

LOUVRE WALL SYSTEMS



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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

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DISCLAIMER

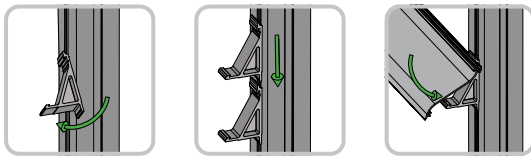
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A SOLUTION FOR EVERY SITUATION



→ 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.

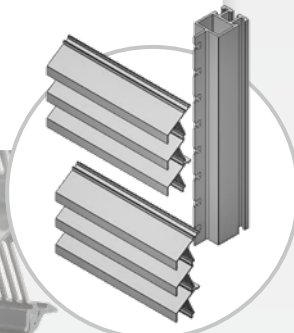


1. Turn

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

→ Finish

Each type of louvre wall is available in any colour: **SAA, any RAL colour, textured paint, special paints/lacquers, etc.** Every type of louvre wall is lacquered as standard in SeaSide grade. In addition, every type of louvre wall in this brochure complies with the **Qualicoat** or **Qualanod** quality specifications.



→ Vandalism and intrusion security



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



RC2

Each type of louvre wall (DucoWall Solid, Classic*, Acoustic and Screening) and the DucoDoor Louvre and Grille louvre doors have the option of being manufactured **burglar resistant up to resistance class 2** in accordance with European standards.

* Except for DucoWall Classic W 60C/2, W 60C/3 and DucoWall Acoustic W 300

→ 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

→ 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



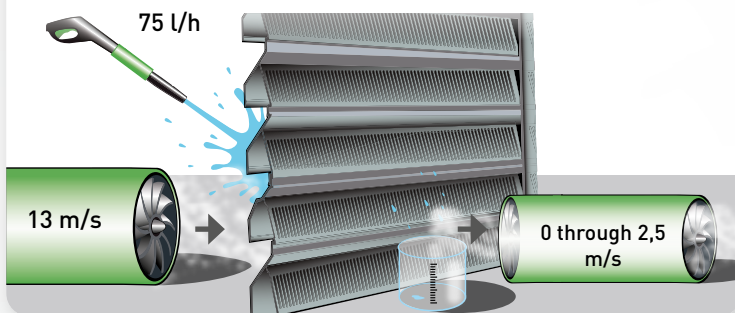
DucoWall Classic W 130HP

→ Water resistance

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.

EN13030

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



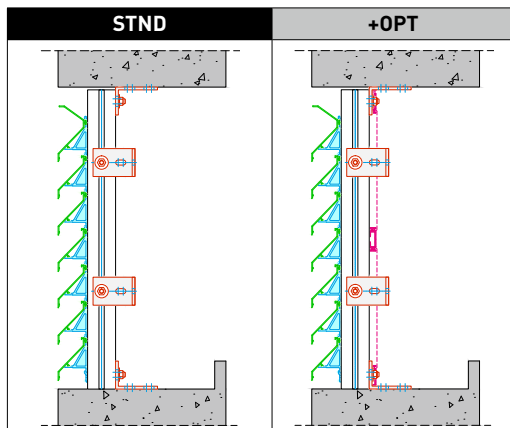
→ Penetration security

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

→ 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.


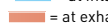
+OPT = '+Options'

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.

			see p. 8
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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			see p. 12
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DucoWall Screening 70			see p. 13
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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.

			see p. 14
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			see p. 15
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			see p. 16
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			see p. 17
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			see p. 18
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			see p. 19
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			see p. 20
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			see p. 21
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			see p. 22
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  			see p. 23
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			see p. 24
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			see p. 25
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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' system².



⑥ DucoWall Acoustic W 75Z	 	← 1700 mm →	see p. 28
⑥ DucoWall Acoustic W 75L	 	← 1650 mm →	see p. 28
⑥ DucoWall Acoustic W 150	 	← 2150 mm →	see p. 29
DucoWall Acoustic W 300	 	← 2150 mm →	see p. 29
DucoWall Screening Acoustic	  	← 2425 mm →	see p. 30

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.

Duco Door Wall		Louvre door in louvre wall system without specific requirements	see p. 35
Duco Door Louvre		Ventilated louvre door or false louvre door in the louvre wall system with specific requirements for intrusion resistance and/or draught-proofing	see p. 36
Duco Door Grille		Free-standing ventilated louvre door or false louvre door , either with or without specific requirements for intrusion resistance and/or draught-proofing	see p. 37

ROOF TURRETS

Kits and components to build roof cowls with DucoWall louvre blades.

Duco Roof Turret Solid 30Z		n/a	see p. 40
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Legend



Vandal-proof
The grille is vandal-proof



Penetration safe
The grille is penetration-proof



Impact protection
Resistant to intense shocks



Fall-through protection
Prevents people from falling through



Burglar resistant
The grille is (optionally) burglar resistant up to class 2



Water resistant
The grille is **good** to **very good** water resistant



Sound absorption
Can be used in projects with **light** or **heavy (+)** noise exposure



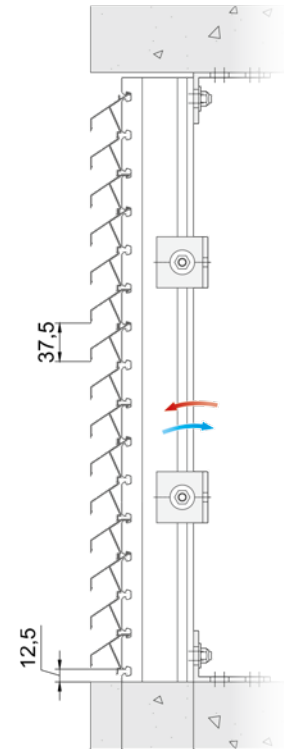
High Performance
The louvre blades are optimised for high air flow



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

Feature		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



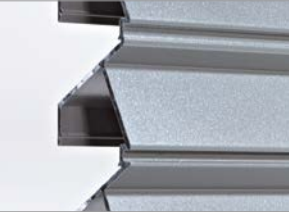


WATER RESISTANCE

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.

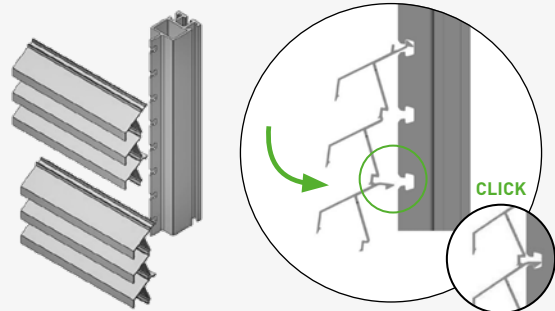
INSECT SCREEN

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.



DUCOWALL SCREENING

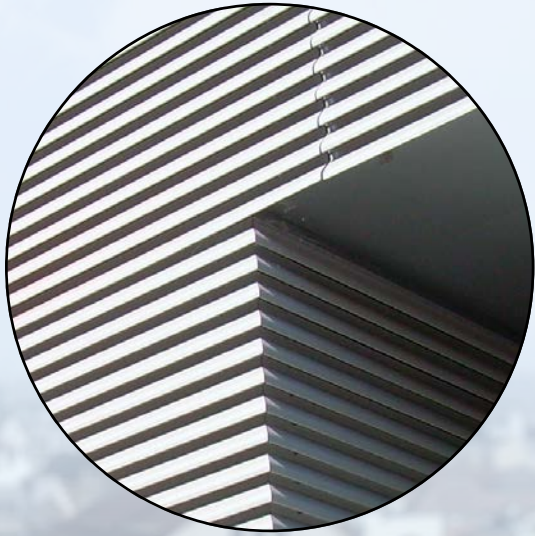
An aluminium louvre wall system for screening applications: DucoWall Screening is eminently suitable for projects where the wall acts primarily as **screening**. Assembly is very quick.

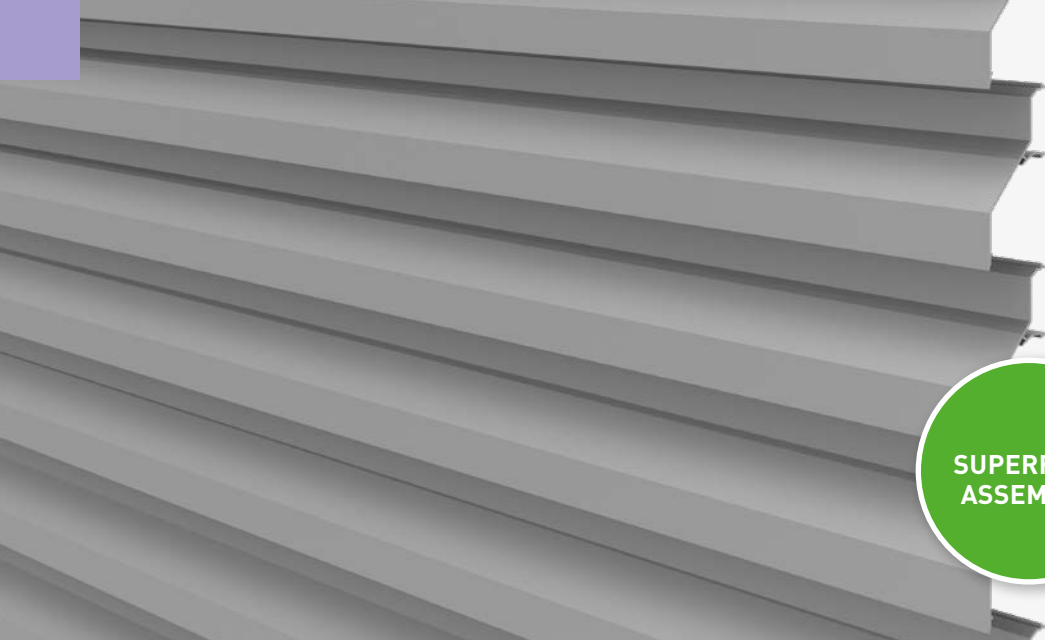
Within the Screening range there are two options. **DucoWall Screening 35** adds aesthetic value to your project and guarantees quick installation.

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.

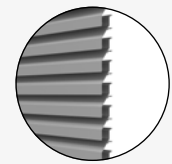
**SUPERFAST
ASSEMBLY**



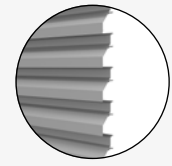




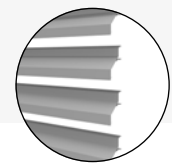
SUPERFAST ASSEMBLY



Louvre pitch 75



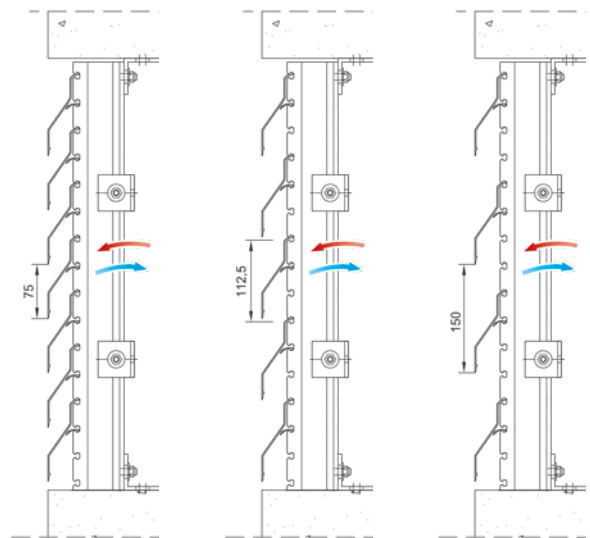
Louvre pitch 112



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**.



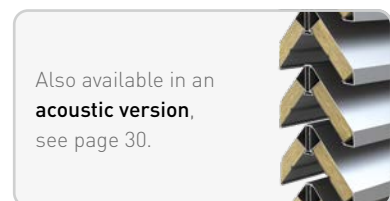
Louvre pitch 75

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 →		



VENTILATION VALUES

Feature	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

STND and +OPT version: see page 5

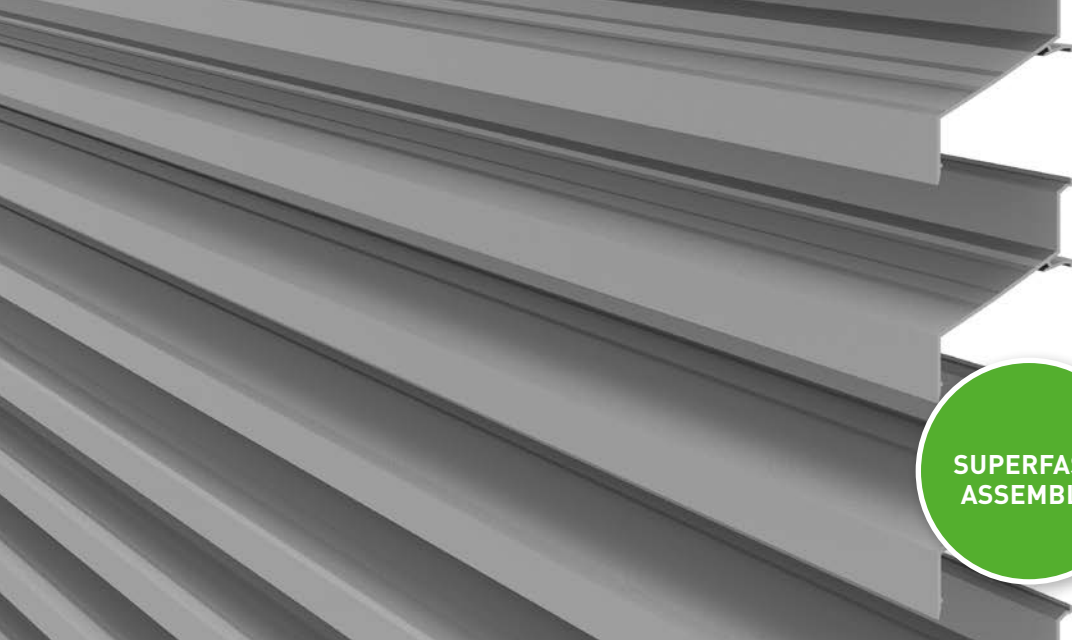
Insect protection: optional stainless steel mesh 2.3 x 2.3 mm or 6 x 6 mm

WATER RESISTANCE

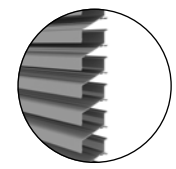
Air velocity	Class					
	75		112		150	
	STND	+OPT	STND	+OPT	STND	+OPT
0 m/s	A	A	B	B	C	C
0,5 m/s	B	B	C	B	C	C
1 m/s	B	B	C	C	D	D
1,5 m/s	D	D	D	D	D	D
2 m/s	D	D	D	D	D	D
2,5 m/s	D	D	D	D	D	D



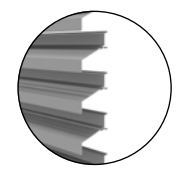
→ Overview of mullions: see page 47
→ Full specifications: see page 48



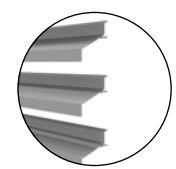
SUPERFAST ASSEMBLY



Louvre pitch 75



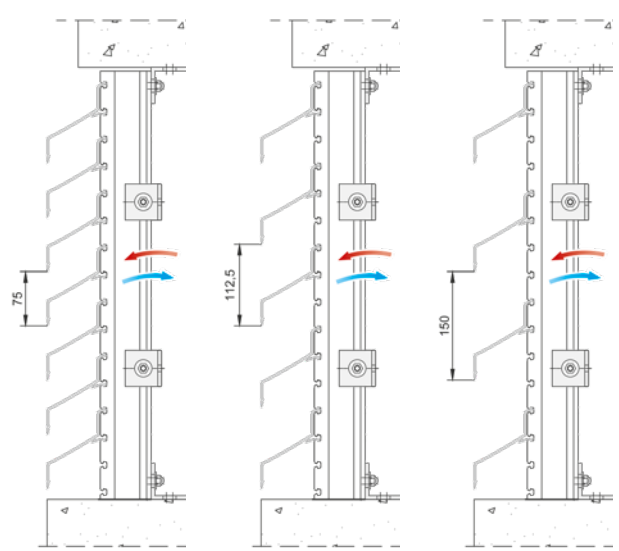
Louvre pitch 112



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).



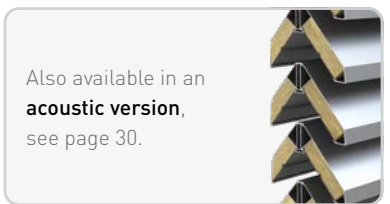
Louvre pitch 75

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 →		



VENTILATION VALUES

Feature	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

STND and +OPT version: see page 5 Insect protection: optional stainless steel mesh 2.3 x 2.3 mm or 6 x 6 mm

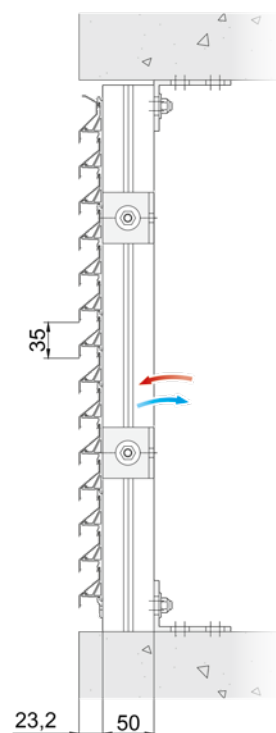
WATER RESISTANCE

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



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

Feature		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



→ Overview of mullions: see page 47
→ Full specifications: see page 48



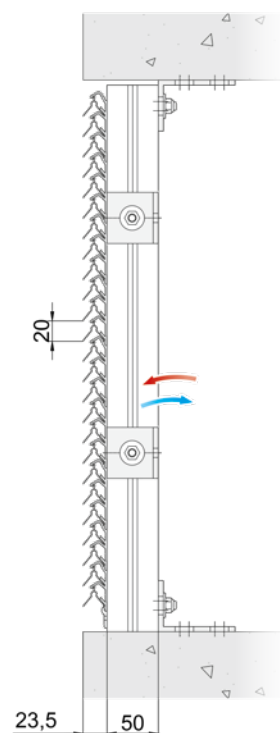
Good water resistant



Penetration safe

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

Feature		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 47
→ Full specifications: see page 48



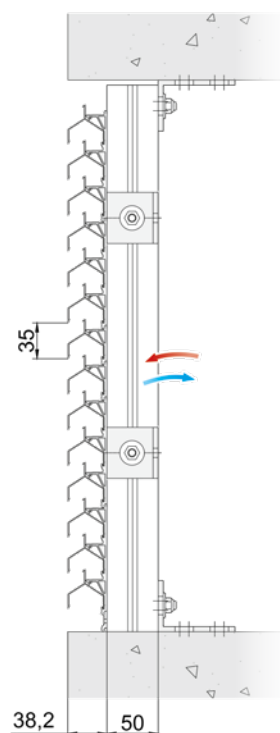
Good water resistant



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

Feature		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



→ Overview of mullions: see page 47
→ Full specifications: see page 48



DucoWall Classic W 50Z/30°

DucoWall Classic W 50Z/30° 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. The louvre wall is available with 65 or 75 mm spacing.

DIMENSIONS AND MULLIONS

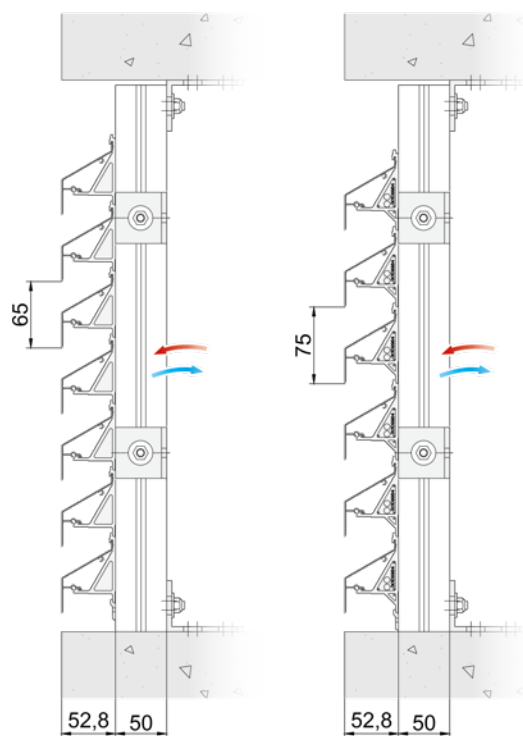
Type of mullion	50/12	21/50 Multi	50/50	50/125
Louvre pitch	65 or 75 mm			
Louvre depth	53 mm			
Installation depth	65 mm	103 mm	103 mm	178 mm
Maximum span between 2 mullions	← 2050 mm →			

VENTILATION VALUES

Feature		65		75	
		STND	+OPT	STND	+OPT
Visual free area		41 %	41 %	49 %	49 %
Physical free area		40 %	40 %	46 %	46 %
Ce (higher is better)		0,262	0,253	0,312	0,310
Cd (higher is better)		0,308	0,302	0,339	0,336
K-FACTOR (lower is better)	INTAKE	14,57	15,62	10,27	10,41
	EXHAUST	10,54	10,96	8,70	8,86

STND and +OPT version: see page 5

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



Louvre pitch 65

Louvre pitch 75

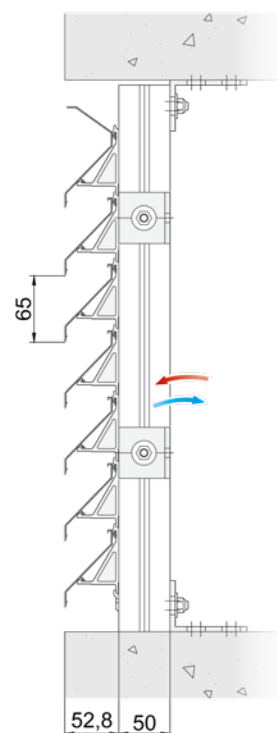
WATER RESISTANCE

Air velocity	Class			
	65		75	
	STND	+OPT	STND	+OPT
0 m/s	B	A	B	B
0,5 m/s	C	B	C	B
1 m/s	C	B	C	C
1,5 m/s	C	C	C	C
2 m/s	D	C	D	C
2,5 m/s	D	C	D	D



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

Feature		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

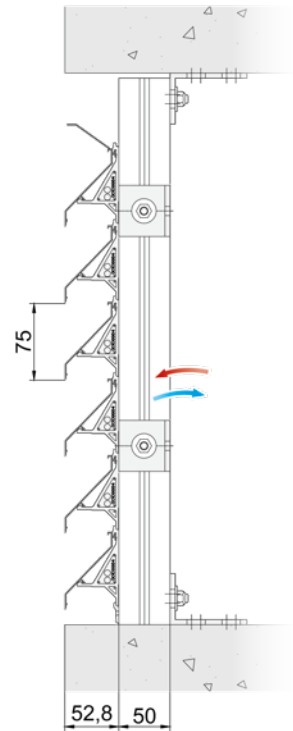
Air velocity	Class	
	STND	+OPT
0 m/s	B	A
0,5 m/s	C	B
1 m/s	C	B
1,5 m/s	C	C
2 m/s	D	C
2,5 m/s	D	D

STND and +OPT version: see page 5 Insect protection: optional stainless steel mesh 2.3 x 2.3 mm or 6 x 6 mm



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

Feature		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



→ Overview of mullions: see page 47
→ Full specifications: see page 48



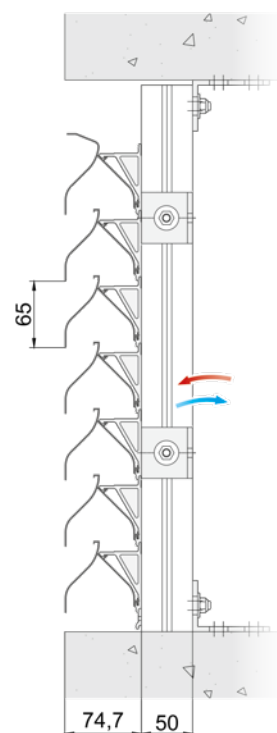
Good water resistant



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

Feature		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



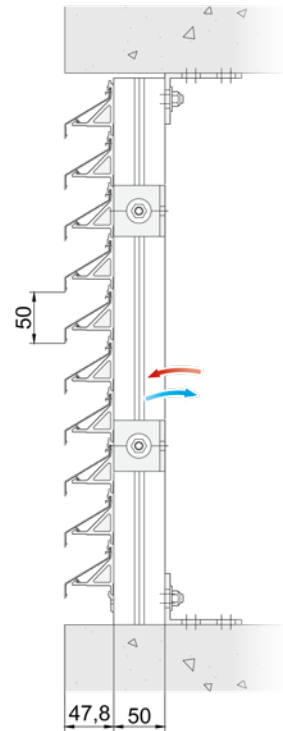
→ Overview of mullions: see page 47
→ Full specifications: see page 48



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 <small>Reaction to fire A2-s1,d0 (EN13501-1)</small>			

VENTILATION VALUES

Feature		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 <small>(lower is better)</small>	INTAKE	11,49	11,49
	EXHAUST	6,75	7,34

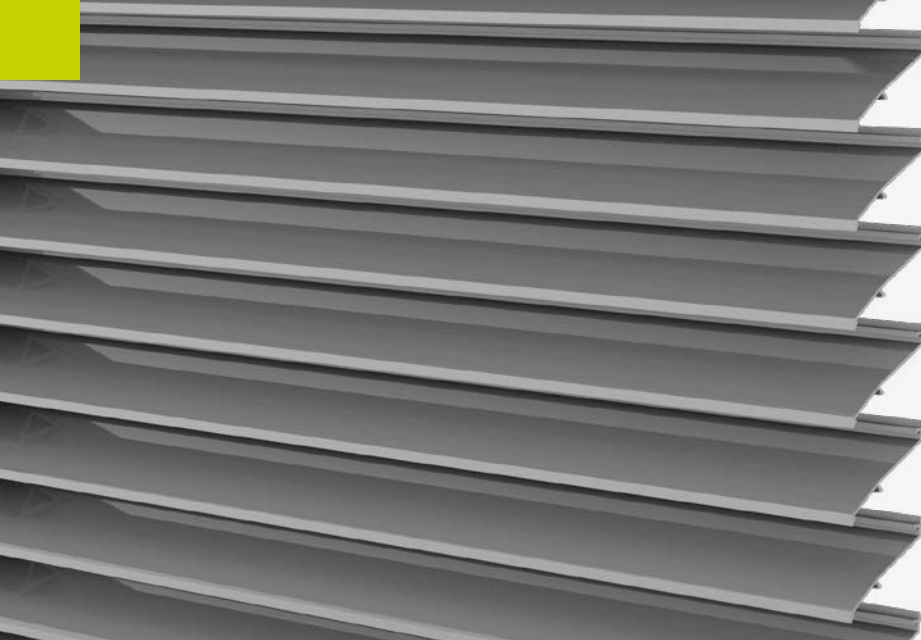
WATER RESISTANCE

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



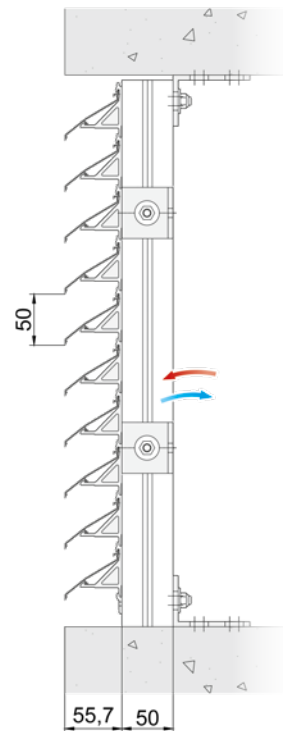
→ Overview of mullions: see page 47
→ Full specifications: see page 48



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

Feature	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



High Performance



Excellent water resistance



Fall-through protection

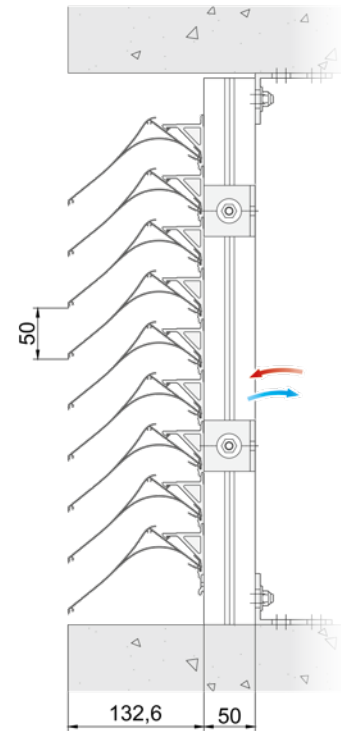


Impact protection



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 42-43 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 <small>Reaction to fire A2-s1,d0 (EN13501-1)</small>			

VENTILATION VALUES

Feature		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 <small>(lower is better)</small>	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 protection only applies in combination with Metal Clips.



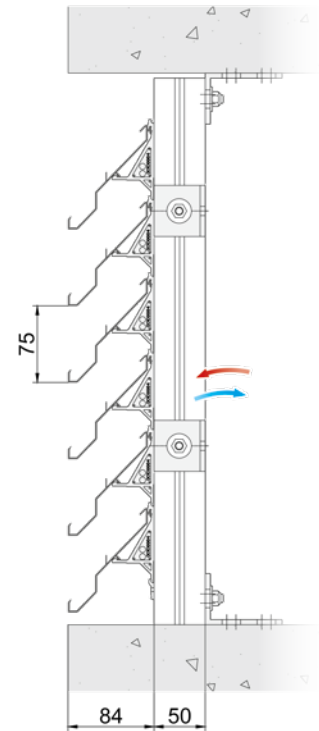
→ Overview of mullions: see page 47
→ Full specifications: see page 48

→ Impact & fall-through protection: see page 42-43



DucoWall Classic W 80HP

DucoWall Classic W 80HP 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 uniquely shaped 'High Performance' louvre blade provides **good water resistance** and **high airflow**.



DIMENSIONS AND MULLIONS

Type of mullion	50/12	21/50 Multi	50/50	50/125
Louvre pitch	75 mm			
Louvre depth	84 mm			
Installation depth	96 mm	134 mm	134 mm	209 mm
Maximum span between 2 mullions	← 1350 mm →			

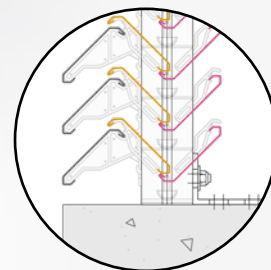
VENTILATION VALUES

Feature		STND	+OPT
Visual free area		83 %	83 %
Physical free area		49 %	49 %
Ce (higher is better)		0,299	0,284
Cd (higher is better)		0,271	0,256
K-FACTOR (lower is better)	INTAKE	11,19	12,40
	EXHAUST	13,62	15,26

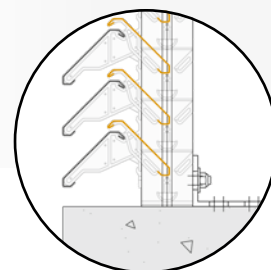
WATER RESISTANCE

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

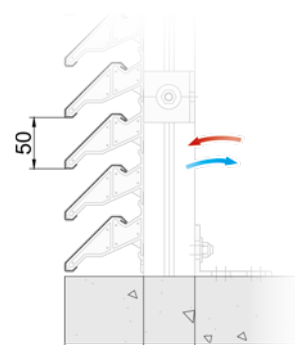
STND and +OPT version: see page 5 Insect protection: optional stainless steel mesh 2.3 x 2.3 mm or 6 x 6 mm



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	x			
	60C/3				
Maximum span between 2 mullions		← 1250 mm →			

VENTILATION VALUES

Feature	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

STND and +OPT version: see page 5

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

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



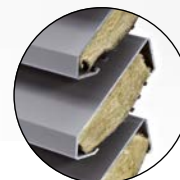
DucoWall **Solid 30Z**

Umicore | Hoboken (Belgium)

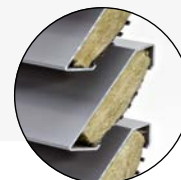




Suitable for moderate noise levels



W 75Z



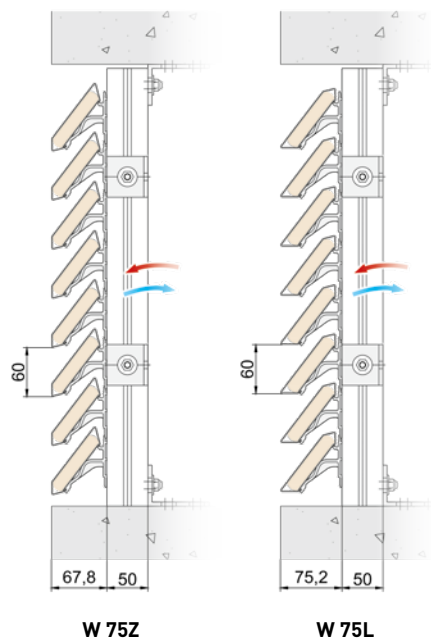
W 75L

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.

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 →			



W 75Z

W 75L

SOUND ABSORPTION

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

VENTILATION VALUES

Feature		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

STND and +OPT version: see page 5

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

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



→ Overview of mullions: see page 47
→ Full specifications: see page 48



Suitable for high noise levels



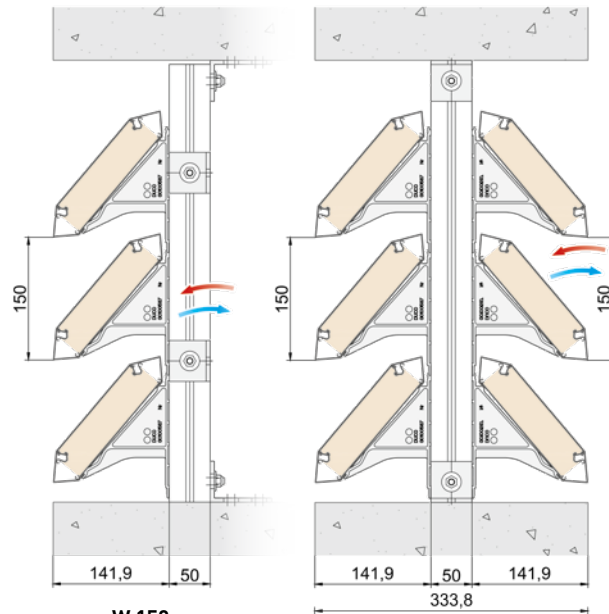
W 150



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				x
Maximum span between 2 mullions		← 2150 mm →			

SOUND ABSORPTION

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

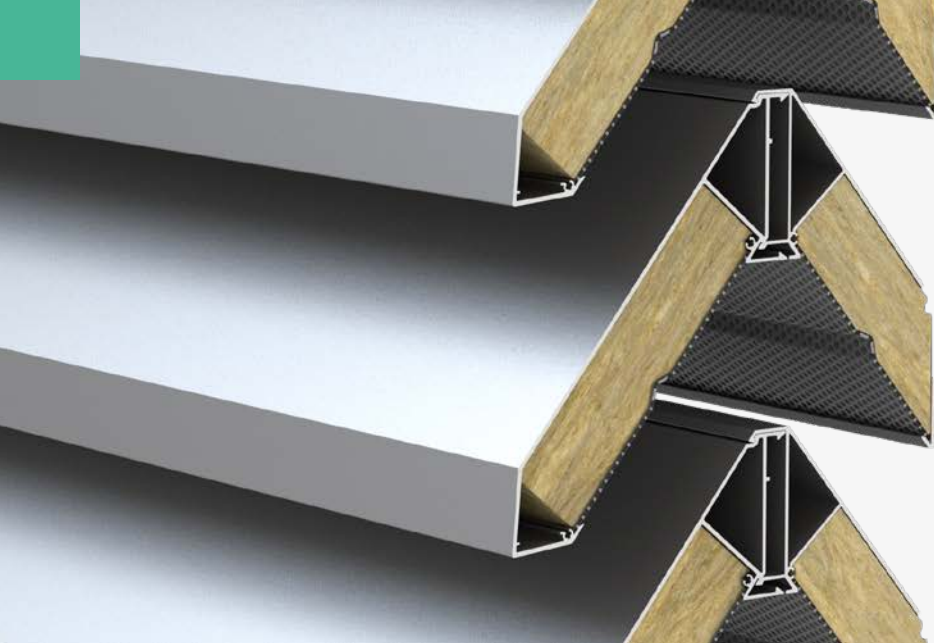
VENTILATION VALUES

Feature		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

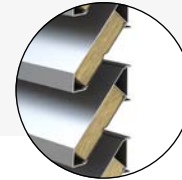
WATER RESISTANCE

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

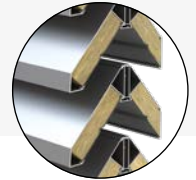
STND and +OPT version: see page 5 Insect protection: optional stainless steel mesh 2.3 x 2.3 mm or 6 x 6 mm



Suitable for high noise levels



Single Bank



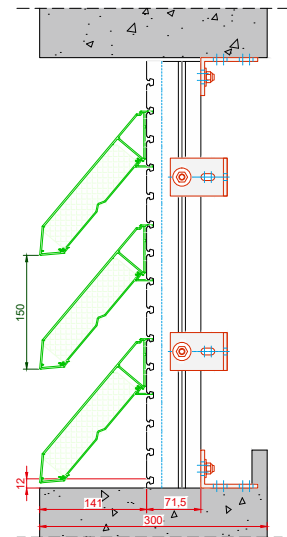
Double Bank

DucoWall Screening Acoustic

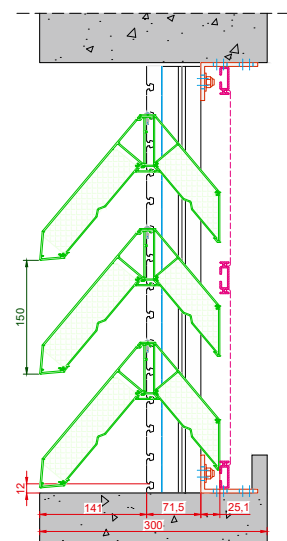
DucoWall Screening Acoustic is a sturdy **aluminium louvre wall system with acoustic damping**. There is a choice of two different louvre pitches: 112.5 or 150 mm.

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



Double Bank

SOUND ABSORPTION

🎧 Attenuation value R_w (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 →		

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

Feature	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



Sound
absorbing
up to 17 dB




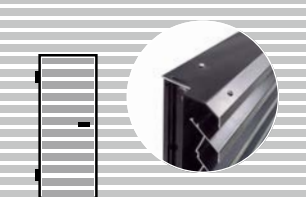






DucoWall **Classic** 130HP

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**.

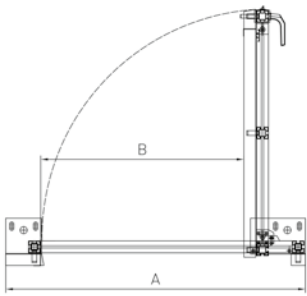
Type	 DucoDoor Wall see p. 35	 DucoDoor Louvre see p. 36	 DucoDoor Grille see p. 37
Application	Louvre door in louvre wall system without specific requirements.	Ventilated louvre door or false louvre door in the louvre wall system with specific requirements for burglary resistance and/or draught-proofing.	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 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).		



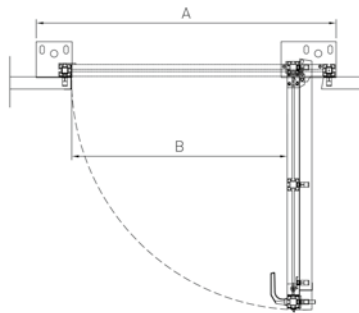
DucoDoor Wall

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**.

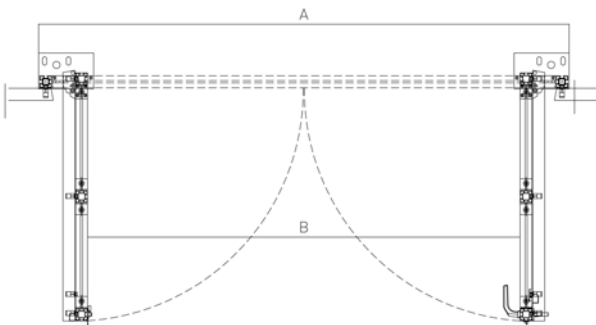
Single door opening **inwards**



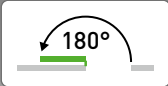
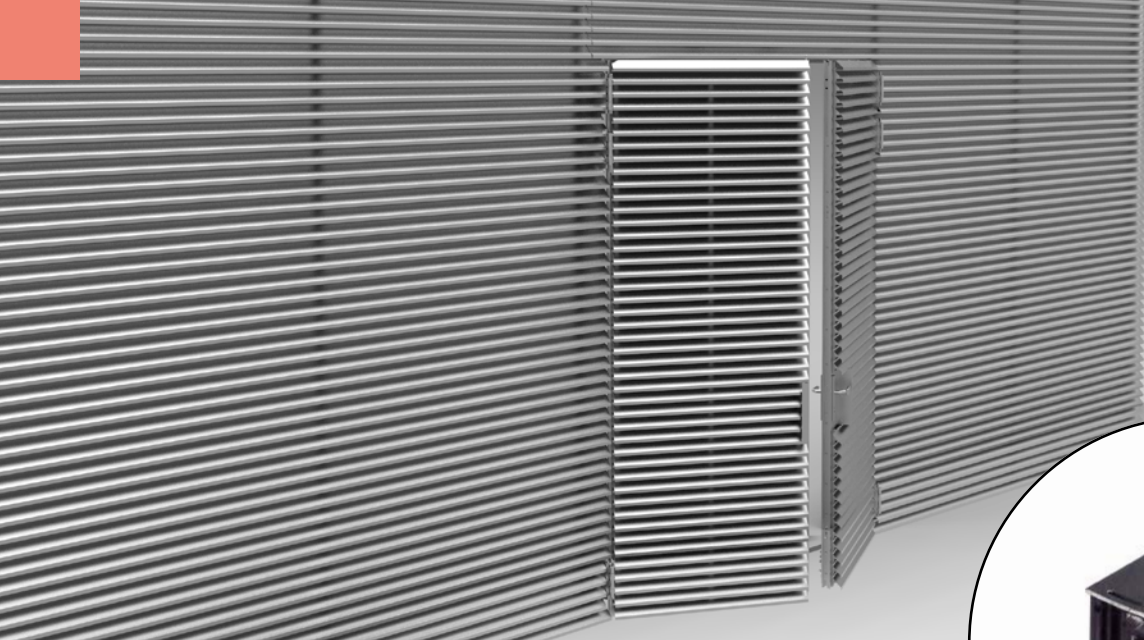
Single door opening **outwards**



Double door opening **outwards**



A = overall dimension
B = useful width

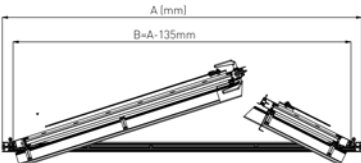
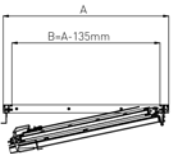
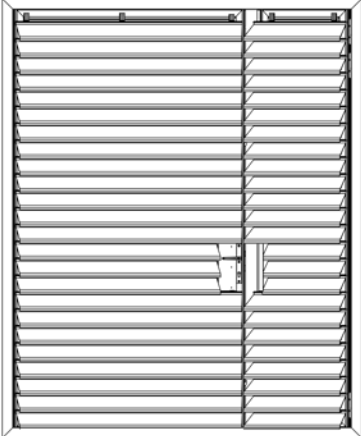


DucoDoor Louvre

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**

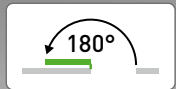


A = overall dimension
B = useful width



BURGLAR RESISTANT

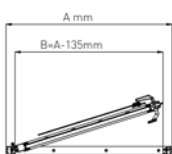
DucoDoor Louvre can be ordered up to intrusion-resistance class RC2 as an option. Certification available upon request.



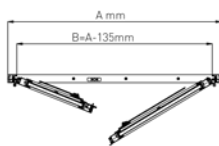
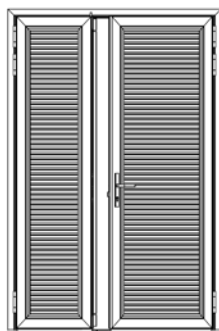
DucoDoor Grille

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

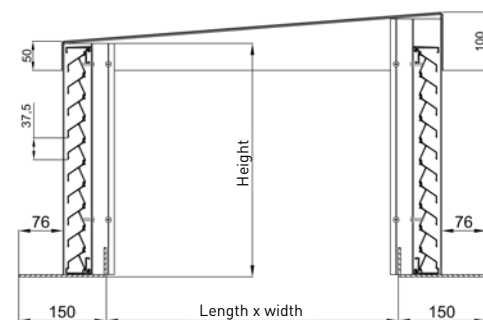
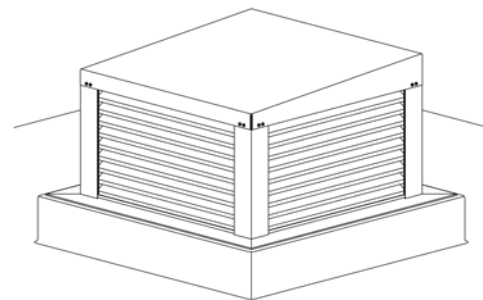
Data Centre | London (England)





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

Feature		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 41)

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

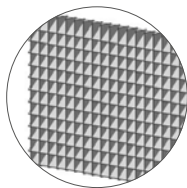
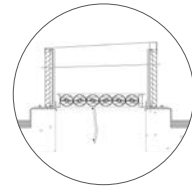
The **Duco Roof Turret Solid 30Z** also exists as a variant with sill profile. The sill profile ensures **better water drainage**. The sill profile allows the roof covering to be completely concealed. This provides an **aesthetic finish**. It also offers more placement options.



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.

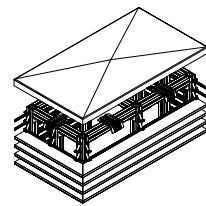


Eggcrate grille

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
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DUCOWALL SCREENING ACOUSTIC

DucoWall Screening Acoustic*	Class 5	C2	A/B/C4/D	A/B/F/G	-	XI
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* 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

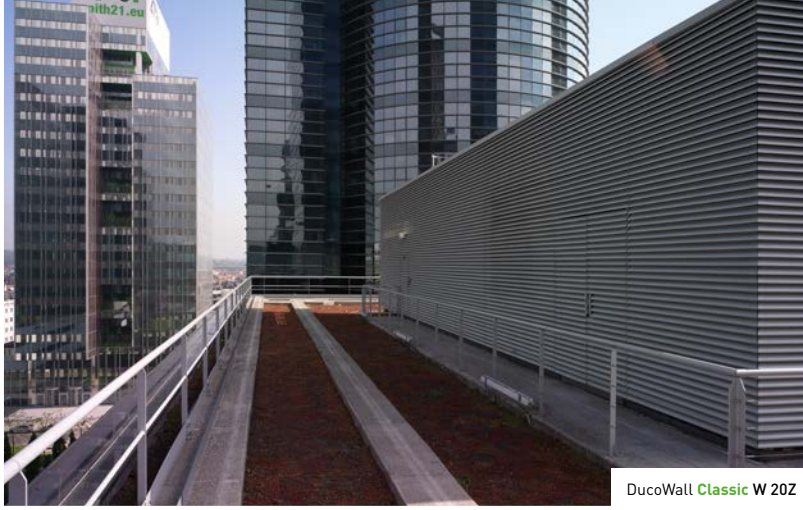


DucoWall Classic W 50Z

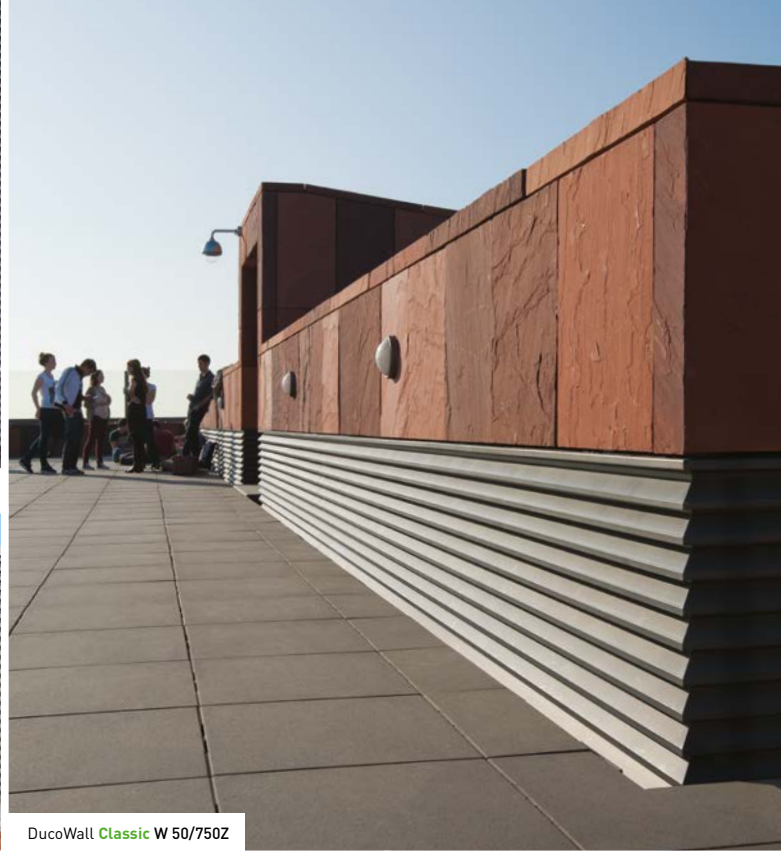


DucoWall Classic W 35V





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](http://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.

Surface (m ²)	Pressure drop (Pa)
<input type="text"/>	<input type="text"/>
Air flow rate	
Unit	<input type="text"/>
Pressure drop	<input type="text"/>
Surface	<input type="text"/>
<input type="button" value="Calculate"/>	

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.

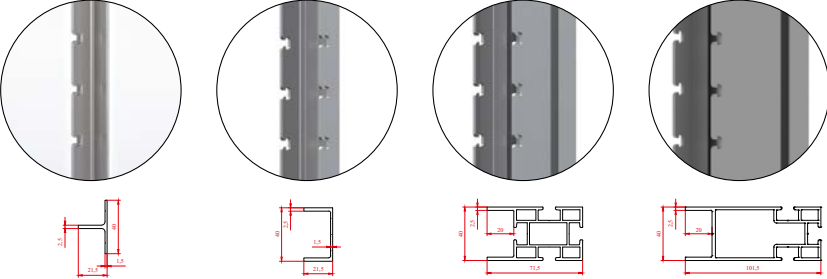
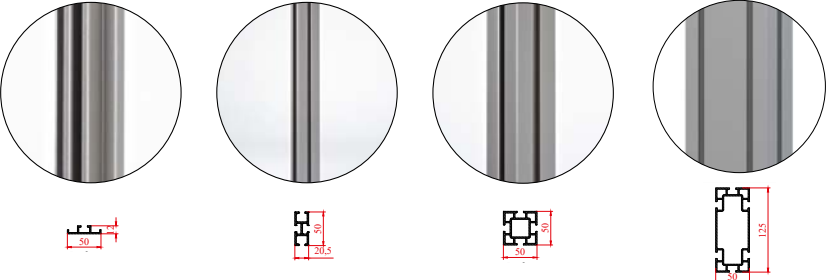
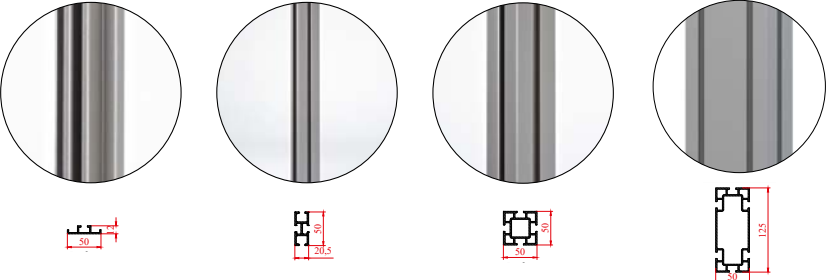


TAILORED **ADVICE**

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
<p>DucoWall Solid</p>	<p>40/21 mullion 40/21 Double mullion 40/70 Double mullion Mullion 40/100 Double</p> 
<p>DucoWall Screening</p>	<p>50/12 mullion 21/50 MULTI mullion 50/50 mullion 50/125 mullion</p> 
<p>DucoWall Acoustic</p>	<p>50/12 mullion 21/50 MULTI mullion 50/50 mullion 50/125 mullion</p> 

TECHNICAL SPECIFICATION TABLE

→ Ventilation values

		DUCOWALL SOLID														
		Solid 30Z see p. 8				Classic 20Z see p. 14		Classic 20V see p. 15		Classic 35V see p. 16		Classic 50Z/30° see p. 17				
Feature	Unit	P1	P2		NP							65 pitch		75 pitch		
		STND	STND	+OPT	STND	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	
Visual free area	%	60	86	86	0	63	63	95	95	59	59	41	41	49	49	
Physical free area	%	34	48	48	0	47	47	37	37	35	35	40	40	46	46	
K factor, intake (lower is better)		21,43	18,26	18,58	n/a	22,68	24,27	41,62	45,04	71,82	74,32	14,57	15,62	10,27	10,41	
K factor, exhaust (lower is better)		17,08	13,62	14,13	n/a	30,52	33,03	41,62	45,04	65,04	66,10	10,54	10,96	8,70	8,86	
Ce (higher is better)		0,216	0,234	0,232	n/a	0,210	0,203	0,155	0,149	0,118	0,116	0,262	0,253	0,312	0,310	
Cd (higher is better)		0,242	0,271	0,266	n/a	0,181	0,174	0,155	0,149	0,124	0,123	0,308	0,302	0,339	0,336	

→ Water resistance

Feature	Unit	P1	P2		NP							65 pitch		75 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	C	B	A	A	A	A	B	A	B	B
Water resistance for v = 0.5 m/s	class	B	C	B	n/a	C	B	B	A	A	A	C	B	C	B
Water resistance for v = 1.0 m/s	class	C	C	B	n/a	D	C	C	B	A	A	C	B	C	C
Water resistance for v = 1.5 m/s	class	C	C	B	n/a	D	D	D	B	A	A	C	C	C	C
Water resistance for v = 2.0 m/s	class	D	D	C	n/a	D	D	D	C	C	B	D	C	D	C
Water resistance for v = 2.5 m/s	class	D	D	D	n/a	D	D	D	D	C	C	D	C	D	D

→ Sound reduction



Solution		P1	P2	NP							65 pitch		75 pitch	
Rw	dB	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
C		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
C _r		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
Octave band values	at 125 Hz	dB	n/a	n/a	n/a	n/a	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	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	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	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	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	n/a	n/a	n/a	n/a

→ Mullions and dimensions

Feature		Unit	P1	P2	NP							65 pitch		75 pitch	
Louvre pitch		mm		37,5		35		20		35		65		75	
Louvre depth		mm		30		23		23		38		53		53	
Recess depth at mullion ...	Solid Screening	40/21 (Double)	mm	51		×		×		×		×		×	
		40/70 Double	mm	102		×		×		×		×		×	
		40/100 Double	mm	132		×		×		×		×		×	
	Classic Acoustic	50/12	mm		×		35		35		50		65		65
		21/50 MULTI	mm		×		73		73		88		103		103
		50/50	mm		×		73		73		88		103		103
		50/125	mm		×		148		148		163		178		178
Maximum span between 2 mullions		mm		1970		1200		1850		2650		2050		2050	

STND and +OPT version: see page 5

DUCOWALL CLASSIC

Classic 50Z see p. 18		Classic 50/75Z see p. 19		Classic 70V see p. 20		 Classic 45HP see p. 21		 Classic 50HP see p. 22		 Classic 130HP see p. 23		 Classic 80HP see p. 24		Classic 60C see p. 25		Classic 60C		Classic 60C/2		Classic 60C/3	
STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT
75	75	80	80	65	65	70	70	88	88	88	83	83	84	84	84	84	84	84	84	84	84
52	52	54	54	44	44	60	60	68	68	70	49	49	46	46	36	36	36	36	36	36	36
23,80	23,34	20,85	20,85	73,05	81,16	11,49	11,49	7,80	8,07	9,35	11,19	12,40	10,08	11,11	23,11	24,51	31,21	32,65	31,21	32,65	32,65
12,94	14,13	11,34	12,06	84,17	94,26	6,75	7,34	5,19	5,81	11,49	13,62	15,26	10,75	11,81	26,03	27,41	42,72	43,86	42,72	43,86	43,86
0,205	0,207	0,219	0,219	0,117	0,111	0,295	0,295	0,358	0,352	0,327	0,299	0,284	0,315	0,3	0,208	0,202	0,179	0,175	0,179	0,175	0,175
0,278	0,266	0,297	0,288	0,109	0,103	0,385	0,369	0,439	0,415	0,295	0,271	0,256	0,305	0,291	0,196	0,191	0,153	0,153	0,153	0,153	0,151
STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT
B	A	B	A	B	A	C	B	C	B	A	A	A	B	B	A	A	A	A	A	A	A
C	B	C	B	B	B	C	B	C	B	A	B	B	C	C	A	A	A	A	A	A	A
C	B	C	B	B	B	C	C	C	B	A	B	C	C	C	B	B	A	A	A	A	A
C	C	D	C	C	C	C	C	D	C	A	C	C	D	D	C	C	A	A	A	A	A
D	C	D	C	D	D	D	C	D	C	A	C	C	D	D	C	C	A	A	A	A	A
D	D	D	D	D	D	D	C	D	C	C	D	D	D	D	C	C	C	C	C	C	C
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	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	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
STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT
65	75	65	50	50	50	75	50	50	50	50	75	50	50	50	50	50	50	50	50	50	50
53	53	75	48	56	133	84	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77
✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
65	65	87	60	68	145	96	89	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
103	103	125	98	106	183	134	127	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
103	103	125	98	106	183	134	127	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
178	178	200	143	181	258	209	202	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
1550	1550	2150	1330	1100	2300	1350	1250	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗

TECHNICAL SPECIFICATION TABLE

DUCOWALL ACOUSTIC

Acoustic 75Z
see p. 28

Acoustic 75L
see p. 28

Acoustic 150
see p. 29

Acoustic 300
see p. 29

Screening Acoustic Single Bank
see p. 30

→ Ventilation values

Feature	Unit	Acoustic 75Z		Acoustic 75L		Acoustic 150		Acoustic 300		112 pitch		150 pitch	
		STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT
Visual free area	%	76	76	95	95	74	74	74	74	66	66	74	74
Physical free area	%	28	28	28	28	35	35	35	35	25	25	35	35
K factor, intake (lower is better)		26,03	26,03	22,25	22,89	11,04	11,49	13,52	16,00	15,50	19,58	11,49	15,75
K factor, exhaust (lower is better)		29,86	30,19	15,02	15,50	10,96	11,41	13,52	16,00	15,62	18,74	11,89	15,87
Ce (higher is better)		0,196	0,196	0,212	0,209	0,301	0,295	0,272	0,250	0,254	0,226	0,295	0,252
Cd (higher is better)		0,183	0,182	0,258	0,254	0,302	0,296	0,272	0,250	0,253	0,231	0,290	0,251

→ Water resistance

Feature	Unit	Acoustic 75Z		Acoustic 75L		Acoustic 150		Acoustic 300		112 pitch		150 pitch	
		STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT
Water resistance for v = 0 m/s	class	B	B	B	B	B	B	A	A	B	B	C	B
Water resistance for v = 0.5 m/s	class	B	B	B	B	C	C	B	B	C	B	D	C
Water resistance for v = 1.0 m/s	class	C	C	C	C	C	C	B	B	C	C	D	C
Water resistance for v = 1.5 m/s	class	C	C	D	D	C	C	C	C	D	C	D	D
Water resistance for v = 2.0 m/s	class	D	D	D	D	D	D	C	C	D	D	D	D
Water resistance for v = 2.5 m/s	class	D	D	D	D	D	D	D	D	D	D	D	D

→ Sound reduction

Solution		Unit	Acoustic 75Z	Acoustic 75L	Acoustic 150	Acoustic 300	112 pitch		150 pitch	
Rw		dB	6	6	11	17	14		11	
C			0	0	-1	-1	-1		0	
C _{tr}			-1	-2	-2	-3	-4		-2	
Octave band values	at 125 Hz	dB	2,7	2,6	4,8	7,8	5,5		5,1	
	at 250 Hz	dB	3,5	3	4	8	4,7		4,3	
	at 500 Hz	dB	2,1	1,9	7,4	14,9	7,1		6,2	
	at 1000 Hz	dB	4,8	4,4	11,4	17,8	14,9		12,5	
	at 2000 Hz	dB	10,1	9,7	12,4	17,7	21,2		14,0	
	at 4000 Hz	dB	12,4	11,5	13	22,4	17,3		11,9	

→ Mullions and dimensions

Feature		Unit	Acoustic 75Z	Acoustic 75L	Acoustic 150	Acoustic 300	112 pitch		150 pitch		
Louvre pitch		mm	60	60	150	150	112,5		150		
Louvre depth		mm	67	75	142	142	150	150	150	150	
Recess depth at mullion ...	Solid Screening	40/21 (Double)	mm	✗	✗	✗	✗	150	150	150	150
		40/70 Double	mm	✗	✗	✗	✗	212	212	212	212
		40/100 Double	mm	✗	✗	✗	✗	242	242	242	242
	Classic Acoustic	50/12	mm	79	87	154	✗	✗			
		21/50 MULTI	mm	117	125	192	334	✗			
		50/50	mm	117	125	192	334	✗			
		50/125	mm	192	200	267	✗	✗			
Maximum span between 2 mullions		mm	1700	1650	2150	2150	2425				

STND and +OPT version: see page 5

DUCOWALL SCREENING

Screening Acoustic Double Bank

see p. 30

Screening 35

see p. 12

Screening 70

see p. 13

112 pitch		150 pitch		75 pitch		112 pitch		150 pitch		75 pitch		112 pitch		150 pitch	
STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT
66	66	74	74	52	52	68	68	76	76	53	53	68	68	77	77
25	25	35	35	29	29	27	27	35	35	37	37	59	59	55	55
25,77	30,19	22,46	25,00	61,04	61,04	67,19	68,30	23,56	24,03	30,19	30,52	22,25	22,25	13,72	14,35
26,03	32,65	26,85	32,65	38,10	38,58	33,03	32,65	19,93	20,29	25,00	25,77	13,72	14,13	10,21	10,54
0,197	0,182	0,211	0,200	0,128	0,128	0,122	0,121	0,206	0,204	0,182	0,181	0,212	0,212	0,270	0,264
0,196	0,175	0,193	0,175	0,162	0,161	0,174	0,175	0,224	0,222	0,200	0,197	0,270	0,266	0,313	0,308

112 pitch		150 pitch		75 pitch		112 pitch		150 pitch		75 pitch		112 pitch		150 pitch	
STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT	STND	+OPT
A	A	B	A	A	A	B	B	C	C	B	A	B	B	C	C
B	A	B	A	B	B	C	B	C	C	C	B	C	B	D	C
C	A	C	A	B	B	C	C	D	D	C	C	C	C	D	D
C	B	C	B	D	D	D	D	D	D	C	C	C	C	D	D
D	C	D	C	D	D	D	D	D	D	D	D	D	C	D	D
D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D

112 pitch		150 pitch		75 pitch		112 pitch		150 pitch		75 pitch		112 pitch		150 pitch	
17		15		n/a		n/a		n/a		n/a		n/a		n/a	
-1		-1		n/a		n/a		n/a		n/a		n/a		n/a	
-4		-3		n/a		n/a		n/a		n/a		n/a		n/a	
6,7		6,0		n/a		n/a		n/a		n/a		n/a		n/a	
5,1		4,6		n/a		n/a		n/a		n/a		n/a		n/a	
10,9		9,0		n/a		n/a		n/a		n/a		n/a		n/a	
21,8		18,5		n/a		n/a		n/a		n/a		n/a		n/a	
34,1		23,7		n/a		n/a		n/a		n/a		n/a		n/a	
27,2		20,2		n/a		n/a		n/a		n/a		n/a		n/a	

112 pitch		150 pitch		75 pitch		112 pitch		150 pitch		75 pitch		112 pitch		150 pitch	
112,5		150		75		112		150		75		112		150	
238	238	238	238	43		43		43		82		82		82	
238	238	238	238	57		57		57		94,5		94,5		94,5	
238	238	238	238	107		107		107		145		145		145	
242	242	242	242	137		137		137		175		175		175	
x						x						x			
x						x						x			
x						x						x			
x						x						x			
2425						1650				2400		2400		2400	



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