425 mm →	see p. 26

[2] "Turn-Click" system is not applicable to DucoWall Screening Acoustic. DucoWall Screening Acoustic is installed according to DucoWall Screening.
[3] Impact and fall-through protection is only applicable with specific mounting requirements. Contact DUCO for more information.

DUCODOOR LOUVRE DOORS			
Ventilated louvre doors or false louvre doors, optionally either integrated or not into the louvre wall.			
DucoDoor **Wall**		**Louvre door** in louvre wall system without specific requirements	see p. 31
DucoDoor **Louvre**	RC2	Ventilated **louvre door or false louvre door** in the louvre wall system with specific requirements for intrusion resistance and/or draught-proofing	see p. 32
DucoDoor **Grille**	RC2	**Free-standing ventilated louvre door or false louvre door**, either with or without specific requirements for intrusion resistance and/or draught-proofing	see p. 33

ROOF TURRETS			
Kits and components to build roof cowls with DucoWall louvre blades.			
Duco **Roof Turret Solid 30Z**		STND +OPT n/a	see p. 36

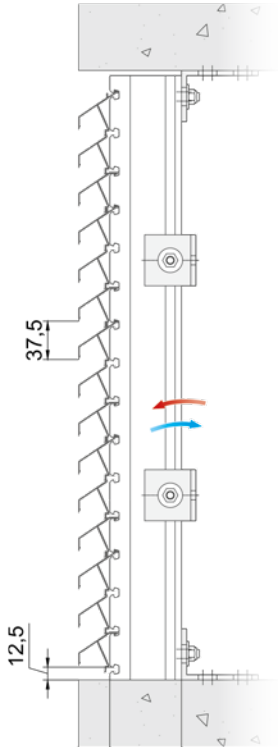
Legend

- **Vandal-proof** — The louvre wall is vandal-proof
- **Penetration safe** — The louvre wall is penetration-proof
- **Impact protection** — Resistant to intense shocks
- **Fall-through protection** — Prevents people from falling through
- RC2 RC3 **Burglar resistant** — burglar resistant up to class 2, burglar resistant up to class 3
- **Water resistant** — The louvre wall is **good** to **very good** water resistant
- **Sound absorption** — Can be used in projects with **light** or **heavy (+)** noise exposure
- HP **High Performance** — The louvre blades are optimised for high air flow

Vandal-proof

DucoWall
Solid W 30Z

DucoWall Solid 30Z louvre blades offer high ventilation capacity with relatively small louvre blades. The "stackable" louvre blades form a single whole, making them **extra strong** and **vandal-proof**. The strong louvre blade system requires a minimal support structure. DUCO's "Direct Clip" system ensures **very quick assembly**.



DIMENSIONS AND MULLIONS

Type of mullion	40/21 (Double)	40/70 Double	40/100 Double
Louvre pitch	37,5 mm		
Louvre depth	30 mm		
Installation depth	52 mm	102 mm	132 mm
Maximum span between 2 mullions	← 1970 mm →		

VENTILATION VALUES

Property		P1		P2	
		STND	+OPT	STND	+OPT
Visual free area		60 %	n/a	86 %	86 %
Physical free area		34 %	n/a	48 %	48 %
Ce (higher is better)		0,216	n/a	0,234	0,232
Cd (higher is better)		0,242	n/a	0,271	0,266
K-FACTOR (lower is better)	INTAKE	21,43	n/a	18,26	18,58
	EXHAUST	17,08	n/a	13,62	14,13

STND and +OPT version: see page 5

WATER RESISTANCE

Air velocity	Class			
	P1		P2	
	STND	+OPT	STND	+OPT
0 m/s	B	n/a	B	B
0,5 m/s	B	n/a	C	B
1 m/s	C	n/a	C	B
1,5 m/s	C	n/a	C	B
2 m/s	D	n/a	D	C
2,5 m/s	D	n/a	D	D

Punching

DucoWall Solid W 30Z is available with louvre blades with **small punching (P1)**, **large punching (P2)** or without punching as **false louvres (NP)**. Combining the two in the same project ensures a uniform appearance.

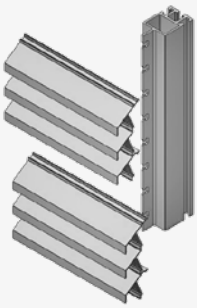
INSECT SCREEN

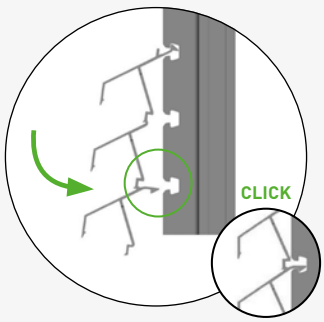
Punching	 P1	 P2	 NP
Resistant to...	Perforated louvre blades as insect screen	Perforated louvre blades as bird screen **OPTIONS** Stainless steel mesh, **2.3 x 2.3 mm**  Stainless steel mesh, **6 x 6 mm** 	100 % false louvre

SUPERFAST ASSEMBLY

DucoWall Solid W 30Z is made up of **triple louvre blades** that are clicked together one above the other onto the mullion using DUCO's "Direct Clip" system. This ensures a very sturdy unit and extremely quick assembly.

The final row can be finished with a single louvre blade.





MORE INFO
→ **Overview of mullions:** see page **43**
→ **Full specifications:** see page **44**

DUCOWALL SCREENING

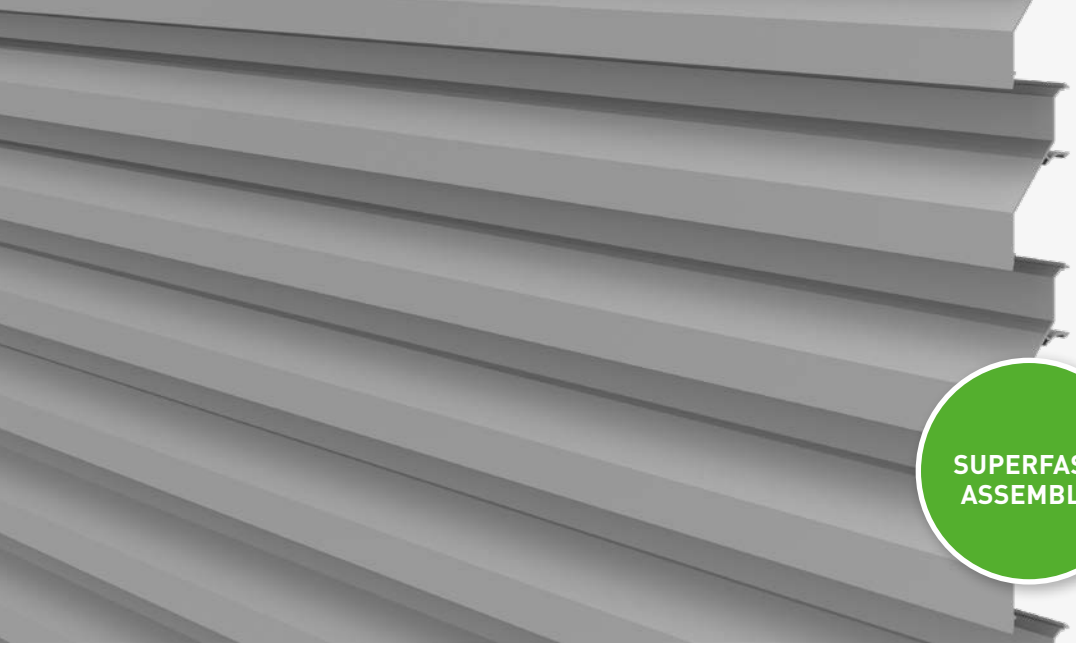
An aluminium louvre wall system for screening applications: DucoWall Screening is eminently suitable for projects where the wall acts primarily as **screening**. Assembly is very quick.

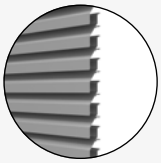
There are three options within the Screening range. **DucoWall Screening 35** adds aesthetic value to your project and guarantees quick installation.

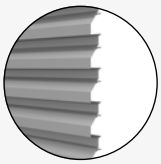
With a span of up to 2 metres, the **DucoWall Screening 55** strikes a happy medium between the Screening 35 and the Screening 70.

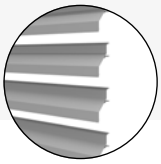
The larger variant is **DucoWall Screening 70**. Benefits include the high span and high airflow. In combination with the limited number of supports, this louvre also ensures very smooth installation of the full louvre wall.

SUPERFAST ASSEMBLY



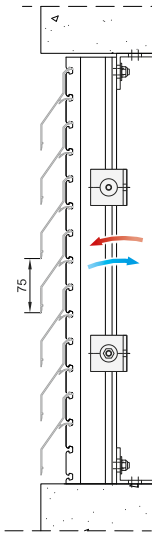

Louvre pitch **75**


Louvre pitch **112**

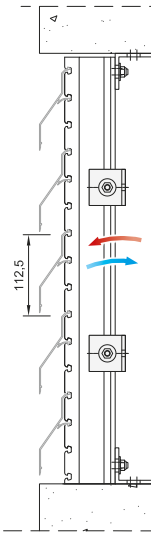

Louvre pitch **150**

DucoWall **Screening 35**

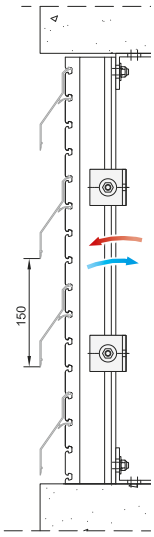
DucoWall Screening 35 is a louvre wall system that can be clicked directly onto the mullion. This results in **quick and smooth assembly**. There are three different louvre blades to choose from. In this way, the louvre wall can be adapted to the wishes and needs of any project. The system is eminently suitable for projects where the louvre wall acts primarily as **screening**.



Louvre pitch **75**



Louvre pitch **112**



Louvre pitch **150**

DIMENSIONS AND MULLIONS

Type of mullion	40/21 (Double)	40/70 Double	40/100 Double
Louvre pitch	75 mm - 112 mm - 150 mm		
Louvre depth	43 mm		
Installation depth	57 mm	107 mm	137 mm
Maximum span between 2 mullions	← 1650 mm →		

Also available in an **acoustic version**, see page 26.

VENTILATION VALUES

Property		75		112		150	
		STND	+OPT	STND	+OPT	STND	+OPT
Visual free area		52 %	52 %	68 %	68 %	76 %	76 %
Physical free area		29 %	29 %	27 %	27 %	35 %	35 %
Ce (higher is better)		0,128	0,128	0,122	0,121	0,206	0,204
Cd (higher is better)		0,162	0,161	0,174	0,175	0,224	0,222
K-FACTOR (lower is better)	INTAKE	61,04	61,04	67,19	68,30	23,56	24,03
	EXHAUST	38,10	38,58	33,03	32,65	19,93	20,29

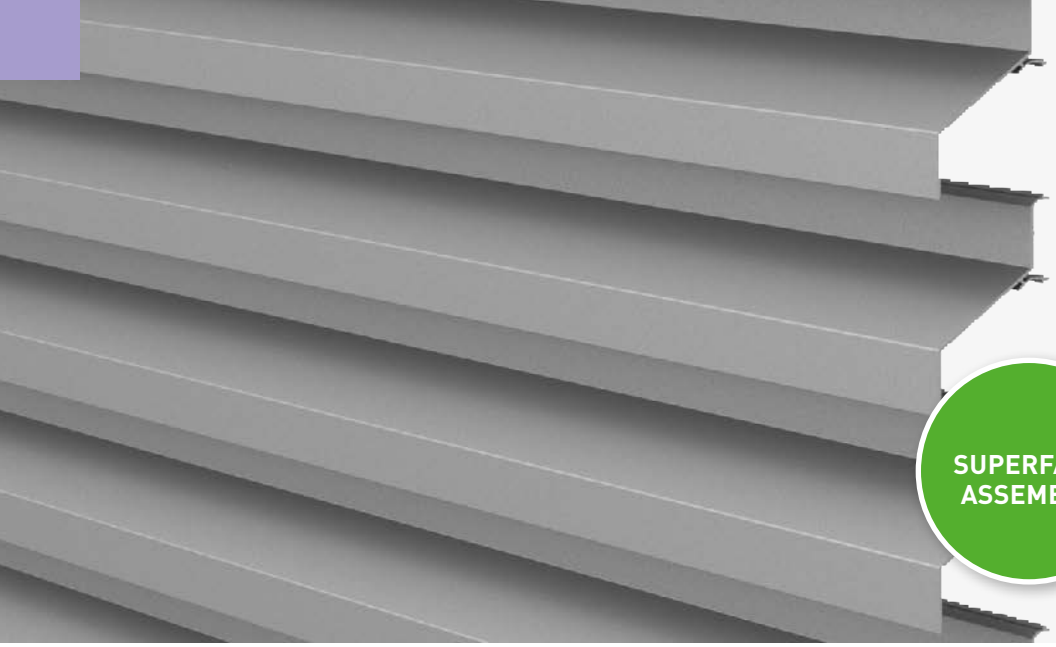
WATER RESISTANCE

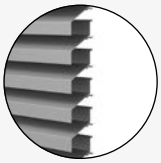
Air velocity	Class					
	75		112		150	
	STND	+OPT	STND	+OPT	STND	+OPT
0 m/s	A	A	B	B	C	C
0,5 m/s	B	B	C	B	C	C
1 m/s	B	B	C	C	D	D
1,5 m/s	D	D	D	D	D	D
2 m/s	D	D	D	D	D	D
2,5 m/s	D	D	D	D	D	D

STND and +OPT version: see page 5

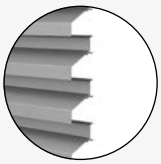
Insect protection: optional stainless steel mesh 2.3 x 2.3 mm or 6 x 6 mm

MORE INFO
→ **Overview of mullions:** see page **43**
→ **Full specifications:** see page **44**

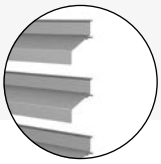




Louvre pitch **75**



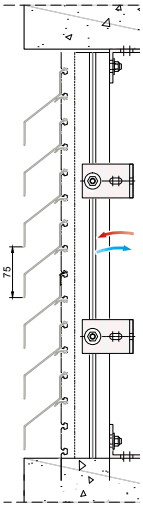
Louvre pitch **112**



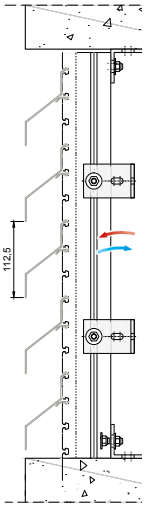
Louvre pitch **150**

DucoWall **Screening 55**

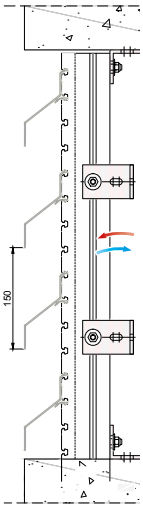
DucoWall Screening 55 is a louvre wall system with a **span of up to 2 metres**. This variant offers the **happy medium** in the Screening range: a high span and a good airflow, but with limited installation depth. These louvres are also attached directly to the mullion and are available with different louvre pitches (75 / 112 / 150 mm).



Louvre pitch **75**



Louvre pitch **112**



Louvre pitch **150**

DIMENSIONS AND MULLIONS

Type of mullion	40/21 (Double)	40/70 Double	40/100 Double
Louvre pitch	75 mm - 112 mm - 150 mm		
Louvre depth	64 mm		
Installation depth	77 mm	127 mm	157 mm
Maximum span between 2 mullions	← 2050 mm →		

Also available in an **acoustic version**, see page 26.

VENTILATION VALUES

Property		75		112		150	
		STND	+OPT	STND	+OPT	STND	+OPT
Visual free area		53 %	53 %	69 %	69 %	76 %	76 %
Physical free area		37 %	37 %	46 %	46 %	44 %	44 %
Ce (higher is better)		0,174	0,169	0,198	0,193	0,267	0,257
Cd (higher is better)		0,193	0,188	0,239	0,229	0,291	0,280
K-FACTOR (lower is better)	INTAKE	33,03	35,01	25,51	26,85	14,03	15,14
	EXHAUST	26,85	28,29	17,51	19,07	11,81	12,76

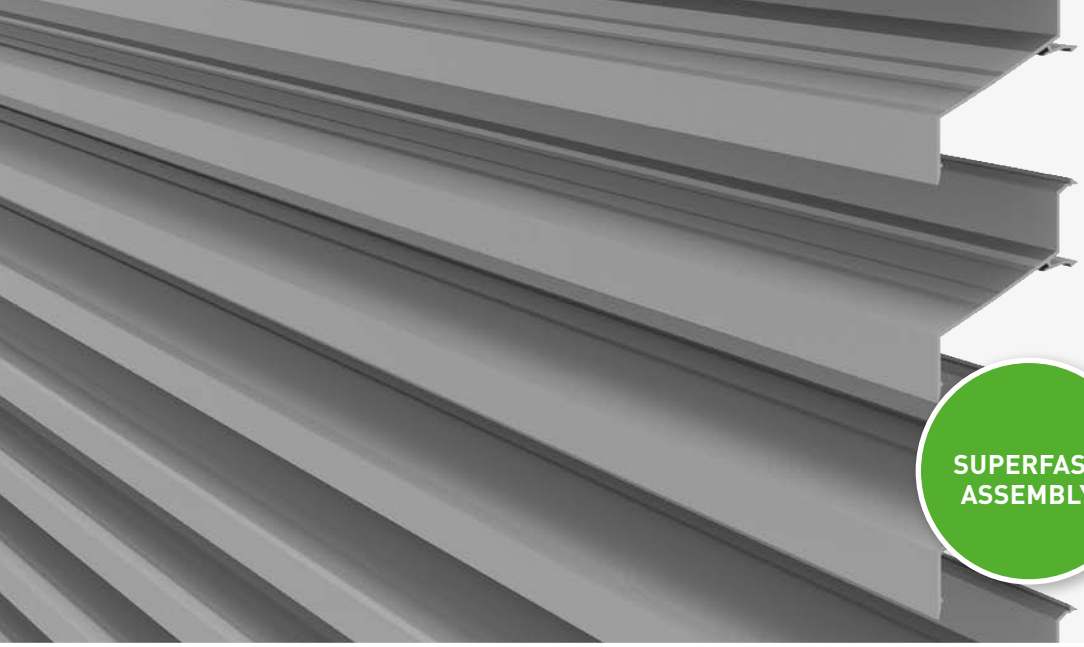
WATER RESISTANCE

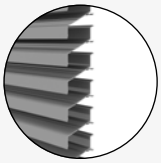
Air velocity	Class					
	75		112		150	
	STND	+OPT	STND	+OPT	STND	+OPT
0 m/s	A	A	B	A	C	C
0,5 m/s	B	A	C	B	D	C
1 m/s	B	B	C	B	D	C
1,5 m/s	C	B	C	C	D	D
2 m/s	D	D	D	D	D	D
2,5 m/s	D	D	D	D	D	D

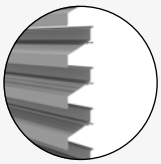
STND and +OPT version: see page 5

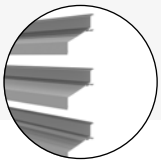
Insect protection: optional stainless steel mesh 2.3 x 2.3 mm or 6 x 6 mm

MORE INFO
→ **Overview of mullions:** see page **43**
→ **Full specifications:** see page **44**



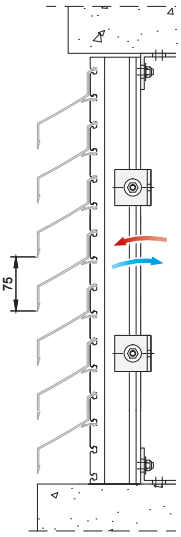

Louvre pitch **75**


Louvre pitch **112**

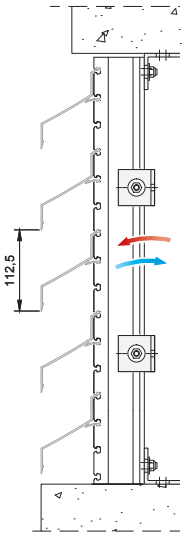

Louvre pitch **150**

DucoWall **Screening 70**

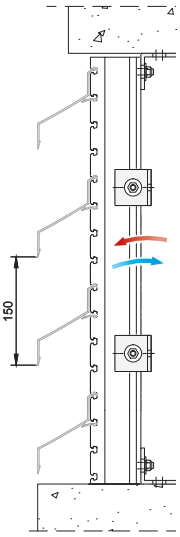
DucoWall Screening 70 is a louvre wall system with a very **high span** and **high airflow**. The louvre blades are fastened directly onto the mullion (Direct Clip). In combination with the limited number of supports, this ensures a **very fast installation** of the louvre wall. DucoWall Screening 70 is available with different louvre pitches (75 / 112 / 150 mm).



Louvre pitch **75**



Louvre pitch **112**



Louvre pitch **150**

DIMENSIONS AND MULLIONS

Type of mullion	40/21 (Double)	40/70 Double	40/100 Double
Louvre pitch	75 mm - 112 mm - 150 mm		
Louvre depth	82 mm		
Installation depth	94,5 mm	145 mm	175 mm
Maximum span between 2 mullions	← 2400 mm →		

Also available in an **acoustic version**, see page 26.

VENTILATION VALUES

Property		75		112		150	
		STND	+OPT	STND	+OPT	STND	+OPT
Visual free area		53 %	53 %	68 %	68 %	77 %	77 %
Physical free area		37 %	37 %	59 %	59 %	55 %	55 %
Ce (higher is better)		0,182	0,181	0,212	0,212	0,270	0,264
Cd (higher is better)		0,200	0,197	0,270	0,266	0,313	0,308
K-FACTOR (lower is better)	INTAKE	30,19	30,52	22,25	22,25	13,72	14,35
	EXHAUST	25,00	25,77	13,72	14,13	10,21	10,54

WATER RESISTANCE

Air velocity	Class					
	75		112		150	
	STND	+OPT	STND	+OPT	STND	+OPT
0 m/s	B	A	B	B	C	C
0,5 m/s	C	B	C	B	D	C
1 m/s	C	C	C	C	D	D
1,5 m/s	C	C	C	C	D	D
2 m/s	D	D	D	C	D	D
2,5 m/s	D	D	D	D	D	D

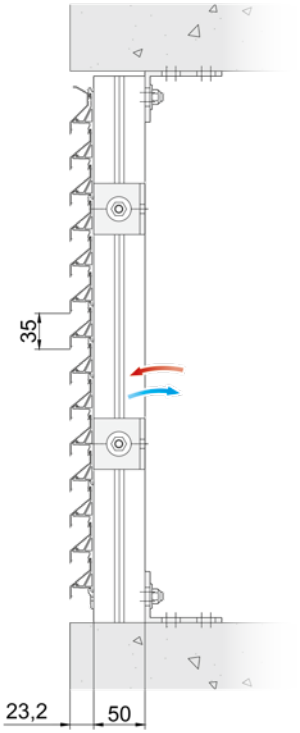
STND and +OPT version: see page 5

Insect protection: optional stainless steel mesh 2.3 x 2.3 mm or 6 x 6 mm

MORE INFO
→ **Overview of mullions:** see page **43**
→ **Full specifications:** see page **44**

DucoWall
Classic W 20Z

DucoWall Classic W 20Z is a louvre wall system that can be fitted against a support structure. Quick and easy assembly is possible because of the 'Turn-Click' system. The **"Z"-shaped louvre blade** produces a sleek design.



DIMENSIONS AND MULLIONS

Type of mullion	50/12	21/50 Multi	50/50	50/125
Louvre pitch	35 mm			
Louvre depth	23 mm			
Installation depth	35 mm	73 mm	73 mm	148 mm
Maximum span between 2 mullions	← 1200 mm →			

VENTILATION VALUES

Property		STND	+OPT
Visual free area		63 %	63 %
Physical free area		47 %	47 %
Ce (higher is better)		0,210	0,203
Cd (higher is better)		0,181	0,174
K-FACTOR (lower is better)	INTAKE	22,68	24,27
	EXHAUST	30,52	33,03

WATER RESISTANCE

Air velocity	Class	
	STND	+OPT
0 m/s	C	B
0,5 m/s	C	B
1 m/s	D	C
1,5 m/s	D	D
2 m/s	D	D
2,5 m/s	D	D

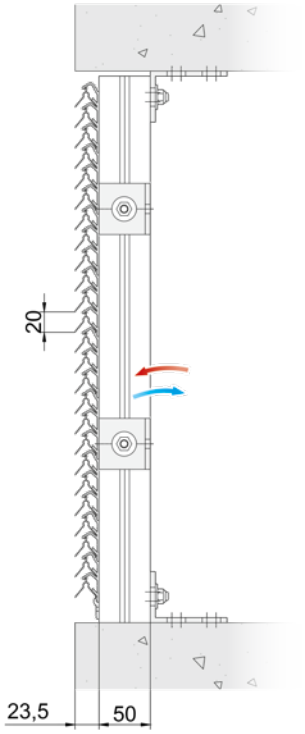
STND and +OPT version: see page 5

Insect protection: optional stainless steel mesh 2.3 x 2.3 mm or 6 x 6 mm

MORE INFO
→ **Overview of mullions:** see page **43**
→ **Full specifications:** see page **44**

DucoWall
Classic W 20V

DucoWall Classic W 20V is a louvre wall system that can be fitted against a support structure. Quick and easy assembly is possible because of the 'Turn-Click' system. The unique **"V"-shaped louvre blade** ensures better water resistance and makes the louvre wall 'penetration-proof' and difficult to see through from the outside.



DIMENSIONS AND MULLIONS

Type of mullion	50/12	21/50 Multi	50/50	50/125
Louvre pitch	20 mm			
Louvre depth	23 mm			
Installation depth	35 mm	73 mm	73 mm	148 mm
Maximum span between 2 mullions	← 1850 mm →			

VENTILATION VALUES

Property		STND	+OPT
Visual free area		95 %	95 %
Physical free area		37 %	37 %
Ce (higher is better)		0,155	0,149
Cd (higher is better)		0,155	0,149
K-FACTOR (lower is better)	INTAKE	41,62	45,04
	EXHAUST	41,62	45,04

WATER RESISTANCE

Air velocity	Class	
	STND	+OPT
0 m/s	A	A
0,5 m/s	B	A
1 m/s	C	B
1,5 m/s	D	B
2 m/s	D	C
2,5 m/s	D	D

STND and +OPT version: see page 5

Insect protection: optional stainless steel mesh 2.3 x 2.3 mm or 6 x 6 mm

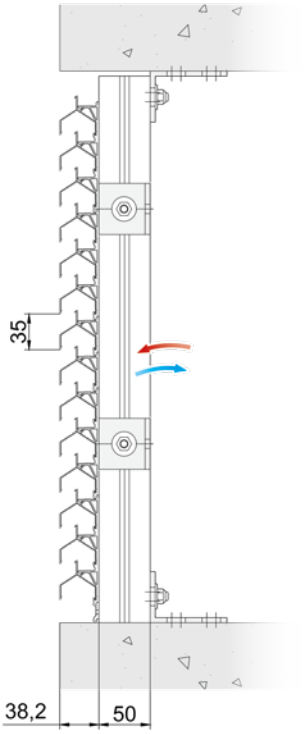
MORE INFO
→ **Overview of mullions:** see page 43
→ **Full specifications:** see page 44

Good water resistant

Penetration safe

DucoWall
Classic W 35V

DucoWall Classic W 35V is a louvre wall system that can be fitted against a support structure. Quick and easy assembly is possible because of the 'Turn-Click' system. The unique **"V"-shaped louvre blade** ensures better water resistance and makes the louvre wall 'penetration-proof' and difficult to see through from the outside.



DIMENSIONS AND MULLIONS

Type of mullion	50/12	21/50 Multi	50/50	50/125
Louvre pitch	35 mm			
Louvre depth	38 mm			
Installation depth	50 mm	88 mm	88 mm	163 mm
Maximum span between 2 mullions	← 2650 mm →			

VENTILATION VALUES

Property		STND	+OPT
Visual free area		59 %	59 %
Physical free area		35 %	35 %
Ce (higher is better)		0,118	0,116
Cd (higher is better)		0,124	0,123
K-FACTOR (lower is better)	INTAKE	71,82	74,32
	EXHAUST	65,04	66,10

WATER RESISTANCE

Air velocity	Class	
	STND	+OPT
0 m/s	A	A
0,5 m/s	A	A
1 m/s	A	A
1,5 m/s	A	A
2 m/s	C	B
2,5 m/s	C	C

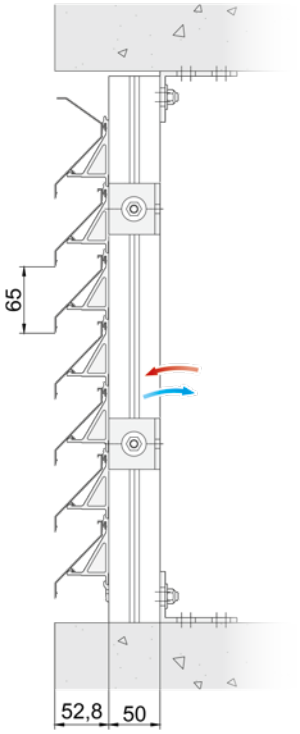
STND and +OPT version: see page 5

Insect protection: optional stainless steel mesh 2.3 x 2.3 mm or 6 x 6 mm

MORE INFO
→ **Overview of mullions:** see page 43
→ **Full specifications:** see page 44

DucoWall
Classic W 50Z

DucoWall Classic W 50Z is a louvre wall system that can be placed against a support structure. Quick and easy assembly is possible because of the 'Turn-Click' system. The **"Z"-shaped louvre blade** produces a sleek design.



DIMENSIONS AND MULLIONS

Type of mullion	50/12	21/50 Multi	50/50	50/125
Louvre pitch	65 mm			
Louvre depth	53 mm			
Installation depth	65 mm	103 mm	103 mm	178 mm
Maximum span between 2 mullions	← 1550 mm →			

VENTILATION VALUES

Property		STND	+OPT
Visual free area		75 %	75 %
Physical free area		52 %	52 %
Ce (higher is better)		0,205	0,207
Cd (higher is better)		0,278	0,266
K-FACTOR (lower is better)	INTAKE	23,80	23,34
	EXHAUST	12,94	14,13

WATER RESISTANCE

Air velocity	Class	
	STND	+OPT
0 m/s	B	A
0,5 m/s	C	B
1 m/s	C	B
1,5 m/s	C	C
2 m/s	D	C
2,5 m/s	D	D

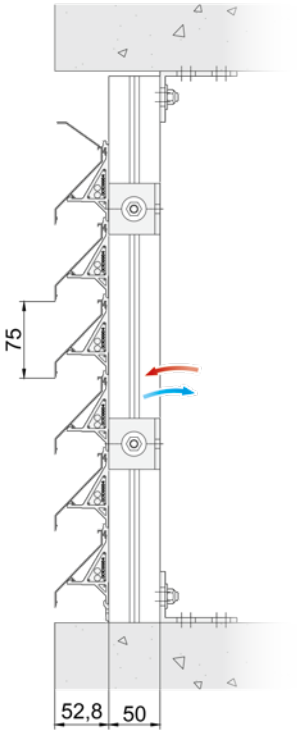
STND and +OPT version: see page 5

Insect protection: optional stainless steel mesh 2.3 x 2.3 mm or 6 x 6 mm

MORE INFO
→ **Overview of mullions:** see page **43**
→ **Full specifications:** see page **44**

DucoWall
Classic W 50/75Z

DucoWall Classic W 50/75Z is a louvre wall system that can be fitted against a support structure. Quick and easy assembly is possible because of the 'Turn-Click' system. The **"Z"-shaped louvre blade** produces a sleek design.



DIMENSIONS AND MULLIONS

Type of mullion	50/12	21/50 Multi	50/50	50/125
Louvre pitch	75 mm			
Louvre depth	53 mm			
Installation depth	65 mm	103 mm	103 mm	178 mm
Maximum span between 2 mullions	← 1550 mm →			

VENTILATION VALUES

Property		STND	+OPT
Visual free area		80 %	80 %
Physical free area		54 %	54 %
Ce (higher is better)		0,219	0,219
Cd (higher is better)		0,297	0,288
K-FACTOR (lower is better)	INTAKE	20,85	20,85
	EXHAUST	11,34	12,06

WATER RESISTANCE

Air velocity	Class	
	STND	+OPT
0 m/s	B	A
0,5 m/s	C	B
1 m/s	C	B
1,5 m/s	D	C
2 m/s	D	C
2,5 m/s	D	D

STND and +OPT version: see page 5

Insect protection: optional stainless steel mesh 2.3 x 2.3 mm or 6 x 6 mm

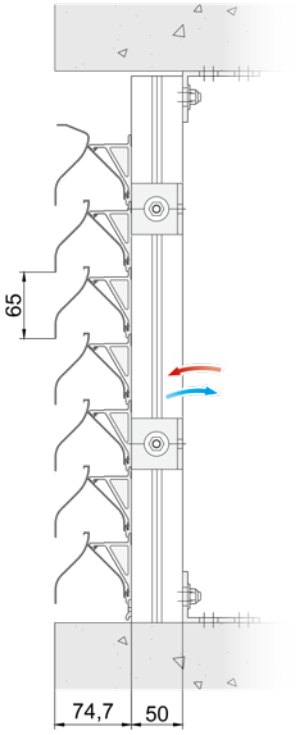
MORE INFO
→ **Overview of mullions:** see page **43**
→ **Full specifications:** see page **44**

Good water resistant

Penetration safe

DucoWall
Classic W 70V

DucoWall Classic W 70V is a louvre wall system that can be fitted against an existing structure. Quick and easy assembly is possible because of the 'Turn-Click' system. The unique **"V"-shaped louvre blade** ensures better water resistance and makes the louvre wall 'penetration-proof' and difficult to see through from the outside.



DIMENSIONS AND MULLIONS

Type of mullion	50/12	21/50 Multi	50/50	50/125
Louvre pitch	65 mm			
Louvre depth	75 mm			
Installation depth	87 mm	125 mm	125 mm	200 mm
Maximum span between 2 mullions	← 2150 mm →			

VENTILATION VALUES

Property		STND	+OPT
Visual free area		65 %	65 %
Physical free area		44 %	44 %
Ce (higher is better)		0,117	0,111
Cd (higher is better)		0,109	0,103
K-FACTOR (lower is better)	INTAKE	73,05	81,16
	EXHAUST	84,17	94,26

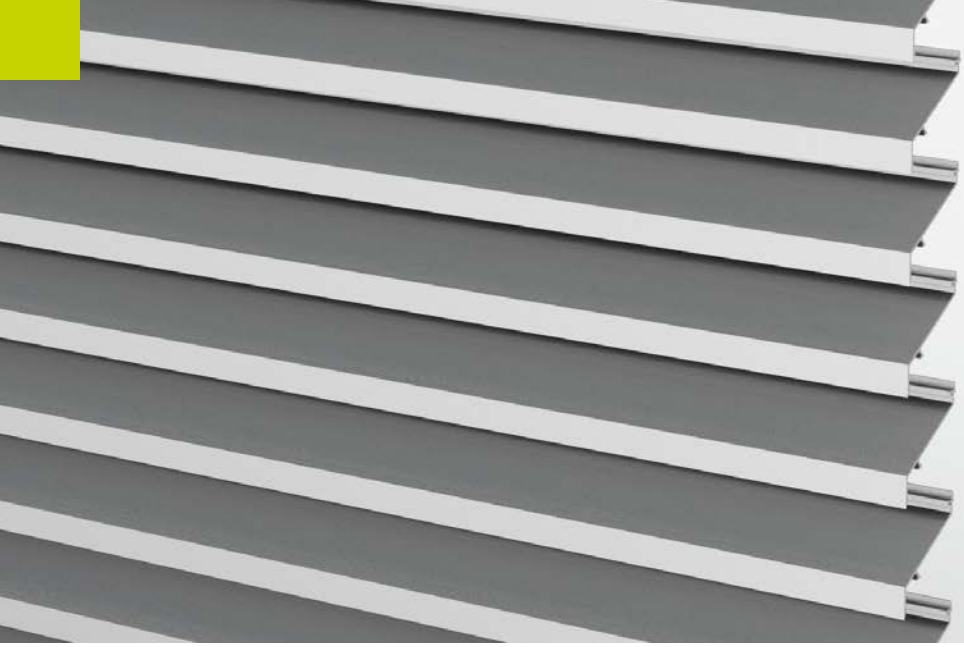
WATER RESISTANCE

Air velocity	Class	
	STND	+OPT
0 m/s	B	A
0,5 m/s	B	B
1 m/s	B	B
1,5 m/s	C	C
2 m/s	D	D
2,5 m/s	D	D

STND and +OPT version: see page 5

Insect protection: optional stainless steel mesh 2.3 x 2.3 mm or 6 x 6 mm

MORE INFO
→ **Overview of mullions:** see page **43**
→ **Full specifications:** see page **44**

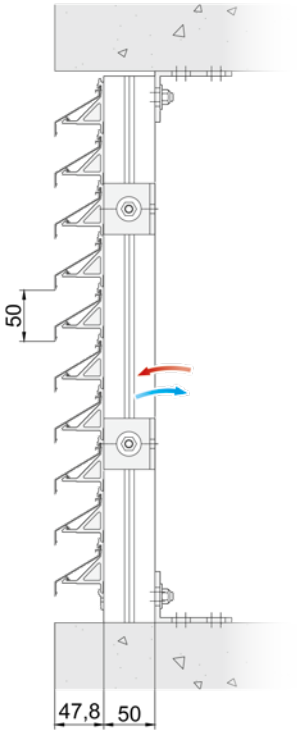


HP

High Performance

DucoWall
Classic W 45HP

The DucoWall Classic W 45HP combines **very good airflow** with a **'Z'-shaped louvre blade** for a sleek design. This makes the DucoWall Classic W 45HP suitable for purge ventilation in projects with specific aesthetic requirements.



DIMENSIONS AND MULLIONS

Type of mullion	50/12	21/50 Multi	50/50	50/125
Louvre pitch	50 mm			
Louvre depth	48 mm			
Installation depth	60 mm	98 mm	98 mm	173 mm
Maximum span between 2 mullions	← 1330 mm →			
Louvre blade holders	Plastic Metal Clip Reaction to fire A2-s1,d0 (EN13501-1)			

VENTILATION VALUES

Property		STND	+OPT
Visual free area		70 %	70 %
Physical free area		60 %	60 %
Ce (higher is better)		0,295	0,295
Cd (higher is better)		0,385	0,369
K-FACTOR (lower is better)	INTAKE	11,49	11,49
	EXHAUST	6,75	7,34

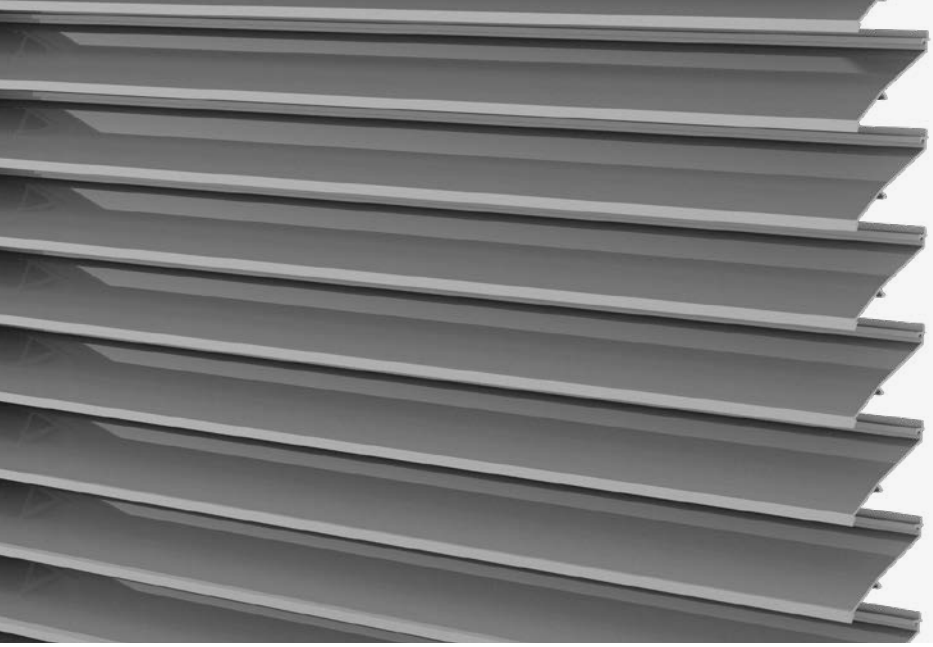
WATER RESISTANCE

Air velocity	Class	
	STND	+OPT
0 m/s	C	B
0,5 m/s	C	B
1 m/s	C	C
1,5 m/s	C	C
2 m/s	D	C
2,5 m/s	D	C

STND and +OPT version: see page 5

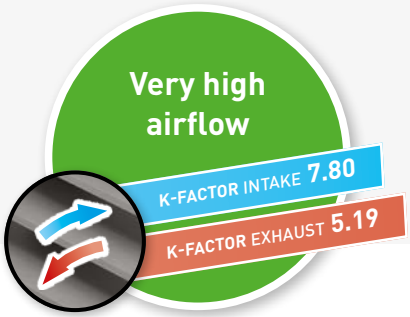
Insect protection: optional stainless steel mesh 2.3 x 2.3 mm or 6 x 6 mm

MORE INFO
→ **Overview of mullions:** see page **43**
→ **Full specifications:** see page **44**



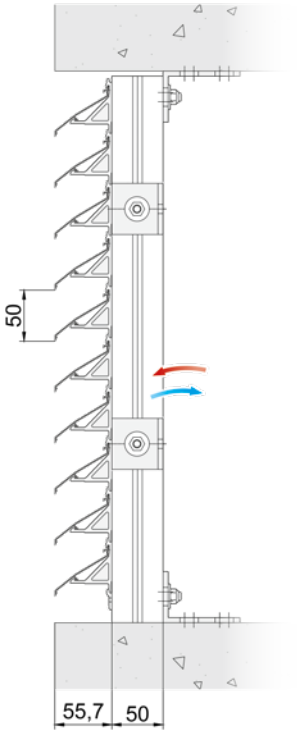
HP

High Performance



DucoWall
Classic W 50HP

The DucoWall Classic W 50HP has been specially developed **for purge ventilation**. The uniquely shaped 'High Performance' louvre blade with a low resistance factor ensures **very good airflow**. The DucoWall Classic W 50HP is a louvre wall system that can be fitted against an existing structure. Quick and easy assembly is possible because of the 'Turn-Click' system.



DIMENSIONS AND MULLIONS

Type of mullion	50/12	21/50 Multi	50/50	50/125
Louvre pitch	50 mm			
Louvre depth	56 mm			
Installation depth	68 mm	106 mm	106 mm	181 mm
Maximum span between 2 mullions	← 1100 mm →			
Louvre blade holders	Plastic Metal Clip Reaction to fire A2-s1,d0 (EN13501-1)			

VENTILATION VALUES

Property		STND	+OPT
Visual free area		88 %	88 %
Physical free area		68 %	68 %
Ce (higher is better)		0,358	0,352
Cd (higher is better)		0,439	0,415
K-FACTOR (lower is better)	INTAKE	7,80	8,07
	EXHAUST	5,19	5,81

WATER RESISTANCE

Air velocity	Class	
	STND	+OPT
0 m/s	C	B
0,5 m/s	C	B
1 m/s	C	B
1,5 m/s	D	C
2 m/s	D	C
2,5 m/s	D	C

STND and +OPT version: see page 5

Insect protection: optional stainless steel mesh 2.3 x 2.3 mm or 6 x 6 mm

MORE INFO
→ **Overview of mullions:** see page **43**
→ **Full specifications:** see page **44**

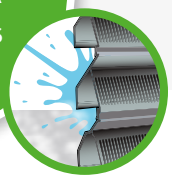
High Performance

Excellent water resistance

Fall-through protection

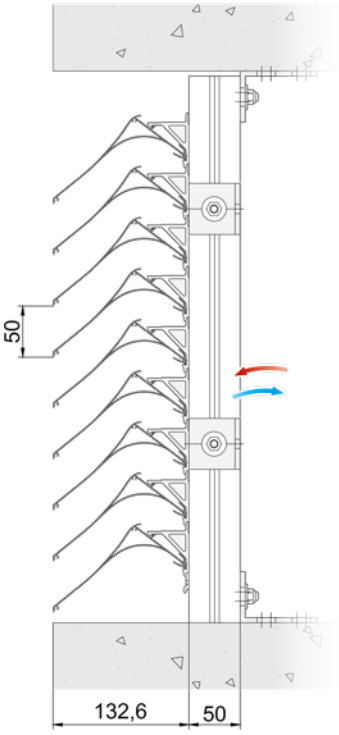
Impact protection

water resistance
CLASS A
up to 2 m/s



DucoWall
Classic W 130HP

The DucoWall Classic W 130HP has been specially developed for **purge ventilation**. The uniquely shaped 'High Performance' louvre blade with a low resistance factor provides a combination of **very good airflow** (high flow rates) together with **excellent water resistance (class A)**. DucoWall Classic W 130HP is a louvre wall system that can be fitted against an existing structure. Quick and easy assembly is possible because of the 'Turn-Click' system. The DucoWall Classic W 130HP meets class 5 of EN13049 for **impact protection*** and BS6180 standard (class XI) for **fall-through protection***. See page 38-39 for all classes per country.



DIMENSIONS AND MULLIONS

Type of mullion	50/12	21/50 Multi	50/50	50/125
Louvre pitch	50 mm			
Louvre depth	133 mm			
Installation depth	145 mm	183 mm	183 mm	258 mm
Maximum span between 2 mullions	← 2300 mm →			
Louvre blade holders	Plastic Metal Clip Reaction to fire A2-s1,d0 (EN13501-1)			

VENTILATION VALUES

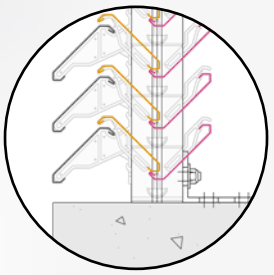
Property		STND	+OPT
Visual free area		88 %	n/a
Physical free area		70 %	n/a
Ce (higher is better)		0,327	n/a
Cd (higher is better)		0,295	n/a
K-FACTOR (lower is better)	INTAKE	9,35	n/a
	EXHAUST	11,49	n/a

WATER RESISTANCE

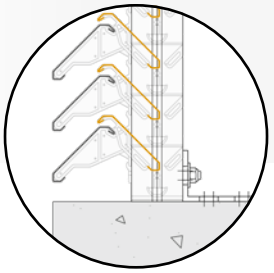
Air velocity	Class	
	STND	+OPT
0 m/s	A	n/a
0,5 m/s	A	n/a
1 m/s	A	n/a
1,5 m/s	A	n/a
2 m/s	A	n/a
2,5 m/s	C	n/a

STND and +OPT version: **see page 5** Insect protection: optional stainless steel mesh 2.3 x 2.3 mm or 6 x 6 mm
* Impact and fall-through protection only applies in combination with Metal Clips.

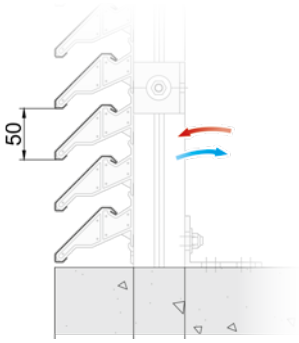
MORE INFO
→ **Overview of mullions:** see page **43**
→ **Full specifications:** see page **44**



W 60C/3
triple row of louvre blades



W 60C/2
double row of louvre blades



W 60C
single row of louvre blades

DucoWall
Classic W 60C

DucoWall Classic W 60C is a 'feature' louvre wall system, manufactured from 'cold-rolled' rather than extruded, aluminium louvre blades. The plastic louvre holders ensure a unique sturdiness. The three versions **(single, double or triple)** combine maximum airflow with **very high water resistance**, even in extreme weather conditions.

DIMENSIONS AND MULLIONS

Type of mullion		50/12	21/50 Multi	50/50	50/125
Louvre pitch		50 mm			
Louvre depth		77 mm			
Installation depth	**60C**	89 mm	127 mm	127 mm	202 mm
	60C/2	×			
	60C/3				
Maximum span between 2 mullions		← 1250 mm →			

VENTILATION VALUES

Property		60C		60C/2		60C/3	
		STND	**+OPT**	**STND**	**+OPT**	**STND**	**+OPT**
Visual free area		84 %	84 %	84 %	84 %	84 %	84 %
Physical free area		46 %	46 %	36 %	36 %	36 %	36 %
Ce (higher is better)		0,315	0,300	0,208	0,202	0,179	0,175
Cd (higher is better)		0,305	0,291	0,196	0,191	0,153	0,151
K-FACTOR (lower is better)	INTAKE	10,08	11,11	23,11	24,51	31,21	32,65
	EXHAUST	10,75	11,81	26,03	27,41	42,72	43,86

WATER RESISTANCE

Air velocity	Class					
	60C		60C/2		60C/3	
	STND	**+OPT**	**STND**	**+OPT**	**STND**	**+OPT**
0 m/s	B	B	A	A	A	A
0,5 m/s	C	C	A	A	A	A
1 m/s	C	C	B	B	A	A
1,5 m/s	D	D	C	C	A	A
2 m/s	D	D	C	C	A	A
2,5 m/s	D	D	C	C	C	C

STND and +OPT version: see page 5

Insect protection: optional stainless steel mesh 2.3 x 2.3 mm or 6 x 6 mm

MORE INFO
→ **Overview of mullions:** see page 43
→ **Full specifications:** see page 44

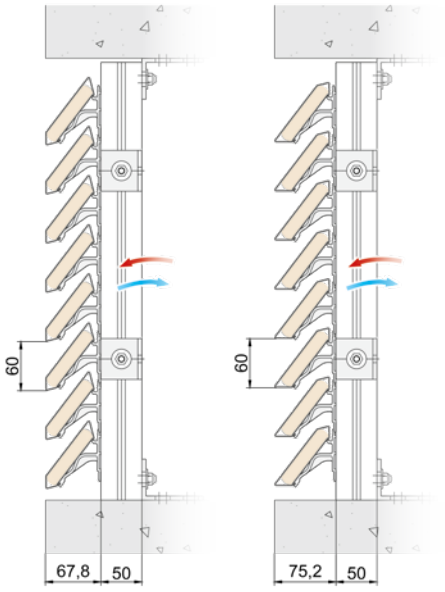
Suitable for moderate noise levels

W 75Z

W 75L

DucoWall **Acoustic** **W 75Z** & **75L**

The DucoWall Acoustic W 75Z and W 75L are **sound-absorbing** louvre wall systems, manufactured from extruded aluminium sections profiles that feature sound absorbing, non-combustible mineral wool. The louvre blade can be clicked onto the plastic louvre holders **in both the Z-shape and the L-shape** for different aesthetic finishes.



W 75Z W 75L

DIMENSIONS AND MULLIONS

Type of mullion		50/12	21/50 Multi	50/50	50/125
Louvre pitch		60 mm			
Louvre depth		67 mm			
Installation depth	75Z	79 mm	117 mm	117 mm	192 mm
	75L	87 mm	125 mm	125 mm	200 mm
Maximum span between 2 mullions	75Z	← 1700 mm →			
	75L	← 1650 mm →			

SOUND ABSORPTION

Attenuation value Rw (C;Ctr)	
W 75Z	W 75L
6 (0;-1) dB	**6 (0;-2) dB**

VENTILATION VALUES

Property		75Z		75L	
		STND	+OPT	STND	+OPT
Visual free area		76 %	76 %	95 %	95 %
Physical free area		28 %	28 %	28 %	28 %
Ce (higher is better)		0,196	0,196	0,212	0,209
Cd (higher is better)		0,183	0,182	0,258	0,254
K-FACTOR (lower is better)	INTAKE	26,03	26,03	22,25	22,89
	EXHAUST	29,86	30,19	15,02	15,50

WATER RESISTANCE

Air velocity	Class			
	75Z		75L	
	STND	+OPT	STND	+OPT
0 m/s	B	B	B	B
0,5 m/s	B	B	B	B
1 m/s	C	C	C	C
1,5 m/s	C	C	D	D
2 m/s	D	D	D	D
2,5 m/s	D	D	D	D

STND and +OPT version: see page 5

Insect protection: optional stainless steel mesh 2.3 x 2.3 mm or 6 x 6 mm

MORE INFO
→ Overview of mullions: see page 43
→ Full specifications: see page 44

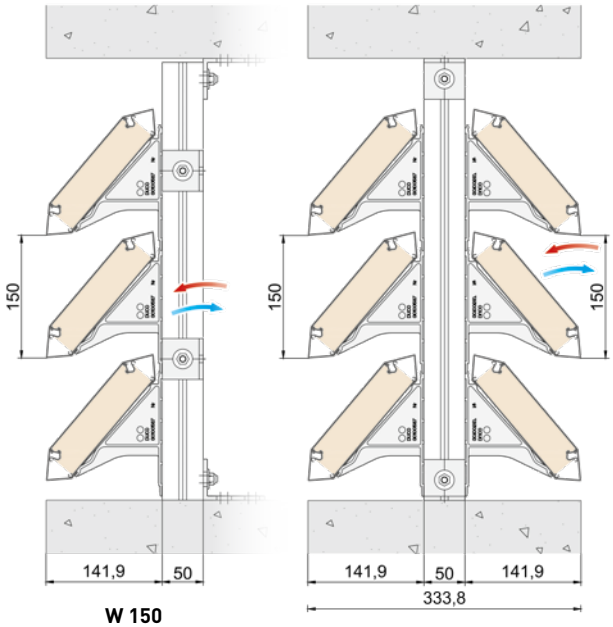
Suitable for high noise levels

W 150

W 300

DucoWall **Acoustic**
W 150 & 300

The DucoWall Acoustic W 150 is a sound absorbing louvre wall system, manufactured from extruded aluminium sections featuring sound-absorbing, non-combustible mineral wool, suitable for **additional acoustic damping**. With the DucoWall Acoustic W 300, two 150 louvre blades are fitted next to each other for optimum sound absorption.



W 150 (single row)

W 300 (double row)

DIMENSIONS AND MULLIONS

Type of mullion		50/12	21/50 Multi	50/50	50/125
Louvre pitch		150 mm			
Louvre depth		142 mm			
Installation depth	150	154 mm	192 mm	192 mm	267 mm
	300				×
Maximum span between 2 mullions		← 2150 mm →			

SOUND ABSORPTION

Attenuation value Rw (C;Ctr)	
W 150	W 300
11 (-1;-2) dB	**17 (-1;-3) dB**

VENTILATION VALUES

Property		150		300	
		STND	+OPT	STND	+OPT
Visual free area		74 %	74 %	74 %	74 %
Physical free area		35 %	35 %	35 %	35 %
Ce (higher is better)		0,301	0,295	0,272	0,250
Cd (higher is better)		0,302	0,296	0,272	0,250
K-FACTOR (lower is better)	INTAKE	11,04	11,49	13,52	16,00
	EXHAUST	10,96	11,41	13,52	16,00

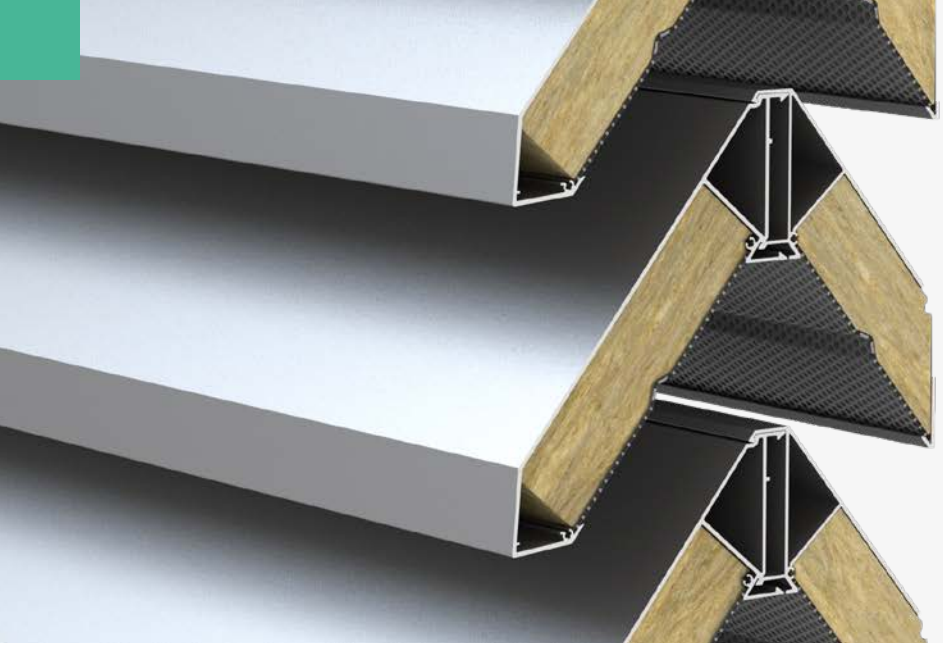
WATER RESISTANCE

Air velocity	Class			
	150		300	
	STND	+OPT	STND	+OPT
0 m/s	B	B	A	A
0,5 m/s	C	C	B	B
1 m/s	C	C	B	B
1,5 m/s	C	C	C	C
2 m/s	D	D	C	C
2,5 m/s	D	D	D	D

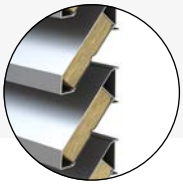
STND and +OPT version: see page 5

Insect protection: optional stainless steel mesh 2.3 x 2.3 mm or 6 x 6 mm

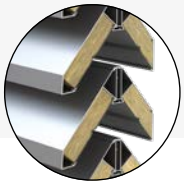
MORE INFO
→ Overview of mullions: see page 43
→ Full specifications: see page 44



Suitable for high noise levels



Single Bank



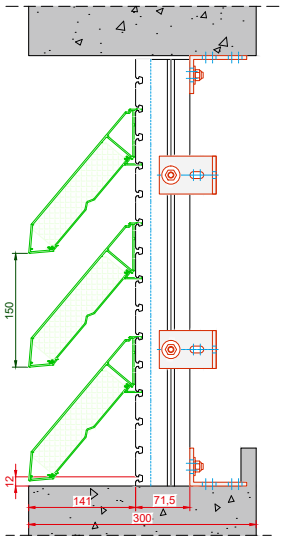
Double Bank

DucoWall
Screening Acoustic

DucoWall Screening Acoustic is a sturdy **aluminium louvre wall system with acoustic damping**. There is a choice of two different louvre pitches: 112.5 or 150 mm.

The acoustic damping can be further improved by applying the Double Bank, where an additional blade is clicked on at the back. In this way, the louvre wall can be adapted to the wishes and needs of any project.

Installation is quick, as the blades are placed directly on the mullion.



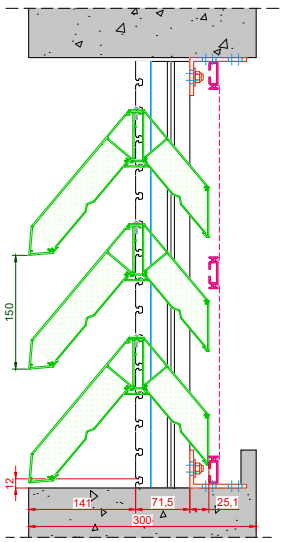
Single Bank

SOUND ABSORPTION

Attenuation value Rw (C;Ctr)			
Single Bank 112	Double Bank 112	Single Bank 150	Double Bank 150
14 (-1;-4) dB	**17 (-1;-4) dB**	**11 (0;-2) dB**	**15 (-1;-3) dB**

DIMENSIONS AND MULLIONS

Type of mullion		40/21 (Double)	40/70 Double	40/100 Double
Louvre pitch		112.5 mm or 150 mm		
Louvre depth	Single Bank	150 mm		
	Double Bank	238 mm		
Installation depth	Single Bank	162 mm	212 mm	242 mm
	Double Bank	238 mm	238 mm	242 mm
Maximum span between 2 mullions		← 2425 mm →		



Double Bank

MORE INFO
→ Overview of mullions: see page 43
→ Full specifications: see page 44

WATER RESISTANCE

Air velocity	Class							
	Single Bank 112		Double Bank 112		Single Bank 150		Double Bank 150	
	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT
0 m/s	B	B	A	A	C	B	B	A
0,5 m/s	C	B	B	A	D	C	B	A
1 m/s	C	C	C	A	D	C	C	A
1,5 m/s	D	C	C	B	D	D	C	B
2 m/s	D	D	D	C	D	D	D	C
2,5 m/s	D	D	D	D	D	D	D	D

VENTILATION VALUES

Property		Single Bank 112		Double Bank 112		Single Bank 150		Double Bank 150	
		STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT
Visual free area		66 %	66 %	66 %	66 %	74 %	74 %	74 %	74 %
Physical free area		25 %	25 %	25 %	25 %	35 %	35 %	35 %	35 %
Ce (higher is better)		0,254	0,226	0,197	0,182	0,295	0,252	0,211	0,200
Cd (higher is better)		0,253	0,231	0,196	0,175	0,290	0,251	0,193	0,175
K-FACTOR (lower is better)	INTAKE	15,50	19,58	25,77	30,19	11,49	15,75	22,46	25,00
	EXHAUST	15,62	18,74	26,03	32,65	11,89	15,87	26,85	32,65

STND and +OPT version: see page 5

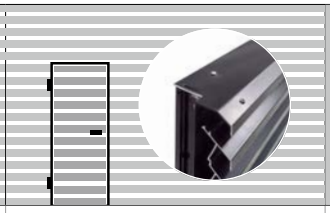
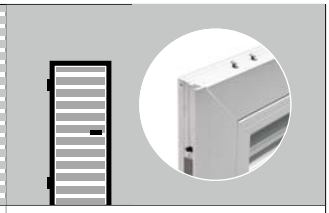
Insect protection: optional stainless steel mesh 2.3 x 2.3 mm or 6 x 6 mm

DucoWall **Classic 130HP**

CAR-T | Zwijnaarde (Belgium)

DUCO LOUVRE DOORS

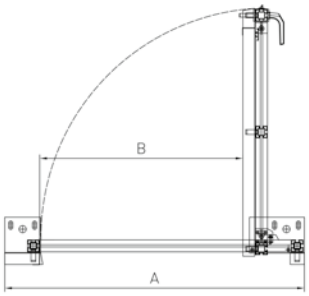
The louvre door range enables you to choose between the **DucoDoor Wall**, **DucoDoor Louvre** and **DucoDoor Grille** depending on the aesthetic, technical and legal requirements of the building. DUCO's louvre doors are suitable for use in (technical) rooms – whether or not at ground level, in car parks, etc. either **ventilating** or as (draught-proof) **false louvre doors**. All of our doors will guarantee a **sleek and uniform look**.

Type			
	DucoDoor Wall see p. 31	**DucoDoor Louvre** see p. 32	**DucoDoor Grille** see p. 33
Application	Louvre door in louvre wall system without specific requirements.	Ventilated louvre door or false louvre door in the louvre wall system with specific requirements for burglary resistance and/or draught-proofing.	Free-standing ventilated louvre door or false louvre door either with or without specific requirements for burglary resistance and/or draught-proofing.
Vandal-proof	✓ Subject to Solid 30Z louvre blades	✓ Subject to Solid 30Z louvre blades	✓
Burglar resistant RC2	✗	✓ RC2 possible with NP or P1 internal louvre blades	✓ RC2 possible with NP or P1 blades
Draught-proof	✗	✓ Possible subject to NP louvre blades	✓ Possible subject to NP louvre blades
Louvre blades	Complete DucoWall range possible	Complete DucoWall range available as surface-mounted blades, combined with Solid 30Z internal blades as an option	Solid 30Z NP, P1 or P2 louvre blades
Opening angle			
Available versions	Single / double door | opening inwards / outwards | left / right-hand opening available		
Maximum usable dimensions	Single door: W 1500 x H 3000 mm | Double door: W 3000 x H 3000 mm		
Door furniture	Comes with a lever handle on the inside of the door and a T-handle on the outside as standard. Other combinations available on request. Panic lock available on doors that act as an emergency exit (only for doors less than 2.2 m high, outward opening and not on intrusion-resistant doors).		

Duco**Door** **Wall**

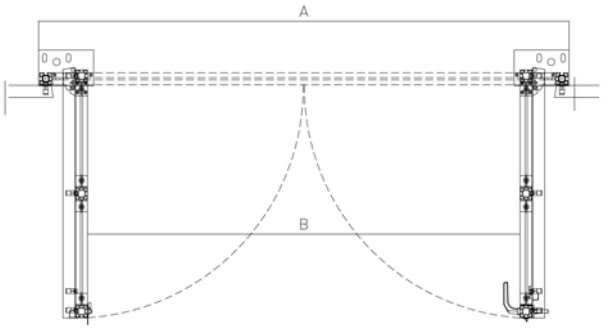
The DucoDoor Wall is a **pivot door** that can be easily constructed using the same louvre blades and sections as your chosen louvre wall.
Thanks to a wide range of Solid, Classic and Screening louvre blades, the DucoDoor Wall integrates seamlessly and **invisibly into a full louvre wall**. This guarantees a sleek and **uniform façade**.

Single door
opening **inwards**

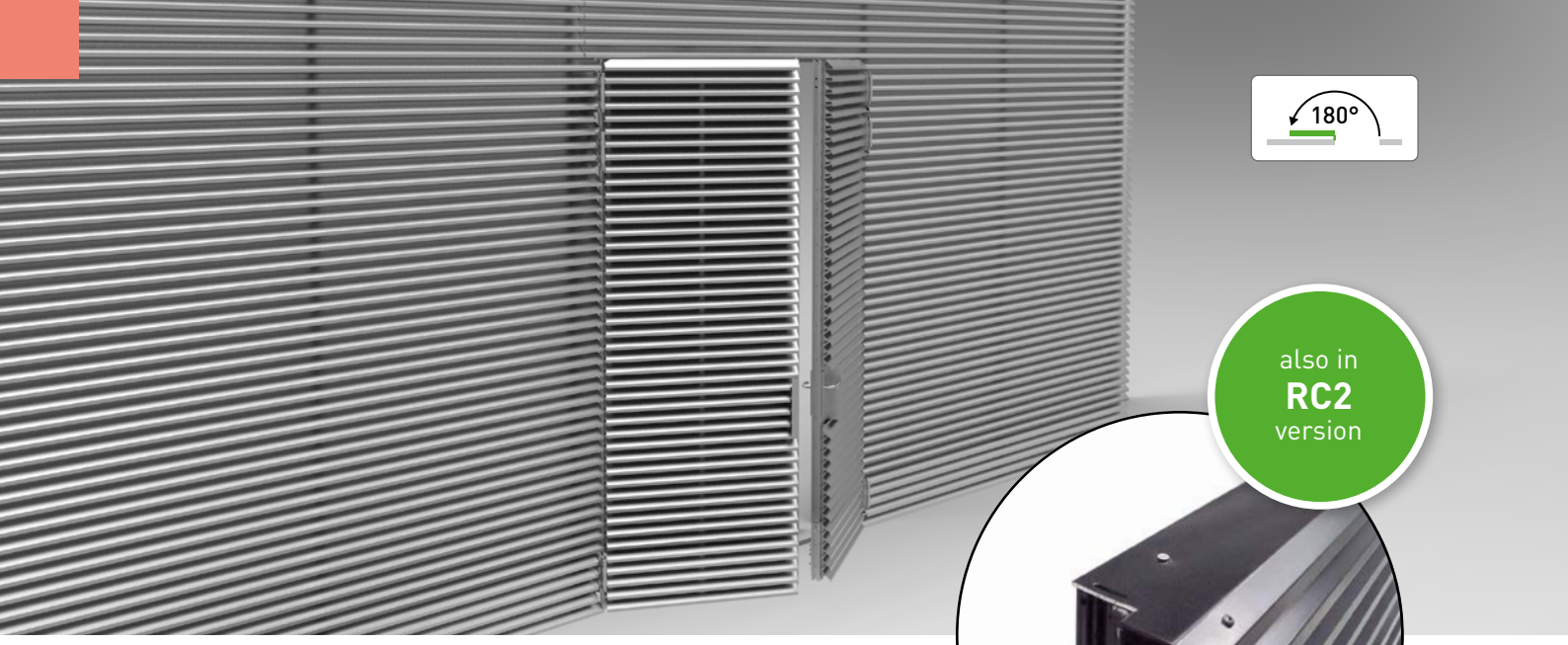


Single door
opening **outwards**

Double door
opening **outwards**



A = overall dimension
B = useful width



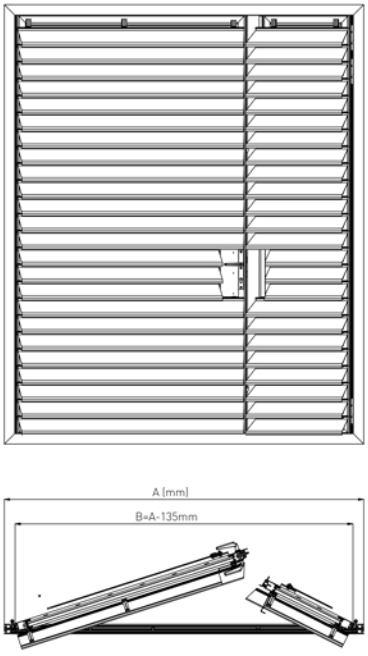
also in **RC2** version

Duco**Door** Louvre

With the DucoDoor Louvre, DUCO has developed an **intrusion-resistant louvre door** that has been extensively tested by SKG in accordance with European standards (EN 1627:2011 & NEN 5096+C2:2011) and has been certified as **resistance class RC2**. The DucoDoor Louvre can also be made **draughtproof**. The special hinges fitted on the side create a **large usable width** and enable the door to be opened **by 180°**. This type of louvre door can be easily concealed in a louvre wall as it can draw on the **complete range** of Solid, Classic and Screening louvre blades.

Single door
opening **outwards**

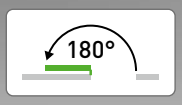
Double door
opening **inwards**



A = overall dimension
B = useful width

BURGLAR RESISTANT

DucoDoor Louvre can be ordered up to intrusion-resistance class RC2 as an option. Certification available upon request.

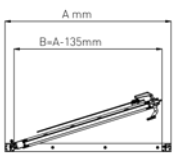


also in **RC2** version

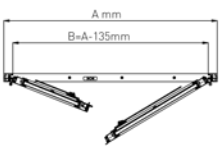
Duco**Door** Grille

As a **free-standing entrance door**, the DucoDoor Grille is eminently suitable for non-louvre walls. Thanks to the fact that the **Solid blades built in as standard** (type 30Z) can be slotted in three different ways, (P1, P2 or NP), the façade can be given an aesthetic and expressive character. The DucoDoor Grille also scores high on **burglary resistance** . The Solid blades make every version **vandal-proof**. What is more, this louvre door has been tested by SKG in accordance with European standards (EN 1627:2011 & NEN 5096+C2:2011) and an **RC2-certified version** is available. In addition, the DucoDoor Grille can be made completely **draught-proof**. The special hinges fitted on the side create a **large usable width** and enable the door to be opened **by 180°**.

Single door
opening **inwards**



Double door
opening **outwards**



A = overall dimension
B = useful width

BURGLAR RESISTANT

DucoDoor Grille can be ordered up to intrusion-resistance class RC2 as an option. Certification available upon request.

SPECIFICATIONS

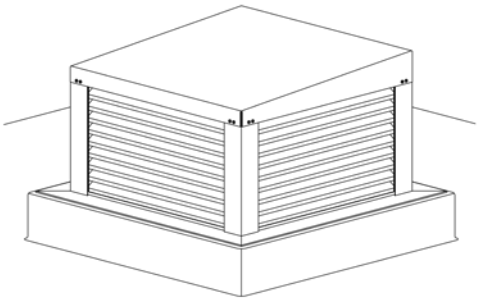
DucoDoor Grille uses Solid 30Z louvre blades. All specifications relating to ventilation capacity, water-resistance and insect-resistance can be found on page 8.

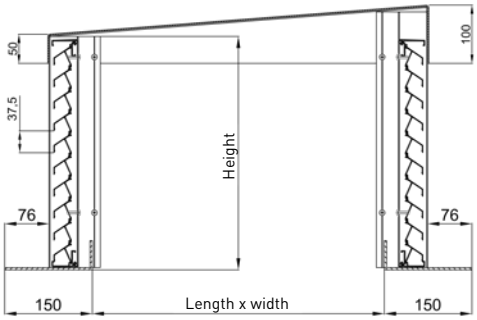
DucoWall **Classic 45HP**

Data Centre | London (England)

Duco **Roof Turret** Solid **30Z**

Duco Roof Turret Solid 30Z is an aluminium roof turret. It provides aesthetic concealment of air vents. The roof turret also ensures adequate **purge ventilation** of the screened areas and can be used in almost **any project**. The perforated Solid 30Z louvre blades are the ideal solution for both insect resistance and ventilation capacity. Thanks to large punching (P2), this **small roof turret** achieves **high ventilation values**. The roof cowls are **made to measure** and provided with a sill at the bottom and a cover plate on top.





DIMENSIONS

Louvre pitch	37,5 mm
Roof turret length	Min. 200 mm - Max. 2630 mm (to be coupled)
Roof turret width	Min. 200 mm - Max. 1180 mm (to be coupled)
Roof turret height	Min. 255 mm - max. 1600 mm

VENTILATION VALUES

Property		P1	P2	P2 + ECG
		STND	STND	STND
Visual free area		60 %	86 %	86 %
Physical free area		34 %	48 %	48 %
Ce (higher is better)		0,243	0,258	0,179
Cd (higher is better)		0,234	0,253	0,202
K-FACTOR (lower is better)	INTAKE	16,94	15,02	31,21
	EXHAUST	18,26	15,62	24,51

STND and +OPT version: see page 5

*ECG = Eggcrate grille (see page 37)

WATER RESISTANCE

Air velocity	Class		
	P1	P2	P2 + ECG
	STND	STND	STND
0 m/s	B	C	A
0,5 m/s	C	C	A
1 m/s	C	C	A
1,5 m/s	D	D	B
2 m/s	D	D	C
2,5 m/s	D	D	C

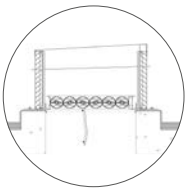
Sill profile

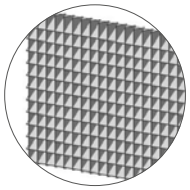
The **Duco Roof Turret Solid 30Z** also exists as a variant with sill profile. The sill profile ensures **better water drainage**. The sill profile allows the roof covering to be completely concealed. This provides an **aesthetic finish**. It also offers more placement options.

OPTIONS DUCO ROOF TURRET SOLID 30Z

DucoGrille Close 105

The DucoGrille Close 105 can, as an option, be integrated in the roof turret, thereby ensuring a controlled air supply or extraction. More info on the DucoGrille Close 105 can be found in our 'Louvre Grilles' brochure.



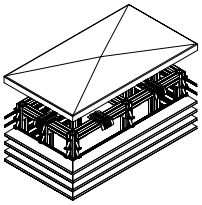


Eggcrate grille

The Duco Roof Turret Solid 30Z is available with an optional Eggcrate grille, which provides even better water resistance (combination with the P2 louvre blades).

ROOF COWLS WITH OTHER LOUVRE BLADES

In addition to the Duco Roof Turret Solid 30Z, DUCO also offers a system in which almost **all types of louvre blade** from the DucoWall range can be used. These roof cowls are made up of profiles from the DucoWall range. The upper panel and finishing thresholds are included. They are available as separate parts, semi-assembled kits or fully assembled kits. Do you need more info? Contact your DUCO dealer.



IMPACT AND FALL-THROUGH PROTECTION

Façade elements are increasingly expected to meet "impact protection" and "fall-through protection" requirements:

Impact protection

The resistance of a material to which an intense force or shock is exerted for a short period of time.

Fall-through protection

The load applied to resist penetration that prevents people from falling through this barrier.

Note: often a specific mounting method applies or the test is only valid for specific versions (e.g. a certain step, a certain maximum span ...).

Contact DUCO for more information. Full test reports can be requested from DUCO.

Overview of results

DUCO products achieve very good results in terms of impact and fall-through protection:

	Impact protection		Fall-through protection			
	EN 13049	**NF P08-302**	**B03-004**	**NEN EN1991-1-1**	**NF P01-013**	**BS6180**
Maximum class	Class 5	H2	Class C5	Class C5	C1-C5/D	XI
DUCOWALL CLASSIC						
DucoWall Classic **W 130HP Metal Clip**	Class 5	-	C5a	A/B/F/G	-	XI
DUCOWALL SCREENING ACOUSTIC						
DucoWall Screening Acoustic*	Class 5	C2	A/B/C4/D	A/B/F/G	-	XI

* Impact and fall-through protection is only applicable with specific mounting requirements. Contact DUCO for more information.

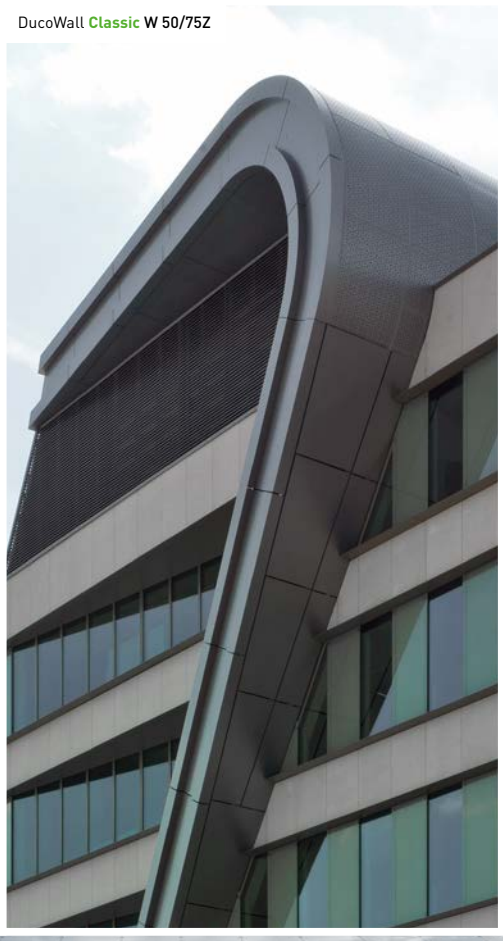
DucoWall **Screening** 70

DucoWall **Roof Turret**

DucoWall **Solid** W 30Z

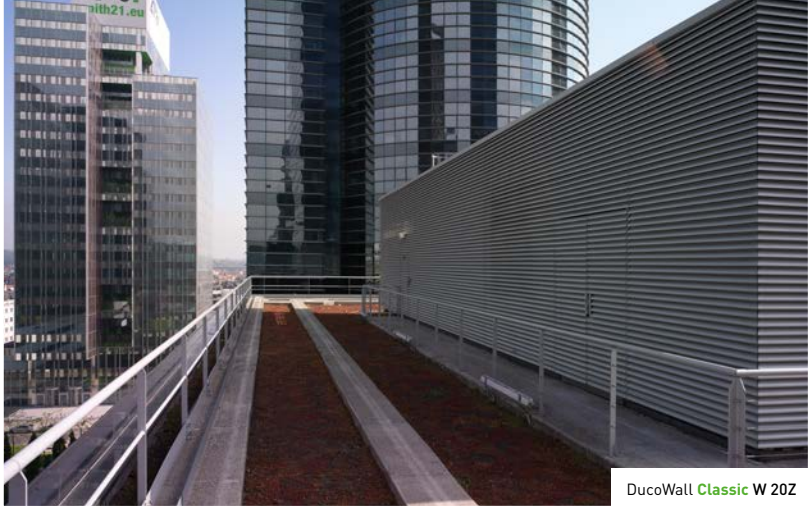
DucoDoor **Wall**

DucoWall **Classic** W 50/75Z



DucoWall **Classic** W 50Z

DucoWall **Classic** W 35V



DucoWall **Classic** W 20Z

DucoWall **Classic** W 50/750Z

DucoWall **Screening** 70

DucoWall **Classic** W 35V
DucoDoor **Wall**

DucoWall **Classic** W 50Z

DucoWall **Solid** W 30Z

Duco **Roof Turret** Solid **30Z**

SERVICE PLEASE!

To provide optimum support for your project, you will find professional **sectional drawings**, **technical data sheets**, **specification texts** and **assembly instructions** on our **website: www.duco.eu**.
Find out what else DUCO can do for you.

Calculating airflow → airflowcalculation.duco.eu

Calculate the required air flow rates, area or pressure differences for each type of louvre grille with this handy online tool.

BIM library → www.duco.eu/bim

All products in this library are freely available in Autodesk Revit.

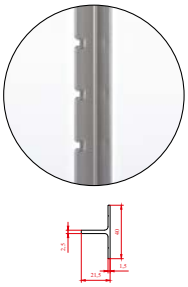
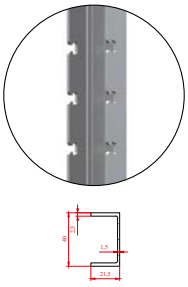
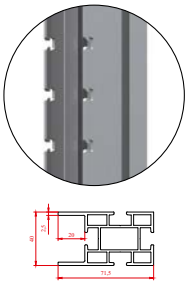
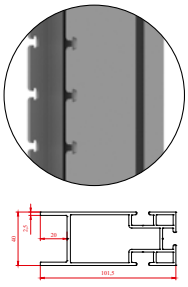
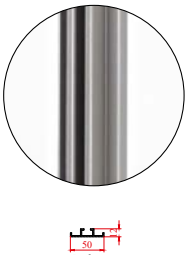
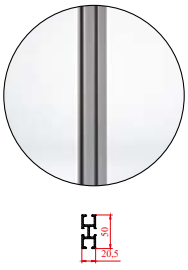
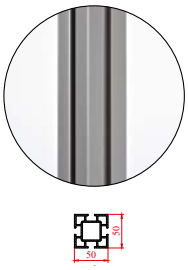
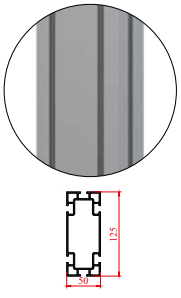
Specification texts → You will find specification texts for all products on our website www.duco.eu.

TAILORED **ADVICE**

DUCO offers tailored expertise & services for specifiers, and has a dedicated unit to advise and support architects, engineering offices and consultancies. DUCO works with reputable organisations such as the WTCB, the Von Karman Institute, etc. DUCO's knowledge and years of experience enable an appropriate solution to be offered for each of your projects.

Any questions? Please contact us at info@duco.eu or call +32 58 33 00 66 to for tailored advice!

OVERVIEW MULLIONS

Louvre wall system	Available mullions
DucoWall **Solid**	40/21 **mullion**  40/21 Double **mullion**  40/70 Double **mullion**  Mullion **40/100 Double** 
DucoWall **Screening**	
DucoWall **Classic**	50/12 **mullion**  21/50 MULTI **mullion**  50/50 **mullion**  50/125 **mullion** 
DucoWall **Acoustic**	

TECHNICAL SPECIFICATION TABLE

	DUCOWALL SOLID	DUCOWALL SCREENING	
	Solid 30Z see p. 8	Screening 35 see p. 11	Screening 55 see p. 12

→ Ventilation values

Property	Unit	P1	P2		NP	75 pitch		112 pitch		150 pitch		75 pitch		112 pitch	
		STND	STND	+OPT	STND	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT
Visual free area	%	60	86	86	0	52	52	68	68	76	76	53	53	69	69
Physical free area	%	34	48	48	0	29	29	27	27	35	35	37	37	46	46
K factor, intake (lower is better)		21,43	18,26	18,58	n/a	61,04	61,04	67,19	68,30	23,56	24,03	33,03	35,01	25,51	26,85
K factor, exhaust (lower is better)		17,08	13,62	14,13	n/a	38,10	38,58	33,03	32,65	19,93	20,29	26,85	29,29	17,51	19,07
Ce (higher is better)		0,216	0,234	0,232	n/a	0,128	0,128	0,122	0,121	0,206	0,204	0,174	0,169	0,198	0,193
Cd (higher is better)		0,242	0,271	0,266	n/a	0,162	0,161	0,174	0,175	0,224	0,222	0,193	0,188	0,239	0,229

→ Water resistance

Property	Unit	P1	P2		NP	75 pitch		112 pitch		150 pitch		75 pitch		112 pitch	
		STND	STND	+OPT	STND	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT
Water resistance for v = 0 m/s	class	B	B	B	n/a	A	A	B	B	C	C	A	A	B	A
Water resistance for v = 0.5 m/s	class	B	C	B	n/a	B	B	C	B	C	C	B	A	C	B
Water resistance for v = 1.0 m/s	class	C	C	B	n/a	B	B	C	C	D	D	B	B	C	B
Water resistance for v = 1.5 m/s	class	C	C	B	n/a	D	D	D	D	D	D	C	B	C	C
Water resistance for v = 2.0 m/s	class	D	D	C	n/a	D	D	D	D	D	D	D	D	D	D
Water resistance for v = 2.5 m/s	class	D	D	D	n/a	D	D	D	D	D	D	D	D	D	D

→ Sound reduction

Solution		P1	P2	NP	75 pitch	112 pitch	150 pitch	75 pitch	112 pitch
Rw	dB	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
C		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
C_{tr}		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Octave band values at 125 Hz	dB	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
at 250 Hz	dB	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
at 500 Hz	dB	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
at 1000 Hz	dB	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
at 2000 Hz	dB	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
at 4000 Hz	dB	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

→ Mullions and dimensions

Property			Unit	P1	P2	NP	75 pitch	112 pitch	150 pitch	75 pitch	112 pitch
Louvre pitch			mm		37,5		75	112	150	75	112
Louvre depth			mm		30		43	43	43	64	64
Recess depth at mullion ...	Solid Screening	**40/21 (Double)**	mm		51		57	57	57	77	77
		40/70 Double	mm		102		107	107	107	127	127
		40/100 Double	mm		132		137	137	137	157	157
	Classic Acoustic	**50/12**	mm		×			×			×
		21/50 MULTI	mm		×			×			×
		50/50	mm		×			×			×
		50/125	mm		×			×			×
Maximum span between 2 mullions			mm		1970			1650		2050	2050

STND and +OPT version: see page 5

DUCOWALL CLASSIC

		Screening 70						Classic 20Z		Classic 20V		Classic 35V		Classic 50Z		Classic 50/75Z	
		see p. 13						see p. 14		see p. 15		see p. 16		see p. 17		see p. 18	
150 pitch		75 pitch		112 pitch		150 pitch											
STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT
76	76	53	53	68	68	77	77	63	63	95	95	59	59	75	75	80	80
44	44	37	37	59	59	55	55	47	47	37	37	35	35	52	52	54	54
14,03	15,14	30,19	30,52	22,25	22,25	13,72	14,35	22,68	24,27	41,62	45,04	71,82	74,32	23,80	23,34	20,85	20,85
11,81	12,76	25,00	25,77	13,72	14,13	10,21	10,54	30,52	33,03	41,62	45,04	65,04	66,10	12,94	14,13	11,34	12,06
0,267	0,257	0,182	0,181	0,212	0,212	0,270	0,264	0,210	0,203	0,155	0,149	0,118	0,116	0,205	0,207	0,219	0,219
0,291	0,280	0,200	0,197	0,270	0,266	0,313	0,308	0,181	0,174	0,155	0,149	0,124	0,123	0,278	0,266	0,297	0,288
150 pitch		75 pitch		112 pitch		150 pitch											
STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT
C	C	B	A	B	B	C	C	C	B	A	A	A	A	B	A	B	A
D	C	C	B	C	B	D	C	C	B	B	A	A	A	C	B	C	B
D	C	C	C	C	C	D	D	D	C	C	B	A	A	C	B	C	B
D	D	C	C	C	C	D	D	D	D	D	B	A	A	C	C	D	C
D	D	D	D	D	C	D	D	D	D	D	C	C	B	D	C	D	C
D	D	D	D	D	D	D	D	D	D	D	D	C	C	D	D	D	D
150 pitch		75 pitch		112 pitch		150 pitch											
n/a		n/a		n/a		n/a		n/a		n/a		n/a		n/a		n/a	
n/a		n/a		n/a		n/a		n/a		n/a		n/a		n/a		n/a	
n/a		n/a		n/a		n/a		n/a		n/a		n/a		n/a		n/a	
n/a		n/a		n/a		n/a		n/a		n/a		n/a		n/a		n/a	
n/a		n/a		n/a		n/a		n/a		n/a		n/a		n/a		n/a	
n/a		n/a		n/a		n/a		n/a		n/a		n/a		n/a		n/a	
n/a		n/a		n/a		n/a		n/a		n/a		n/a		n/a		n/a	
n/a		n/a		n/a		n/a		n/a		n/a		n/a		n/a		n/a	
n/a		n/a		n/a		n/a		n/a		n/a		n/a		n/a		n/a	
150 pitch		75 pitch		112 pitch		150 pitch											
150		75		112		150		35		20		35		65		75	
64		82		82		82		23		23		38		53		53	
77		94,5		94,5		94,5		✕		✕		✕		✕		✕	
127		145		145		145		✕		✕		✕		✕		✕	
157		175		175		175		✕		✕		✕		✕		✕	
		✕						35		35		50		65		65	
		✕						73		73		88		103		103	
		✕						73		73		88		103		103	
		✕						148		148		163		178		178	
2050		2400		2400		2400		1200		1850		2650		1550		1550	

TECHNICAL SPECIFICATION TABLE

→ Ventilation values

Property	Unit	DUCOWALL CLASSIC												
		Classic 70V see p. 19		HP Classic 45HP see p. 20		HP Classic 50HP see p. 21		HP Classic 130HP see p. 22	Classic 60C see p. 23					
									60C		60C/2		60C/3	
		STND	+OPT	STND	+OPT	STND	+OPT	STND	STND	+OPT	STND	+OPT	STND	+OPT
Visual free area	%	65	65	70	70	88	88	88	84	84	84	84	84	84
Physical free area	%	44	44	60	60	68	68	70	46	46	36	36	36	36
K factor, intake (lower is better)		73,05	81,16	11,49	11,49	7,80	8,07	9,35	10,08	11,11	23,11	24,51	31,21	32,65
K factor, exhaust (lower is better)		84,17	94,26	6,75	7,34	5,19	5,81	11,49	10,75	11,81	26,03	27,41	42,72	43,86
Ce (higher is better)		0,117	0,111	0,295	0,295	0,358	0,352	0,327	0,315	0,3	0,208	0,202	0,179	0,175
Cd (higher is better)		0,109	0,103	0,385	0,369	0,439	0,415	0,295	0,305	0,291	0,196	0,191	0,153	0,151

→ Water resistance

Property	Unit													
									60C		60C/2		60C/3	
		STND	+OPT	STND	+OPT	STND	+OPT	STND	STND	+OPT	STND	+OPT	STND	+OPT
Water resistance for v = 0 m/s	class	B	A	C	B	C	B	A	B	B	A	A	A	A
Water resistance for v = 0.5 m/s	class	B	B	C	B	C	B	A	C	C	A	A	A	A
Water resistance for v = 1.0 m/s	class	B	B	C	C	C	B	A	C	C	B	B	A	A
Water resistance for v = 1.5 m/s	class	C	C	C	C	D	C	A	D	D	C	C	A	A
Water resistance for v = 2.0 m/s	class	D	D	D	C	D	C	A	D	D	C	C	A	A
Water resistance for v = 2.5 m/s	class	D	D	D	C	D	C	C	D	D	C	C	C	C

→ Sound reduction

Solution		Unit					60C	60C/2	60C/3
Rw		dB	n/a	n/a	n/a	n/a	n/a	n/a	n/a
C			n/a	n/a	n/a	n/a	n/a	n/a	n/a
C_{tr}			n/a	n/a	n/a	n/a	n/a	n/a	n/a
Octave band values	at 125 Hz	dB	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	at 250 Hz	dB	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	at 500 Hz	dB	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	at 1000 Hz	dB	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	at 2000 Hz	dB	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	at 4000 Hz	dB	n/a	n/a	n/a	n/a	n/a	n/a	n/a

→ Mullions and dimensions

Property			Unit					60C	60C/2	60C/3
Louvre pitch			mm	65	50	50	50	50	50	50
Louvre depth			mm	75	48	56	133	77	77	77
Recess depth at mullion ...	Solid Screening	**40/21 (Double)**	mm	✕	✕	✕	✕	✕	✕	✕
		40/70 Double	mm	✕	✕	✕	✕	✕	✕	✕
		40/100 Double	mm	✕	✕	✕	✕	✕	✕	✕
	Classic Acoustic	**50/12**	mm	87	60	68	145	89	✕	✕
		21/50 MULTI	mm	125	98	106	183	127	✕	✕
		50/50	mm	125	98	106	183	127	127	127
		50/125	mm	200	143	181	258	202	202	202
Maximum span between 2 mullions			mm	2150	1330	1100	2300	1250	1250	1250

STND and +OPT version: see page 5

DUCOWALL ACOUSTIC

Acoustic 75Z		Acoustic 75L		Acoustic 300		Acoustic 300		Screening Acoustic Single Bank				Screening Acoustic Double Bank			
see p. 24		see p. 24		see p. 25		see p. 25		see p. 26				see p. 26			
								112 pitch		150 pitch		112 pitch		150 pitch	
STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT
76	76	95	95	74	74	74	74	66	66	74	74	66	66	74	74
28	28	28	28	35	35	35	35	25	25	35	35	25	25	35	35
26,03	26,03	22,25	22,89	13,52	16,00	13,52	16,00	15,50	19,58	11,49	15,75	25,77	30,19	22,46	25,00
29,86	30,19	15,02	15,50	13,52	16,00	13,52	16,00	15,62	18,74	11,89	15,87	26,03	32,65	26,85	32,65
0,196	0,196	0,212	0,209	0,272	0,250	0,272	0,250	0,254	0,226	0,295	0,252	0,197	0,182	0,211	0,200
0,183	0,182	0,258	0,254	0,272	0,250	0,272	0,250	0,253	0,231	0,290	0,251	0,196	0,175	0,193	0,175
								112 pitch		150 pitch		112 pitch		150 pitch	
STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT
B	B	B	B	A	A	A	A	B	B	C	B	A	A	B	A
B	B	B	B	B	B	B	B	C	B	D	C	B	A	B	A
C	C	C	C	B	B	B	B	C	C	D	C	C	A	C	A
C	C	D	D	C	C	C	C	D	C	D	D	C	B	C	B
D	D	D	D	C	C	C	C	D	D	D	D	D	C	D	C
D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
								112 pitch		150 pitch		112 pitch		150 pitch	
6	6	17	17	14		11		17		15					
0	0	-1	-1	-1		0		-1		-1					
-1	-2	-3	-3	-4		-2		-4		-3					
2,7	2,6	7,8	7,8	5,5		5,1		6,7		6,0					
3,5	3	8	8	4,7		4,3		5,1		4,6					
2,1	1,9	14,9	14,9	7,1		6,2		10,9		9,0					
4,8	4,4	17,8	17,8	14,9		12,5		21,8		18,5					
10,1	9,7	17,7	17,7	21,2		14,0		34,1		23,7					
12,4	11,5	22,4	22,4	17,3		11,9		27,2		20,2					
				112 pitch		150 pitch		112 pitch		150 pitch					
60	60	150	150	112,5		150		112,5		150					
67	75	142	142	150	150	150	150	238	238	238	238				
✕	✕	✕	✕	150	150	150	150	238	238	238	238				
✕	✕	✕	✕	212	212	212	212	238	238	238	238				
✕	✕	✕	✕	242	242	242	242	242	242	242	242				
79	87	✕	✕	✕				✕							
117	125	334	334	✕				✕							
117	125	334	334	✕				✕							
192	200	✕	✕	✕				✕							
1700	1650	2150	2150	2425				2425							

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