

RENSON — THE EXTENSIVE RANGE

LOUVRE PANELS AND GRILLES



INTRODUCTION

INTRODUCTION

Why choose Renson louvres?

- RENSON does not only create louvres but also offers a concept.
- RENSON is continually innovating. Therefore RENSON sets the standard.
- RENSON has a comprehensive range of louvres.
- RENSON applies a 60-80 micron powder-coated finish (**for UK: min 40 microns**).
- RENSON anodises to a thickness of 20 microns.
- RENSON gives advice: technical support and training seminars.
- RENSON has been inspiring since 1909.

RENSON CORPORATE IDENTITY

Six good reasons to become a RENSON partner/customer:

1. Customer satisfaction through personal contact, professional advice, excellent service and reliable, high-performance products is the key goal of our company.
2. RENSON is a renowned and established multinational company with international expertise and experience thanks to the efforts of our local specialists. They are present in all regions of the world. RENSON has contributed to projects all around the world, from Moscow to Tahiti and from Monaco to Shanghai.
3. A complete service from start to finish, adequate support and advice during the design phase, at site meetings and at installation.
4. The production process is fully vertically integrated which enables manufacturing to the strictest of standards. Investments in injection moulding machinery, section processing equipment, anodising facilities and a fully automated powder coating installation ensure efficiency and accuracy. Typical assembly by clipping together the various parts and sections guarantee the tightest tolerances.
5. Continuous Research & Development translates customer needs into unique solutions and innovative products.
6. RENSON specialises in all aspects of ventilation and solar shading, achieving the current goals of the design of a Healthy Building with reduced energy costs.



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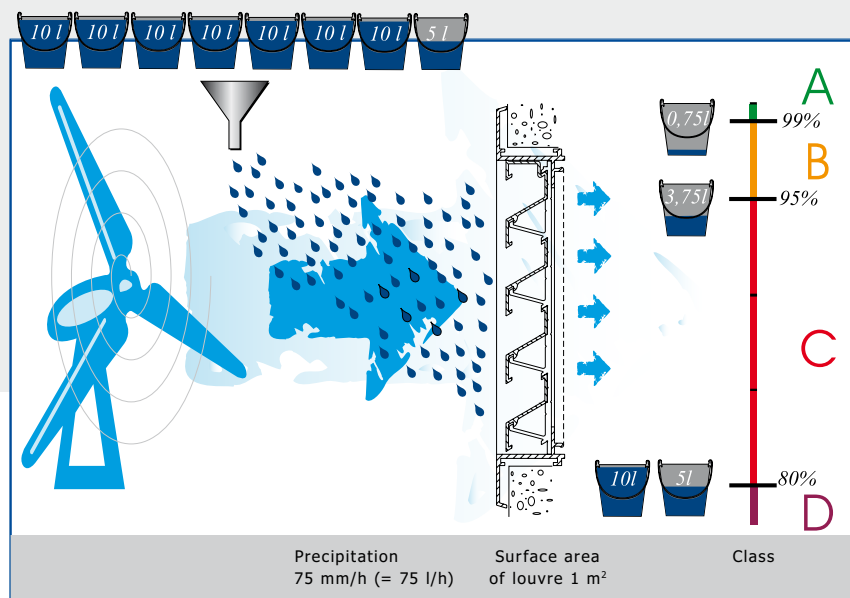
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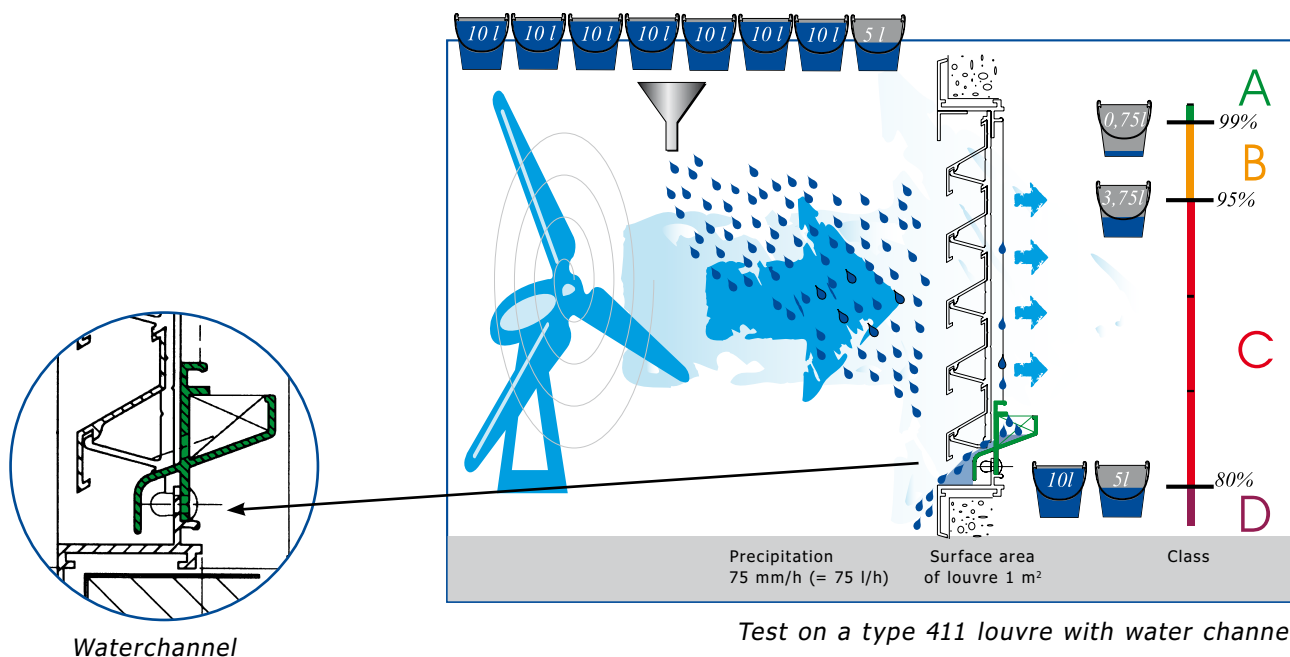
INTRODUCTION

METHOD FOR WATERTIGHTNESS (HEVAC) TESTING

All RENSON louvres are subjected to HEVAC testing (according to EN 13030) in the UK by an internationally accredited body (BSRIA Ltd.). The louvres (1 m² louvre equipped with a stainless steel insect mesh) are subjected to simulated heavy rain by being sprayed with water at a rate of 75 litres per hour at a wind speed of 13.5 m/second. HEVAC classification is based on the results obtained, i.e. the quantity of water infiltrating through the louvre.



Test on a standard type 411 louvre



Test on a type 411 louvre with water channel

	Class	% watertightness
Very good rain protection	A	100 - 99
Good rain protection	B	98,9 - 95
Average rain protection	C	94,9 - 80
Low rain protection	D	< 80

With 2.3 x 2.3 mm insect screen

Type of louvre	Air speed (m/s)	Standard design		With water channel	
		%	Class	%	Class
411/414	0,0	96,7	B	98,7	B
	0,5	95,0	B	98,0	B
	1,0	93,3	C	96,4	B
	1,5	< 80	D	88,5	C
	2,0				
412/415	0,0	98,1	B	99,5	A
	0,5	96,9	B	99,0	A
	1,0	89,96	C	98,0	B
421/424	0,0	90,6	C	96,9	B
	0,5	87,7	C	95,6	B
	1,0	< 80	D	93,7	C
	1,5	< 80	D	89,0	C
	2,0				
451	0,0	91,0	C	98,0	B
	0,5	89,3	C	96,1	B
	1,0	87,1	C	94,2	C
	1,5	81,6	C	89,5	C
	2,0	70,7	D		
425	0,0	82,0	C	96,6	B
	0,5	74,8	D	93,9	C
	1,0	< 80	D	90,0	C
	1,5	< 80	D	83,5	C
	2,0	< 80	D	76,3	D

With 6 x 6 mm insect mesh

Type of louvre	Air speed (m/s)	Standard design		With water channel	
		%	Class	%	Class
421/424	0,0	84,2	C	94,2	C
	0,5	81,0	C	91,8	C
	1,0	< 80	D	89,5	C
	1,5			85,7	C
	2,0				
422/428	0,0	99,3	A	99,93	A
	0,5	98,11	B	99,46	A
	1,0	93,39	C	96,91	B
	1,5	87,46	C	87,92	C
	2,0	59,97	D	62,24	D
	2,5	25,03	D	21,99	D
	3,0	17,94	D	18,08	D
451	0,0	85,4	C	92,0	B
	0,5	83,6	C	90,1	B
	1,0	< 80	D	88,2	C
	1,5			83,5	C
	2,0				
425	0,0	< 80	D	91,3	C
	0,5			88,3	C
	1,0			85,1	C
	1,5			79,4	D
	2,0				

INTRODUCTION

DEFINITIONS

Acoustic terms

$D_{n,e,w}$ = weighted, element-normalised sound level difference, used to characterise small elements like ventilators.

R_w = weighted sound reduction index, used to characterise glazing, brick walls, wall louvres, etc.

C = spectrum correction term for pink noise, always added to R_w or $D_{n,e,w}$ when the source of the noise is, for example, fast-moving traffic.

C_{tr} = spectrum correction term for traffic noise, always added to R_w or $D_{n,e,w}$ when the source of the noise is, for example, urban traffic.

Frequency = pitch expressed in Hertz (Hz), or the number of vibrations per second

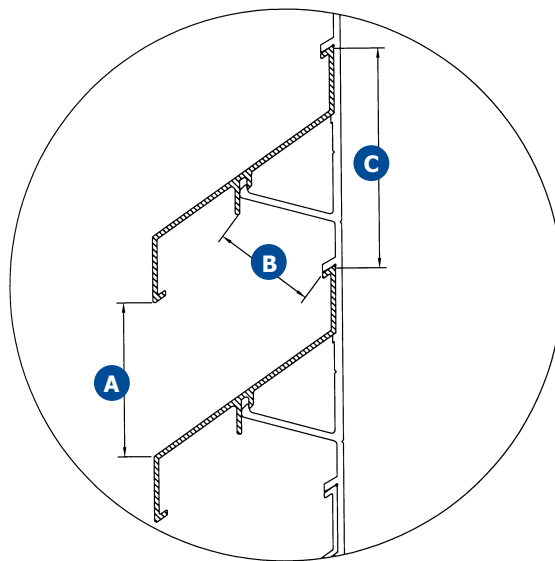
Geometric terms for louvres

Visual free area = determined by the ratio between the visual distance between two blades (A) and the blade pitch (C).

Physical free area = determined by the ratio between the smallest gap between two blades (B) and the blade pitch (C). Owing to peripheral effects and assembly, a maximum deviation of 5% must be considered.

(The top and bottom blades are not taken into account in the two free area definitions.)

The visual free area and physical free area are theoretical values. The real airflow must be calculated. Optimisation software is available free of charge on request.



Aeraulic terms for louvres

K-factor = a value describing aerodynamic resistance to airflow. Contrary to the free area, this value describes the link between the airflow through the louver and the pressure drop over it.

C_e = entry loss coefficient = a value describing the aerodynamic channelling of the airflow on entry. This value represents the ratio between the actual airflow compared with the theoretical airflow.

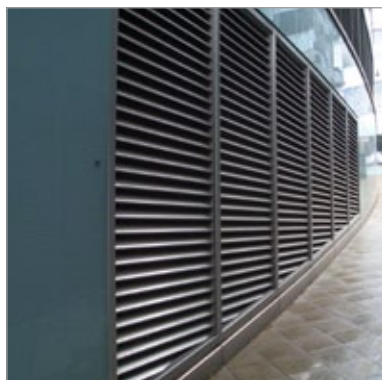
C_d = discharge loss coefficient = a value describing the aerodynamic channelling of the airflow on discharge. This value represents the ratio between the actual airflow compared with the theoretical airflow.



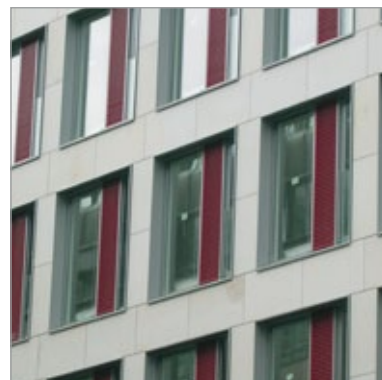
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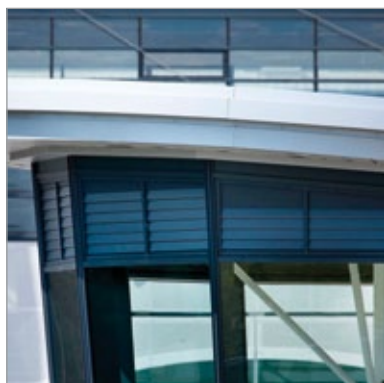
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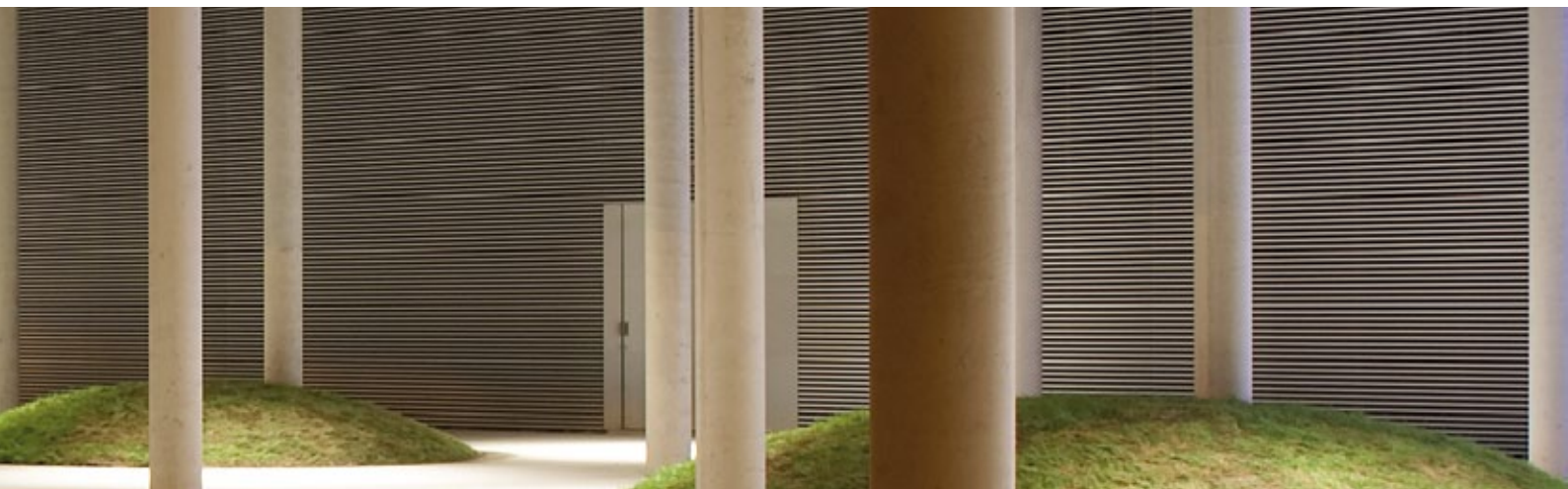
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OVERVIEW – TECHNICAL VALUES



TYPE	Physical free area	Visual free area	K-factor (supply)	K-factor (discharge)	C _e coefficient	C _d coefficient	Page
311	76 %	76 %					62
371	61 %	61 %					63
392	76 %	76 %					64
393	63 %	63 %					65
394	59 %	59 %					66
411	43 %	59 %	25,77	25,77	0,197	0,197	12
411R	43 %	59 %	25,77	25,77	0,197	0,197	13
412	39 %	93 %	33,80	33,80	0,172	0,172	14
412R	39 %	93 %	33,80	33,80	0,172	0,172	15
414	43 %	59 %	25,77	25,77	0,197	0,197	34
414R	43 %	59 %	25,77	25,77	0,197	0,197	35
415	39 %	93 %	33,80	33,80	0,172	0,172	37
415R	39 %	93 %	33,80	33,80	0,172	0,172	38
421	49 %	70 %	12,57	8,91	0,282	0,335	16
421R	47 %	70 %	12,57	8,91	0,282	0,335	17
422	43 %	59 %	61,04	61,04	0,128	0,128	18
423	37 %	70 %	21,55		0,215		49
424	49 %	70 %	12,57	8,91	0,282	0,335	40
425-425GL	49 %	86 %	11,41	11,65	0,296	0,293	24-42
427-427GL	53 %	86 %	11,41	11,65	0,296	0,293	25-43
428	43 %	59 %	61,04	61,04	0,128	0,128	41

OVERVIEW – TECHNICAL VALUES

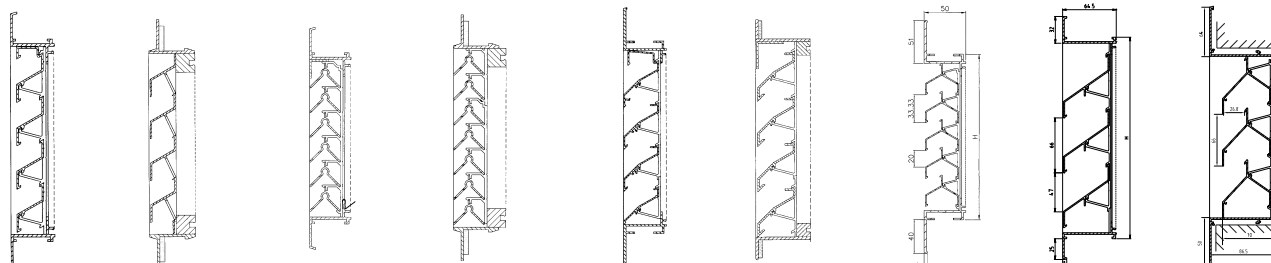


TYPE	Physical free area	Visual free area	K-factor (supply)	K-factor (discharge)	C _e coefficient	C _d coefficient	Page
431	43 %	59 %	25,77	25,77	0,197	0,197	30
431R	45 %	58 %	25,77	25,77	0,197	0,197	31
432	43 %	59 %	25,77	25,77	0,197	0,197	33
445/86	34 %	77 %	9,22	13,29	0,329	0,274	52
445/150	35 %	77 %	14,24	14,24	0,265	0,265	50
445/300	35 %	77 %	28,60	28,60	0,187	0,187	51
451	46 %	70 %	13,62	14,91	0,271	0,259	19
452	41 %	70 %	47,73	52,73	0,145	0,138	20
453	55 %	69 %	13,32	17,08	0,274	0,242	21
461	76 %	90 %					67
SILENDO®	27 %	27 %					68
468/AK1-AK2	29 %	29 %	164,37	168,66	0,078	0,077	53-69
480	76 %	90 %	4,81	4,53	0,456	0,470	22
481	60 %	70 %	8,75	8,45	0,338	0,344	23
483	76 %	90 %	4,81	4,53	0,456	0,470	44
484	60 %	70 %	8,75	8,45	0,338	0,344	45
491	26 %	57 %	82,66	95,84	0,110	0,102	26
494	26 %	57 %	82,66	95,84	0,110	0,102	48
511	43 %	61 %					28
521	47 %	68 %					29
621	47 %	68 %					27

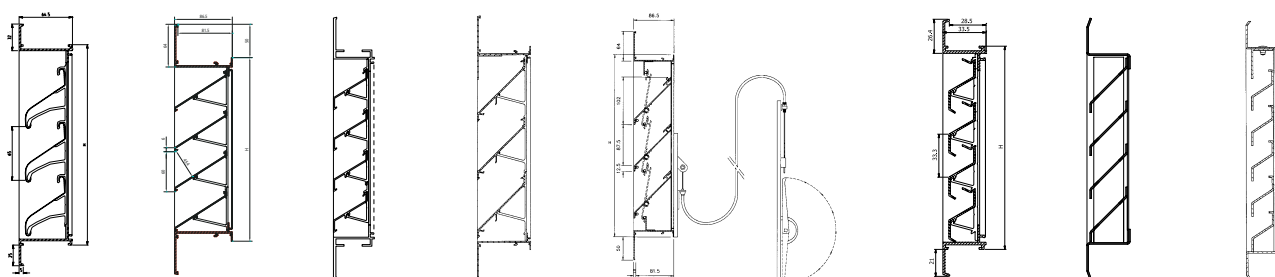
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PRODUCT RANGE

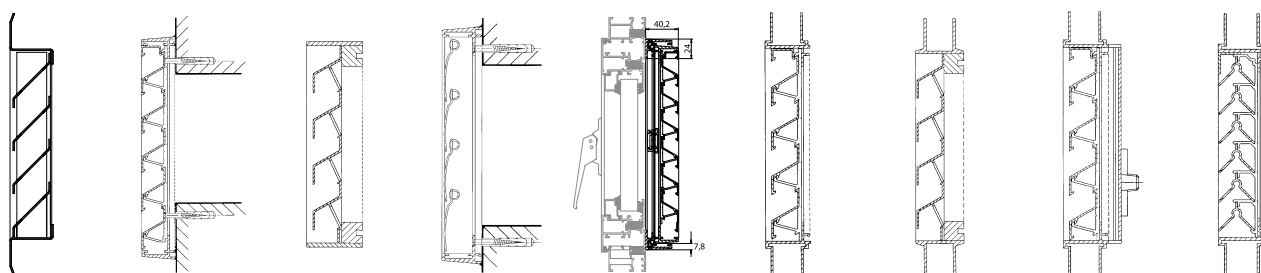
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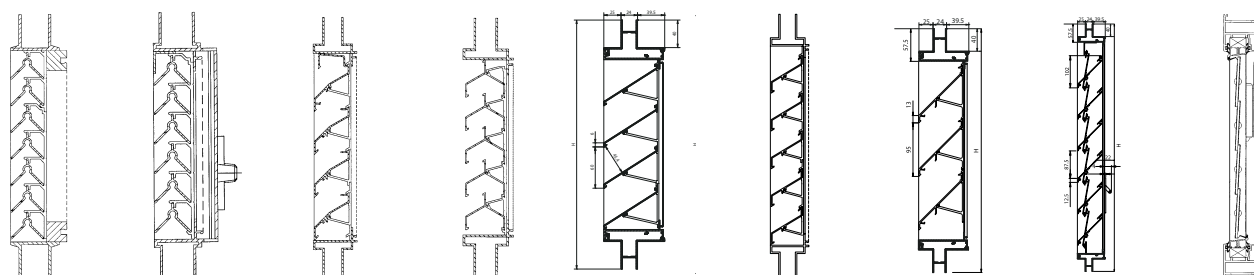
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No. 521 p. 29	No. 431 p. 30	No. 431R p. 31	No. 433 p. 32	No. 432 p. 33	No. 414 p. 34	No. 414R p. 35	No. 414/VA p. 36	No. 415 p. 37
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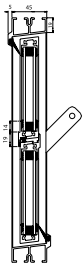
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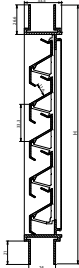
All section drawings can be downloaded from our website: www.renson.eu

PRODUCT RANGE

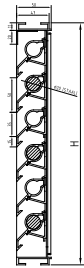
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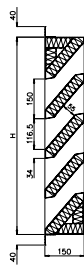
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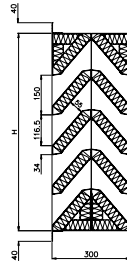
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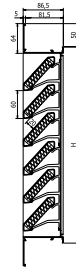
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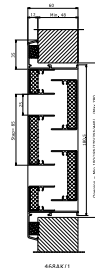
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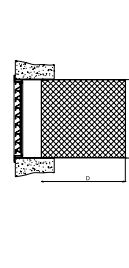
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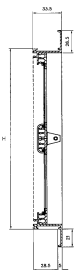
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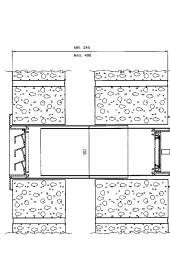
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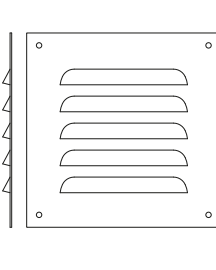
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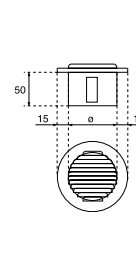
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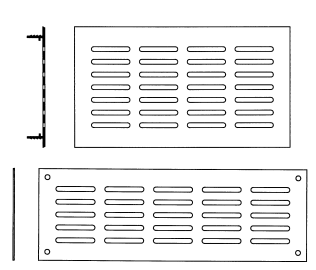
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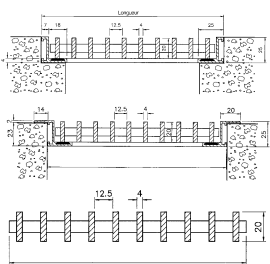
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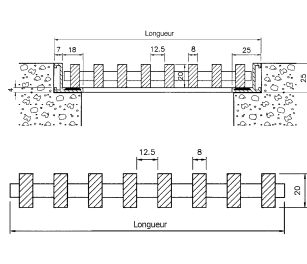
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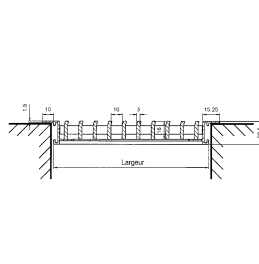
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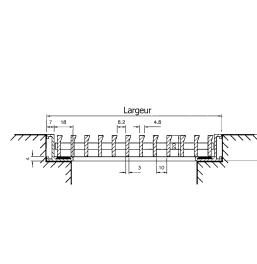
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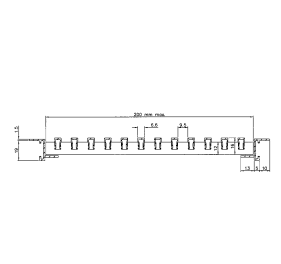
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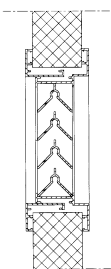
No. 393
p. 65



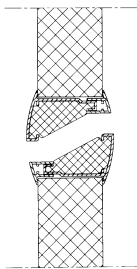
No. 394
p. 66



No. 461
p. 67



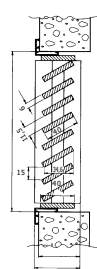
SILENDO®
p. 68



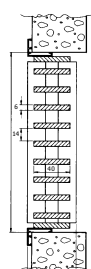
No. 468/AK2
p. 69



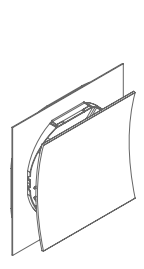
465/1 465/2
p. 70



466/1 466/2
p. 71



XD
p. 72



Colours, photos, models, technical drawings and specifications may deviate from the actual products.

BUILT-IN WALL LOUVRES

411

Wall louvre, standard series



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin/bronze colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Stainless steel 304 insect screen (2.3 x 2.3 mm) or mesh (6 x 6 mm) on request

OPTIONS

- Backframe
- Pre-installation frame
- Water channel
- Drainage profile

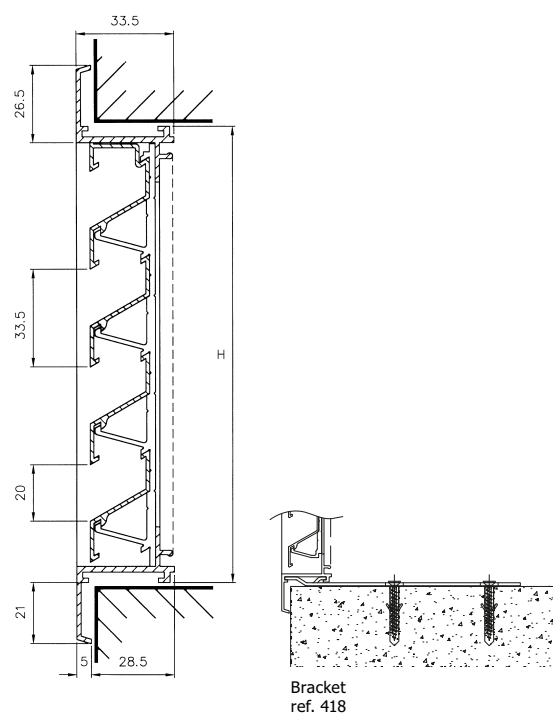
FIXING

- Brackets ref. 418 included.
- Spring clips ref. 419 available on request (small dimensions).
- For louvres larger than approx. 3 m², a reinforcing back-structure is required.

DIMENSIONS

- Depth to fit: 28.5 mm
- Flange size: 21 mm
- Minimum dimensions: 100 x 100 mm

CROSS-SECTIONS



TECHNICAL SPECIFICATIONS

411	
(EN 13030)	
AIRFLOW	
K-factor (supply)	25,77
K-factor (discharge)	25,77
C _e coefficient	0,197
C _d coefficient	0,197
TECHNICAL DATA	
Visual free area	59%
Physical free area	43%



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Stainless steel 304 insect screen (2.3 x 2.3 mm) or mesh (6 x 6 mm) on request
- Frame assembled by a single weld

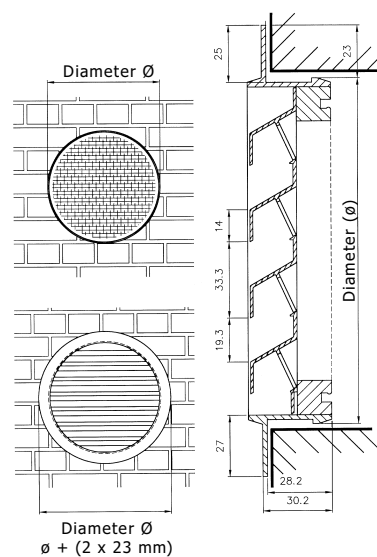
FIXING

- Brackets pre-fitted to the frame

DIMENSIONS

- Depth to fit: 28.2 mm
- Flange size: 23 mm
- Minimum diameter: 300 mm
- Maximum diameter:
 - 1400 mm if anodised in satin colour
 - 1500 mm if powder-coated in RAL or Syntha Pulvin® colour
 - over 1500 mm: in two parts

CROSS-SECTIONS



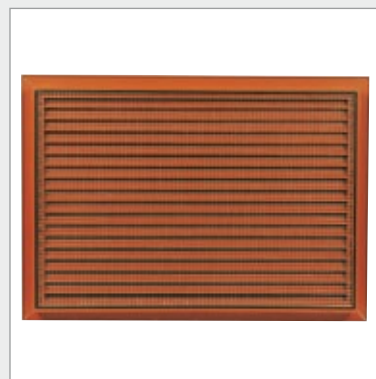
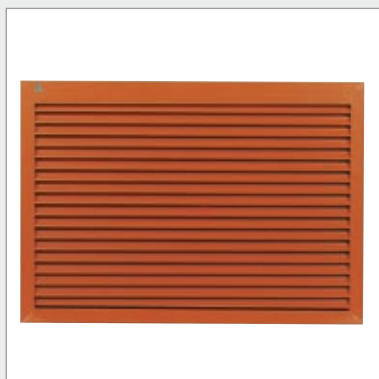
TECHNICAL SPECIFICATIONS

	411R (EN 13030)
AIRFLOW	
K-factor (supply)	25,77
K-factor (discharge)	25,77
C _e coefficient	0,197
C _d coefficient	0,197
TECHNICAL DATA	
Visual free area	59%
Physical free area	43%

BUILT-IN WALL LOUVRES

412

Wall louvre with chevron section blades, for high-voltage stations



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin/bronze colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Stainless steel 304 mesh (6 x 6 mm) or insect screen (2,3 x 2,3 mm) on request

OPTIONS

- Backframe
- Pre-installation frame
- Water channel
- Drainage profile

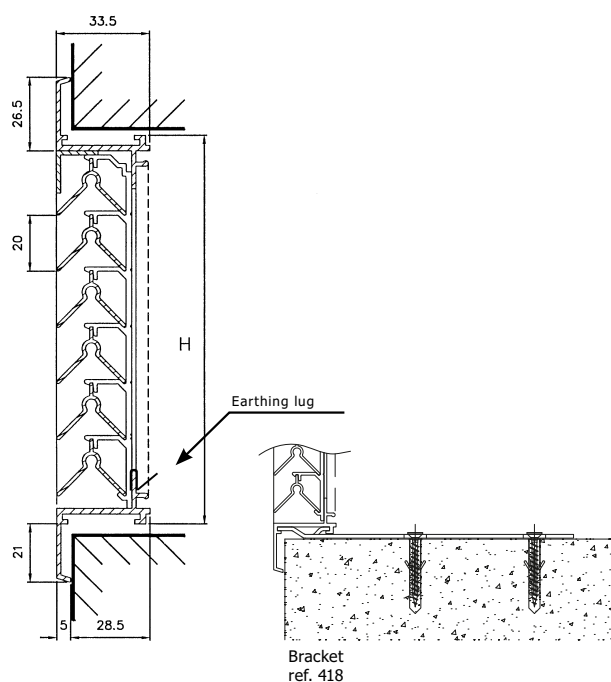
FIXING

- Brackets ref. 418 included.
- Spring clips ref. 419 available on request (small dimensions).
- For louvres larger than approx. 3 m², a reinforcing back-structure is required.

DIMENSIONS

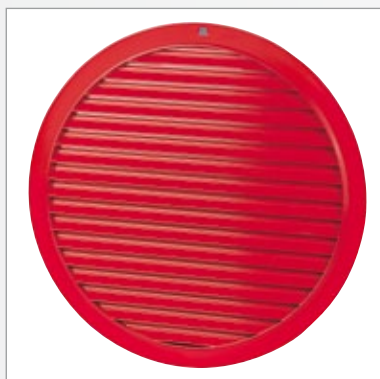
- Depth to fit: 28.5 mm
- Flange size: 21 mm
- Provided with earthing lug
- Minimum dimensions: 100 x 100 mm

CROSS-SECTIONS



TECHNICAL SPECIFICATIONS

412	
(EN 13030)	
AIRFLOW	
K-factor (supply)	33,80
K-factor (discharge)	33,80
C _e coefficient	0,172
C _d coefficient	0,172
TECHNICAL DATA	
Visual free area	93%
Physical free area	39%

**MATERIAL**

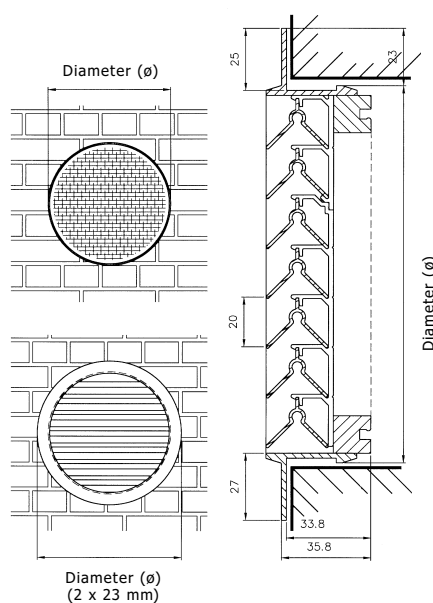
- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Stainless steel 304 mesh (6 x 6 mm) or insect screen (2.3 x 2.3 mm) on request
- Frame assembled by a single weld

FIXING

- Brackets pre-fitted to the frame

DIMENSIONS

- Depth to fit: 33.8 mm
- Flange size: 23 mm
- Minimum diameter: 300 mm
- Maximum diameter:
 - 1400 mm if anodised in satin colour
 - 1500 mm if powder-coated in RAL or Syntha Pulvin® colour
 - over 1500 mm: in two parts

CROSS-SECTIONS**TECHNICAL SPECIFICATIONS**

		412R
AIRFLOW		(EN 13030)
	K-factor (supply)	33,80
	K-factor (discharge)	33,80
	C _e coefficient	0,172
	C _d coefficient	0,172
TECHNICAL DATA		
	Visual free area	93%
	Physical free area	39%

BUILT-IN WALL LOUVRES

421

Wall louvre, heavy-duty series



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin/bronze colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Stainless steel 304 insect screen (2.3 x 2.3 mm) or mesh (6 x 6 mm) on request

OPTIONS

- Water channel
- Drainage profile

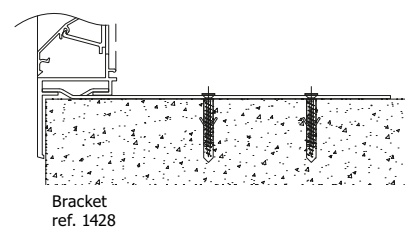
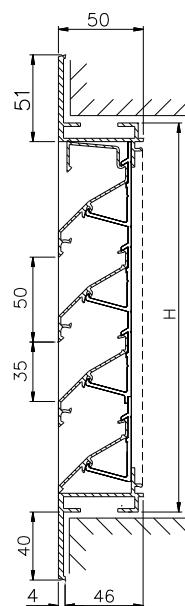
FIXING

- Brackets ref. 1428 included.
- For louvres larger than approx. 3 m², a reinforcing back-structure is required.

DIMENSIONS

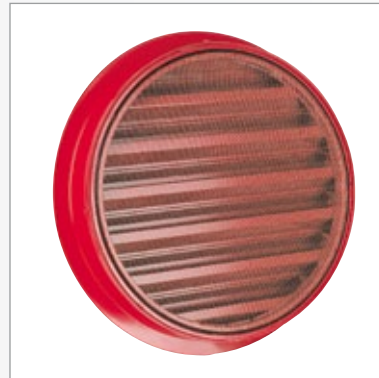
- Depth to fit: 46 mm
- Flange size: 40 mm
- Minimum dimensions: 150 x 150 mm

CROSS-SECTIONS



TECHNICAL SPECIFICATIONS

	421
AIRFLOW	(EN 13030)
K-factor (supply)	12,57
K-factor (discharge)	8,91
C _e coefficient	0,282
C _d coefficient	0,335
TECHNICAL DATA	
Visual free area	70%
Physical free area	49%



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Stainless steel 304 insect screen (2.3 x 2.3 mm) or mesh (6 x 6 mm) on request
- Frame assembled by a single weld

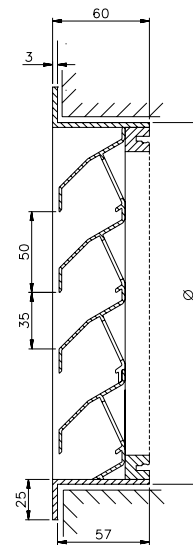
FIXING

- Brackets pre-fitted to the frame

DIMENSIONS

- Depth to fit: 57 mm
- Flange size: 22 mm
- Minimum diameter: 400 mm
- Maximum diameter:
 - 1400 mm if anodised in satin colour
 - 1500 mm if powder-coated in RAL or Syntha Pulvin® colour
 - over 1500 mm: in two parts

CROSS-SECTIONS



TECHNICAL SPECIFICATIONS		421R
AIRFLOW		(EN 13030)
K-factor (supply)		12,57
K-factor (discharge)		8,91
C _e coefficient		0,282
C _d coefficient		0,335
TECHNICAL DATA		
Visual free area		70%
Physical free area		47%

BUILT-IN WALL LOUVRES

422

Wall louvre with chevron section blades, heavy-duty series



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin/bronze colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Stainless steel 304 mesh (6 x 6 mm) or insect screen (2.3 x 2.3 mm) on request

OPTIONS

- Water channel
- Drainage profile

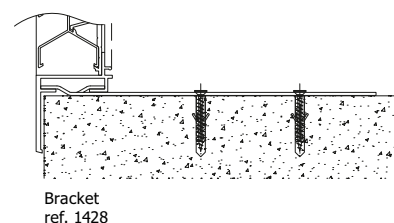
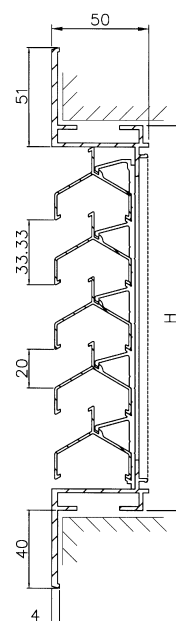
FIXING

- Brackets ref. 1428 included.
- For louvres larger than approx. 3 m², a reinforcing back-structure is required.

DIMENSIONS

- Depth to fit: 46 mm
- Flange size: 40 mm
- Minimum dimensions: 150 x 150 mm

CROSS-SECTIONS



TECHNICAL SPECIFICATIONS

	422
AIRFLOW	(EN 13030)
K-factor (supply)	61,04
K-factor (discharge)	61,04
C _e coefficient	0,128
C _d coefficient	0,128
TECHNICAL DATA	
Visual free area	59%
Physical free area	43%



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin/bronze colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Stainless steel 304 mesh (6 x 6 mm) or insect screen (2.3 x 2.3 mm) on request

OPTIONS

- Water channel
- Variable blade pitch

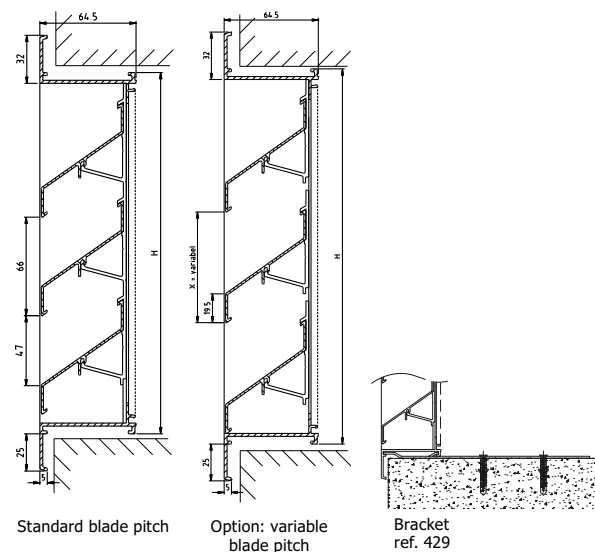
FIXING

- Brackets ref. 429 included.
- For louvres larger than approx. 3 m², a reinforcing backstructure is required.

DIMENSIONS

- Depth to fit: 59.5 mm
- Flange size: 25 mm
- Minimum dimensions: 300 x 300 mm

CROSS-SECTIONS



TECHNICAL SPECIFICATIONS

	451
AIRFLOW	(EN 13030)
K-factor (supply)	13,62
K-factor (discharge)	14,91
C _e coefficient	0,271
C _d coefficient	0,259
TECHNICAL DATA	
Visual free area	70%
Physical free area	46%

BUILT-IN WALL LOUVRES

452

Wall louvre, heavy-duty series with chevron section blades



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin/bronze colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Stainless steel 304 mesh (6 x 6 mm) or insect screen (2.3 x 2.3 mm) on request

OPTIONS

- Water channel

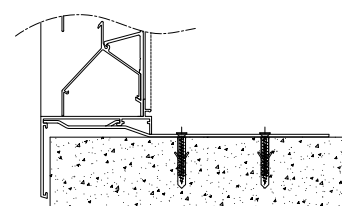
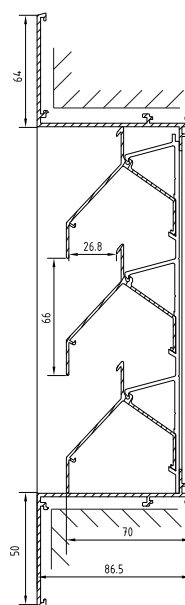
FIXING

- Brackets ref. 429 included.
- For louvres larger than approx. 3 m², a reinforcing back-structure is required.

DIMENSIONS

- Depth to fit: 82 mm
- Flange size: 48 mm
- Minimum dimensions: 305 x 305 mm

CROSS-SECTIONS



Bracket
ref. 429

TECHNICAL SPECIFICATIONS

	452
AIRFLOW	(EN 13030)
K-factor (supply)	47,73
K-factor (discharge)	52,73
C _e coefficient	0,145
C _d coefficient	0,138
TECHNICAL DATA	
Visual free area	70%
Physical free area	41%



MATERIAL

- Frame made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Roll-formed aluminium coil blades
- Finishing: powder coating in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Stainless steel 304 mesh (6 x 6 mm) or insect screen (2.3 x 2.3 mm) on request

OPTIONS

- Water channel
- Drainage profile

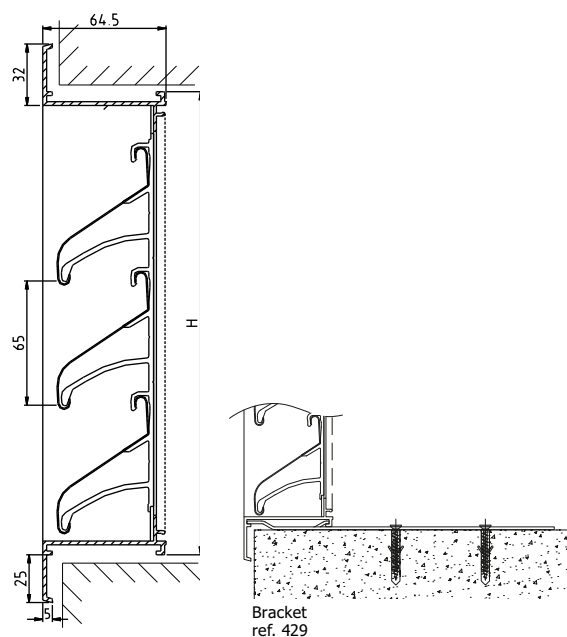
FIXING

- Brackets ref. 429 included.
- For louvres larger than approx. 3 m², a reinforcing backstructure is required.

DIMENSIONS

- Depth to fit: 59.5 mm
- Flange size: 25 mm
- Minimum dimensions: 300 x 300 mm

CROSS-SECTIONS



TECHNICAL SPECIFICATIONS

	453
AIRFLOW	(EN 13030)
K-factor (supply)	13,32
K-factor (discharge)	17,08
C _e coefficient	0,274
C _d coefficient	0,242
TECHNICAL DATA	
Visual free area	69%
Physical free area	55%

BUILT-IN WALL LOUVRES

480

High-airflow wall louvres



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: satin anodised (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Stainless steel 304 mesh (6 x 6 mm) or insect screen (2.3 x 2.3 mm) on request

OPTIONS

- Water channel

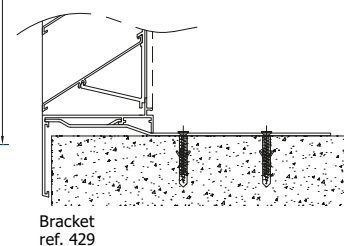
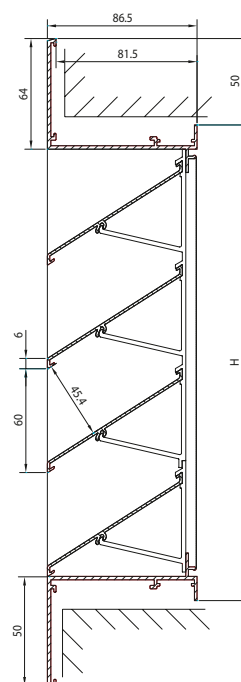
FIXING

- Brackets ref. 429 included.
- For louvres larger than approx. 3 m², a reinforcing backstructure is required.

DIMENSIONS

- Depth to fit: 81.5 mm
- Flange size: 50 mm
- Minimum dimensions: 300 x 300 mm

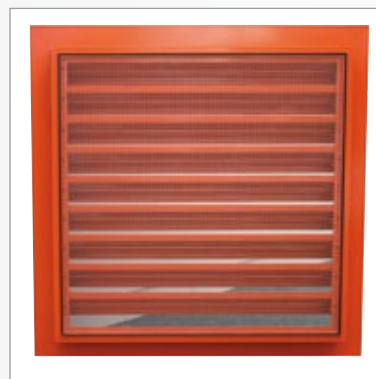
CROSS-SECTIONS



Bracket
ref. 429

TECHNICAL SPECIFICATIONS

	480
AIRFLOW	(EN 13030)
K-factor (supply)	4,81
K-factor (discharge)	4,53
C _e coefficient	0,456
C _d coefficient	0,470
TECHNICAL DATA	
Visual free area	90%
Physical free area	76%



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin/bronze colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Stainless steel 304 mesh (2.3 x 2.3 mm) or insect screen (6 x 6 mm) on request

OPTIONS

- Water channel
- Drainage profile

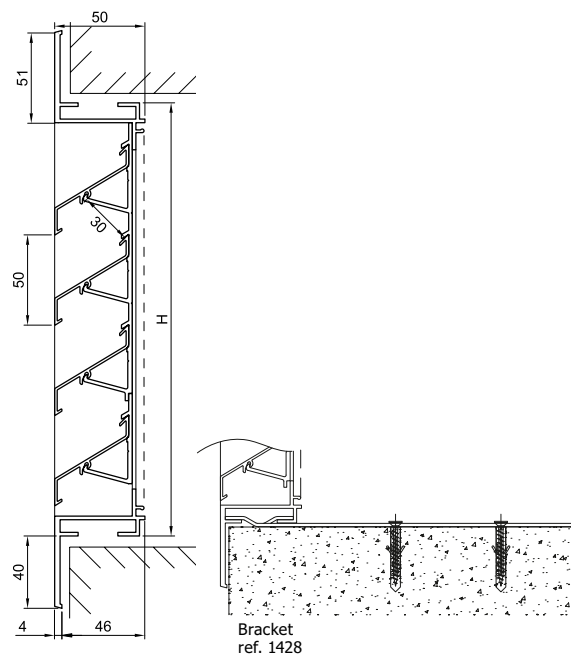
FIXING

- Brackets ref. 1428 included.
- For louvres larger than approx. 3 m², a reinforcing backstructure is required.

DIMENSIONS

- Depth to fit: 46 mm
- Flange size: 40 mm
- Minimum dimensions: 150 x 150 mm

CROSS-SECTIONS



TECHNICAL SPECIFICATIONS		481
AIRFLOW		(EN 13030)
	K-factor (supply)	8,75
	K-factor (discharge)	8,45
	C _e coefficient	0,338
	C _d coefficient	0,344
TECHNICAL DATA		
	Visual free area	70%
	Physical free area	60%

BUILT-IN WALL LOUVRES

425

Wall louvre, extra-heavy-duty series



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin/bronze colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Stainless steel 304 mesh (6 x 6 mm)

OPTIONS

- Water channel
- Drainage profile

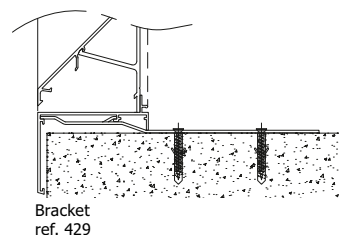
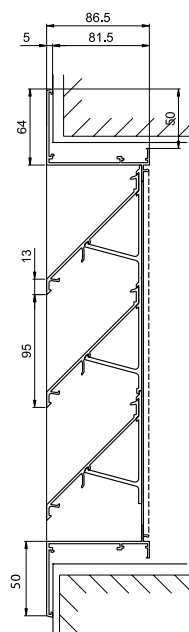
FIXING

- Brackets ref. 429 included.
- For louvres larger than approx. 3 m², a reinforcing back-structure is required.

DIMENSIONS

- Depth to fit: 46 mm
- Flange size: 50 mm
- Minimum dimensions: 300 x 300 mm

CROSS-SECTIONS



TECHNICAL SPECIFICATIONS

425	
(EN 13030)	
AIRFLOW	
K-factor (supply)	11,41
K-factor (discharge)	11,65
C _e coefficient	0,296
C _d coefficient	0,293
TECHNICAL DATA	
Visual free area	86%
Physical free area	49%



MATERIAL

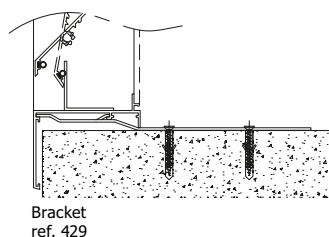
- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin/bronze colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Stainless steel 304 mesh (6 x 6 mm)

FIXING

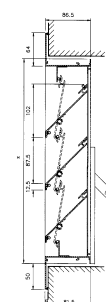
- Brackets ref. 429 included.

DIMENSIONS

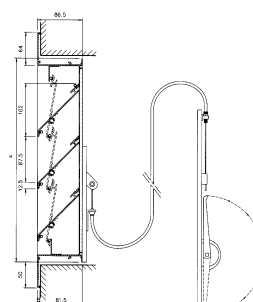
- Height = (multiple of 100) + 90 mm
- Maximum length in one piece: 1300 mm
- Minimum dimensions: 300 x 300 mm
- Depth to fit: 81.5 mm
- Flange size: 50 mm



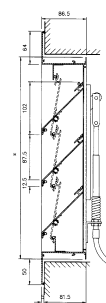
CROSS-SECTIONS



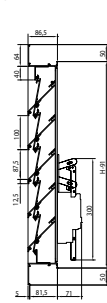
Type 427/1
Manual control
Minimum louvre
height: 290 mm



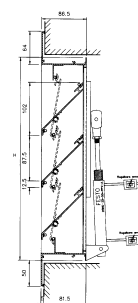
Type 427/2
Cable control up to
5000 mm
Minimum louvre
height: 390 mm



Type 427/3
Ultraflex control up
to max. 7 m
Minimum louvre
height: 690 mm



Type 427/4
220 V/24 V motor
control
Minimum louvre
height: 390 mm



Type 427/5
Air pressure control
Minimum louvre
height: 390 mm

TECHNICAL SPECIFICATIONS

427	
(EN 13030)	
AIRFLOW	
K-factor (supply)	11,41
K-factor (discharge)	11,65
C _e coefficient	0,296
C _d coefficient	0,293
TECHNICAL DATA	
Visual free area	88%
Physical free area	53%

BUILT-IN WALL LOUVRES

491

"Storm" wall louvre



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Stainless steel 304 mesh (6 x 6 mm) or insect screen (2.3 x 2.3 mm) on request

OPTIONS

- Water channel
- On request: blades welded to frame for extra strength and L-section mounted on vertical frame

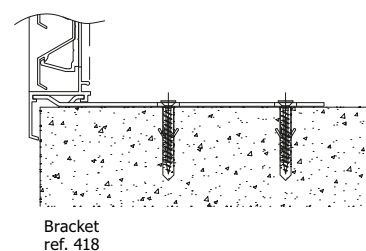
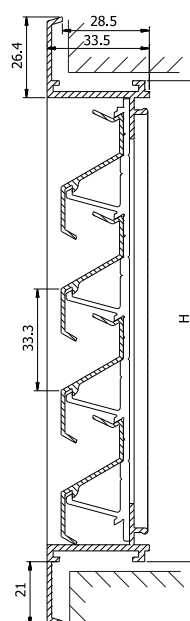
FIXING

- Brackets ref. 418 included.

DIMENSIONS

- Depth to fit: 28.5 mm
- Flange size: 21 mm
- Minimum dimensions: 100 x 100 mm
- Blade pitch: 21.5 mm

CROSS-SECTIONS



TECHNICAL SPECIFICATIONS

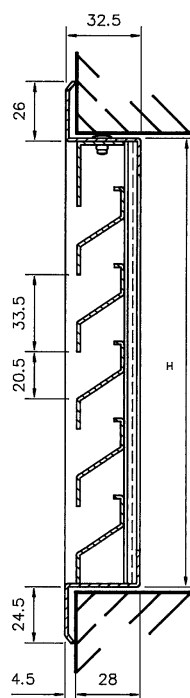
	491
AIRFLOW	(EN 13030)
K-factor (supply)	82,66
K-factor (discharge)	95,84
C _e coefficient	0,110
C _d coefficient	0,102
TECHNICAL DATA	
Visual free area	57%
Physical free area	26%

**MATERIAL**

- Made from steel plate
- Electroplating: 10 micron FeZn12C
- Steel mesh (5 x 5 mm)

DIMENSIONS

- Depth to fit: 28 mm
- Flange size: 24.5 mm
- No made to measure
- Standard dimensions:
 - 200 x 200 mm
 - 300 x 300 mm
 - 400 x 200 mm
 - 400 x 300 mm
 - 400 x 400 mm

CROSS-SECTIONS**TECHNICAL SPECIFICATIONS****511**

TECHNICAL DATA	
Visual free area	61%
Physical free area	43%

BUILT-IN WALL LOUVRES

521

Wall louvre, heavy-duty series, galvanised steel



MATERIAL

- Made from steel plate
- Electroplating: 10 micron FeZn12C
- Finishing: powder coating in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Steel mesh (12 x 12 mm)

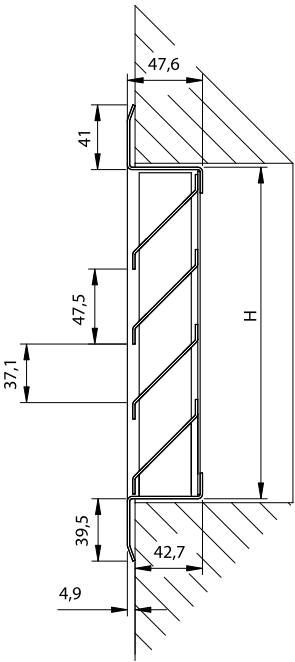
FIXING

- Brackets pre-fitted to the frame

DIMENSIONS

- Depth to fit: 43 mm
- Flange size: 40 mm
- Minimum dimensions: 300 x 300 mm
- Standard dimensions: 300 x 300 mm
400 x 400 mm
500 x 500 mm
600 x 400 mm
600 x 600 mm
1000 x 500 mm
1000 x 1000 mm

CROSS-SECTIONS



TECHNICAL SPECIFICATIONS

521	
TECHNICAL DATA	
Visual free area	68%
Physical free area	47%



MATERIAL

- Made from stainless steel 316 L
- Stainless steel 304 mesh (6 x 6 mm)

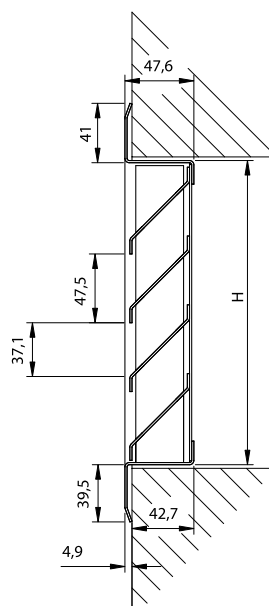
FIXING

- Brackets pre-fitted to the frame

DIMENSIONS

- Depth to fit: 43 mm
- Flange size: 40 mm

CROSS-SECTIONS



TECHNICAL SPECIFICATIONS

621

TECHNICAL DATA	
Visual free area	68%
Physical free area	47%

SURFACE-MOUNTED LOUVRES

431

Surface-mounted wall louvre



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin/bronze colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Stainless steel 304 insect screen (2.3 x 2.3 mm) or mesh (6 x 6 mm) on request

FIXING

- Screws and plugs are included
- Louvre 431 can also be glazed-in like louvre 432 (p. 47)

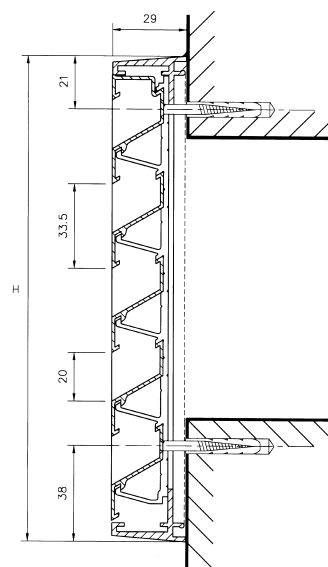
STANDARD DIMENSIONS

Dimensions	Satin anodised	Bronze anodised	RAL 9010
165 x 165 mm	•	•	•
225 x 225 mm	•	•	•
325 x 325 mm	•	•	•
425 x 425 mm	•		
525 x 525 mm	•		

DIMENSIONS

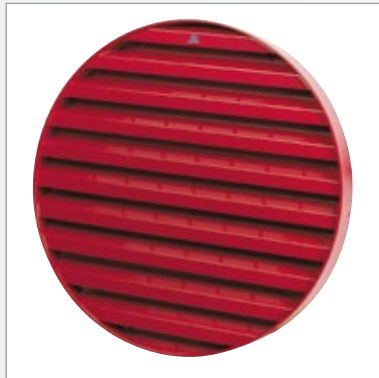
- Thickness: 29 mm
- Minimum dimensions: 120 x 120 mm

CROSS-SECTIONS



TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS	431 (EN 13030)
AIRFLOW	
K-factor (supply)	25,77
K-factor (discharge)	25,77
C _e coefficient	0,197
C _d coefficient	0,197
TECHNICAL DATA	
Visual free area	59%
Physical free area	43%



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: satin anodised (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Stainless steel 304 insect screen (2.3 x 2.3 mm) or mesh (6 x 6 mm) on request

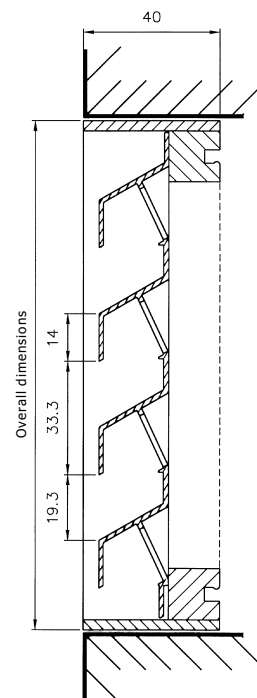
FIXING

- Brackets pre-fitted to the frame

DIMENSIONS

- Depth to fit: 40 mm
- Minimum diameter: 300 mm
- Maximum diameter:
 - 1400 mm if anodised in satin colour
 - 1500 mm if powder-coated in RAL or Syntha Pulvin® colour
 - over 1500 mm: in two parts

CROSS-SECTIONS



TECHNICAL SPECIFICATIONS

431R	
(EN 13030)	
AIRFLOW	
K-factor (supply)	25,77
K-factor (discharge)	25,77
C _e coefficient	0,197
C _d coefficient	0,197
TECHNICAL DATA	
Visual free area	58%
Physical free area	45%

SURFACE-MOUNTED LOUVRES

433

Pressure-relief damper



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin/bronze colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Extractor hood louvres: the blades open at the same time
- Pressure-relief louvres: the blades open individually
- Without insect screen

FIXING

- Invisible fixing
- Screws and plugs are included

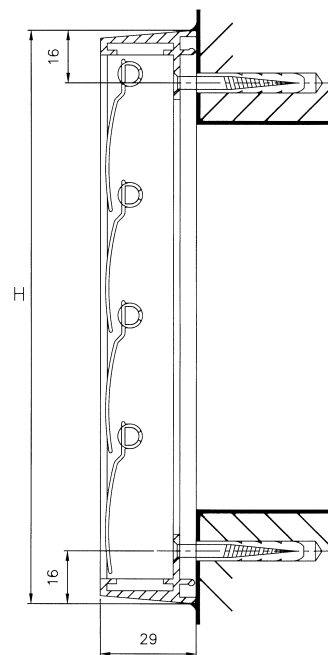
DIMENSIONS

- The size is fixed with a minimum height of 228 mm + multiple of 100 mm
- In length, the blades are in one piece up to 800 mm

STANDARD MODELS

Length x Height (L) x (H)	Satin anodised	Bronze anodised	RAL 9010	RAL 8019
EXTRACTOR HOOD LOUVRES				
173 x 173 mm	•	•	•	•
210 x 210 mm	•	•	•	•
246 x 246 mm	•		•	•
PRESSURE-RELIEF LOUVRES				
328 x 328 mm	•		•	•
428 x 428 mm	•		•	•
528 x 528 mm	•		•	•

CROSS-SECTIONS





MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin /bronze colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Stainless steel 304 insect screen (2.3 x 2.3 mm) or mesh (6 x 6 mm) on request

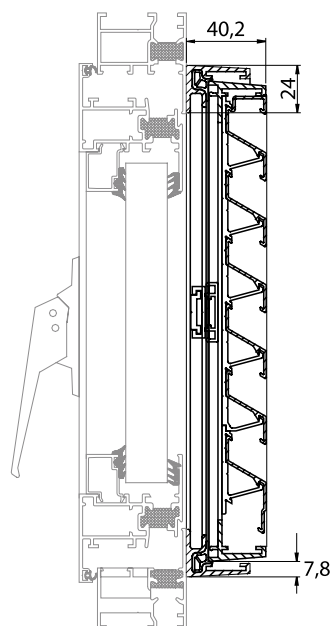
FIXING

- Screws and plugs are included

DIMENSIONS

- Thickness: 40 mm
- Minimum dimensions: 136 x 136 mm
- Maximum dimensions: 1500 x 1500 mm

CROSS-SECTIONS



TECHNICAL SPECIFICATIONS

432	
AIRFLOW	
	(EN 13030)
K-factor (supply)	25,77
K-factor (discharge)	25,77
C _e coefficient	0,197
C _d coefficient	0,197
TECHNICAL DATA	
Visual free area	59%
Physical free area	43%

GLAZED-IN LOUVRES

414

Glazed-in louvre



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin/bronze colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Stainless steel 304 insect screen (2.3 x 2.3 mm) or mesh (6 x 6 mm) on request

OPTIONS

- Water channel

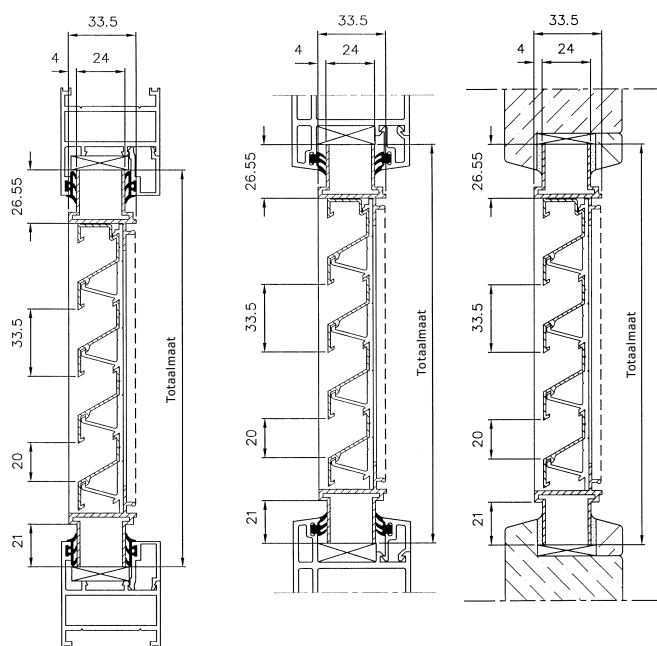
FIXING

- To be fitted like double glazing

DIMENSIONS

- Frame thickness: 24, 28 or 32 mm
- Minimum dimensions: 130 x 130 mm
- Specify on ordering: width x height in mm (overall dimensions)

CROSS-SECTIONS



TECHNICAL SPECIFICATIONS

414	
AIRFLOW	(EN 13030)
K-factor (supply)	25,77
K-factor (discharge)	25,77
C _e coefficient	0,197
C _d coefficient	0,197
TECHNICAL DATA	
Visual free area	59%
Physical free area	43%



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Stainless steel 304 insect screen (2.3 x 2.3 mm) or mesh (6 x 6 mm) on request

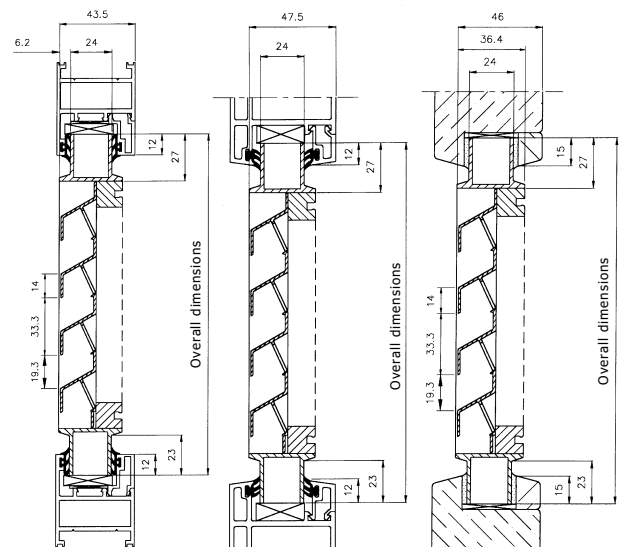
FIXING

- To be fitted like double glazing

DIMENSIONS

- Frame thickness: 24 mm
- Minimum diameter: 340 mm
- Maximum diameter:
 - 1400 mm if anodised in satin colour
 - 1500 mm if powder-coated in RAL or Syntha Pulvin® colour
 - over 1500 mm: in two parts

CROSS-SECTIONS



TECHNICAL SPECIFICATIONS		414R
AIRFLOW		(EN 13030)
K-factor (supply)		25,77
K-factor (discharge)		25,77
C _e coefficient		0,197
C _d coefficient		0,197
TECHNICAL DATA		
Visual free area		59%
Physical free area		43%

GLAZED-IN LOUVRES

414/VA

Controllable louvre



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin/bronze colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Stainless steel 304 mesh (6 x 6 mm) or insect screen (2.3 x 2.3 mm) on request

CONTROL OPTIONS

- Standard: knob control
- Rod
- Cord
- Motor

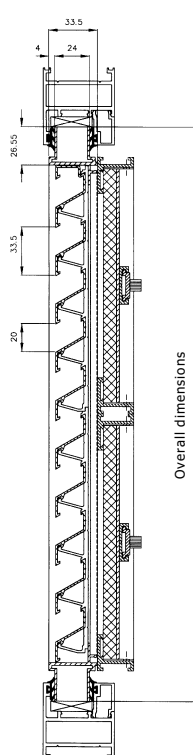
DIMENSIONS

- Frame thickness: 24, 28 or 32 mm
- Specify on ordering: width x height in mm (overall dimensions)
- Controllable in combination with 100, 130 and 150 mm hit-and-miss ventilators or with insulated aluminium door (414/D) (max size 800 x 800 mm H)
- Minimum dimensions: 130 x 130 mm

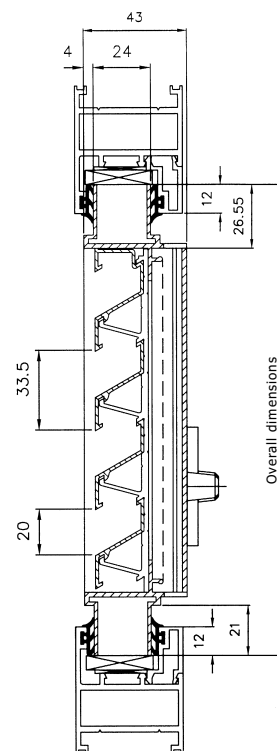
FIXING

- To be fitted like double glazing

CROSS-SECTIONS



Closable with small door



Controllable



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin/bronze colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Stainless steel 304 mesh (6 x 6 mm) or insect screen (2.3 x 2.3 mm) on request

OPTIONS

- Water channel

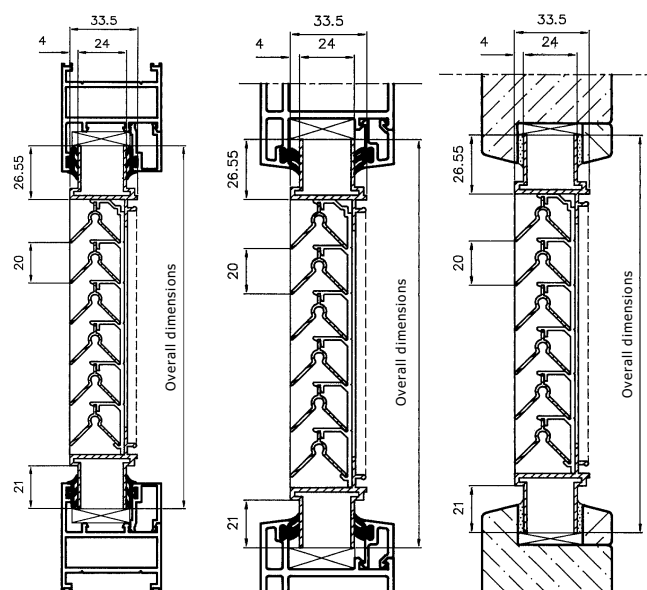
FIXING

- To be fitted like double glazing

DIMENSIONS

- Frame thickness: 24, 28 or 32 mm
- Minimum dimensions: 130 x 130 mm
- Specify on ordering: width x height in mm (Overall dimensions)

CROSS-SECTIONS



TECHNICAL SPECIFICATIONS		415
AIRFLOW		(EN 13030)
K-factor (supply)		33,80
K-factor (discharge)		33,80
C _e coefficient		0,172
C _d coefficient		0,172
TECHNICAL DATA		
Visual free area		93%
Physical free area		39%

GLAZED-IN LOUVRES

415R

Round louvre with chevron section blade



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Stainless steel 304 mesh (6 x 6 mm) or insect screen (2.3 x 2.3 mm) on request
- Frame assembled by a single weld

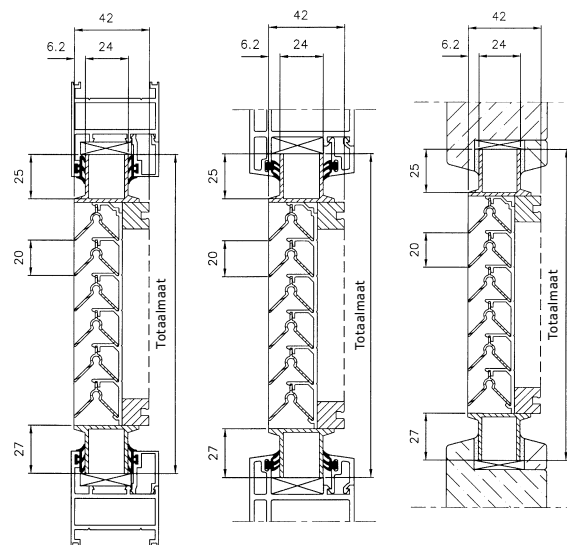
FIXING

- To be fitted like double glazing

DIMENSIONS

- Frame thickness: 24 mm
- Minimum diameter: 340 mm
- Maximum diameter:
 - 1400 mm if anodised in satin colour
 - 1500 mm if powder-coated in RAL or Syntha Pulvin® colour
 - over 1500 mm: in two parts

CROSS-SECTIONS



TECHNICAL SPECIFICATIONS

	415R
AIRFLOW	(EN 13030)
K-factor (supply)	33,80
K-factor (discharge)	33,80
C _e coefficient	0,172
C _d coefficient	0,172
TECHNICAL DATA	
Visual free area	93%
Physical free area	39%



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Stainless steel 304 mesh (6 x 6 mm) or insect screen (2.3 x 2.3 mm) on request

CONTROL OPTIONS

- Standard: knob control
- Rod
- Cord
- Motor

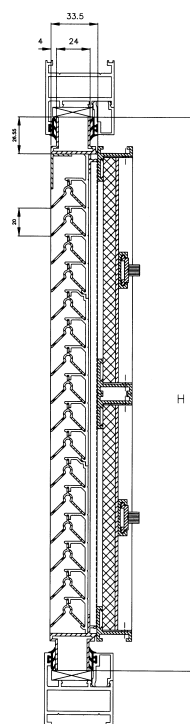
DIMENSIONS

- Frame thickness: 24, 28 or 32 mm
- Specify on ordering: width x height in mm (overall dimensions)
- Controllable in combination with 100, 130 and 150 mm hit-and-miss ventilators or with insulated aluminium door (415/D)
- Minimum dimensions: 130 x 130 mm

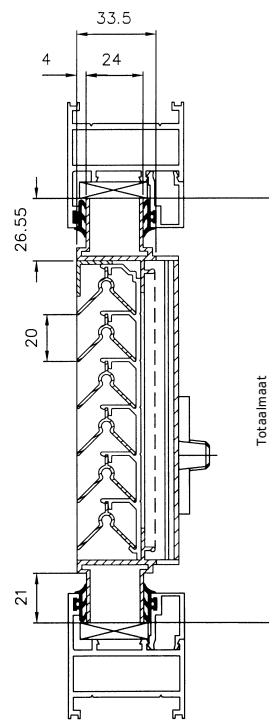
FIXING

- To be fitted like double glazing

CROSS-SECTIONS



Closable with small door



Controllable

GLAZED-IN LOUVRES

424

Glazed-in louvre, heavy-duty series



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin/bronze colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Stainless steel 304 insect screen (2.3 x 2.3 mm) or mesh (6 x 6 mm) on request

OPTIONS

- Water channel
- Controllable type 424/VA – same build as type 414/VA
- Drainage profile

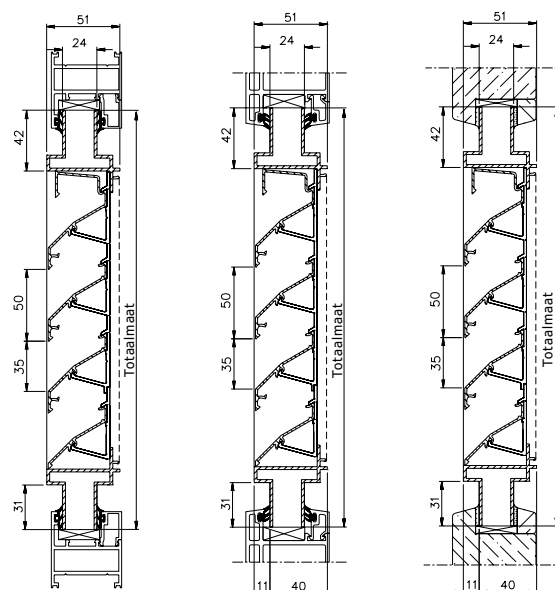
FIXING

- To be fitted like double glazing

DIMENSIONS

- Frame thickness: 24 or 28 mm
- Specify on ordering: full width x height in mm
- Minimum dimensions: 220 x 220 mm

CROSS-SECTIONS



TECHNICAL SPECIFICATIONS

424	
(EN 13030)	
AIRFLOW	
K-factor (supply)	12,57
K-factor (discharge)	8,91
C _e coefficient	0,282
C _d coefficient	0,335
TECHNICAL DATA	
Visual free area	70%
Physical free area	49%



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin/bronze colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Stainless steel 304 insect screen (2.3 x 2.3 mm) or mesh (6 x 6 mm) on request

OPTIONS

- Water channel
- Controllable type 428/VA – same build as type 414/VA

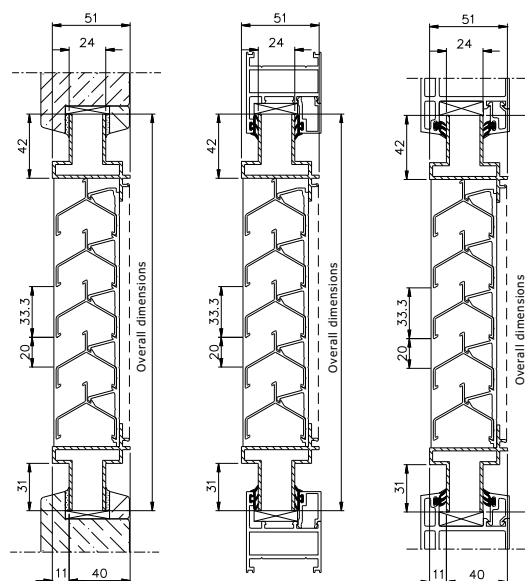
FIXING

- To be fitted like double glazing

DIMENSIONS

- Frame thickness: 24 or 28 mm
- Specify on ordering: full width x height in mm
- Minimum dimensions: 220 x 220 mm

CROSS-SECTIONS



TECHNICAL SPECIFICATIONS		428
AIRFLOW		(EN 13030)
K-factor (supply)		61,04
K-factor (discharge)		61,04
C _e coefficient		0,128
C _d coefficient		0,128
TECHNICAL DATA		
Visual free area		59%
Physical free area		43%

GLAZED-IN LOUVRES

425GL

Glazed-in louvre, extra-heavy-duty series



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin/bronze colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Stainless steel 304 mesh (6 x 6 mm) or insect screen (2.3 x 2.3 mm) on request

OPTIONS

- Water channel

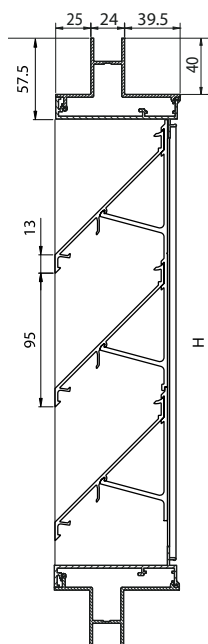
FIXING

- To be fitted like double glazing

DIMENSIONS

- Depth to fit: 81.5 mm
- Frame thickness: 24 mm (frame thickness of 8 to 50 mm on request)
- Specify on ordering: full width x height in mm
- Minimum dimensions: 385 x 385 mm

CROSS-SECTIONS



TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS		425GL
AIRFLOW		(EN 13030)
K-factor (supply)		11,41
K-factor (discharge)		11,65
C _e coefficient		0,296
C _d coefficient		0,293
TECHNICAL DATA		
Visual free area		86%
Physical free area		49%



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin/bronze colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Stainless steel 304 mesh (6 x 6 mm) or insect screen (2.3 x 2.3 mm) on request

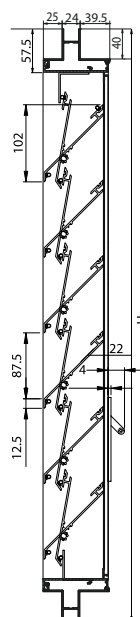
FIXING

- To be fitted like double glazing

DIMENSIONS

- Height = (number of blades x 100) + 177 mm
- Maximum width in one piece: 1300 mm
- Frame thickness: 24 mm (frame thickness of 8 to 50 mm on request)
- Specify on ordering: full width x height in mm
- Minimum dimensions: 377 x 377 mm

CROSS-SECTIONS



TECHNICAL SPECIFICATIONS		427
AIRFLOW		(EN 13030)
K-factor (supply)		11,41
K-factor (discharge)		11,65
C _e coefficient		0,296
C _d coefficient		0,293
TECHNICAL DATA		
Visual free area		86%
Physical free area		53%

GLAZED-IN LOUVRES

483

High-airflow glazed-in louvre



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin/bronze colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Stainless steel 304 mesh (6 x 6 mm) or insect screen (2.3 x 2.3 mm) on request

OPTIONS

- Water channel

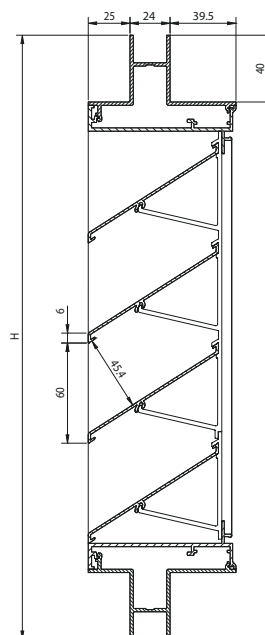
FIXING

- To be fitted like double glazing

DIMENSIONS

- Frame thickness: 24 mm (frame thickness of 8 to 50 mm on request)
- Specify on ordering: full width x height in mm
- Minimum dimensions: 385 x 385 mm

CROSS-SECTIONS



TECHNICAL SPECIFICATIONS

483

AIRFLOW	(EN 13030)
K-factor (supply)	4,81
K-factor (discharge)	4,53
C _e coefficient	0,456
C _d coefficient	0,470
TECHNICAL DATA	
Visual free area	90%
Physical free area	76%



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin/bronze colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Stainless steel 304 insect screen (2.3 x 2.3 mm) or mesh (6 x 6 mm) on request

OPTIONS

- Controllable type 484/VA – same build as type 414/VA
- Water channel

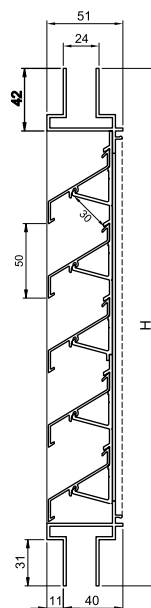
FIXING

- To be fitted like double glazing

DIMENSIONS

- Frame thickness: 24 or 28 mm
- Specify on ordering: full width x height in mm
- Minimum dimensions: 220 x 220 mm

CROSS-SECTIONS



TECHNICAL SPECIFICATIONS		484
AIRFLOW		(EN 13030)
K-factor (supply)		8,75
K-factor (discharge)		8,45
C _e coefficient		0,338
C _d coefficient		0,344
TECHNICAL DATA		
Visual free area		70%
Physical free area		60%

GLAZED-IN LOUVRES

327/1

Louvre with glass blades, single glazing



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Glazing: float, safety glass, decorative glass, wired glass: 6 mm thick
- Watertightness provided by two rubber strips

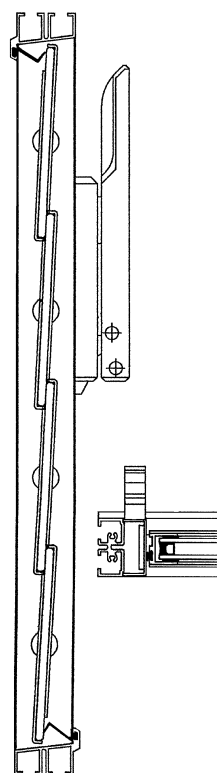
OPTIONS

- Without glass
- Vertical version
- Manual or rod-actuated mechanical control, or electric, hydraulic or air pressure control (left or right)
- Surround thickness: 20, 24, 28 or 32 mm

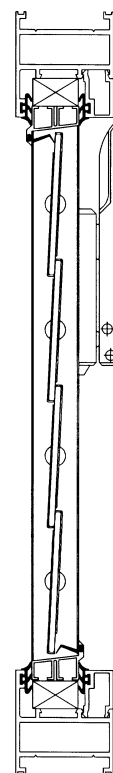
DIMENSIONS

- Blade height/length ratio: maximum 1/8
- Maximum opening angle: 78°
- Blades: all heights from 100 mm to 400 mm possible; number of blades optional
- Frame thickness: 45 mm
- External sections have an angle of 7° to ensure water runoff

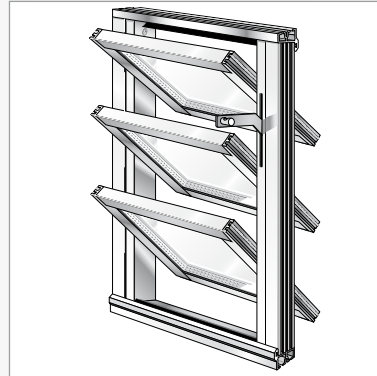
CROSS-SECTIONS



327/1



327/1
with U-section



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Glazing: float, safety glass, decorative glass, wired glass: two 3 mm panes + 10 mm gap
- Perfectly watertight thanks to a combination of brush seals and double rubber strips

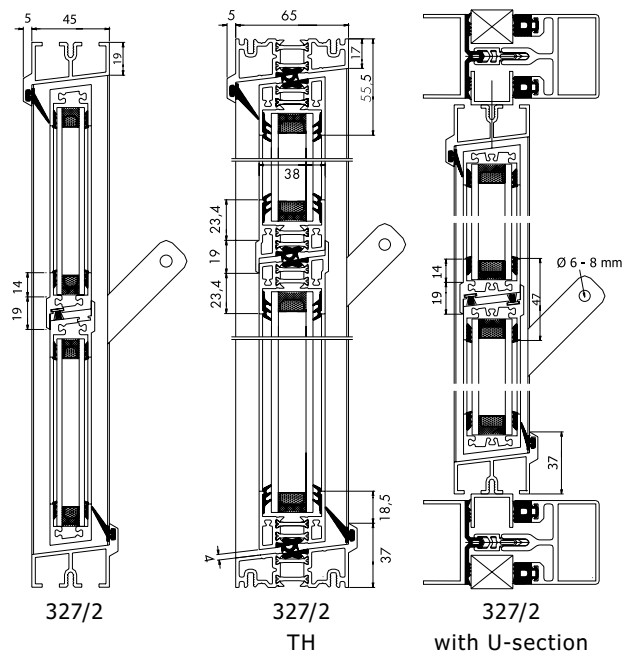
OPTIONS

- Without glass
- Vertical version
- Manual or rod-actuated mechanical control, or electric, hydraulic or air pressure control (left or right)
- Surround thickness: 20, 24, 28 or 32 mm

DIMENSIONS

- Blade height/length ratio: maximum 1/8
- Maximum opening angle: 78°
- Blades: all heights from 100 mm to 400 mm possible; number of blades optional
- Frame thickness: 45 mm or 65 mm (with thermal break)
- External sections have an angle of 7° to ensure water runoff

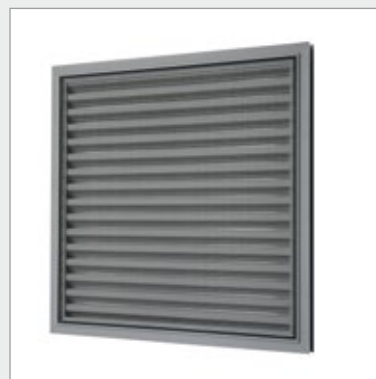
CROSS-SECTIONS



GLAZED-IN LOUVRES

494

Glazed-in "storm" louvre



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Stainless steel 304 mesh (6 x 6 mm) or insect screen (2.3 x 2.3 mm) on request

OPTIONS

- Water channel
- On request: blades welded to frame for extra strength and L-section mounted on vertical frame

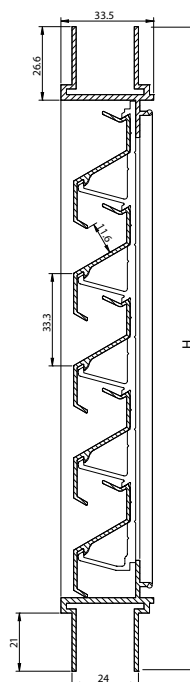
FIXING

- To be fitted like double glazing

DIMENSIONS

- Frame thickness: 24, 28 or 32 mm
- Specify on ordering: full width x height in mm
- Minimum dimensions: 130 x 130 mm

CROSS-SECTIONS



TECHNICAL SPECIFICATIONS

494

AIRFLOW	(EN 13030)
K-factor (supply)	82,66
K-factor (discharge)	95,84
C _e coefficient	0,110
C _d coefficient	0,102
TECHNICAL DATA	
Visual free area	57%
Physical free area	26%

BURGLAR-PROOF WALL LOUVRES

To ventilate protected spaces

423



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin/bronze colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Stainless steel 304 insect screen (2.3 x 2.3 mm) or mesh (6 x 6 mm) on request

FIXING

- The steel bars of these louvers are to be incorporated in the wall

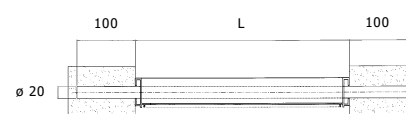
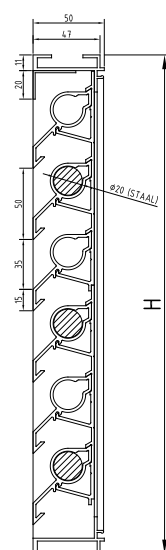
TEST REPORT

- Official testreport: BBRI report n° DE78A982 (available on request)
- Burglary protection class 4 (WK4) – in accordance with EN 1627

DIMENSIONS

- Depth to fit: 50 mm
- No flange
- There is a tubular bar in dichromated steel (ø 20 mm) every two blades
- Minimum dimensions: 150 x 150 mm

CROSS-SECTIONS



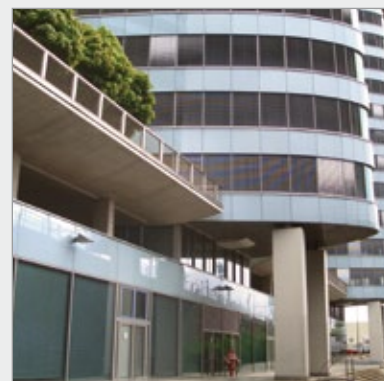
TECHNICAL SPECIFICATIONS

	423 (EN 13030)
AIRFLOW	
K-factor (supply)	21,55
K-factor (discharge)	n.c.
C _e coefficient	0,215
C _d coefficient	n.c.
TECHNICAL DATA	
Visual free area	70%
Physical free area	24%

ACOUSTIC LOUVRES

445/150

Acoustic wall louvre



INTRODUCTION

The RENSON 445/150 wall louvre is mainly used in ventilation, cooling and heating systems and car parks, and to absorb industrial noise. The bottom part consists of a perforated plate for soundproofing.

MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Sound absorbing material: non-combustible mineral wool
- Stainless steel 304 mesh (6 x 6 mm)

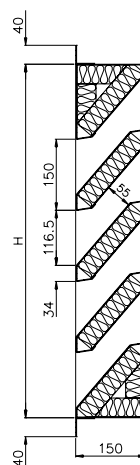
AVAILABLE MODELS

- The 445/150 is always made to measure.
- For louvres larger than approx. 3 m², a reinforcing backstructure is required.

DIMENSIONS

- Minimum dimensions: 300 x 300 mm H
- Height in 150 mm steps (blade pitch)
- Depth to fit: 150 mm
- Flange size: 40 mm

CROSS-SECTIONS



TECHNICAL SPECIFICATIONS

445/150	
(EN 13030)	
AIRFLOW	
K-factor (supply)	14,24
K-factor (discharge)	14,24
C _e coefficient	0,265
C _d coefficient	0,265
COMFORT	(EN ISO 140-10, EN ISO 717-1)
Sound reduction in open position R _w (C;C _{tr})	11 (0;-1) dB
TECHNICAL DATA	
Visual free area	77%
Physical free area	35%



INTRODUCTION

The RENSON 445/300 wall louvre is mainly used in ventilation, cooling and heating systems and car parks, and to absorb industrial noise. The bottom part consists of a perforated plate for soundproofing.

MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Sound absorbing material: non-combustible mineral wool
- Stainless steel 304 mesh (6 x 6 mm)

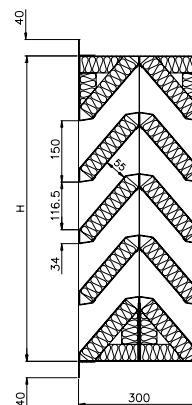
AVAILABLE MODELS

- The 445/300 is always made to measure.
- For louvres larger than approx. 3 m², a reinforcing backstructure is required.

DIMENSIONS

Minimum dimensions: 300 x 300 mm H
Height in 150 mm steps (blade pitch)
Depth to fit: 300 mm
Flange size: 40 mm

CROSS-SECTIONS

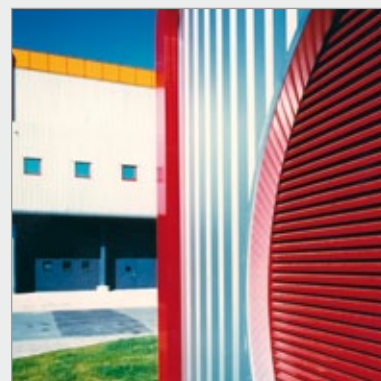
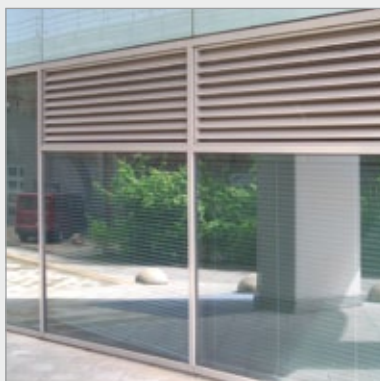


TECHNICAL SPECIFICATIONS	445/300
AIRFLOW	(EN 13030)
K-factor (supply)	28,60
K-factor (discharge)	28,60
C _e coefficient	0,187
C _d coefficient	0,187
COMFORT	(EN ISO 140-10, EN ISO 717-1)
Sound reduction in open position R _w (C;C _{tr})	16 (-1;-3) dB
TECHNICAL DATA	
Visual free area	77%
Physical free area	35%

ACOUSTIC LOUVRES

445/86

Acoustic wall louvre



INTRODUCTION

The RENSON 445/86 acoustic wall louvre is mainly used in ventilation, cooling and heating systems and car parks, and to absorb industrial noise. Louvre 445/86 is affixed using the brackets provided.

MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin/bronze colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Sound absorbing material: non-combustible mineral wool
- Stainless steel 304 mesh (6 x 6 mm) or insect screen (2.3 x 2.3 mm) on request

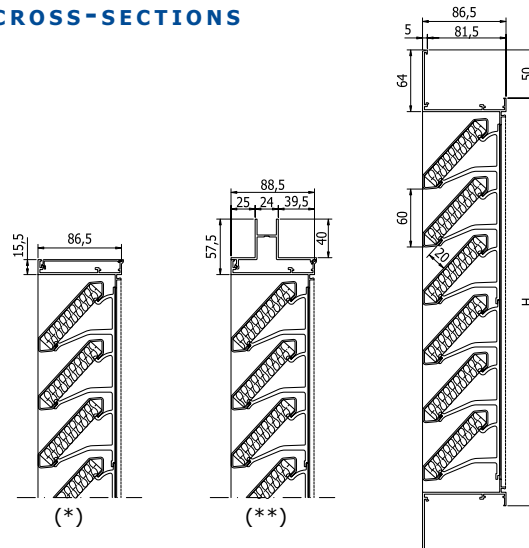
AVAILABLE MODELS

- The 445/86 is always made to measure.
- Optional water channel and drainage profile available on order.
- The 445/86 can also be ordered with a flangeless frame* or for glazing into a window profile** (for 24 mm thick glass).
- For louvres larger than approx. 3 m², a reinforcing backstructure is required.

DIMENSIONS

- Minimum dimensions: 300 x 300 mm H
- Height in 60 mm steps (blade pitch)
- Depth to fit: 81.5 mm
- Frame rebate: 50 mm

CROSS-SECTIONS



TECHNICAL SPECIFICATIONS

445/86	
AIRFLOW	(EN 13030)
K-factor (supply)	9,22
K-factor (discharge)	13,29
C _e coefficient	0,329
C _d coefficient	0,274
COMFORT	(EN ISO 140-10, EN ISO 717-1)
Sound reduction in open position R _w (C _i /C _{tr})	6 (-1;-2) dB
TECHNICAL DATA	
Visual free area	77%
Physical free area	34%



468AK/1 – front view



468AK/1 – rear view

INTRODUCTION

The RENSON 468 AK/1 acoustic wall louvre is mainly used in hospitals, schools, sports facility changing rooms, etc. The airway is arranged in the form of a labyrinth. Louvre 468 AK/1 is affixed using the brackets provided.

MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Sound absorbing material: synthetic foam

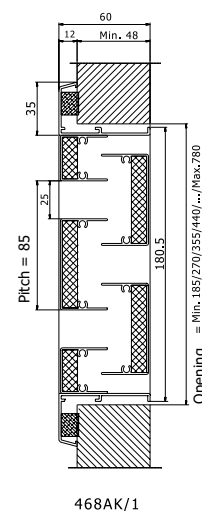
AVAILABLE MODELS

- The 468 AK/1 is always made to measure, up to a maximum size of 776 x 776 mm.

DIMENSIONS

- Minimum dimensions: 200 x 181 mm H
- Maximum dimensions: 776 x 776 mm H
- Fitting dimensions: 7 mm more than the louvre dimensions.
- Height in 85 mm steps (blade pitch)
- Depth to fit: 48 mm
- Flange size: 30 mm

CROSS-SECTIONS



468AK/1

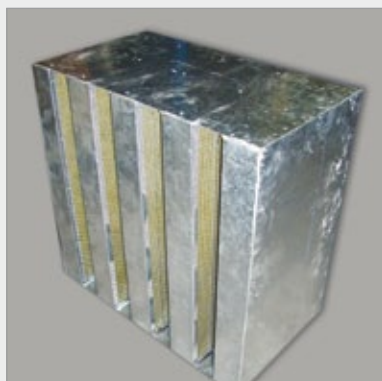
TECHNICAL SPECIFICATIONS

	468AK/1
AIRFLOW	(EN 13030)
K-factor (supply)	164,37
K-factor (discharge)	168,66
C _e coefficient	0,078
C _d coefficient	0,077
COMFORT	(EN ISO 140-10, EN ISO 717-1)
Sound reduction in open position R _w (C;C _{tr})	8 (-1;-2) dB
TECHNICAL DATA	
Visual free area	29%
Physical free area	29%

ACOUSTIC LOUVRES

445B

Acoustic silencer for louvres



INTRODUCTION

The RENSON 445B acoustic silencer is available in three depths: 425, 725 and 1025 mm. On the outside, a louvre (type 411, 421, 425, 451, etc., depending on the required airflow) is fitted for an aesthetic appearance and protection against rain.

The acoustic silencer is mainly used in installations requiring a high degree of soundproofing.

MATERIAL

- Galvanised steel plate.
- Louvre finish in aluminium: anodised in satin colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (refer to louvres) (for UK min 40 microns)
- Sound absorbing material: non-combustible mineral wool

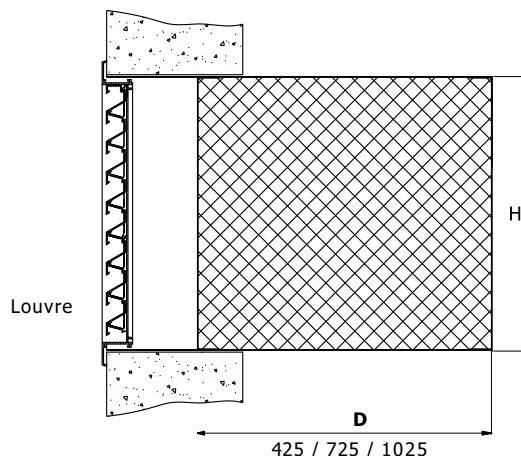
AVAILABLE MODELS

- Acoustic silencers 445B are always made to measure.

DIMENSIONS

- Depth: 425 mm, 725 mm or 1025 mm.

CROSS-SECTIONS



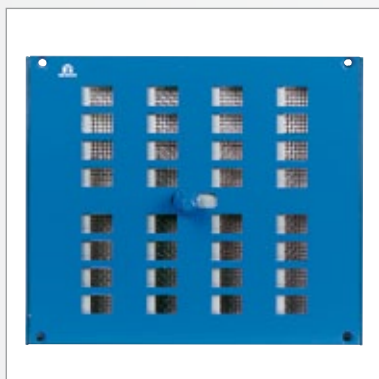
TECHNICAL SPECIFICATIONS

445B / 1025	
(EN 13030)	
AIRFLOW	Subject to the louvre used on the outside
K-factor (supply)	
K-factor (discharge)	
C _e coefficient	
C _d coefficient	
COMFORT	(EN ISO 140-10, EN ISO 717-1)
Sound reduction in open position R _w (C _i ;C _{tr})	19 (-1;-4) dB
TECHNICAL DATA	Subject to the louvre used on the outside
Visual free area	
Physical free area	

CONTROLLABLE INTERNAL LOUVRES

Register to fix

4032



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin/bronze colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Stainless steel 304 insect screen (2.3 x 2.3 mm)

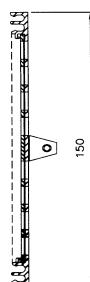
FIXING

- Screws and plugs are included

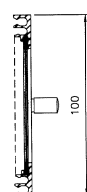
DIMENSIONS

- Slide knob control
- Rotating knob for louver lengths of 500 mm and above (possibility of pull-cord operation)
- Special heights on request
- The louver height must fit within 100, 130 or 150 mm modules

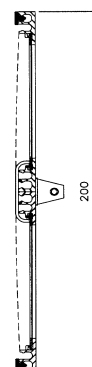
CROSS-SECTIONS



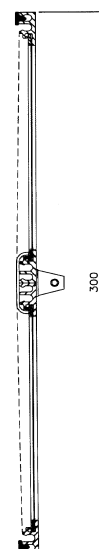
4032/1



4032/4



4032/2



4032/3

STANDARD DIMENSIONS

Dimensions Length x Height	Satin anodised	Bronze anodised	RAL 9010	Airway opening in cm ²	Airflow at 1 Pa in m ³ /h	Airflow at 2 Pa in m ³ /h
4032/1: 175 x 150 mm	•	•	•	49	12,5	17,6
4032/2: 240 x 200 mm	•	•	•	113	28,8	40,7
4032/3: 325 x 300 mm	•	•	•	260	66,2	93,6
4032/4: 300 x 100 mm	•	•	•	68	17,3	24,5
4032/5: 450 x 100 mm	•	•	•	113	28,8	40,7

CONTROLLABLE INTERNAL LOUVRES

441

Register with frame



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin/bronze colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Stainless steel 304 insect screen (2.3 x 2.3 mm)

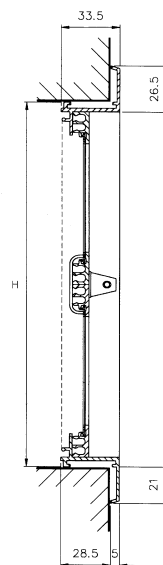
FIXING

- Spring clips available on request

DIMENSIONS

- Depth to fit: 28.5 mm
- Flange size: 21 mm
- Rotating knob for louver lengths of 500 mm and above (possibility of pull-cord or rod operation)

CROSS-SECTIONS



STANDARD DIMENSIONS

Dimensions Length x Height	Satin anodised	RAL 9010	Airway opening in cm ²	Airflow at 1 Pa in m ³ /h	Airflow at 2 Pa in m ³ /h
217 x 212 mm	•	•	113	24	34
248 x 212 mm	•	•	140	26,9	38
307 x 312 mm	•	•	260	61,5	87



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin/bronze colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Stainless steel 304 insect screen (2.3 x 2.3 mm)
- Connecting sleeve made from galvanised steel
- Optional sound absorbing material

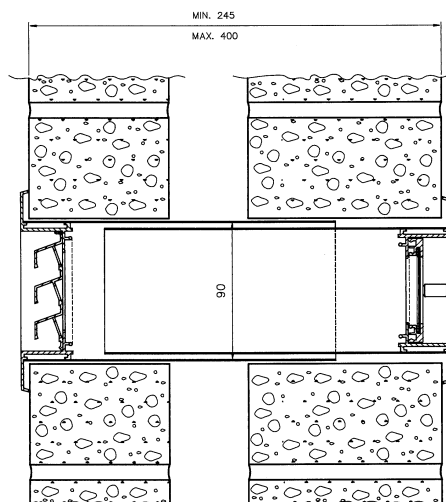
FIXING

- Spring clips are included

DIMENSIONS

- Size to fit: 265 x 90 mm (L x H)
- Flange size: 21 mm
- Controllable internal louvre
- Adjustable sleeve for wall thickness of 24.5 to 40 cm

CROSS-SECTIONS



STANDARD DIMENSIONS

Dimensions Length x Height	Satin anodised	Bronze anodised	RAL 9010	Airway opening in cm ²	Airflow at 2 Pa in m ³ /h	Airflow at 20 Pa in m ³ /h
265 x 90 mm	•	•	•	38	15	49,4

PUNCHED GRILLES

435

Punched grilles



MATERIAL

- Made from punched aluminium sheet
- Finishing: anodised in satin colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)

FIXING

- Screw-mounted (screws and plugs not provided)

CROSS-SECTIONS

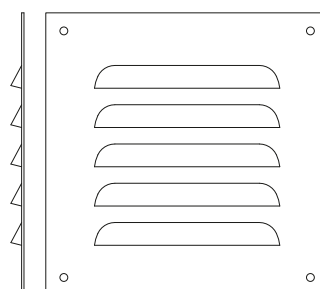


Fig. 1

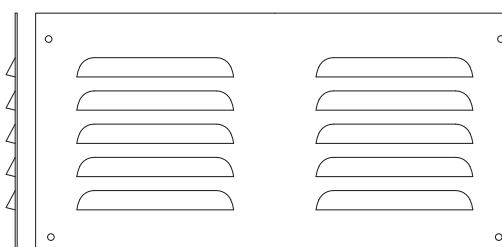
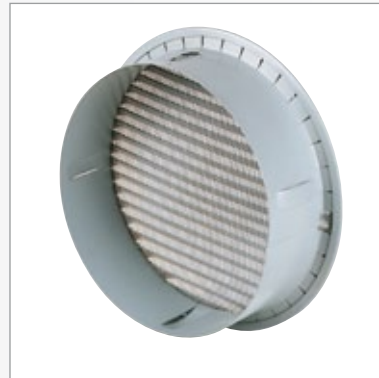


Fig. 2

STANDARD DIMENSIONS

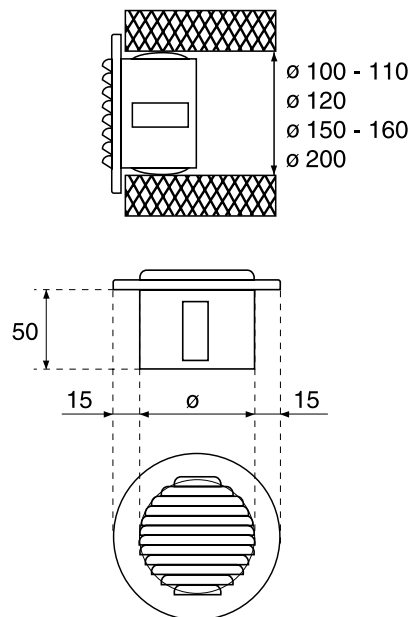
Dimensions Length x Height	Satin anodised (satin)	RAL 9010	RAL 8019	Airway opening in cm ²
180 x 180 mm (fig. 1)	•	•	•	27,5
360 x 180 mm (fig. 2)	•	•	•	55

**MATERIAL**

- Made from punched aluminium sheet
- Finishing: powder-coated in white (RAL 9910), brown (RAL 8019) and aluminium (RAL 9006) colours (60-80 microns) (for UK min 40 microns)
- Insect mesh included

FIXING

- Standard sizes supplied with extendable brackets
- Spring clips provided for the following diameters
 $\varnothing$ 95 mm (for $\varnothing$ 110 mm PVC pipes)
 $\varnothing$ 145 mm (for $\varnothing$ 160 mm PVC pipes)

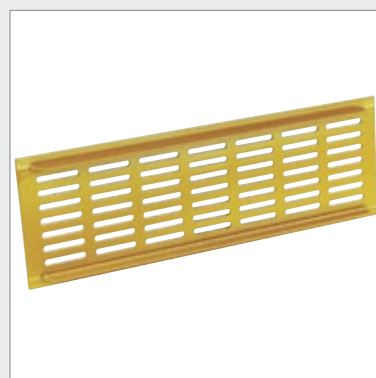
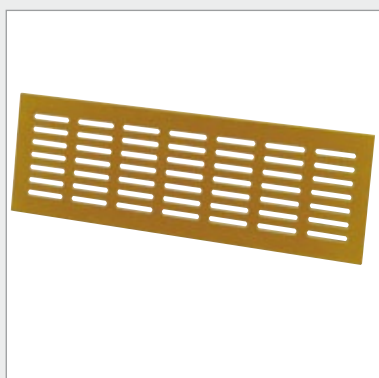
CROSS-SECTIONS**STANDARD DIMENSIONS**

Dimensions Length x Height L x H	RAL 9010	RAL 8019	RAL 9006	Airway opening in cm ²	Airflow at 1 Pa in m ³ /h	Airflow at 2 Pa in m ³ /h
$\varnothing$ 95 mm	•	•	•	51	13	18,4
$\varnothing$ 115 mm	•	•	•	75	19	26,9
$\varnothing$ 145 mm	•	•	•	119	30	42,8
$\varnothing$ 190 mm	•	•	•	204	52	73,5
$\varnothing$ 245 mm	•	•	•		70	93,3

VENTILATION GRILLES

381

Built-in ventilation grille

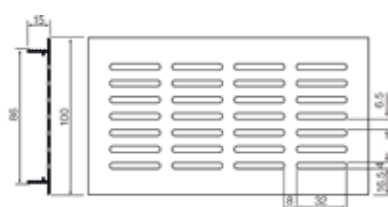


MATERIAL

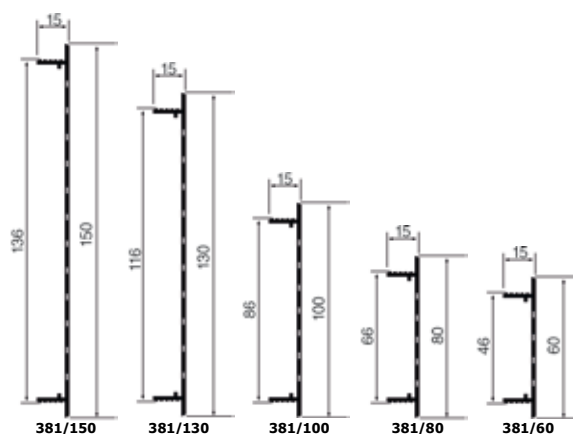
- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin/bronze/gold colours (20 microns) or powder-coated in white (RAL9910), dark brown (RAL 8022) and black (RAL 9005) (60-80 microns) or brass finish (for UK min 40 microns)

FIXING

- To be built in



CROSS-SECTIONS



STANDARD DIMENSIONS

Dimensions Length x Height	Satin anodised	Bronze anodised	Gold anodised	RAL 9010	RAL 8022	RAL 9005	Brass	Net free area cm ²
400 x 60 mm	•			•	•			44
500 x 60 mm	•			•	•		•	59
2000 x 60 mm	•			•	•			244
300 x 80 mm	•	•	•	•	•		•	43
400 x 80 mm	•	•	•	•	•	•	•	56
500 x 80 mm	•	•	•	•	•	•	•	74
600 x 80 mm	•		•	•	•			87
1000 x 80 mm	•			•	•			149
2000 x 80 mm	•		•	•	•			305
300 x 100 mm	•	•		•	•			61
400 x 100 mm	•	•	•	•	•			78
500 x 100 mm	•	•	•	•	•			104
600 x 100 mm	•	•		•	•			122
1000 x 100 mm	•			•	•			209
2000 x 100 mm	•		•	•	•			427
500 x 130 mm	•			•	•			149
1000 x 130 mm	•			•	•			298
2000 x 130 mm	•			•	•			610
500 x 150 mm	•			•	•			179
2000 x 150 mm	•		•	•	•			732

Other finishes and dimensions are available upon request, only for large quantities.
Packaging quantity: 10 pieces



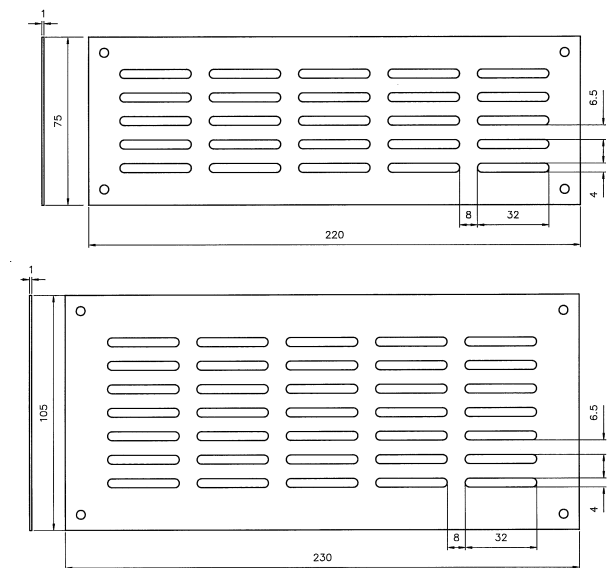
MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin colour (20 microns) or powder-coated in white (RAL 9910) and dark brown (RAL 8022) (60-80 microns) (for UK min 40 microns)

FIXING

- Screw-mounted (screws and plugs not provided)

CROSS-SECTIONS



STANDARD DIMENSIONS

Dimensions Length x Height	Satin anodised	RAL 9010	RAL 8022	Airway opening in cm ²
220 x 75 mm	•	•	•	31
300 x 75 mm	•	•	•	43
380 x 75 mm	•	•	•	56
230 x 105 mm	•	•	•	43
310 x 105 mm	•	•	•	61
390 x 105 mm	•	•	•	78

FLOOR GRILLES

311

Convactor grille



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- The frame is lined with a rubber gasket to guarantee a reduced noise level

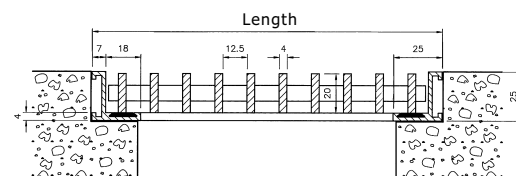
FIXING

- Brackets ref. 231 included

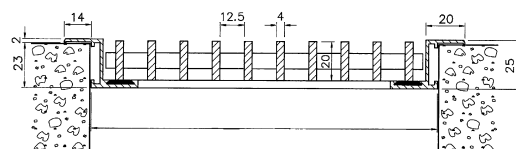
DIMENSIONS

- Bar spacing: 12.5 mm
- Grille section: 20 x 4 mm
- Maximum length:
 - Frame: 3.5 m
 - Grille: +/- 1 m
- Effective opening = length and width – 50 mm
- Bars arranged crosswise

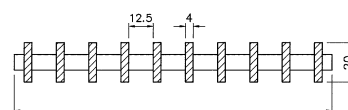
CROSS-SECTIONS



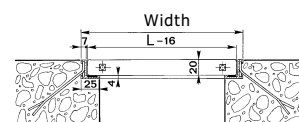
- 311/1: Floor grille or convactor cover with flangeless "L" frame



- 311/2: Floor grille or convactor cover with flanged "Z" frame



- 311/3: Frameless floor grille or convactor cover



TECHNICAL SPECIFICATIONS

311

TECHNICAL DATA	
Visual free area	76%
Physical free area	76%



MATERIAL

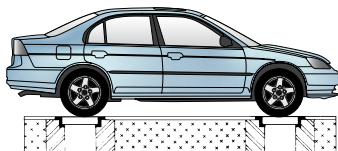
- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- The frame is lined with a rubber gasket to guarantee a reduced noise level

FIXING

- Brackets ref. 231 included

APPLICATIONS

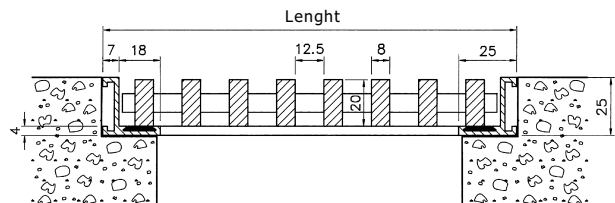
- Grilles for swimming pool drains, cellars, garages, car parks, abattoirs, etc.
- To cover underfloor wiring ducts in computer rooms.



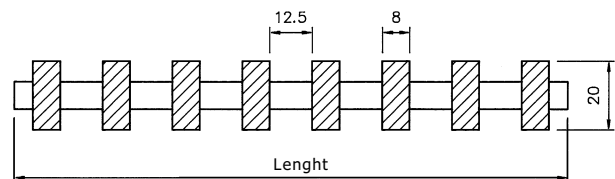
DIMENSIONS

- Bar spacing: 12.5 mm
- Grille section: 20 x 8 mm
- Maximum length:
Frame: 3.5 m
Grille: +/- 1 m
- Effective opening = length and width – 50 mm
- Bars arranged crosswise

CROSS-SECTIONS



- 371 / 1: Floor grille with flangeless "L" frame



- 371 / 3: Frameless floor grille

TECHNICAL SPECIFICATIONS

371

TECHNICAL DATA	
Visual free area	61%
Physical free area	61%

LINEAR BAR GRILLES

392

Linear bar grille



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)

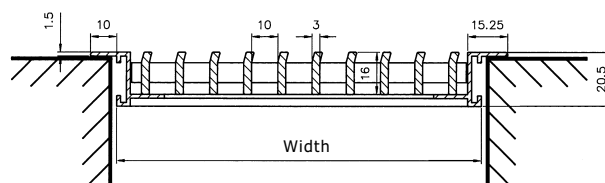
FIXING

- No fasteners

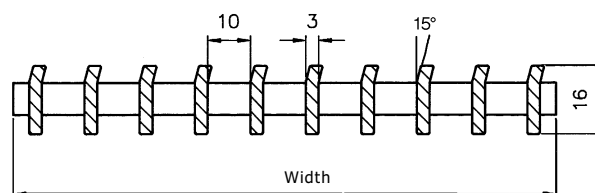
DIMENSIONS

- Bar spacing: 10 mm
- Grille section: 16 x 3 mm
- Maximum length:
Frame: 3.5 m
Grille: +/- 1.6 m
- Maximum width:
Grille: 300 mm
- Effective opening = length and width – 50 mm
- Deflection: 15°
- Bars arranged lengthwise

CROSS-SECTIONS



- 392/2: Linear bar grille with flanged "Z" frame



- 392/3: Frameless linear bar grille

TECHNICAL SPECIFICATIONS

	392
TECHNICAL DATA	
Visual free area	76%
Physical free area	76%

Not designed to walk on!



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- The frame is lined with a rubber gasket to guarantee a reduced noise level

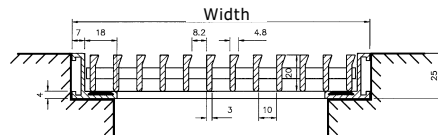
FIXING

- No fasteners

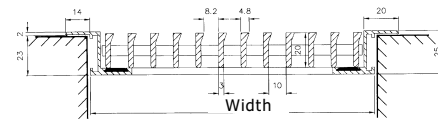
DIMENSIONS

- Bar spacing: 10 mm
- Maximum length:
Frame: 3.5 m
Grille: +/- 1.6 m
- Maximum width:
Grille: 300 mm
- Effective opening = length and width – 50 mm
- Larger inclination angle: 20°
- Bars arranged lengthwise

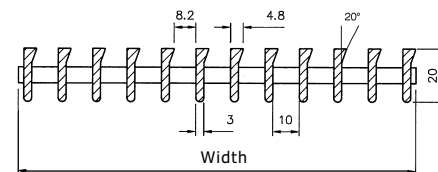
CROSS-SECTIONS



- 393/1: Linear bar grille with flangeless "L" frame



- 393/2: Linear bar grille with flanged "Z" frame



- 393/3: Frameless linear bar grille

TECHNICAL SPECIFICATIONS

TECHNICAL DATA		393
Visual free area		63%
Physical free area		63%

Not designed to walk on!

LINEAR BAR GRILLES

394

Linear bar grille for self-assembly



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)

FIXING

- No fasteners

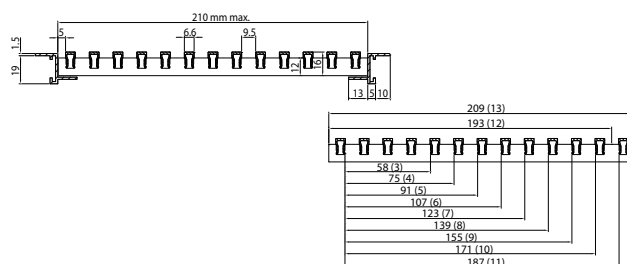
NUMBER OF CLIP SECTIONS/LENGTH

300 – 500 mm:	2 pieces
501 – 900 mm:	3 pieces
901 – 1300 mm:	4 pieces
1301 – 1700 mm:	5 pieces
1701 – 2100 mm:	6 pieces
2101 – 2600 mm:	7 pieces
2601 – 3000 mm:	8 pieces

DIMENSIONS

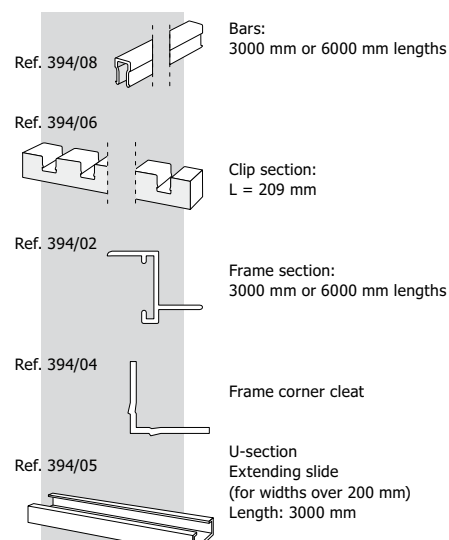
- Bar spacing: 9.5 mm
- Section length: 3 or 6 metres
- Clip length: 209 mm
- Bars arranged lengthwise

CROSS-SECTIONS



ELEMENTS

- Simple clip assembly



TECHNICAL SPECIFICATIONS

394

TECHNICAL DATA	
Visual free area	59%
Physical free area	59%

Not designed to walk on!



MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Opaque grille with backframe and fixing screws

FIXING

- Screws are included

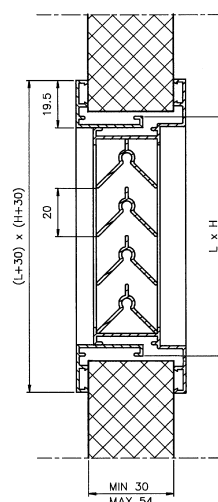
DIMENSIONS

- Door thickness: 30 to 54 mm
- Maximum width (in one piece): 800 mm

OPTIONS

- Controllable version (type 463)
- Frame for 54 to 80 mm thickness on request

CROSS-SECTIONS



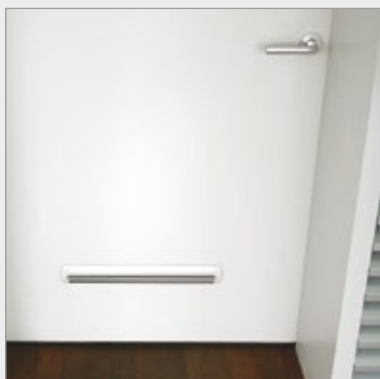
STANDARD DIMENSIONS

Dimensions Length x Height	satin anodised	RAL 9010	RAL 8019	Airflow at 2 Pa in m³/h	Airflow at 20 Pa in m³/h	Visual free area	Physical free area
200 x 100 mm	•			13,6	43,0	93 %	39 %
400 x 200 mm	•	•	•	72,4	228,9		
400 x 300 mm	•			117,6	371,9		
500 x 300 mm	•			147,0	464,9		
600 x 400 mm	•			244,2	772,2		
425 x 76 mm	•	•	•	19,2	60,7		

DOOR GRILLES

SILENDO®

Acoustic door grille for residential sector



INTRODUCTION

The RENSON SILENDO® acoustic door grille is suited to the interior doors of residential buildings (for example, toilet doors). The airway is arranged in the form of a chicane. The SILENDO® is fixed invisibly.

MATERIAL

- Made from aluminium sections: AIMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (dual colour possible) (for UK min 40 microns)
- Sound absorbing material: synthetic foam
- End caps: in Luran S ASA polymer (colourfast, weatherproof and UV-resistant)
- End caps: available in grey, black or white

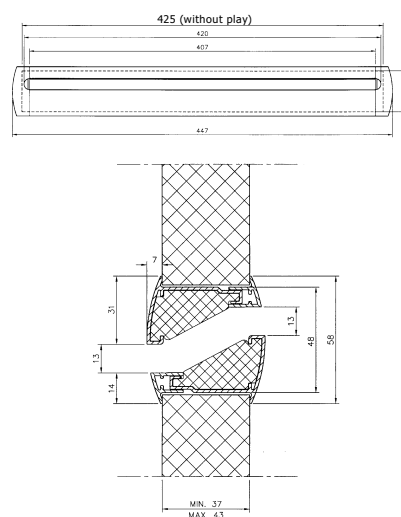
AVAILABLE MODELS

- The SILENDO® is available in a standard 425 x 48 mm size in the following standard colours: RAL 9010 (with matching white end caps), RAL 8019 (black end caps) and natural colour (grey end caps).
- Other lengths and colours available on request.

DIMENSIONS

- Length: 425 mm
- Height: 48 mm
- Door thickness: 37 to 43 mm

CROSS-SECTIONS



TECHNICAL SPECIFICATIONS

	SILENDO®
AIRFLOW	(EN 13141-1)
Q at 2 Pa	25,1 m³/h
COMFORT	(EN ISO 140-10, EN ISO 717-1)
Sound reduction in open position R_w ($C;C_{tr}$)	32 (0;-2) dB
TECHNICAL DATA	
Visual free area	27%
Physical free area	27%



INTRODUCTION

The RENSON 468 AK/2 acoustic door grille is mainly used in interior doors of hospitals, schools, sports facility changing rooms, etc. The airway is arranged in the form of a labyrinth and the 468 AK/2 cassette grille is affixed using the screws provided.

MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Sound absorbing material: synthetic foam

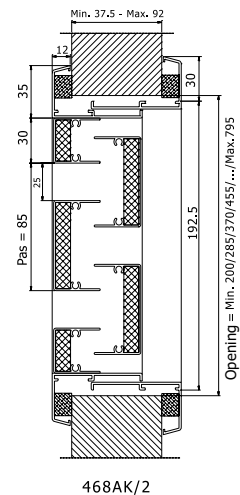
AVAILABLE MODELS

- The 468 AK/2 is available in RAL 9910 in the following standard sizes: 292 x 193 mm, 382 x 278 mm, 432 x 363 mm and 452 x 448 mm.
- Other sizes and colours available on request.

DIMENSIONS

- Minimum dimensions: 200 x 193 mm H
- Maximum dimensions: 788 x 788 mm H
- Fitting dimensions: 7 mm more than the grille dimensions.
- Height in 85 mm steps (blade pitch)
- Door thickness: from 37.5 to 92 mm

CROSS-SECTIONS



TECHNICAL SPECIFICATIONS		468 AK/2
AIRFLOW		(EN 13030)
		Q bij 2 Pa
	292 x 193 mm	25 m³/h
	382 x 278 mm	50 m³/h
	432 x 363 mm	75 m³/h
	452 x 448 mm	100 m³/h
COMFORT		(EN ISO 140-10, EN ISO717-1)
Sound reduction in open position R_w ($C; C_{tr}$)		8 (-1;-2) dB
TECHNICAL DATA		
Visual free area		29%
Physical free area		29%

FIRE-RESISTANT LOUVRES

465

Fire-resistant louvre with angled blades



MATERIAL

- Blades in intumescent materials
- Protection by grey-coloured synthetic sheath
- Outer frame in satin anodised aluminium (20 microns)
- Other shades on request.

PURPOSE

- At normal temperature, guarantees ventilation between two adjacent rooms.
- In case of fire, cuts off the airflow and fulfils a fire-break function.

APPLICATIONS

- Fire-resistant constructions
- Fire-resistant conduit
- Fire doors
- For indoor use only

FUNCTION

- At a temperature of 120°C, the blades swell to close the vent.
- Forms a static fire valve for 60 minutes.

DIMENSIONS

- Maximum dimensions: 600 x 300 mm
- Special dimensions on request

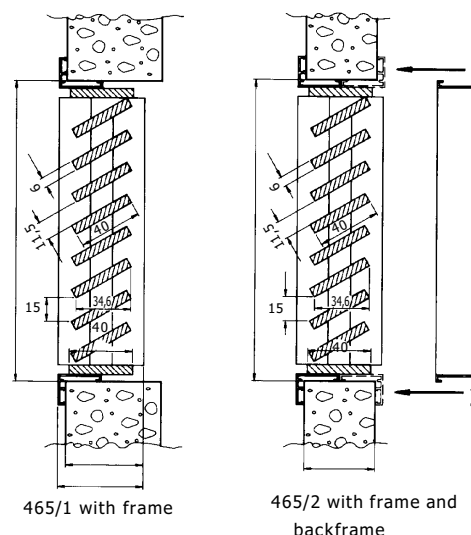
TECHNICAL SPECIFICATIONS

- Fire resistance: Rf 1 hour
- Tests and reports on request (Belgian BBRI test)
- Visual free area: 74%

FIXING

- Secure the louvre in the opening
- Fill the gap between the louvre and the door/wall with fire-resistant mortar.

CROSS-SECTIONS



STANDARD MODELS

Dimensions Length x Height (L) x (H)	465/1 (with frame)	465/2 (with frame and backframe)
200 x 200 mm	•	
300 x 300 mm	•	
400 x 200 mm	•	•
500 x 200 mm	•	



MATERIAL

- Blades in intumescent materials
- Protection by grey-coloured synthetic sheath
- Outer frame in satin anodised aluminium (20 microns)
- Other shades on request

PURPOSE

- At normal temperature, guarantees ventilation between two adjacent rooms.
- In case of fire, cuts off the airflow and fulfils a fire-break function.

APPLICATIONS

- Fire-resistant constructions
- Fire-resistant conduit
- Fire doors
- For indoor use only

FUNCTION

- At a temperature of 120°C, the blades swell to close the vent.
- Forms a static fire valve for 60 minutes.

DIMENSIONS

- Maximum dimensions: 600 x 400 mm
- Dimensions on request

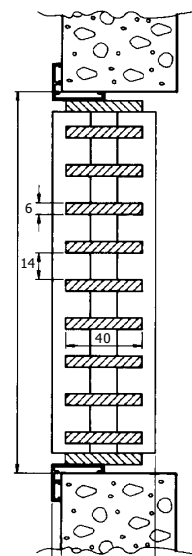
TECHNICAL SPECIFICATIONS

- Fire resistance: Rf 1 hour
- Tests and reports on request (Belgian BBRI test)
- Visual free area: 70%

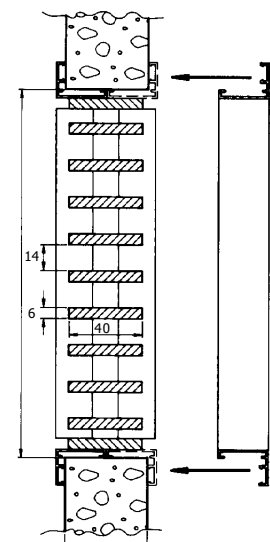
FIXING

- Secure the louvre in the opening
- Fill the gap between the louvre and the door/wall with fire-resistant mortar.

CROSS-SECTIONS



466/1 with frame



466/2 with frame and backframe

EXTRACTION LOUVRES

XD

Stylish extraction louvre



INTRODUCTION

The XD louvre is characterised by its elegant design. The curved cover plate, attached invisibly to a sliding part, conceals the airway duct. The XD is suited to wall or ceiling assembly.

MATERIAL

- Cover plate: aluminium AlMgSi 0.5 (according to EN 12020-2)
- Finishing: powder coating in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Base and sliding part: POM (polyoxymethylene)

AVAILABLE MODELS

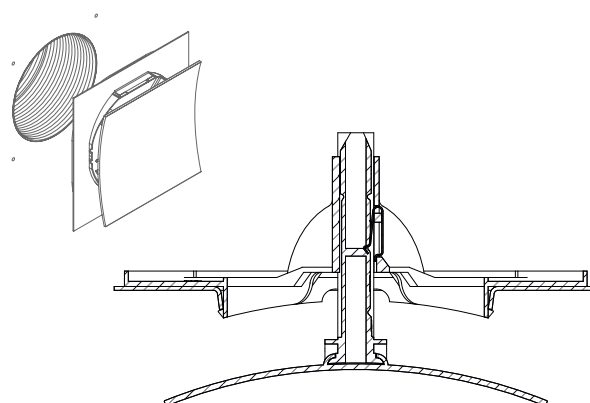
Three models are available:

- XD1 for mechanical extraction
- XD2 and XD3 for natural extraction, available in RAL 9006 or 9010 matt (standard colours).

DIMENSIONS

- XD1: 152 x 152 mm
- XD2: 188 x 188 mm
- XD3: 233 x 233 mm
- Depth (in closed position): 79 mm

CROSS-SECTIONS



TECHNICAL SPECIFICATIONS

	XD1	XD2	XD3
AIRFLOW	(EN 13141-1)		
	0 to 75 m³/h	<u>Position I:</u> 39.2 m³/h at 2 Pa <u>Position II:</u> 50.4 m³/h at 2 Pa	<u>Position I:</u> 63.0 m³/h at 2 Pa <u>Position II:</u> 87.1 m³/h at 2 Pa
DUCT DIAMETER			
	80 mm	100 mm, 140 mm	140 mm, 170 mm



TYPES

- 440/11: with blade n° 8 of louvre 411
- 440/21: with blade n° 17 of louvre 421

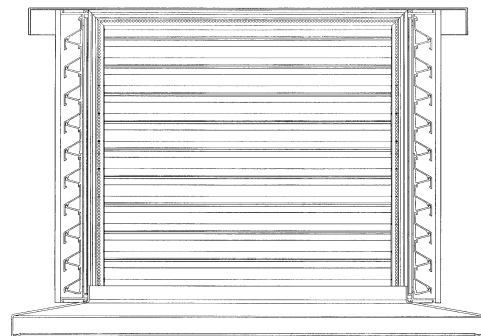
MATERIAL

- Made from aluminium sections: AlMgSi 0.5 (according to EN 12020-2)
- Finishing: anodised in satin colour (20 microns) or powder-coated in any RAL or Syntha Pulvin® colour (60-80 microns) (for UK min 40 microns)
- Cover plate
 - In aluminium sheet
 - Acoustic version optional

DIMENSIONS

- Maximum dimensions in one piece up to 900 mm wide, 1900 mm long by 1000 mm high
- Larger sizes possible on request

CROSS-SECTIONS

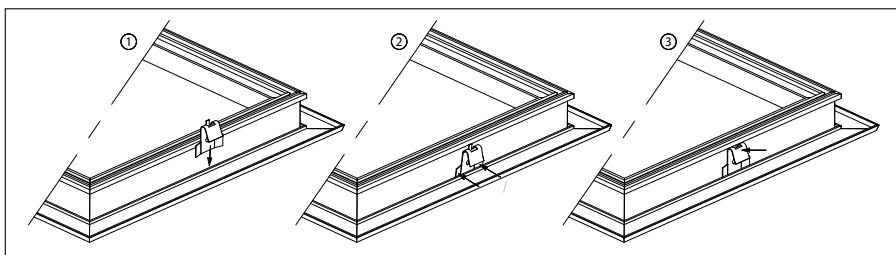
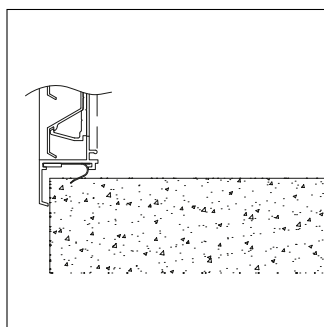
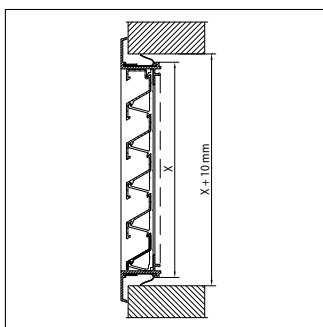


EPILOGUE

ASSEMBLY OF WALL LOUVRES



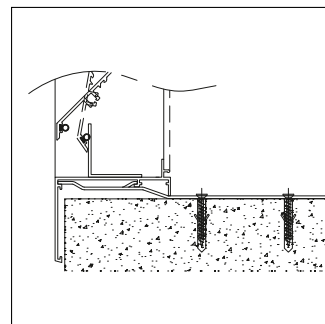
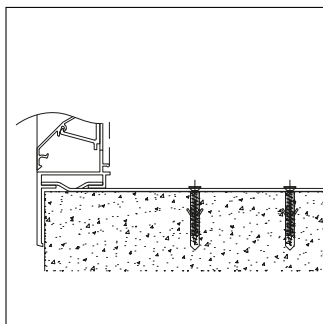
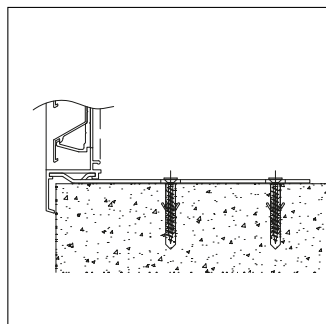
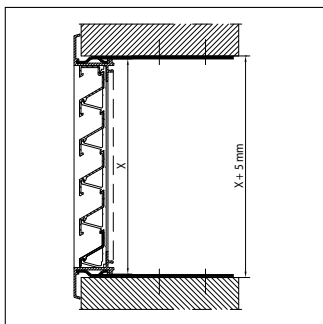
- **SPRING CLIPS: N° 419**
LOUVRES: 411, 412, 491



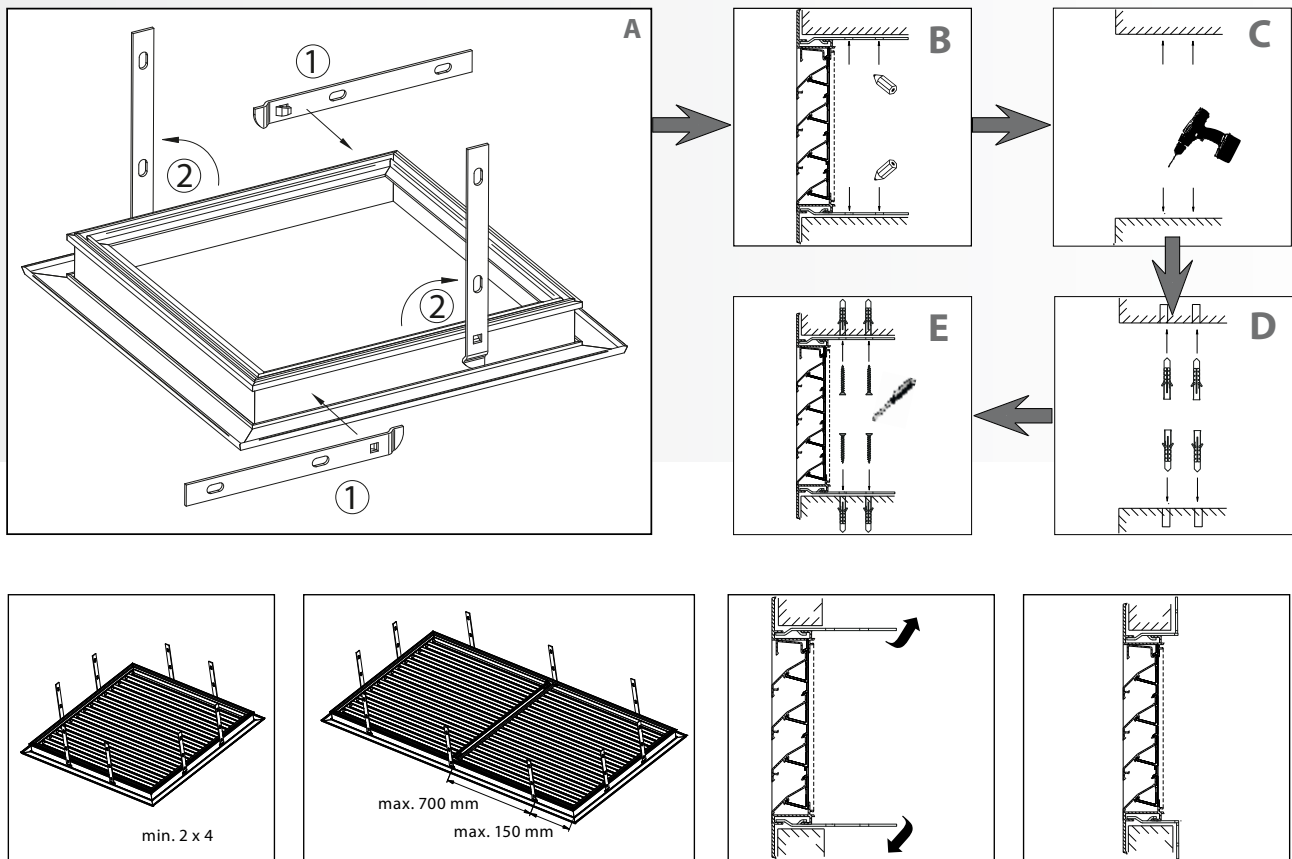
- **BRACKETS: N° 418**
LOUVRES: 411, 412, 491

- **BRACKETS: N° 1428**
LOUVRES: 421, 422, 481

- **BRACKETS: N° 429**
LOUVRES: 425, 426, 427, 480, 451, 452, 453



ASSEMBLY OF WALL LOUVRES



SELF-ASSEMBLY LOUVRES



- These louvres can be easily self-assembled to meet your own specifications. They require a minimum of sections and accessories.
- Units are assembled from extruded aluminium sections.
- They are available in satin anodised, white powder-coated and untreated finishes.
- A groove is provided in the frame for the insertion of an insect screen.

STANDARD SERIES

HEAVY-DUTY SERIES

EXTRA-HEAVY-DUTY SERIES

N° 411 - N° 414 - N° 412 - N° 415 - N° 431

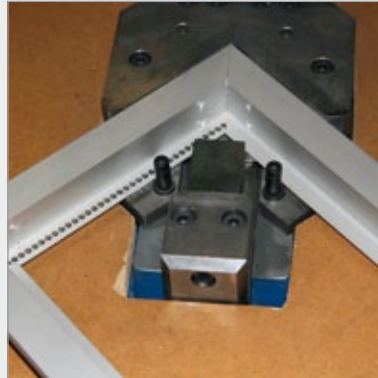
N° 421 - N° 422 - N° 424 - N° 428

N° 425 - N° 451

EPILOGUE

SELF-ASSEMBLY LOUVRES

ASSEMBLY INSTRUCTIONS



1. Cutting to size

Horizontal and vertical frame sections should be mitred at 45°:

- horizontal frame sections are not perforated
- vertical sections are perforated to attach the blade supports

2. Fitting the frame sections

The frame sections are joined together with corner pieces. Tap with a nylon hammer to ensure proper insertion.

Clamp the frame sections with the punching machine.

3. Fitting the blade supports

Rivet the blade supports to the perforated vertical sections.

4. Fitting the blades

Determine the length of the blades in a way that they fit exactly inside the frame. The blades are cut to the required length and fixed to the blade supports (clipping system). Fitting should start at the top and work down.

5. Strengthening the louvers and blades

It is recommended to reinforce all louvres at least 700 mm wide (including models 421 and 425) with section 23 and T-pieces 14.

6. Powder-coating the louvres

The louvres are powder-coated after assembly. In the event of separate powder-coating, the blade supports remain in natural aluminium.

7. Insect screen or bird mesh

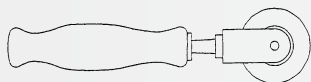
The stainless steel insect screen is fitted into a groove on the back of the frame by means of a PVC bead.

Free optimising disk available on request.

SELF-ASSEMBLY LOUVRES

ASSEMBLY ACCESSORIES (FURTHER INFO AVAILABLE ON REQUEST)

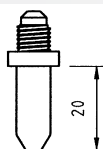
- A2400/1 hand roller for 2.3 x 2.3 mm insect screen
- A2400/2 hand roller for 6 x 6 mm mesh



- Punching machine, for corner cleats 11B or 28B



- A2400/3 elongated rivet head



ASSEMBLY COMPONENTS

Drawing	Ref.	Description	Purchasing Conditions
	23	Perforated strengthening profile with groove for insect screen	Five 3 m lengths
	14	T-piece for the strengthening profile	Per piece
	418/1	Stainless steel insect screen, 2.3 x 2.3 mm	Per 10 m x 1.2 m roll
	418/2	Stainless steel insect screen, 2.3 x 2.3 mm	Per 25 m x 1.2 m roll
	419/1	Stainless steel mesh, 6 x 6 mm	Per 10 m x 1.2 m roll
	419/2	Stainless steel mesh, 6 x 6 mm	Per 25 m x 1.2 m roll
		Insect screen gasket (black) Special oven-resistant insect screen gasket (white)	Per 600 m roll Per 500 m roll
	418	Brackets for louvres 411, 412 and 491	4 pieces
	419	Spring clips for louvres 411, 412, 491	50 pieces
	1428	Brackets for louvres 421, 422, 481	4 pieces
	429	Brackets for louvres 425, 426, 427, 480, 451, 453	4 pieces

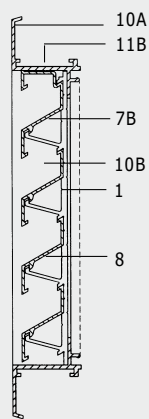
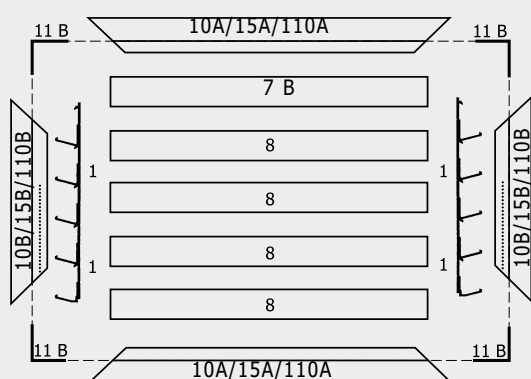
EPILOGUE

SELF-ASSEMBLY LOUVRES

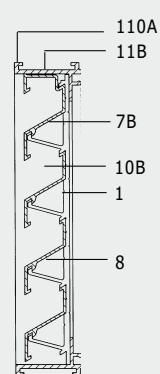
STANDARD SERIES: NR. 411 - NR. 412 - NR. 414 - NR. 415 - NR. 431

N° 411 / N°414

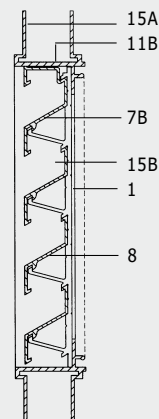
(411: 29 blades per metre height)
(414: 28 blades per metre height)



411



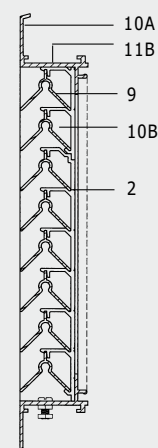
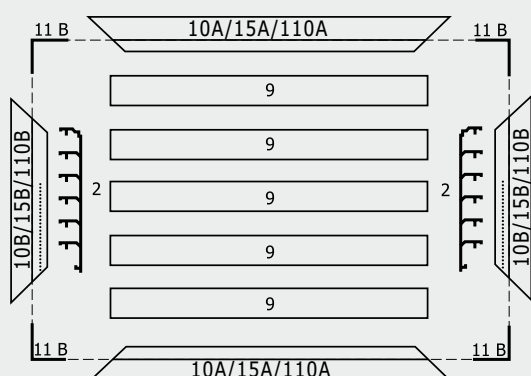
411



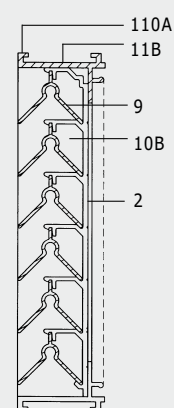
414

N° 412 / N°415

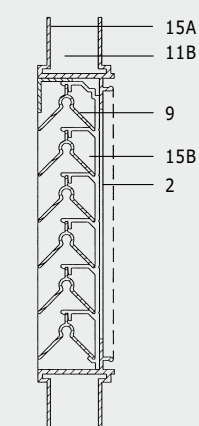
(412: 49 blades per metre height)
(415: 47 blades per metre height)



412



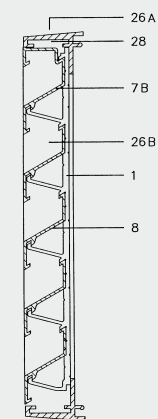
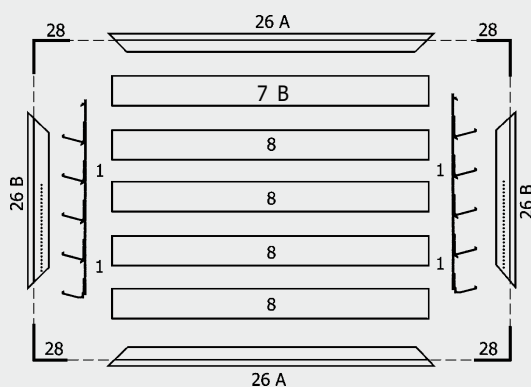
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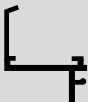
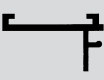
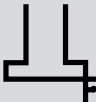
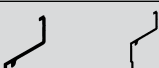
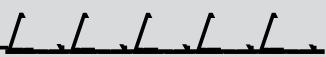
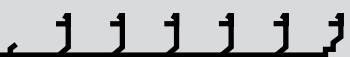
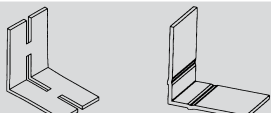
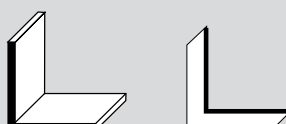
415

N° 431

(431: 29 blades per metre height)



431

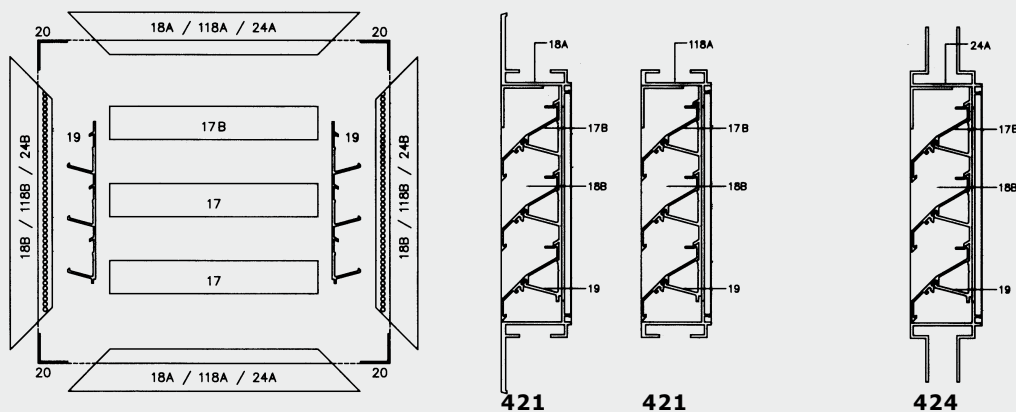
Drawing	Ref.	Part Name and Material	Purchasing Conditions
	10A 10B	Horizontal frame profile, non-perforated Vertical frame profile, perforated	Five 6 m/3 m lengths Five 6 m/3 m lengths
	110A 110B	Horizontal frame profile flangeless, non-perforated Vertical frame profile flangeless, perforated	Five 6 m/3 m lengths Five 6 m/3 m lengths
	15A 15B	Horizontal frame profile, 24 mm, non-perforated Vertical frame profile, 24 mm, perforated	Five 6 m/3 m lengths Five 6 m/3 m lengths
	12	Coupling profile (mullion – transom joint) for 110 A and 110 B	Five 6 m lengths
	26A 26B	Horizontal frame profile, non-perforated Vertical frame profile, perforated	Five 6 m/3 m lengths Five 6 m/3 m lengths
	7B	Top Z-blade profile	Ten 6 m/3 m lengths
	8	Standard Z-blade profile	Ten 6 m/3 m lengths
	8S 8L	Short Z-blade profile Elongated Z-blade profile	Ten 6 m/3 m lengths Ten 6 m/3 m lengths
	1	Support for five or three Z-blades n° 7B/8/8S/8L/18V	100 pieces
	9	Chevron-section blade	Ten 6 m/3 m lengths
	2	Support for six chevron-section blades n° 9	50 pieces
	11B 28B	Corner cleat for frame 10, 15 and 110 Corner cleat for frame 26	100 pieces 100 pieces
	11P 28P	Corner cleat for frame 10, 15 and 110 Corner cleat for frame 26	100 pieces 100 pieces
	462	Backframe profile	Five 6 m/3 m pieces
	462/1 462/2	Flat backframe corner cleat Backframe corner cleat for manual assembly	100 pieces 100 pieces

EPILOGUE

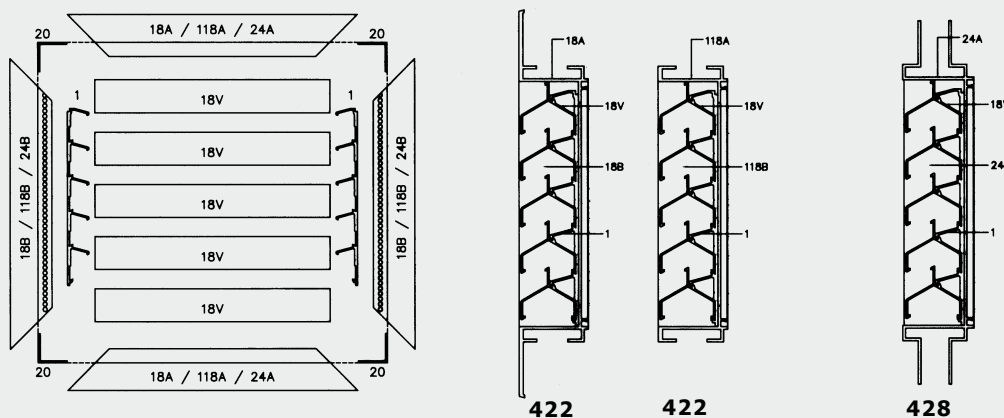
SELF-ASSEMBLY LOUVRES

HEAVY-DUTY SERIES: NR. 421 - NR. 422 - NR. 424 - NR. 428 / NR. 425 - NR. 451

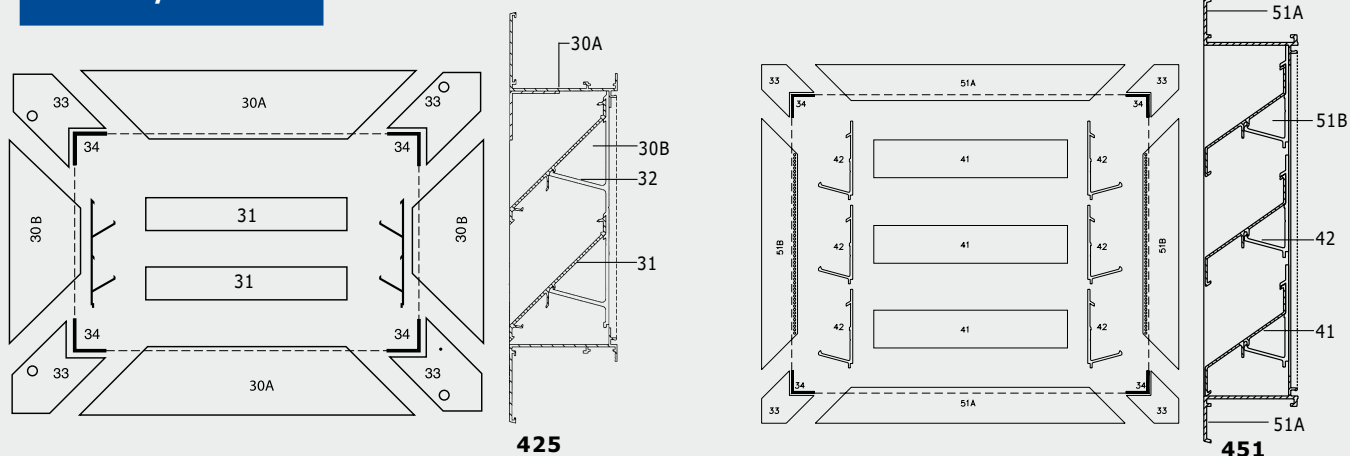
N° 421 / N°424 (19 blades per metre height)



N° 422 / N°428 (30 blades per metre height)



N° 425/N°451 (10 blades per metre height)

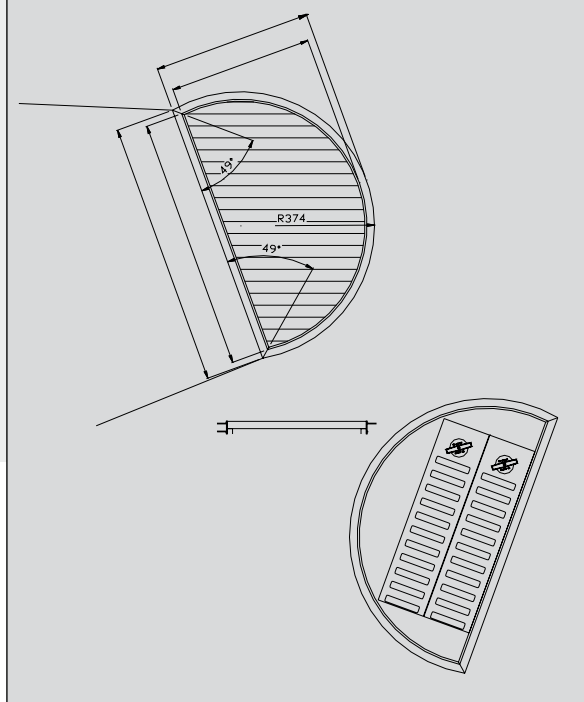


Drawing	Ref.	Part Name and Material	Purchasing Conditions
	18A	Horizontal frame profile, non-perforated	Five 6 m lengths
	18B	Vertical frame profile, perforated	Five 6 m lengths
	24A	Horizontal frame profile, 24 mm, non-perforated	Five 6 m lengths
	24B	Vertical frame profile, 24 mm, perforated	Five 6 m lengths
	118A	Horizontal frame profile, flangeless, non-perforated	Five 6 m lengths
	118B	Vertical frame profile, flangeless, perforated	Five 6 m lengths
	16	Coupling profile (mullion – transom joint) for 118A and 118B	Five 6 m lengths
	17B	Top blade profile	Ten 6 m lengths
	17	Blade profile, heavy-duty series	Ten 6 m lengths
	17S	Short blade profile	Ten 6 m lengths
	17L	Elongated blade profile	
	19	Support for three Z-blades n° 17B/17S/17L	50 pieces
	1	Support for five or three Z-blades n° 7B/8/8S/8L/18V	100 pieces
	18V	Reinforced V-blade	Ten 6 m lengths
	20	Corner cleat for frame 18, 118 and 245	20 pieces
	21	Screwless corner cleat for frame 18, 118 and 245	20 pieces
	30A	Horizontal frame profile, non-perforated	Five 6 m lengths
	30B	Vertical frame profile, perforated	Five 6 m lengths
	31	Blade profile, extra-heavy-duty series	Ten 6 m lengths
	32	Support for n° 31 blades	100 pieces
	51A	Horizontal frame profile, non-perforated	Ten 6 m lengths
	51B	Vertical frame profile, perforated	Ten 6 m lengths
	41	Special heavy-duty blade type 451	100 pieces
	42	Support for blade n° 41	50 pieces
	34	Corner cleat for frame 30	100 pieces
	33	Flat corner cleat	100 pieces

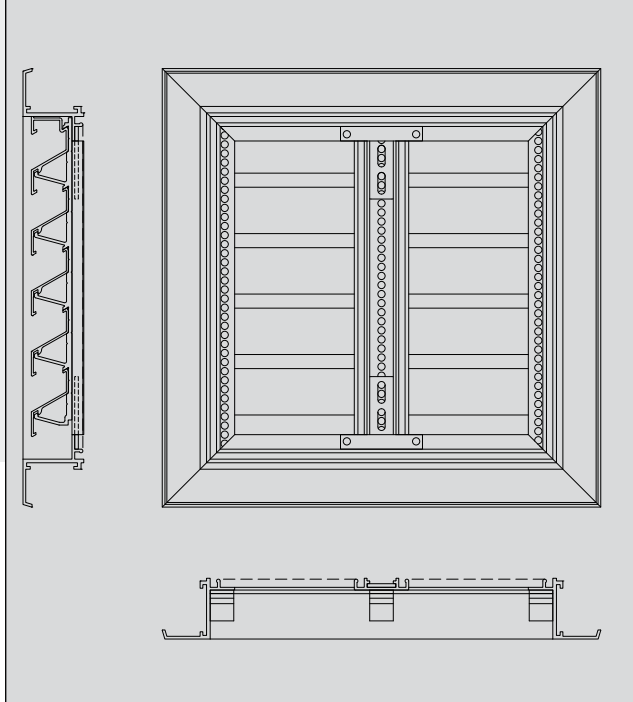
EPILOGUE

VARIANTS

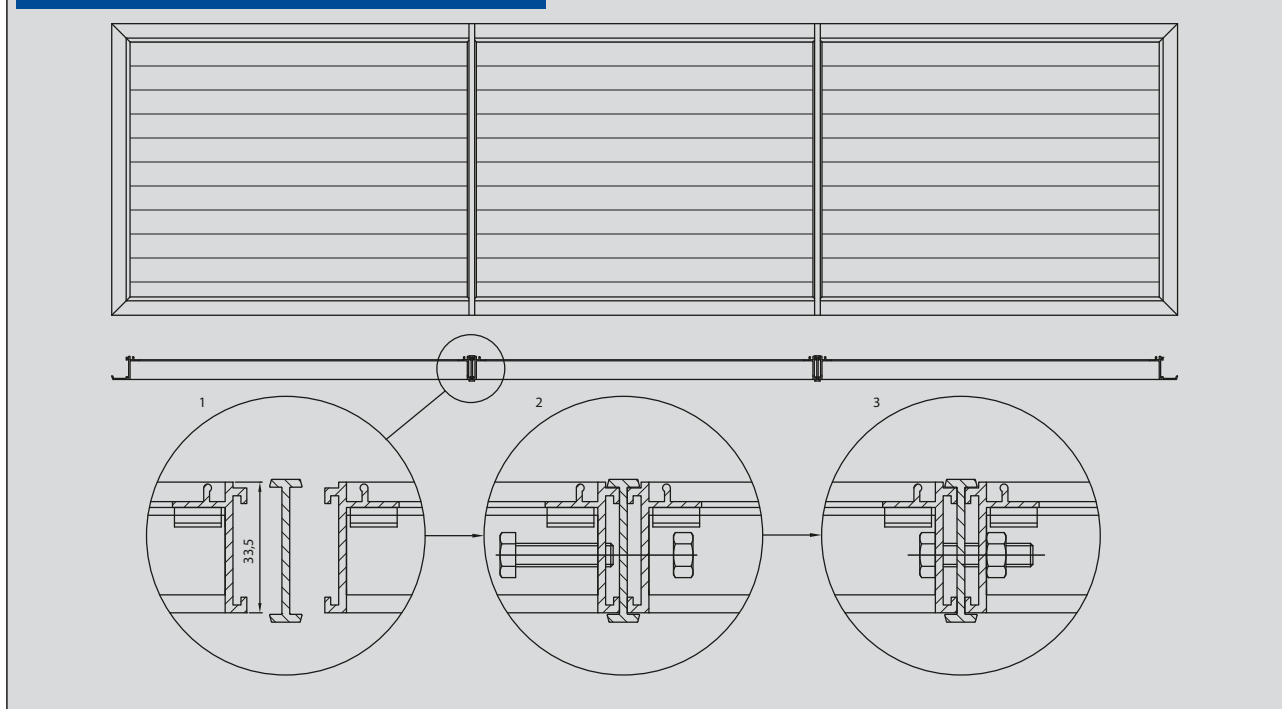
Louvre N° 411:
SPECIAL SHAPE, CONTROLLABLE



LOUVRE WITH
STRENGTHENING SUPPORT

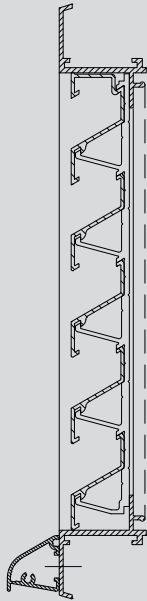


COUPLED LOUVRES



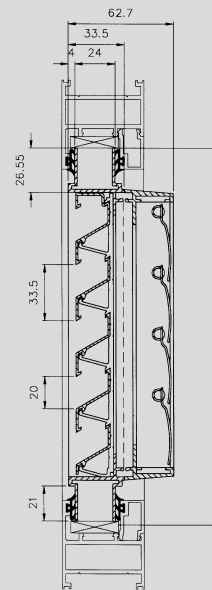
DRAINAGE PROFILE (SPOUT)

- This profile is designed for all types of aluminium built-in rectangular wall louvres



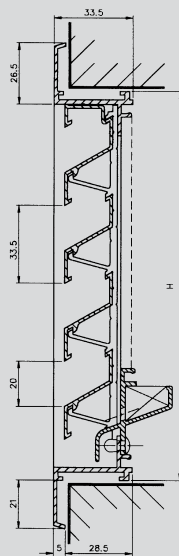
PRESSURE-RELIEF GRILLE

- Combination of a pressure-relief louvre type 433 and a louvre type 414



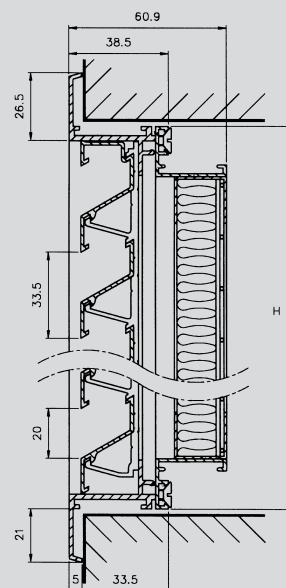
WATER CHANNEL

- This profile is designed for all types of louvre
- It collects any water infiltration and channels it outside.



LOUVRE WITH DUST FILTER

- This profile is designed for all types of louvre
- Equipped with a dust filter



REFERENCES



1



2



5



3



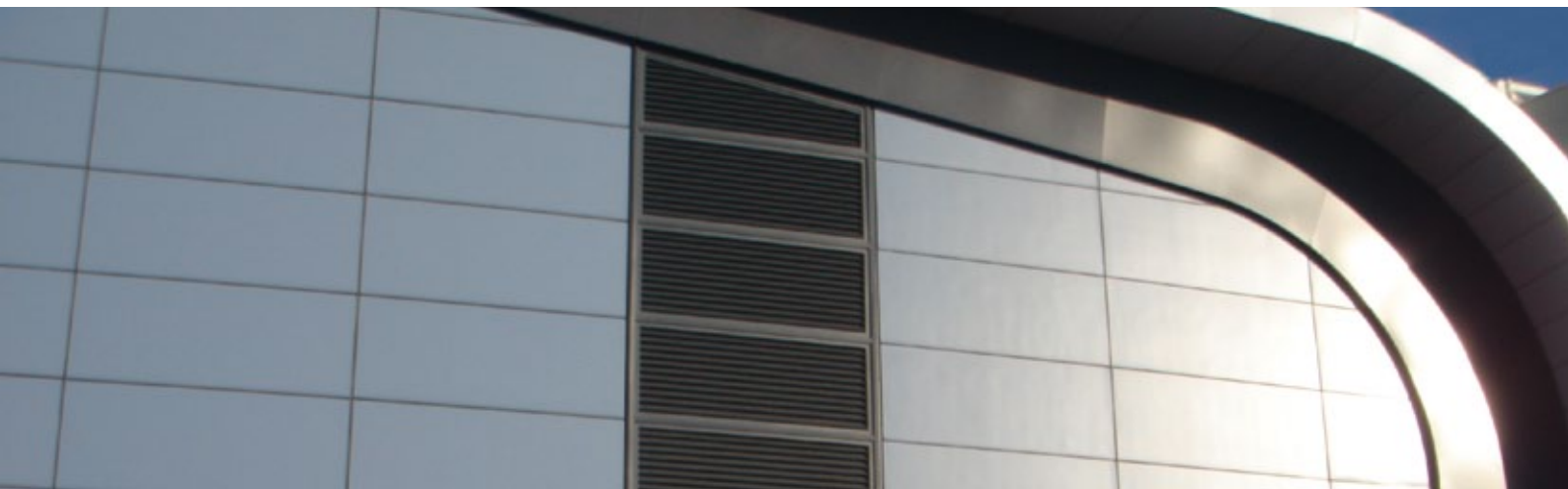
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6

1. Arch. Hadfield, Cawkwell, Davidson, Riverside Exchange, Sheffield / 2. Duvedec, "Phileas" Bus / 3. Arch. OMA, Central Library, Seattle / 4. Private home / 5. Arch. Darling Associates, Fetter Lane, London / 6. Arch. Stephen George & Partners, Jobcentre, Seaham

REFERENCES



1



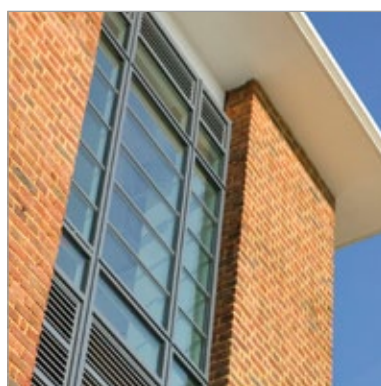
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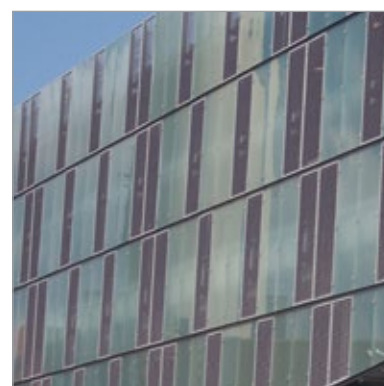
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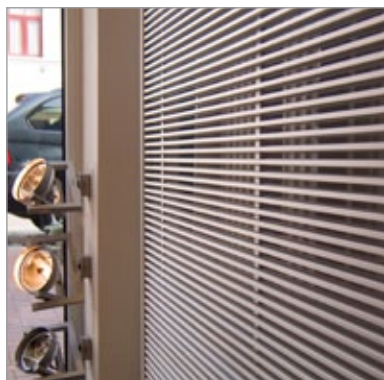
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1. Arch. Redbox, Pool, Sunderland / 2. Arch. Cnockaert, social housing, Courtrai / 3. Arch. Dewjoc Architects, Usworth College, Washington / 4. Arch. Vanacker (Moorslede), Private home, Noorschote / 5. Arch. Allies & Morrison, Heritage Building, Farnborough / 6. Arch. KJS, Arcaden, Erlangen

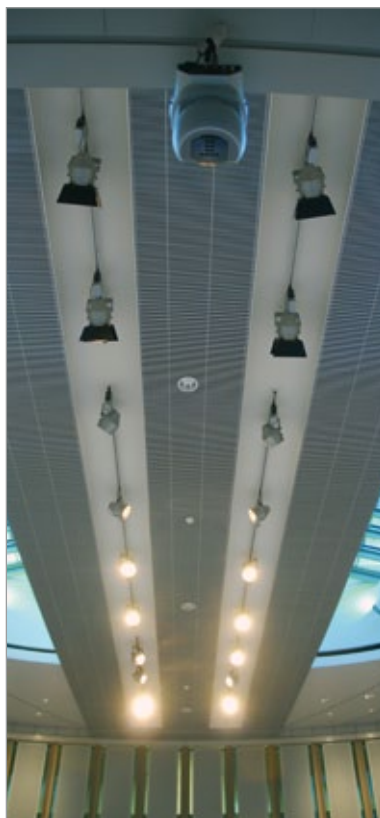
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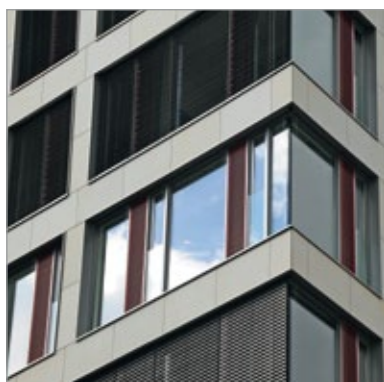
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1. Arch. Redbox, Pool, Sunderland / 2. Lingeriешop, Roeselare / 3. Arch. KJS Architekten and MFI GmbH, Erlangen Arcaden, Erlangen / 4. Arch. Jo Crepain, Headquarters RENSON, Waregem / 5. Arch. Patrick Berger & Jacques Anziutti Architectes, Hôtel Rennes Métropole, Rennes / 6. Arch. Gilles Chrétien, Serre Amazonienne du Parc Zoologique de Lunaret, Montpellier

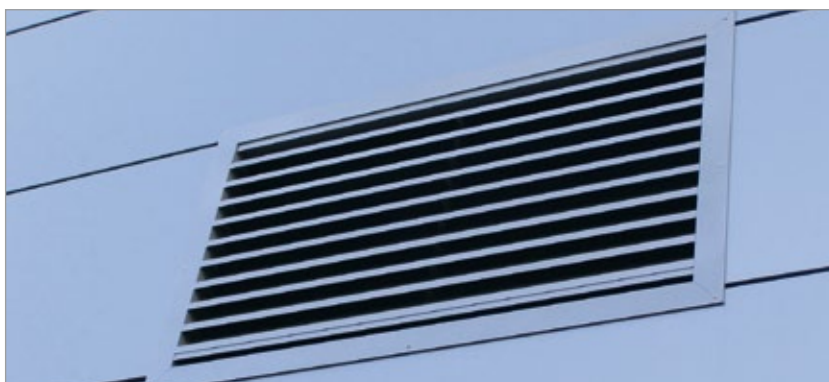
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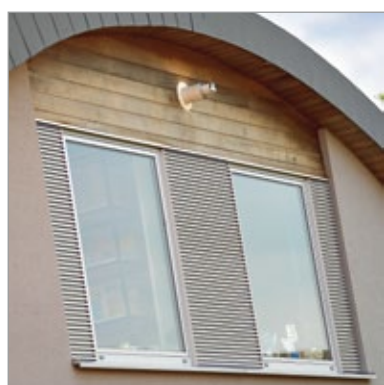
1



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5

1. Arch. Buro II, Residence Roosevelt, Waregem / 2. Arch. GRS and Hochtief GmbH, Consense 7, Hamburg / 3. Arch. György Fazakas and Jean-Paul Viguié, ING Vörösmarty tér. 1, Budapest / 4. Arch. Stefaan Felliers, private home Torhout / 5. Arch. Van Oost, Hospital Mouscron, Mouscron

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