



- Allied to Renson's Healthy Building Concept
- Solutions for all your ventilation requirements
- Optimal internal environment

louvre panels and grilles

Why choose RENSON Louvres ?

- RENSON does not only create products but also offers a concept.
- RENSON innovates. Therefore RENSON sets the standard.
- RENSON has a comprehensive range of louvres.
- RENSON applies a 60 to 70 microns powder-coated finish.
- RENSON anodises with a minimum RAL coating of 20 microns.
- RENSON gives advice, technical support and training seminars.
- RENSON has been building relationships since 1919.



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6 GOOD REASONS TO BECOME A RENSON 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 knowledge and experience thanks to the efforts of our local specialists. They are present in every region of the world. Renson has contributed to projects all around the world from Moscow to Tahiti and from Monaco to Shanghai.
3. Complete service from start until finish, adequate support and advice at design stage, at site-meetings and at installation.
4. The production process is fully vertically integrated, which enables manufacturing to strict standards. The investment in injection-moulding machinery, anodising facilities and a fully automatic powder-coating installation ensures efficiency and accuracy. The assembly method of components and profiles requires us to meet tight 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.

WORLDWIDE REFERENCE LIST (CLS)

BELGIUM

Highschool GroepT - Leuven
Airport - Zaventem
Smithkline Beecham Plant - Brussels

FRANCE

Futuroscope - Poitiers
Euralille - Lille
ParisExpo - Paris
UVE - Rouen

GERMANY

Airport - Frankfurt
Messehalle - Frankfurt
Audi - Neckarsulm
The Government of District - Erfurt
Technology Center - Gelsenkirchen

ISRAEL

Telephone CY - Naharia

HUNGARY

NBC-Building - Budapest

ITALY

World Trade Center - Lugano
University - Bologna

POLAND

Riviera - Warsaw
Reform Plaza - Warsaw
Metro - Warsaw

THE NETHERLANDS

Haagse Poort - Den Haag
Showbizcity - Aalsmeer
BAM Krasnapolsky - Amsterdam
KPN Callcenter - Amersfoort
Sony Music - Delft
Shopping center Alexandrium - Amsterdam

TURKEY

Pamuk Bank - Istanbul

UNITED KINGDOM

Royal Opera House - London
Carlton Gardens - London
Breahead Park - Glasgow
King Edwards Wharf - Birmingham
B.A.C.S. Facility - Loughton
Bank of England - Cambridge

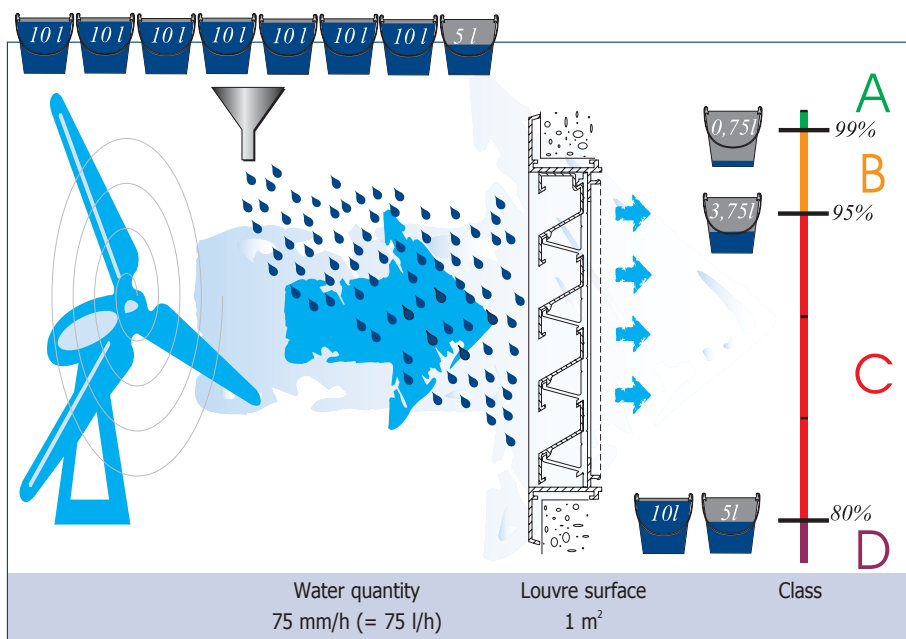


 **RENSON**
INNOVATION IN VENTILATION

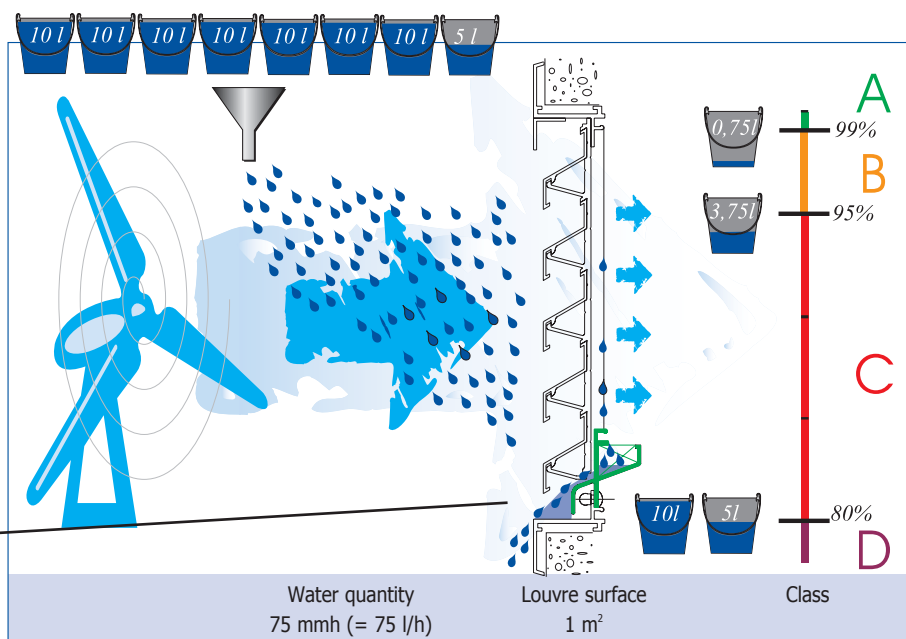
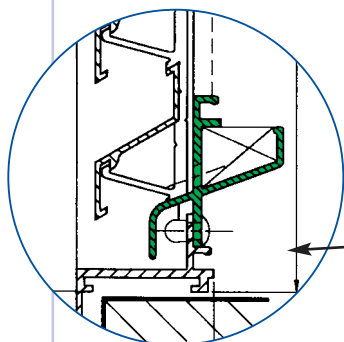


The new European Standard CEN/TC 156, specifies the water tightness of louvres for natural and mechanical ventilation. Therefore all Renson-louvres were subject to HEVAC-tests, performed in the United Kingdom by BSRIA, an international approved organisation.

The louvre of 1m² fitted with stainless steel insect mesh is subject to simulated heavy rain, or 75 litres of water/hour at a speed of 13 m/s. Depending on the results (this is the degree of waterinfiltration), a HEVAC-classification is made up.



Test of a 411 louvre without a water channel



Test of a 411 louvre with a water channel

	class	% of watertightness
extra high	A	100 - 99
high	B	98,9 - 95
medium	C	94,9 - 80
low	D	< 80

With mesh 2,3 x 2,3 mm

Louvres type	Air velocity through (m/s)	Standard louvre		Equipped 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		C
	2,0			88,5	C
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		C
	2,0			89,0	C
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		C
	2,0	70,7	D	89,5	C
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

7

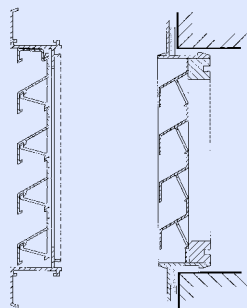
With mesh 6 x 6 mm

Louvres type	Air velocity through (m/s)	Standard louvre		Equipped 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				C
	2,0			85,7	C
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				C
	2,0			83,5	C
425	0,0	< 80	D	91,3	C
	0,5			88,3	C
	1,0			85,1	C
	1,5				C
	2,0			79,4	D

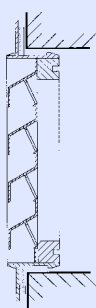
PRODUCT RANGE

All section drawings can be downloaded from our Internet Website : www.renson.be

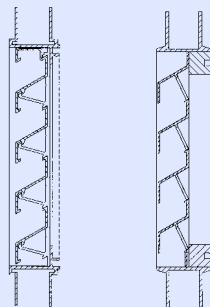
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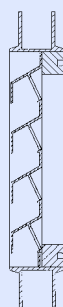
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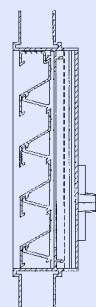
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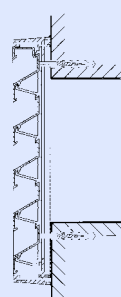
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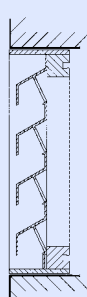
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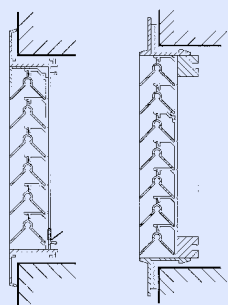
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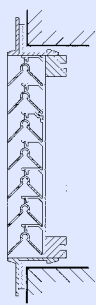
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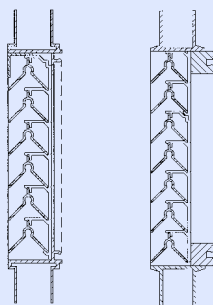
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N° 412 R
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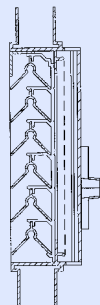
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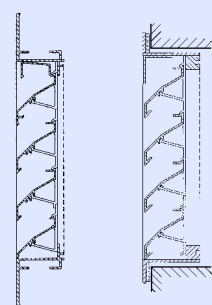
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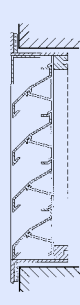
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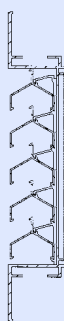
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N° 421 R
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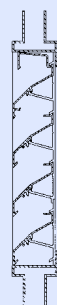
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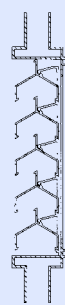
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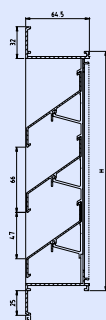
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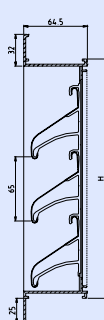
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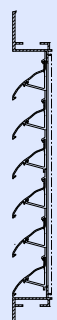
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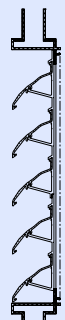
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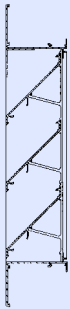


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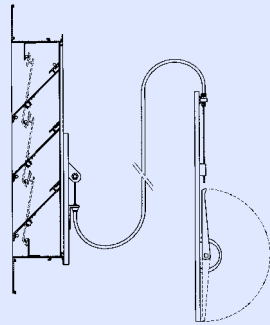


PRODUCT RANGE

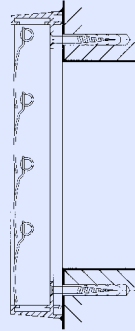
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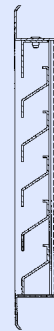
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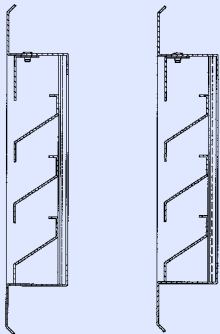
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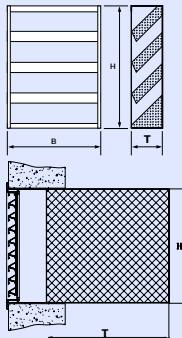
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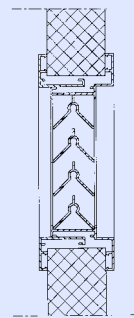
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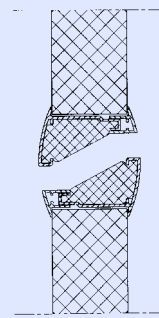
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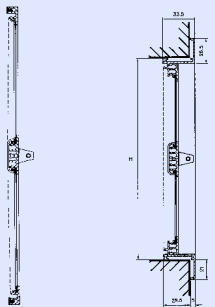
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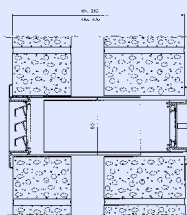
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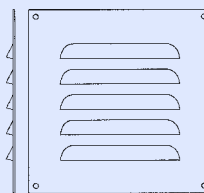
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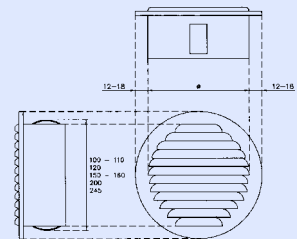
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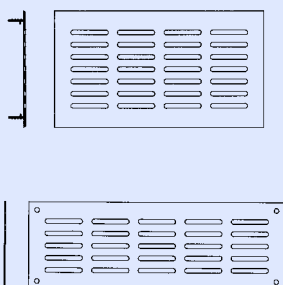
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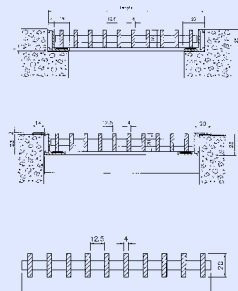
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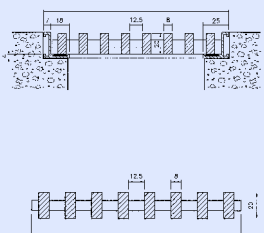
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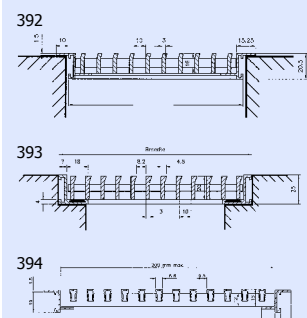
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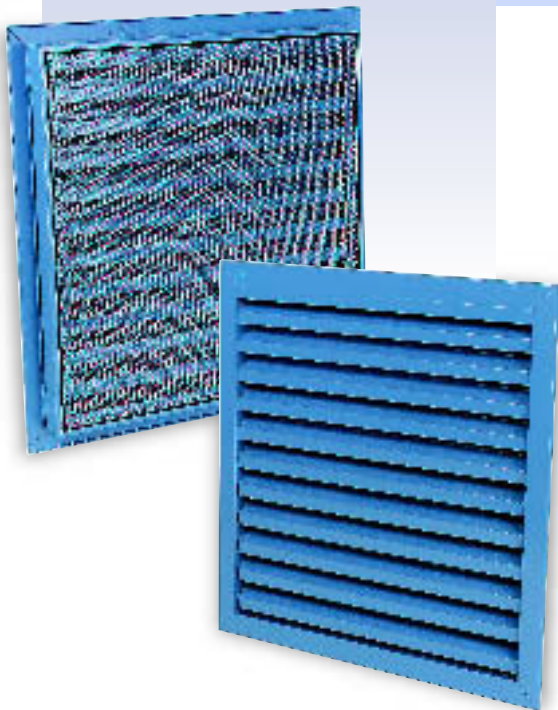


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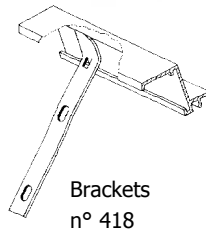
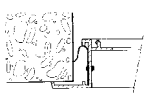


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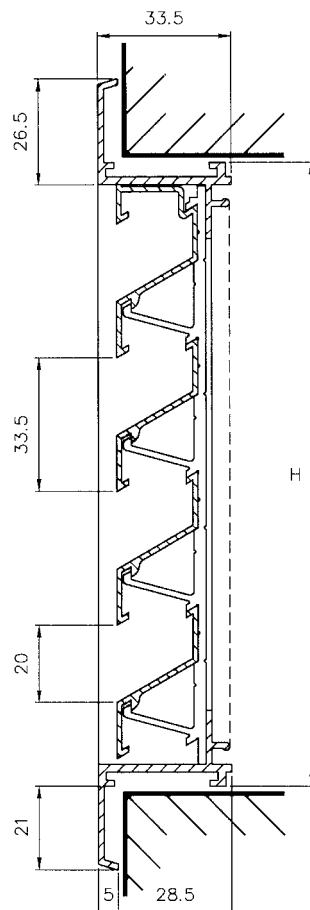




Spring clips
n° 419



Brackets
n° 418



Product description

- Units are assembled from extruded sections of aluminium AlMgSi 0,5
- Finishes : - satin or bronze anodised
- any colour from the RAL-range can be supplied (RAL 60 - 70 microns)
- An insect screen in stainless steel 304 18/8 is fitted as standard (square screening 2.3 x 2.3 mm)
6 x 6 mm on request
- Depth to fit : 28.5 mm
- Flange size : 21 mm
- Minimum dimensions 80x80 mm H
- Visual free area : 59 %

Options

- Water channel (see page 4 - 5)
- Drainage profile
- Controllable 411/VA (see 414/VA) with hit and miss ventilators

Fixing

- Four fixing spring clips (419) are supplied on request
- Brackets (418) are supplied on request for non-standard louvres
- Louvres larger than 2 x 2 m need a backstructure

Standard sizes

Width x Height (W) (H)	SAA	Bronze	RAL 9910	RAL 8019
200 x 200 mm	•	•	•	•
300 x 200 mm	•	•	•	
300 x 300 mm	•	•	•	
400 x 200 mm	•	•	•	
400 x 300 mm	•	•	•	
400 x 400 mm	•	•	•	
500 x 300 mm	•	•	•	
500 x 400 mm	•	•	•	
500 x 500 mm	•	•	•	
600 x 300 mm	•	•	•	
600 x 400 mm	•	•	•	
600 x 600 mm	•			
700 x 700 mm	•			
1000 x 500 mm	•			
1000 x 1000 mm	•			
300 x 112 mm	•			
350 x 142 mm	•			
400 x 162 mm	•			
112 x 112 mm	•			
142 x 142 mm	•	•	•	
162 x 162 mm	•	•	•	

Other sizes are manufactured to your specific requirements

ROUND WALL LOUVRE

WITH FRAME, ALUMINIUM

N° 411 R

Product description

- Units are assembled from extruded sections of aluminium AlMgSi 0,5
- Frame assembled by 1 welding point
- Finishes : - satin or bronze anodised
- any colour from the RAL-range can be supplied (60 - 70 microns)
- An insect screen in stainless steel 304 18/8 is fitted as standard (square screening 2.3 x 2.3 mm)
6 x 6 mm on request
- Minimum diameter 300 mm
- Depth to fit : 42 mm
- Flange size : 21 mm
- Visual free area : 58 %
- Maximum diameter :
1400 mm if anodised
1500 mm if powdercoated
larger versions : 2 parts



Options

- Controllable 411 R/VA (see 414/VA) with hit and miss ventilators

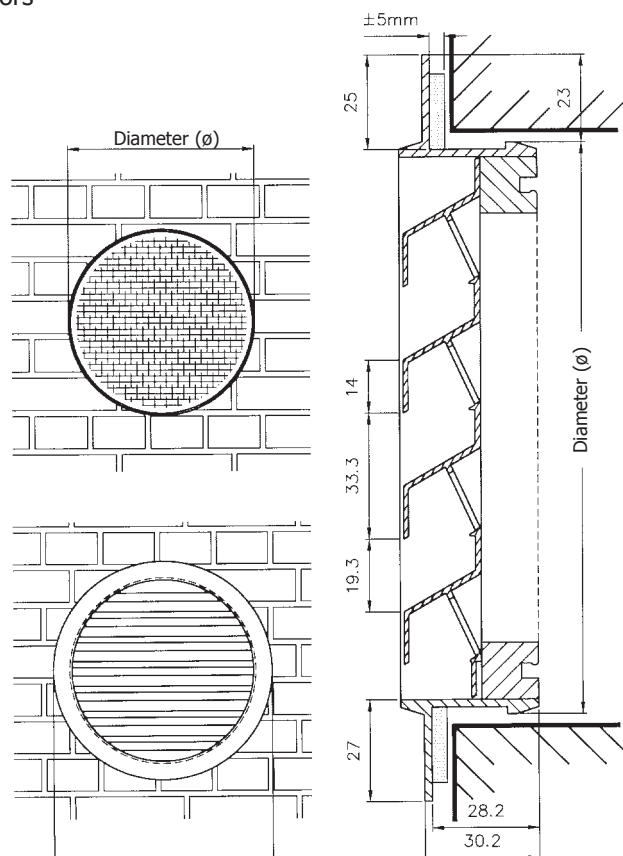
Fixing

- Brackets prefixed onto the frame

Standard sizes

	SAA	RAL 9910	RAL 9006
ø 300	•	•	•

Other sizes are manufactured to your specific requirements





- All louvres are manufactured to your specific requirements

Product description

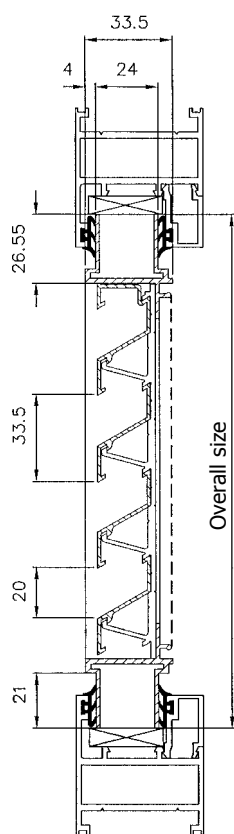
- Units are assembled from extruded sections of aluminium AlMgSi 0,5
- Finishes : - satin or bronze anodised
- any colour from the RAL-range can be supplied (RAL 60 - 70 microns)
- An insect screen in stainless steel 304 18/8 is fitted as standard (square screening 2.3 x 2.3 mm)
6 x 6 mm on request
- 24 mm equal leg outerframe
- Minimum dimensions 130 x 130 mm H
- Overall size width x height is required, when ordering a louvre N° 414
- Visual free area : 59 %

Options

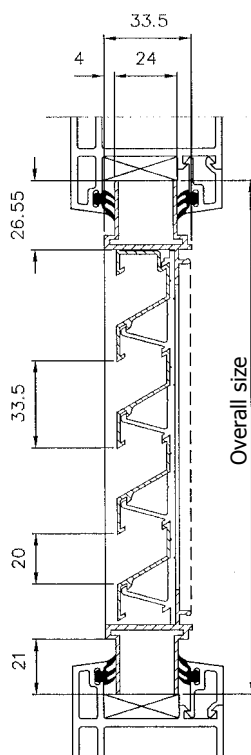
- Water channel (see page 4 - 5)
- 414/VA controllable with hit and miss ventilators of 100, 130 and 150 mm, see page 14
- Drainage profile

Fixing

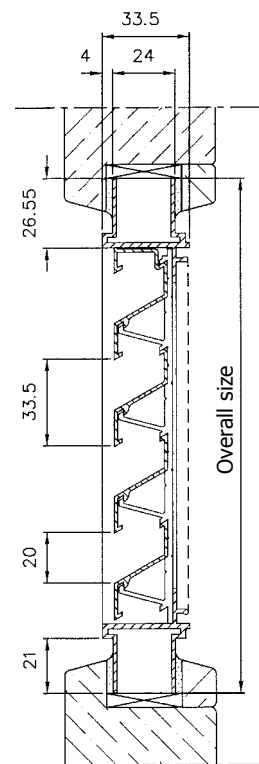
- The use of glazing blocks for fixing is recommended



permanent in
ALU profile



permanent in
PVC profile



permanent in
timber profile

ROUND GLAZED-IN LOUVRE

ALUMINIUM

N° 414 R

- All louvres are manufactured to your specific requirements

Product description

- Units are assembled from extruded sections of aluminium AlMgSi 0,5
- Finishes : - satin or bronze anodised
- any colour from the RAL-range can be supplied (RAL 60 - 70 microns)
- An insect screen in stainless steel 304 18/8 is fitted as standard (square screening 2.3 x 2.3 mm) 6 x 6 mm on request
- Minimum diameter 300 mm
- 24 mm equal leg outerframe
- Visual free area : 58 %
- Maximum diameter : 1400 mm if anodised
1500 mm if powdercoated
larger versions : 2 parts

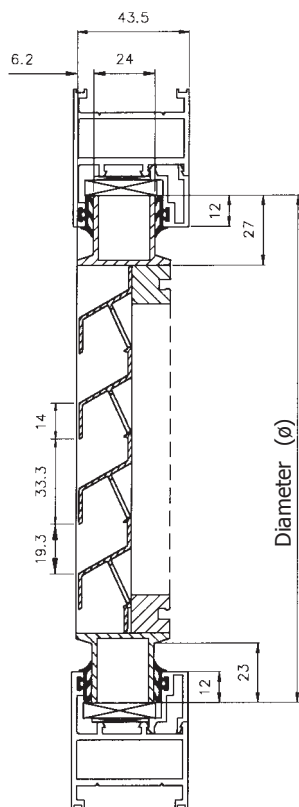


Option

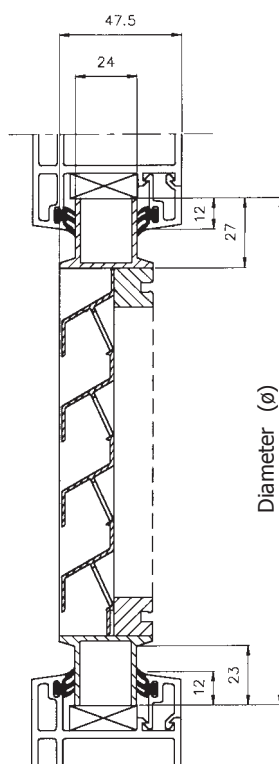
- Controllable 414 R/VA with hit and miss ventilators

Fixing

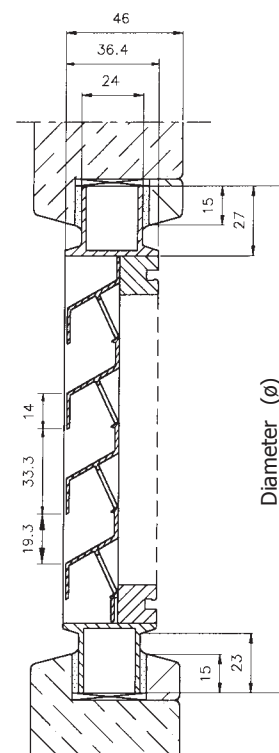
- The use of glazing blocks for fixing is recommended



permanent in
ALU profile



permanent in
PVC profile



permanent in
timber profile

N° 414 / VA

CONTROLLABLE GLAZED-IN LOUVRE

ALUMINIUM



- All louvres are manufactured to your specific requirements

Product description

- Units are assembled from extruded sections of aluminium AlMgSi 0,5
- Finishes : - satin or bronze anodised
- any colour from the RAL-range can be supplied (RAL 60 - 70 microns)
- An insect screen in stainless steel 304 18/8 is fitted as standard (square screening 2.3 x 2.3 mm)
6 x 6 mm on request
- 24 mm equal leg outerframe
- Overall size width x height is required, when ordering a louvre N° 414/VA
- 414 VA controllable with hit and miss ventilators of 100, 130 and 150 mm fitted at the back or with insulated door (414/D)

Options

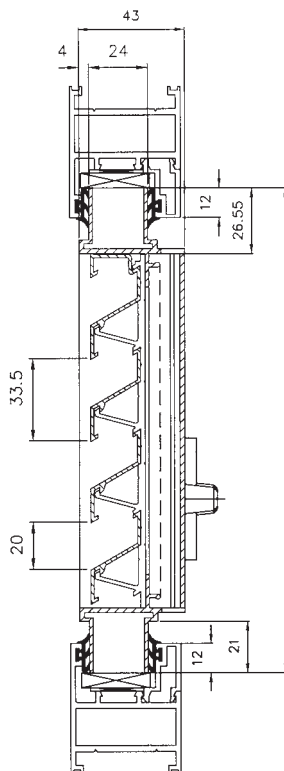
- Water channel (see page 4 - 5)
- Drainage profile

Fixing

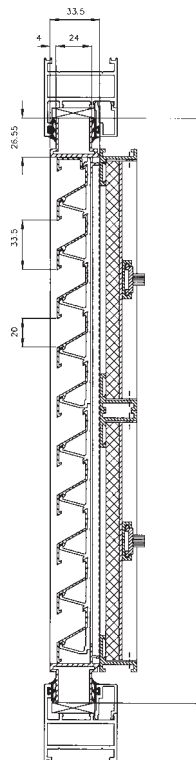
- The use of glazing blocks for fixing is recommended

Controls

- Manual control
- Cord control
- Rod control
- Motor control



Controllable
in ALU, PVC and Timber profile



Secured by lockable cover(s)

LOUVRE

SURFACE MOUNTED, ALUMINIUM

N° 431

N° 432

Product description

- Units are assembled from extruded sections of aluminium AlMgSi 0,5
- Finishes : - satin or bronze anodised
- any colour from the RAL-range can be supplied (RAL 60 - 70 microns)
- An insect screen in stainless steel 304 18/8 is fitted as standard (square screening 2.3 x 2.3 mm)
6 x 6 mm on request
- Depth : 29 mm
- Minimum dimensions 431, 120 x 120 mm H
- Visual free area : 59 %

Option

- Drainage profile

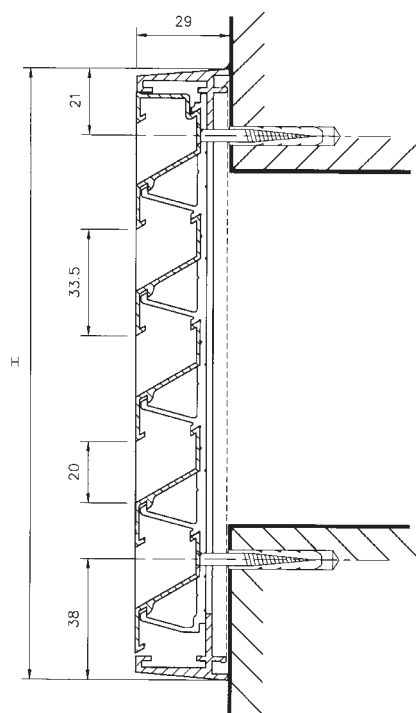
Fixing

- Screws and plugs are included

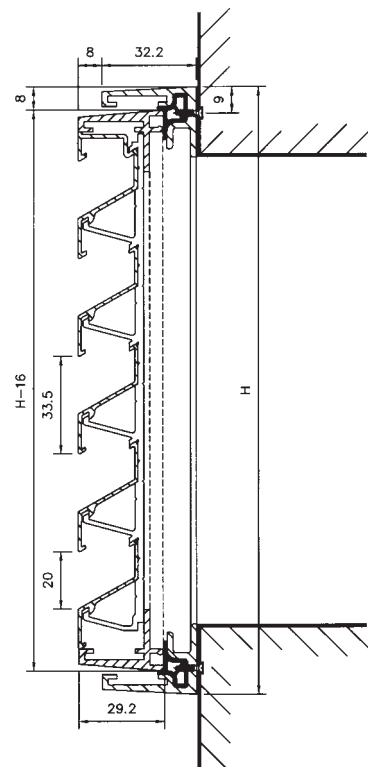
Standard sizes

Width x Height (W) (H)	SAA	Bronze	RAL 9910
165 x 165 mm	•	•	•
225 x 225 mm	•	•	•
325 x 325 mm	•	•	•
425 x 425 mm	•		
525 x 525 mm	•		

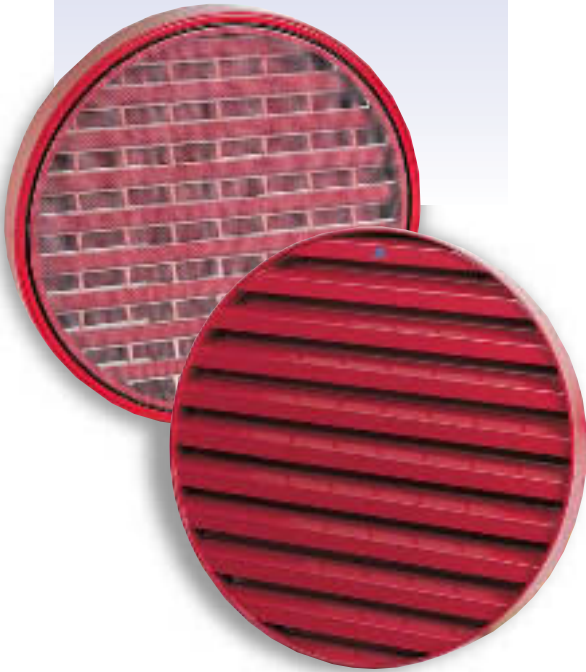
Other sizes are manufactured to your specific requirements



N° 431



N° 432



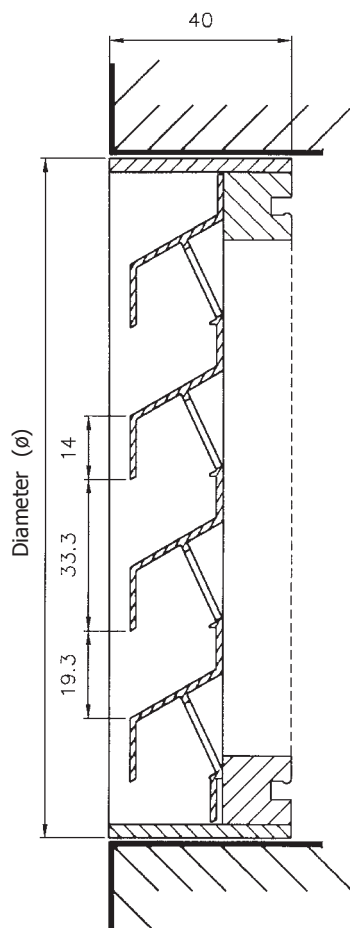
- All louvres are manufactured to your specific requirements

Product description

- Units are assembled from extruded sections of aluminium AlMgSi 0,5
- Finishes : - satin or bronze anodised
- any colour from the RAL-range can be supplied (RAL 60 - 70 microns)
- An insect screen in stainless steel 304 18/8 is fitted as standard (square screening 2.3 x 2.3 mm)
6 x 6 mm on request
- Minimum diameter 300 mm
- Depth to fit : 40 mm
- Visual free area : 58 %
- Maximum diameter :
1400 mm. if anodised
1500 mm. if powdercoated
larger versions : 2 parts

Fixing

- Dowels preassembled onto the frame



WALL LOUVRE

WITH CHEVRON SECTION BLADES, ALUMINIUM

N° 412

Product description

- Units are assembled from extruded sections of aluminium AlMgSi 0,5
- Finishes : - satin or bronze anodised
- any colour from the RAL-range can be supplied (RAL 60 - 70 microns)
- A bird mesh screen in stainless steel 304 18/8 6 x 6 mm is fitted as standard
(insect screen 2.3 x 2.3 mm on request)
- Depth to fit : 28,5 mm
- Overall flange size - opening size = 2 x 21 mm
- Visual free area : 93 %
- Minimum dimensions = 80 x 80 mm
- Delivered with earthing

Options

- Water channel (see page 4 - 5)
- Controllable 412/VA (see 415/VA) with hit and miss ventilator

Fixing

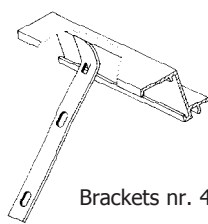
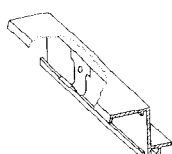
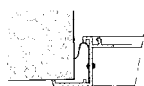
- Fixing spring clips are supplied on request
- Brackets are supplied as standard
- Louvres larger than 2m x 2m need a backstructure

Standard sizes

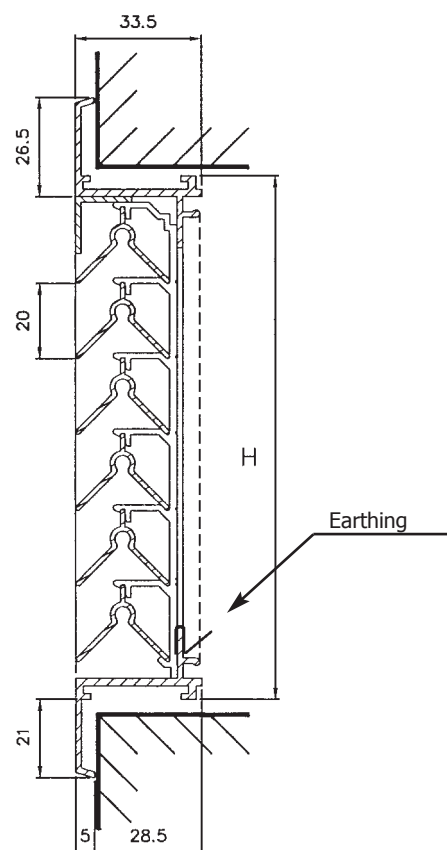
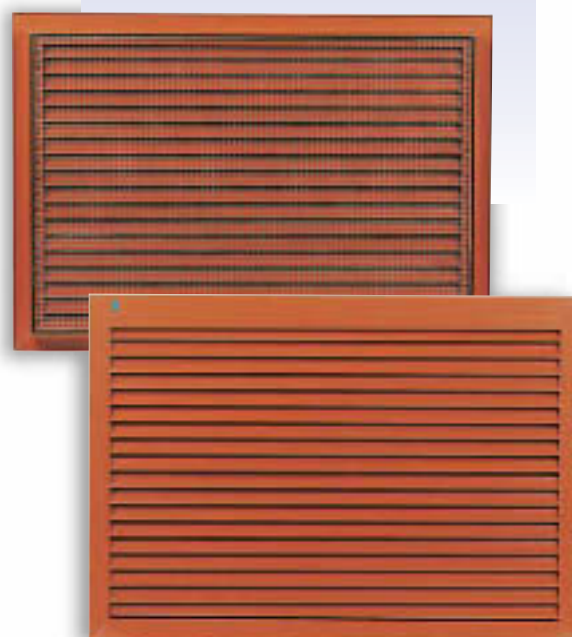
Width x Height (W) (H)	SAA
200 x 200 mm	•
300 x 300 mm	•
400 x 300 mm	•
500 x 300 mm	•
600 x 400 mm	•

Other sizes are manufactured to your specific requirements

Spring clips
nr. 419



Brackets nr. 418





- All louvres are manufactured to your specific requirements

Product description

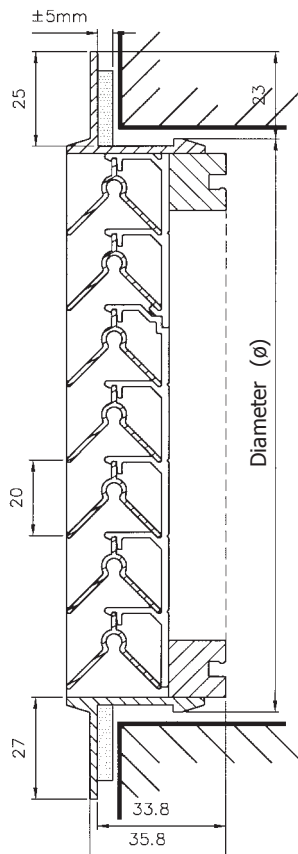
- Units are assembled from extruded sections of aluminium AlMgSi 0,5
- Finishes : - satin or bronze anodised
- any colour from the RAL-range can be supplied (RAL 60 - 70 microns)
- A bird mesh screen in stainless steel 304 18/8 6 x 6 mm is fitted as standard
(insect screen 2.3 x 2.3 mm on request)
- Minimum diameter 300 mm
- Depth to fit : 33,8 mm
- Flange size : 25 mm
- Visual free area : 93 %
- Maximum diameter :
1400 mm. if anodised
1500 mm. if powdercoated
larger versions : 2 parts

Option

- Controllable 412 R/VA (see 414, page 10) with hit and miss ventilator

Fixing

- Dowels preassembled onto the frame



GLAZED-IN LOUVRE

WITH CHEVRON SECTION BLADES, ALUMINIUM

N° 415

- All louvres are manufactured to your specific requirements

Product description

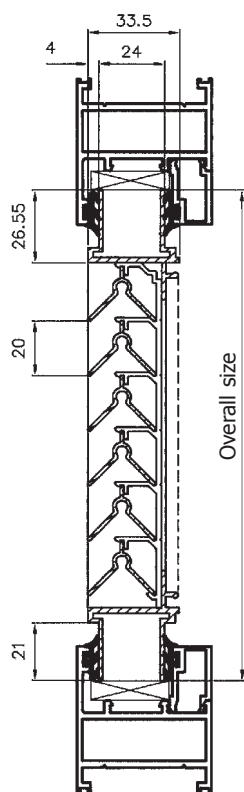
- Units are assembled from extruded sections of aluminium AlMgSi 0,5
- Finishes : - satin or bronze anodised
- any colour from the RAL-range can be supplied (RAL 60 - 70 microns)
- A bird mesh screen in stainless steel 304 18/8 6 x 6 mm is fitted as standard (insect screen 2.3 x 2.3 mm on request)
- 24 mm equal leg outerframe
- Overall size width x height is required, when ordering a grille N° 415
- Visual free area : 93 %
- Minimum dimensions = 130 x 130 mm H

Options

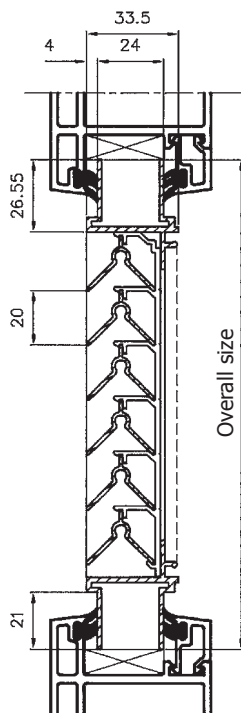
- Water channel (see page 4 - 5)
- Controllable 415 VA with hit and miss ventilator (see page 19)

Fixing

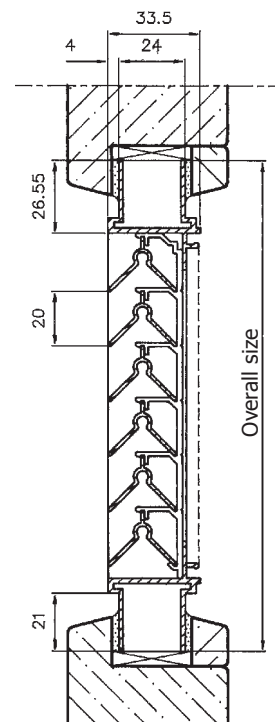
- The use of glazing blocks for fixing is recommended



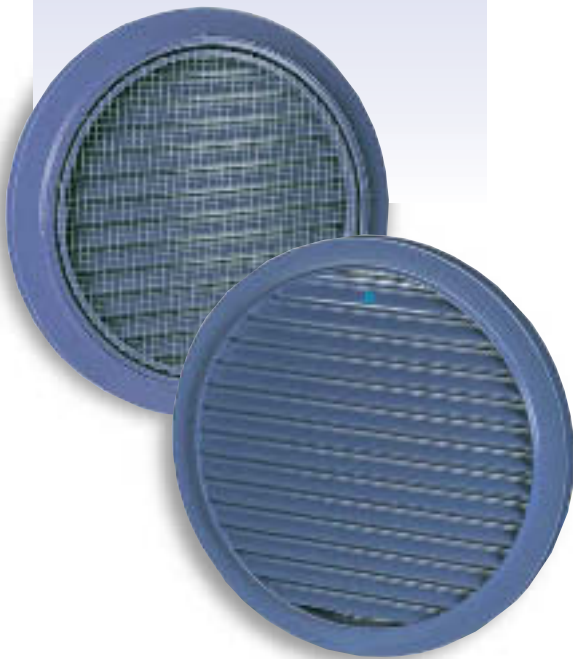
permanent in ALU profile



permanent in PVC profile



permanent in Timber profile



- All louvres are manufactured to your specific requirements

Product description

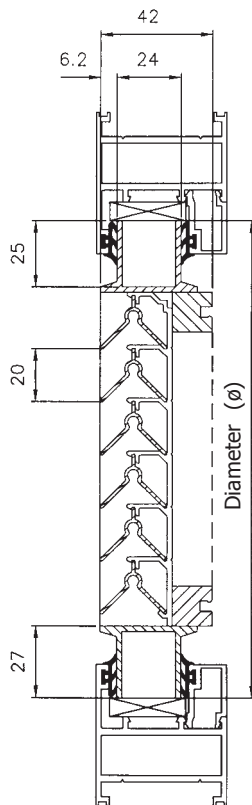
- Units are assembled from extruded sections of aluminium AlMgSi 0,5
- Frame assembled by 1 welding point
- Finishes : - satin or bronze anodised
- any colour from the RAL-range can be supplied (RAL 60 - 70 microns)
- A bird mesh screen in stainless steel 304 18/8 6 x 6 mm is fitted as standard (insect screen 2.3 x 2.3 mm on request)
- Minimum diameter 340 mm
- 24 mm equal leg outerframe
- Visual free area : 93 %
- Maximum diameter : 1400 mm if anodised
1500 mm if powdercoated
larger versions : 2 parts

Fixing

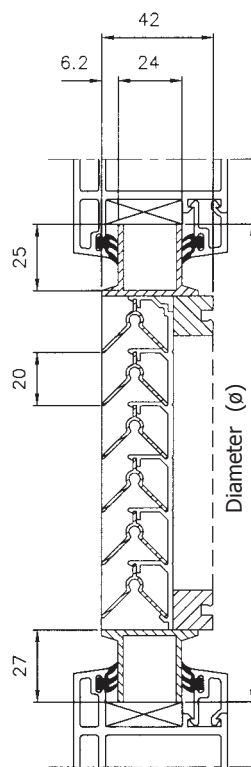
- The use of glazing blocks for fixing is recommended

Option

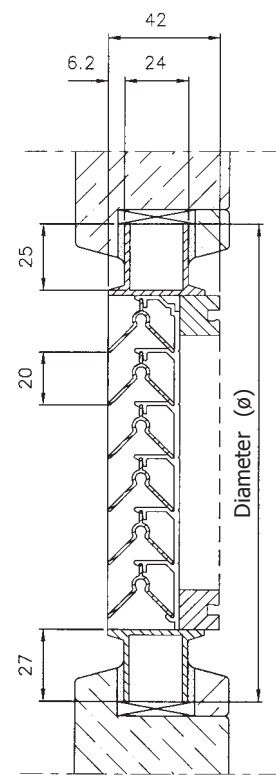
- Controllable 415R/VA with hit and miss ventilator (see page 10)



permanent in ALU profile



permanent in PVC profile



permanent in Timber profile

CONTROLLABLE GLAZED-IN LOUVRE

ALUMINIUM

N° 415/VA

- All louvres are manufactured to your specific requirements

Product description

- Units are assembled from extruded sections of aluminium AlMgSi 0,5
- Finishes : - satin or bronze anodised
- any colour from the RAL-range can be supplied (RAL 60 - 70 microns)
- A bird mesh screen in stainless steel 304 18/8 6 x 6 mm is fitted as standard (insect screen 2.3 x 2.3 mm on request)
- 24 mm equal leg outerframe
- Overall size width x height is required, when ordering a grille N° 415/VA
- 415/VA controllable with hit and miss ventilators of 100, 130 and 150 mm or with insulated door 415/D (see page 12)

Option

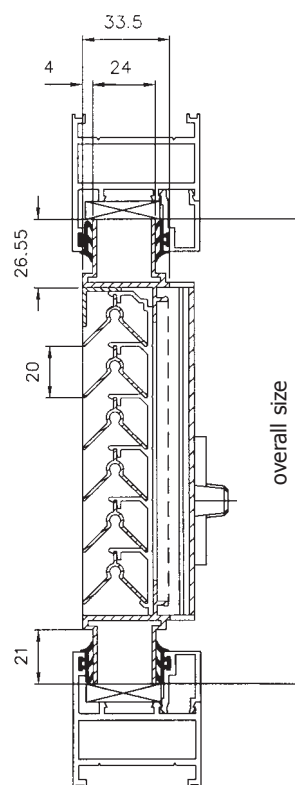
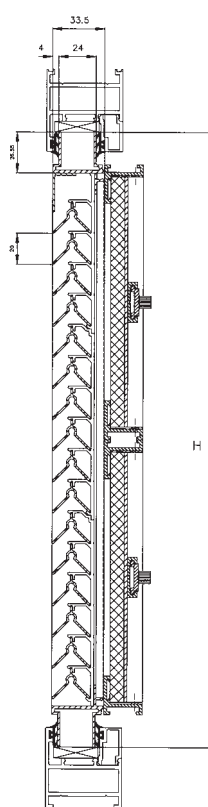
- Water channel (see page 4-5)

Fixing

- The use of glazing blocks for fixing is recommended

Controls

- Manual control
- Cord control
- Rod control
- Motor control



Controllable in aluminium window
(also applicable in wood and PVC)



- All louvres are manufactured to your specific requirements

Product description

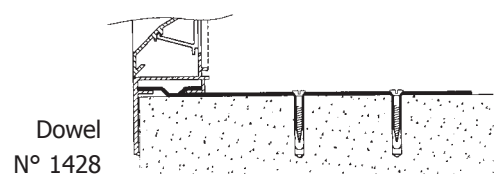
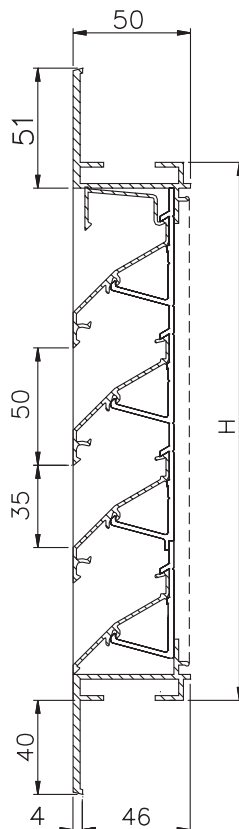
- Units are assembled from extruded sections of aluminium AlMgSi 0,5
- Finishes : - satin or bronze anodised
- any colour from the RAL-range can be supplied (RAL 60 - 70 microns)
- An insect screen in stainless steel 304 18/8 is fitted as standard (square screening 2.3 x 2.3 mm)
6 x 6 mm on request
- Depth to fit : 46 mm
- Flange size : 40 mm
- Visual free area : 70 %
- Minimum dimensions = 150 x 150 mm H
- No standard sizes

Options

- Water channel (see page 4 - 5)
- Controllable 421/VA with hit and miss ventilator
- Drainage profile

Fixing

- Dowels n° 1428 are supplied standard
- Louvres larger than 2m x 2m need a backstructure



ROUND WALL LOUVRE

ALUMINIUM

N ° 421 R

- All louvres are manufactured to your specific requirements

Product description

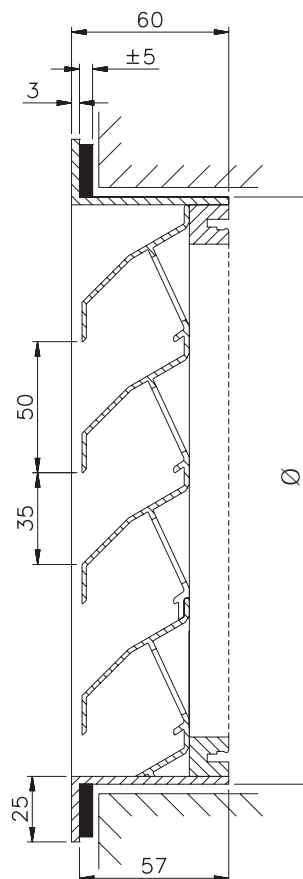
- Units are assembled from extruded sections of aluminium AlMgSi 0,5
- Frame assembled by 1 welding point
- Finishes : - satin or bronze anodised
- any colour from the RAL-range can be supplied (RAL 60 - 70 microns)
- An insect screen in stainless steel 304 18/8 is fitted as standard (square screening 2.3 x 2.3 mm)
6 x 6 mm on request
- Minimum diameter 400 mm
- Depth to fit : 57 mm
- Flange size : 22 mm
- Visual free area : 70 %
- Maximum diameter :
1400 mm if anodised
1500 mm if powdercoated
larger versions : 2 parts

Option

- Controllable 421 R/VA with hit and miss ventilator

Fixing

- Brackets pre-assembled onto the frame





- All louvres are manufactured to your specific requirements

Product description

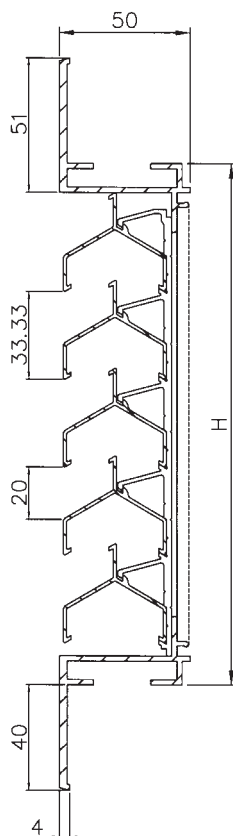
- Units are assembled from extruded sections of aluminium AlMgSi 0,5
- Finishes : - satin or bronze anodised
- any colour from the RAL-range can be supplied (RAL 60 – 70 microns)
- An insect screen in stainless steel 304 18/8 is fitted as standard (square screening 2.3 x 2.3 mm)
- Depth to fit : 46 mm
- Flange size : 40 mm
- Visual free area : 60 %
- Minimum dimensions = 150 x 150 mm H

Options

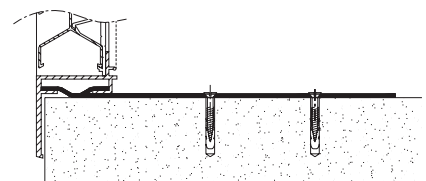
- Waterchannel (see pag. 4-5)
- Drainage profile

Fixing

- Dowels 1428 are supplied standard
- Louvres larger than 2m x 2m need a backstructure



Dowel
N° 1428



BURGLAR-PROOF WALL LOUVRE

ALUMINIUM

N° 423

- All louvres are manufactured to your specific requirements

Product description

- Units are assembled from extruded sections of aluminium AlMgSi 0,5
- Finishes : - satin or bronze anodised
- any colour from the RAL-range can be supplied (RAL 60 - 70 microns)
- An insect screen in stainless steel 304 18/8 is fitted as standard (square screening 2.3 x 2.3 mm)
6 x 6 mm on request
- Depth to fit : 50 mm
- No flange
- Every 2 blades a 20 mm steel bar is inserted
- Visual free area : 70 %
- Minimum dimensions = 150 x 150 mm

Application

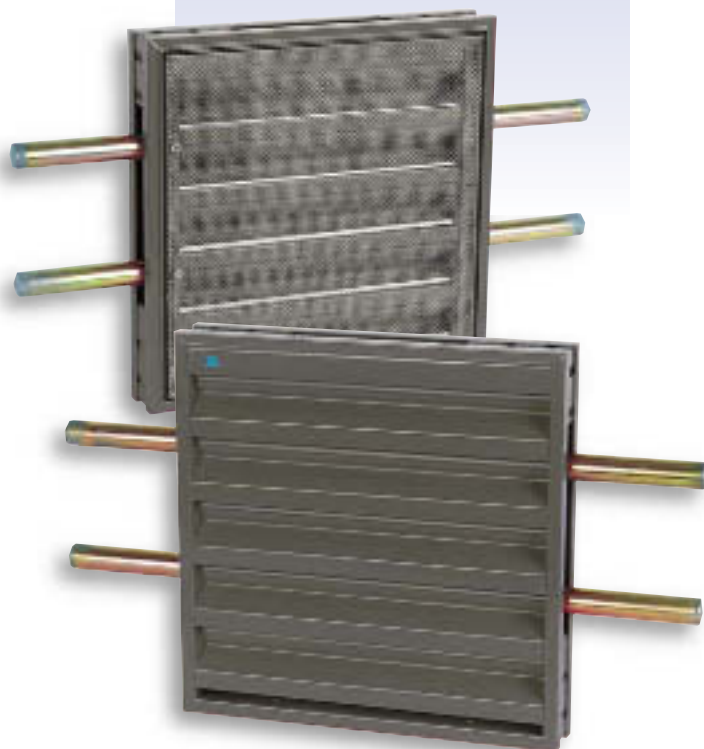
- Ventilation of protected rooms

Placement

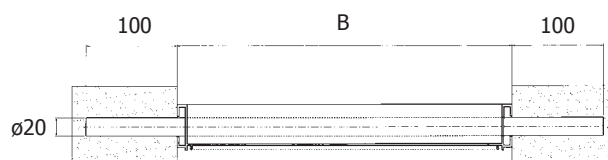
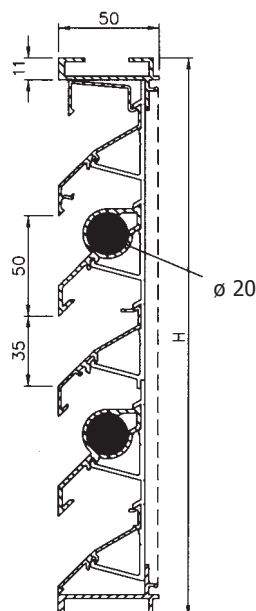
- The steel bars have to be incorporated into the concrete

Test report

- Official testreport WTCB n°. DE78A982
- burglar proof class 4 - in accordance with ENV 1627
available on demand



25





- All louvres are manufactured to your specific requirements

Product description

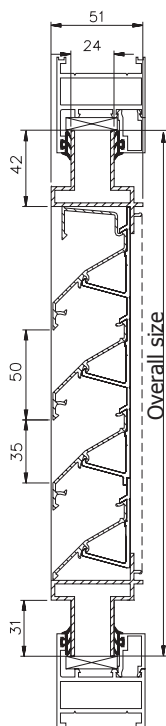
- Units are assembled from extruded sections of aluminium AlMgSi 0,5
- Finishes : - satin or bronze anodised
- any colour from the RAL-range can be supplied (RAL 60 - 70 microns)
- 24 mm equal leg outerframe
- An insect screen in stainless steel 304 18/8 is fitted as standard (square screening 2.3 x 2.3 mm)
6 x 6 mm on request
- Overall size width x height is required, when ordering a grille N° 424
- Depth to fit : 24 mm
- Visual free area : 70 %
- Minimum dimensions = 220 x 220 mm H

Options

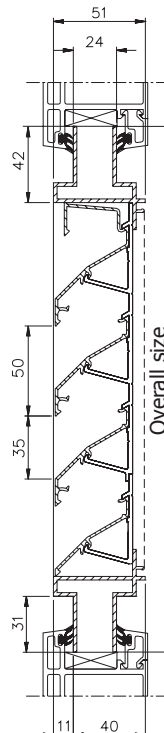
- Water channel (see page 4 - 5)
- Controllable 424/VA with hit and miss ventilator
- Drainage profile

Fixing

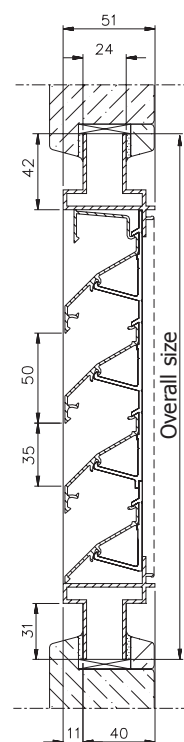
- The use of glazing blocks for fixing is recommended



permanent in ALU profile



permanent in PVC profile



permanent in Timber profile

GLAZED-IN LOUVRE

HEAVY DUTY SERIES, ALUMINIUM

N° 428

- All louvres are manufactured to your specific requirements

Product description

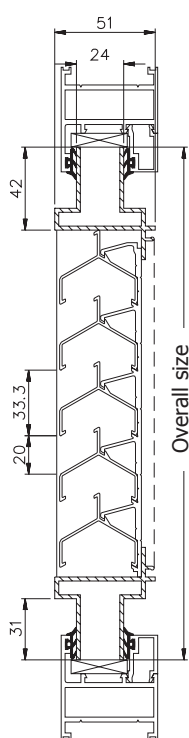
- Units are assembled from extruded sections of aluminium AlMgSi 0,5
- Finishes : - satin or bronze anodised
- any colour from the RAL-range can be supplied (RAL 60 – 70 microns)
- An insect screen in stainless steel 304 18/8 is fitted as standard (square screening 2.3 x 2.3 mm)
- Bird mesh 6 x 6 mm on demand
- Depth to fit : 46 mm
- Flange size : 24 mm
- Visual free area : 60 %
- Minimum dimensions = 220 x 220 mm H

Options

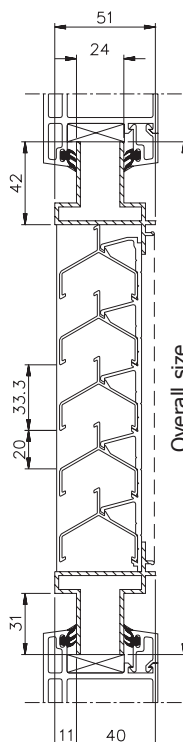
- Waterchannel (see pag. 4-5)
- Controllable 428/VA (same type as 414/VA see page 12)
- Drainage profile

Fixing

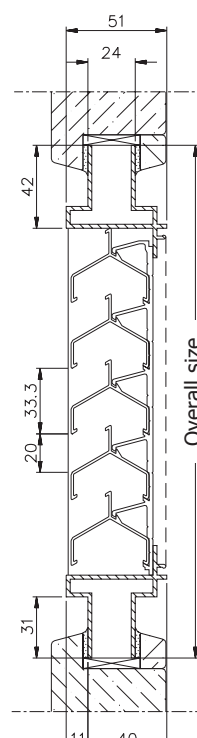
- The use of glazing blocks for fixing is recommended



ALU profile



PVC profile



Timber profile



- All louvres are manufactured to your specific requirements

Product description

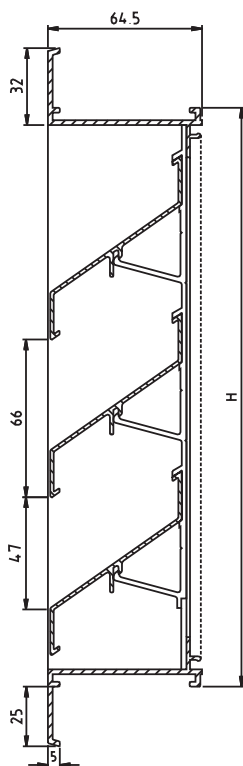
- Units are assembled from extruded sections of aluminium AIMg Si 0,5
- Finishes : - satin or bronze anodised
- any colour from the RAL-range can be supplied (RAL 60 - 70 microns)
- A bird mesh screen in stainless steel 304 18/8 6 x 6 mm is fitted as standard (insect screen 2.3 x 2.3 mm on request)
- Depth to fit 59.5 mm
- Flange size : 25 mm
- Visual free area : 69%
- Minimum dimensions = 300 x 300 mm H
- Pitch larger than 66 mm on demand

Option

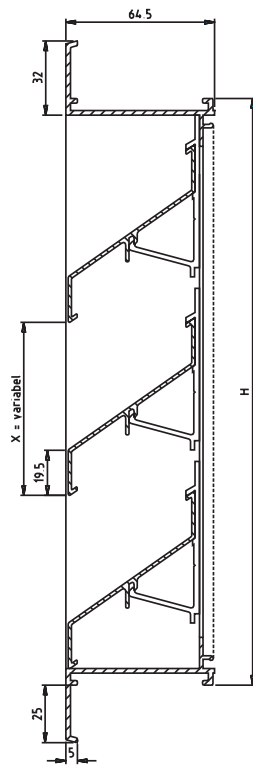
- Water channel (see page 4 - 5)

Fixing

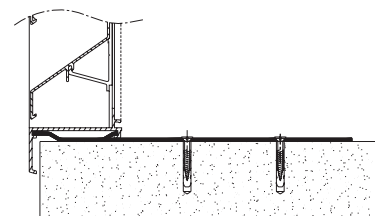
- Brackets ref. 429 are supplied as standard
- Louvres larger than 2m x 2m need a backstructure



standard pitch



special pitch



Dowel
n° 429

WALL LOUVRE

EXTRA HEAVY DUTY SERIES, ALUMINIUM

N° 453

- All louvres are manufactured to your specific requirements

Product description

- Frame is assembled from extruded sections of aluminium AlMg Si 0,5, blades from rollformed alu coil
- Finishes : - any colour from the RAL-range can be supplied (RAL 60 - 70 microns)
- A bird mesh screen in stainless steel 304 18/8 6 x 6 mm is fitted as standard (insect screen 2.3 x 2.3 mm on request)
- Depth to fit 59.5 mm
- Flange size : 25 mm
- Visual free area : 69%
- Minimum dimensions = 300 x 300 mm H

Option

- Water channel (see page 4 - 5)

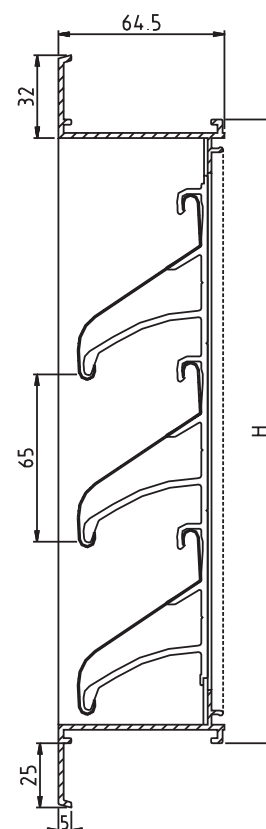
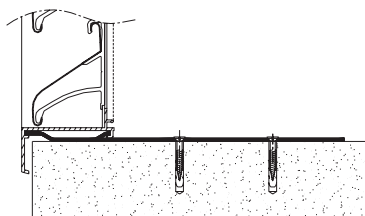
Fixing

- Brackets ref. 429 are supplied as standard
- Louvres larger than 2m x 2m need a backstructure



29

Dowel
n° 429





- All louvres are manufactured to your specific requirements

Product description

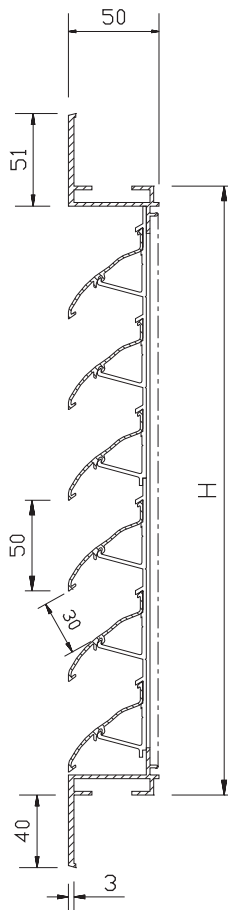
- Units are assembled from extruded sections of aluminium AlMgSi 0,5
- Finishes : - satin or bronze anodised
- any colour from the RAL-range can be supplied (RAL 60 - 70 microns)
- An insect screen in stainless steel 304 18/8 is fitted as standard (square screening 2.3 x 2.3 mm) 6 x 6 mm on request
- Depth to fit : 46 mm
- Minimum profile thickness : 2 mm
- Flange size : 40 mm
- Visual free area : 92 %
- Minimum dimensions = 150 x 150 mm H
- No standard sizes
- Limited watertightness

Options

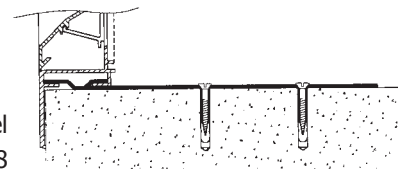
- Water channel
- Controllable 421/VA with hit and miss ventilator

Fixing

- Dowels n° 1428 are supplied standard
- Louvres larger than 2m x 2m need a backstructure



Dowel
N° 1428



WALL LOUVRE

EXTRA HEAVY DUTY SERIES, ALUMINIUM

N° 484

- All louvres are manufactured to your specific requirements

Product description

- Units are assembled from extruded sections of aluminium AlMgSi 0,5
- Finishes : - satin or bronze anodised
- any colour from the RAL-range can be supplied (RAL 60 - 70 microns)
- 24 mm equal leg outerframe
- An insect screen in stainless steel 304 18/8 is fitted as standard (square screening 2.3 x 2.3 mm) 6 x 6 mm on request
- Overall size width x height is required, when ordering a grille N° 424
- Depth to fit : 24 mm
- Visual free area : 92 %
- Minimum dimensions = 220 x 220 mm H
- Limited watertightness

Options

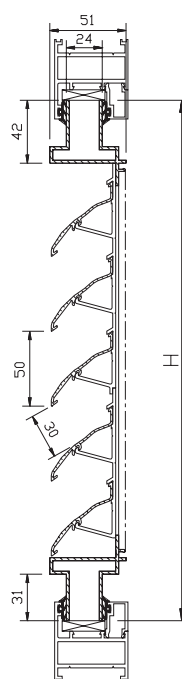
- Water channel
- Controllable 421/VA with hit and miss ventilator

Fixing

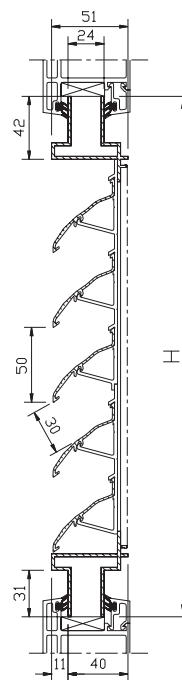
- Dowels n° 1428 are supplied standard
- Louvres larger than 2m x 2m need a backstructure



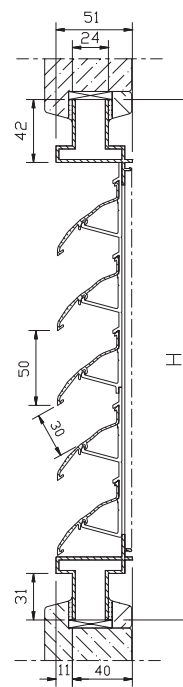
31



in ALU profile



in PVC profile



in timber profile



- All louvres are manufactured to your specific requirements

Product description

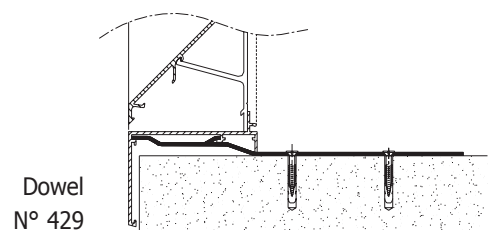
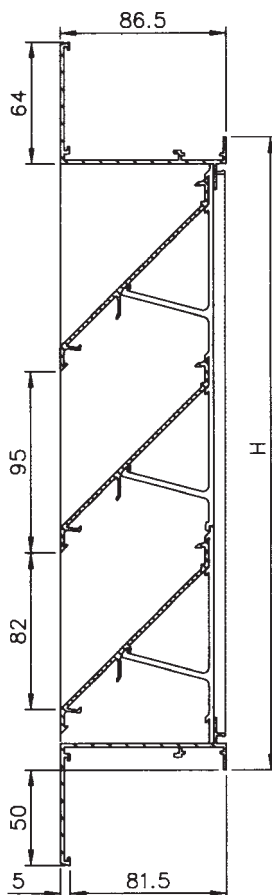
- Units are assembled from extruded sections of aluminium AlMgSi 0,5
- Finishes : - satin or bronze anodised
- any colour from the RAL-range can be supplied (RAL 60 - 70 microns)
- A bird mesh screen in stainless steel 304 18/8 6 x 6 mm is fitted as standard (insect screen 2.3 x 2.3 mm on request)
- Flange size : 50 mm
- Depth to fit : 81,5 mm
- Visual free area : 86 %
- Minimum dimensions 300 x 300 mm
- No standard sizes

Options

- Water channel (see page 4 - 5)
- Drainage profile

Fixing

- Brackets ref. 429 are supplied as standard
- Louvres larger than 2m x 2m need a backstructure



WALL LOUVRE

WITH ADJUSTABLE BLADES

ALUMINIUM

N° 427

- All louvres are manufactured to your specific requirements

Product description

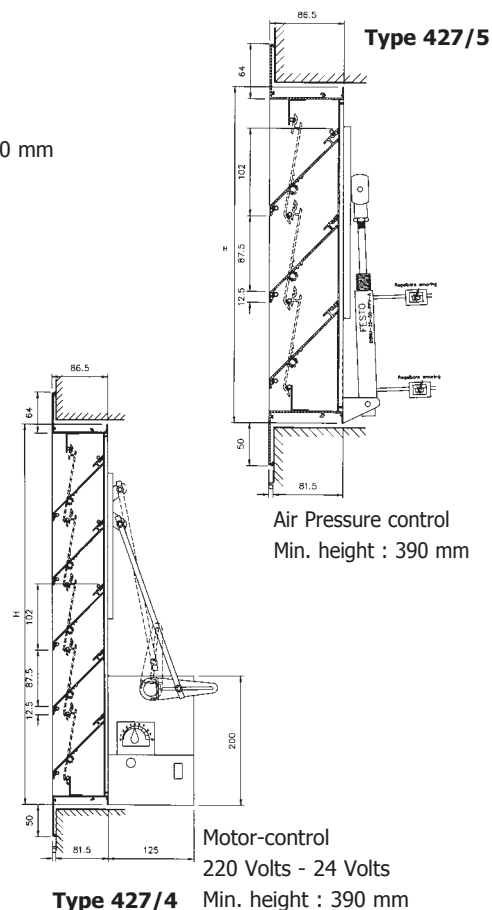
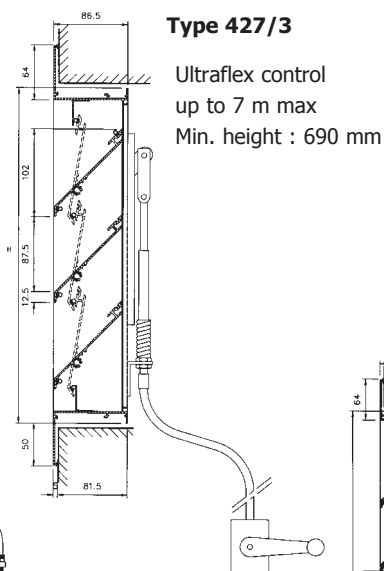
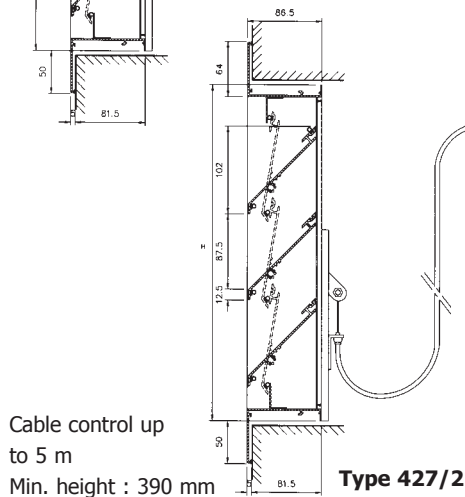
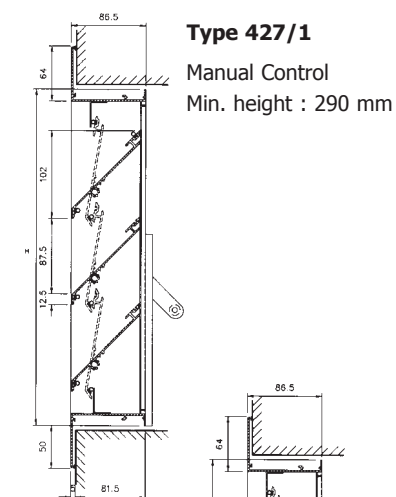
- Units are assembled from extruded sections of aluminium AlMgSi 0,5
- Finishes : - satin or bronze anodised
- any colour from the RAL-range can be supplied (RAL 60 - 70 microns)
- A bird mesh screen in stainless steel 304 18/8 6 x 6 mm is fitted as standard (insect screen 2.3 x 2.3 mm on request)
- Depth to fit : 81,5 mm
- Flange size : 50 mm
- Height = (100 mm increments of height) + 90 mm
- Max length : 1300 mm in 1 piece
- Blade adjustment : hand lever device, cable, ultraflex or motorised units with factory fitted motor
- Visual free area : 88 %
- Minimum dimensions = 300 x 290 mm H



Fixing

- Brackets ref. 429 are supplied

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N° 433

PRESSURE RELIEF DAMPER

ALUMINIUM



Product description

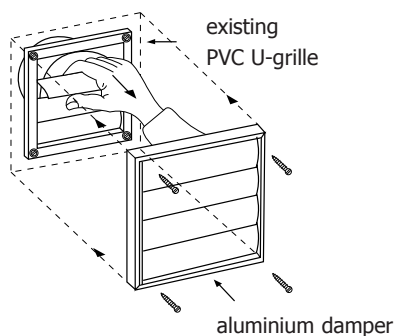
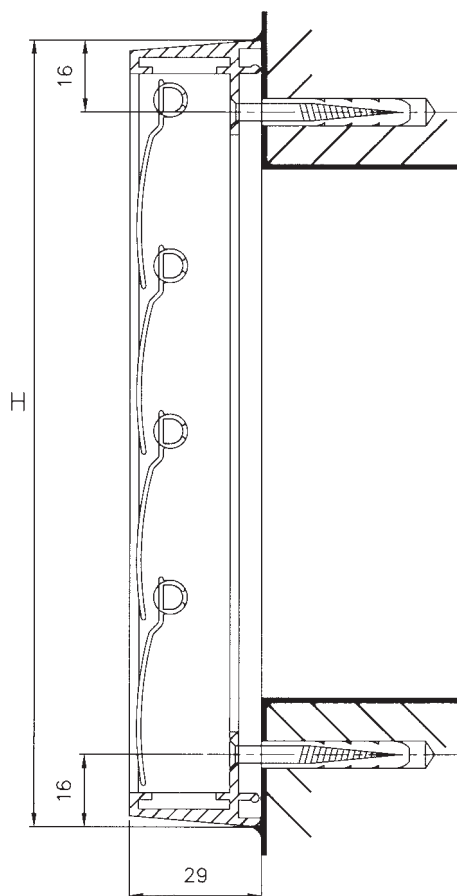
- Units are assembled from extruded sections of aluminium AlMgSi 0,5
- Finishes : - satin or bronze anodised
- any colour from the RAL-range can be supplied (RAL 60 - 70 microns)
- Invisible fixing
- Sizes possible in height : 228 mm
100 mm increments of height
- The blades have a maximum length of 1000 mm in one piece
- Thickness : 29 mm

Fixing

- Screws and plugs are supplied

Grilles for extractor hoods (210 x 210 mm)

- **Fixing** : a RENSON grille in aluminium is fitted on the existing PVC U-grille of which the blades have been removed.



Standard sizes

Width x Height (L) (H)	SAA	Bronze	RAL 9910	RAL 8019
GRILLES FOR EXTRACTOR HOODS				
173 x 173 mm	•	•	•	•
210 x 210 mm	•	•	•	•
246 x 246 mm	•		•	•
PRESSURE RELIEF DAMPERS				
328 x 328 mm	•		•	•
428 x 428 mm	•		•	•
528 x 528 mm	•		•	•

Other sizes are manufactured to your specific requirements

WALL LOUVRE

STANDARD SERIES, GALVANISED STEEL

N° 511

Product description

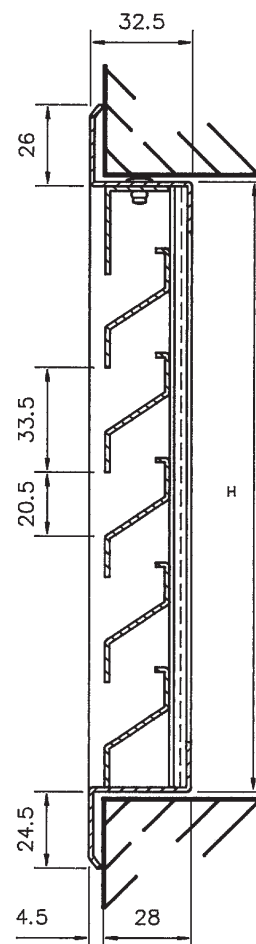
- Manufactured from steelplate H2H
- Electrically plated 10 Micron Fe Zn 12C
- Insect screen of 0,8 mm gauge galvanised steel is fitted as standard - square screening 5 x 5 mm.
- Depth to fit : 28 mm
- Flange size : 24,5 mm
- Visual free area : 61 %

Standard sizes

Width x Height (L) (H)	
200 x 200 mm	•
400 x 200 mm	•
400 x 300 mm	•
1000 x 500 mm	•



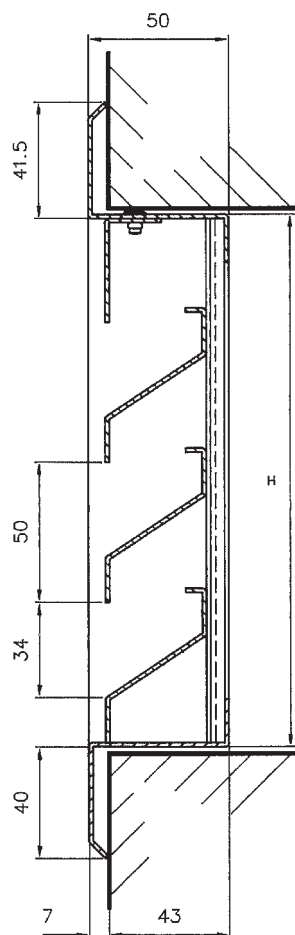
35





Product description

- Manufactured from steelplate H2H
- Electrically plated 10 microns Fe Zn 12C
- Insect screen of 0,8 mm gauge galvanised steel is fitted as standard - square screening 5 x 5 mm
- Depth to fit : 43 mm
- Flange size : 40 mm
- Visual free area : 68 %



Standard sizes

Width x Height (L) (H)	
300 x 300 mm	•
400 x 400 mm	•
600 x 400 mm	•
500 x 500 mm	•
600 x 600 mm	•
1000 x 500 mm	•
1000 x 1000 mm	•

WALL LOUVRE

HEAVY DUTY SERIES, STAINLESS STEEL

N° 621

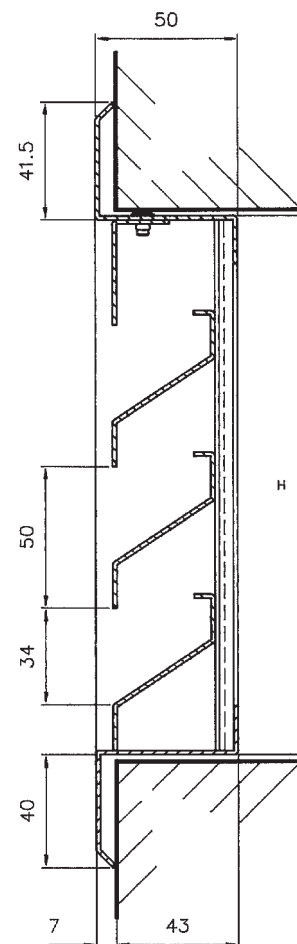
- All louvres are manufactured to your specific requirements

Product description

- Units are assembled from extruded sections of stainless steel 316 2B
- A bird mesh screen in stainless steel 304 18/8 6 x 6 mm is fitted as standard
- Depth to fit : 43 mm
- Flange size : 40 mm
- Visual free area : 68 %



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N° 465

N° 466

FIRE RESISTANT LOUVRE WITH ANGLED BLADES

FIRE RESISTANT LOUVRE WITH HORIZONTAL BLADES

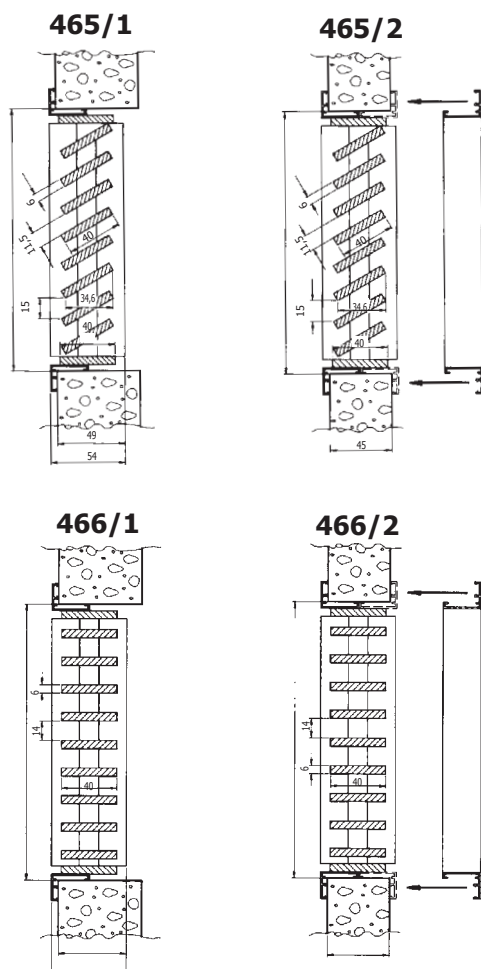


465



466

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Purpose

- In normal conditions : Guarantees an airflow between two adjacent rooms
- In the event of a fire : Provides a non-combustible barrier for a period of 60 minutes

Function

- When the temperature reaches 120 deg.C. the blade profiles fuse together and form a non-combustible barrier for 60 minutes

Fitting

- Install the louvre in the door/wall opening
- Fill the space between grille and door/wall with fire resistant mortar
- Test reports available

Product description

- Integrity : 60 minutes (Test reports available)
- Type : 465/1 - 466/1 with flange
465/2 - 466/2 with unequal leg, telescopic frame
- Frame and blades of intumescent material
- Frame in satin anodised aluminium, other colours on request
- 465 : Visual free area : 74 %
- 466 : Visual free area : 70 %
- Special dimensions on demand

Applications

- Fire resistant construction
- Fire resistant doors
- *For internal use only*

Standard dimensions

- 465/1 : 200 x 200 mmh
300 x 300 mmh
400 x 200 mmh
500 x 200 mmh
- 465/2 : 400 x 200 mmh

Maximum dimensions

- 465/1 : 600/300 mmh
- 466/1 : 600/400 mmh
- 465/2 : 600/300 mmh
- 466/2 : 600/400 mmh

ACOUSTIC LOUVRE

ALUMINIUM

N° 445

- All louvres are manufactured to your specific requirements

Product description

Dimensions

Type	150	300
Blade	single	double
Depth (mm)	150	300
Min. height (mm)	300	300
Pitch (mm)	150	150
Min. length (mm)	300	300
Weight (Kg/m ²)	22	44

- Material : aluminium sheet AlMgSi 0,5
- Finishes : - any colour from the RAL-range can be supplied (RAL 60 - 70 microns)
- A bird mesh screen in stainless steel 304 18/8 6 x 6 mm is fitted as standard
- Flange size : 40 mm
- Visual free area : 77 %

Sound reduction (dB(A)) Type 150

	D _{nA}	R _A	R _A netto
Standard outside noise	23,0	13,0	7,8

Application

- Ventilation systems
- Cooling or heating installation
- Carparks
- Industrial applications

Acoustic function

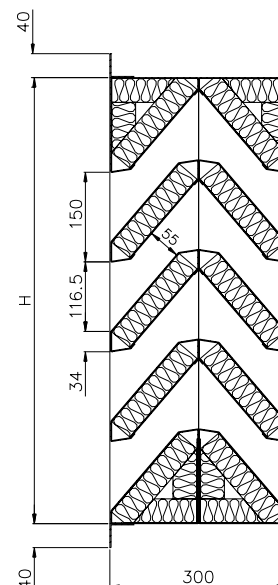
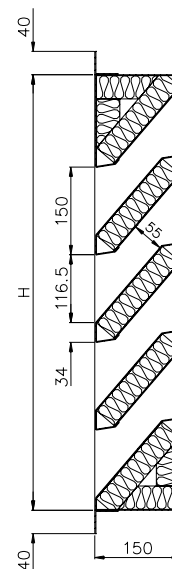
- Blades filled with insulating and non-combustible mineral wool and fixed with a perforated plate (see table)

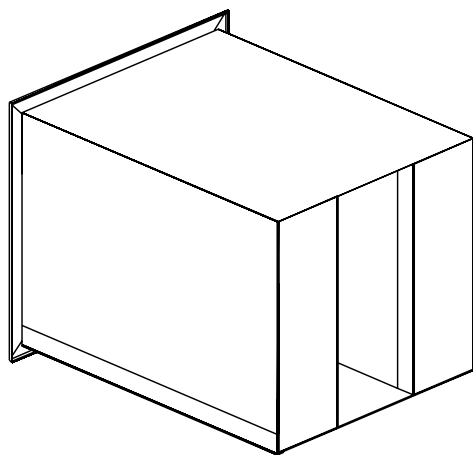
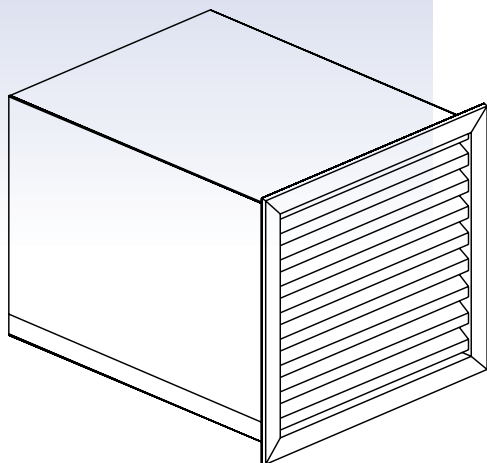
Selection of the most suitable type

(free calculation by our sales dep.)

- Acoustic insulation (dB(A))
- Distance to the source
- Acoustic spectrum
- Noise level of the source

To improve the aesthetic outlook, we recommend the placement of a louvre in front of the acoustic grille.





- All louvres are manufactured to your specific requirements

Product description

- Units are assembled from galvanised steel with mineral wool
- The front of the louvre consists of an aluminium louvre depending on the required airflow

Application

- Ventilation systems
- Cooling or heating installation
- Carparks
- Industrial applications

Acoustics

- Sound reduction in function of depth

Type	Depth	Frequency							
		63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
1	425 mm	12	13	15	20	26	24	22	21
2	725 mm	14	16	20	29	44	43	39	28
3	1025 mm	15	19	28	41	51	51	42	36

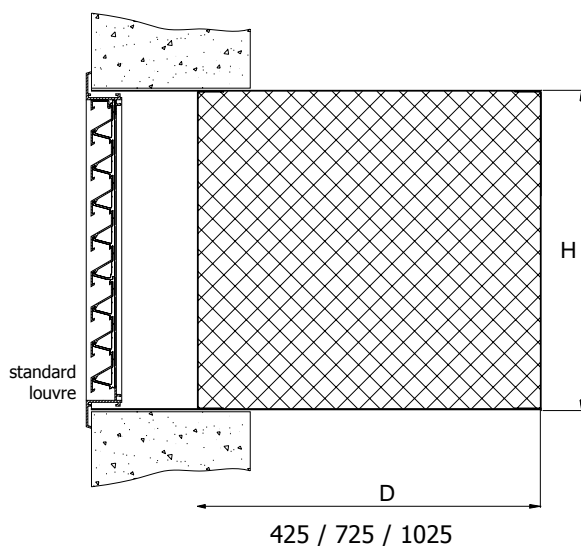
Finish

- Silencer : galvanised steel
- External grille : aluminium
 - satin anodised (20 micron)
 - RAL - colours (60 - 70 microns)

Selection of the most suitable type

The choice of an acoustic silencer and a louvre type depends on :

- Acoustic insulation dB(A)
- Acoustic level of the source
- Distance to the source
- Available depth, height and width



DOOR GRILLE

ALUMINIUM

N° 461

Product description

- Units are assembled from extruded sections of aluminium AlMgSi 0,5
- Finishes : - satin anodised, no bronze
- any colour from the RAL-range
(60 - 70 microns)
- Supplied with matching back frame and fixing screws.
- Visual free area : 93 %
- Length of blades : max. 800 mm in one piece
- Suitable for door thickness of min. 30 and max. 47 mm



Standard sizes

Width x Height (L) (H)	SAA	RAL 8019	RAL 9910
200 x 100 mm	•	•	•
400 x 200 mm	•	•	•
400 x 300 mm	•	•	•
500 x 300 mm	•	•	•
600 x 400 mm	•	•	•
Bathroom door grille			
425 x 76 mm	•	•	•

Other sizes are manufactured to your specific requirements

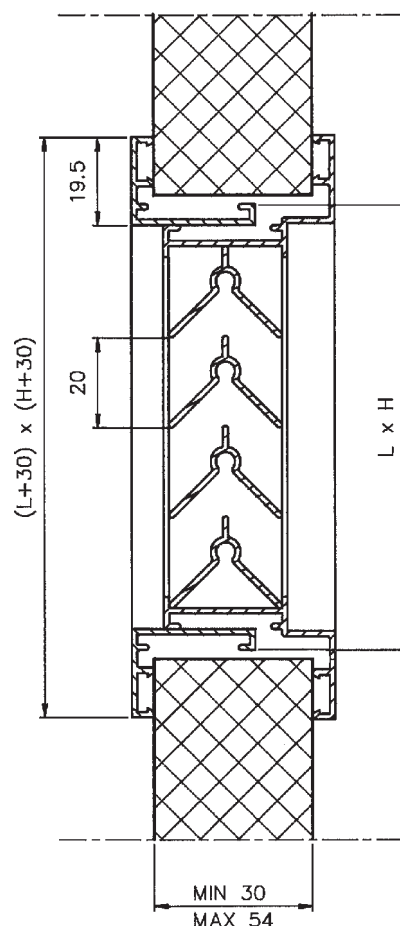
Air flow

dimensions	at 1 Pa - m ³ /h	at 2 Pa - m ³ /h (according to NBN D50-001)
200 x 100 mm	9,3	13,2
400 x 200 mm	46,7	66,9
400 x 300 mm	86,7	122,1
500 x 300 mm	103,0	146,5
600 x 400 mm	147,8	221,9
425 x 75 mm	12,5	17,7

Other sizes are manufactured to your specific requirements

Fixing

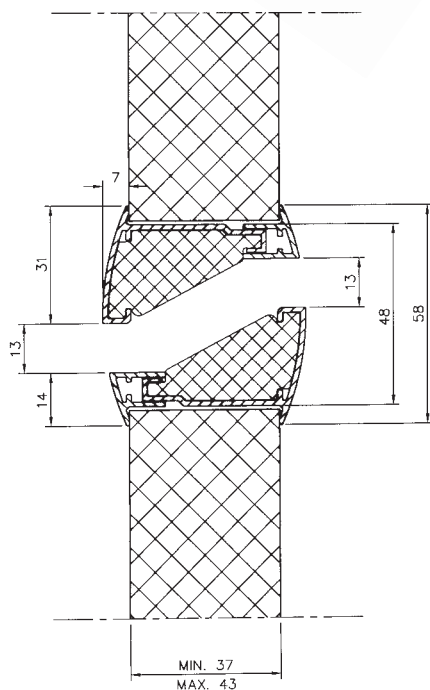
- Screws are supplied as standard





Product description

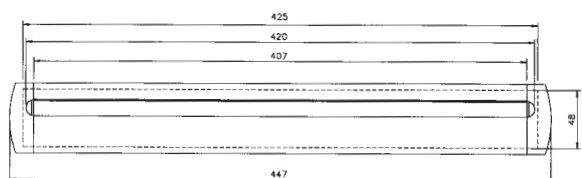
- Units are assembled from extruded sections of aluminium AlMgSi 0,5 with PVC endcaps
- Finishes : - satin anodised
- any colour from the RAL-range
(RAL 60 - 70 microns)
- Endcaps : black, white or grey
- Invisible fixing
- Free area : 5291 mm² (standard size)
- Airflow : 25 m³/h at 2 Pa
- Painting possible : white at RAL-9910, black at RAL-8019, grey at SAA + primer
- Acoustic insulation : 32 dB (A)
- Visual free area : 22 %



Standard sizes

Width x Height (L) (H)	Free area (mm ²)	SAA	RAL 8019	RAL 9910
425 x 48 mm	5291	•	•	•

Other sizes are manufactured to your specific requirements
Height is fixed 48 mm !



REGISTER TO FIX

ALUMINIUM

N° 4032

Standard sizes

Width x Height (L) (H)	Free area (mm²)	SAA	Bronze 9910	RAL
type 4032/1 175 x 150 mm	4900	•	•	•
type 4032/2 240 x 200 mm	11300	•	•	•
type 4032/3 325 x 300 mm	26000	•	•	•
type 4032/4 300 x 100 mm	6800	•	•	•
type 4032/5 450 x 100 mm	11300	•	•	•

Other sizes are manufactured to your specific requirements

Width W : all sizes

Height H : always 150, 200 or 300 mm

Product description

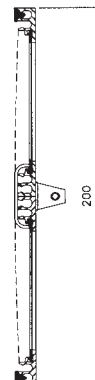
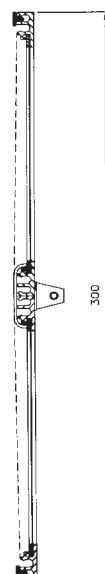
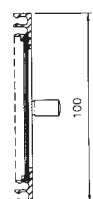
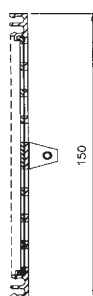
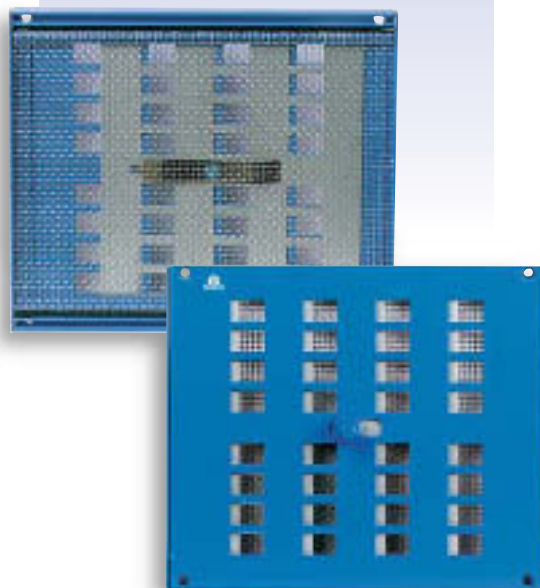
- Units are assembled from extruded sections of aluminium AlMgSi 0,5
- Finishes : - satin or bronze anodised
- any colour from the RAL-range
(60 - 70 microns)
- An insect screen in stainless steel 304 18/8 is fitted as standard (2,3 x 2,3 mm).
- Controllable
- Operation : - with sliding knob
Registers longer than 500 mm are supplied with turning knob
- Special heights can be manufactured upon request : these registers are made up from sections 67 mm, 100 mm, 130 mm or 150 mm.

Airflow

dimensions	in cm²	at 2 Pa - m³/h (according to NBN D50-001)
4032/1: 175 x 150 mmh	49 cm²	17,6
4032/2: 240 x 200 mmh	113 cm²	40,7
4032/3: 325 x 300 mmh	260 cm²	93,6
4032/4: 300 x 100 mmh	68 cm²	24,5
4032/5: 450 x 100 mmh	113 cm²	40,7

Fixing

- Screws and plugs are supplied as standard





Standard sizes

Width x Height (L) (H)	Free area (mm ²)	SAA	RAL 9910
217 x 212 mm	11300	•	•
248 x 212 mm	14000	•	•
307 x 312 mm	26000	•	•

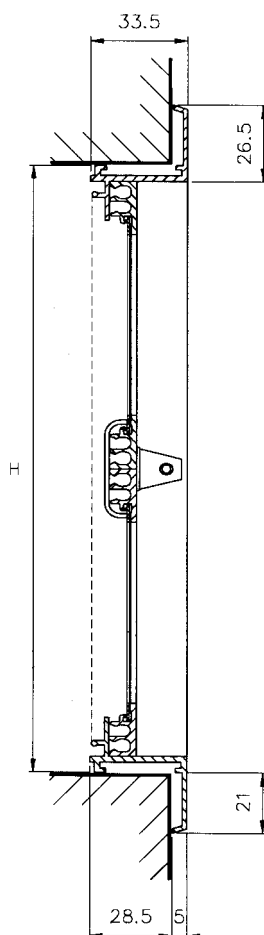
Other sizes are manufactured to your specific requirements

Product description

- Units are assembled from extruded sections of aluminium AlMgSi 0,5
- Finishes : - satin anodised, no bronze
- any colour from the RAL-range
(60 - 70 microns)
- An insect screen in stainless steel 304 18/8 is fitted as standard (2,3 x 2,3 mm)
- Depth to fit : 28,5 mm
- Flange size : 21 mm
- For fixing these registers spring clips or dowels can be supplied
- Operation : - with sliding knob
- **Registers longer than 500 mm are supplied with turning knob**
- Cord operation or rod operation available

Fixing

- Springclips can be supplied



CAVITY WALL VENTILATOR

ALUMINIUM

N° 442

Standard sizes

Width x Height (L) (H)	SAA	Bronze anodised	RAL 9910
265 x 90 mm	•	•	•

Product description

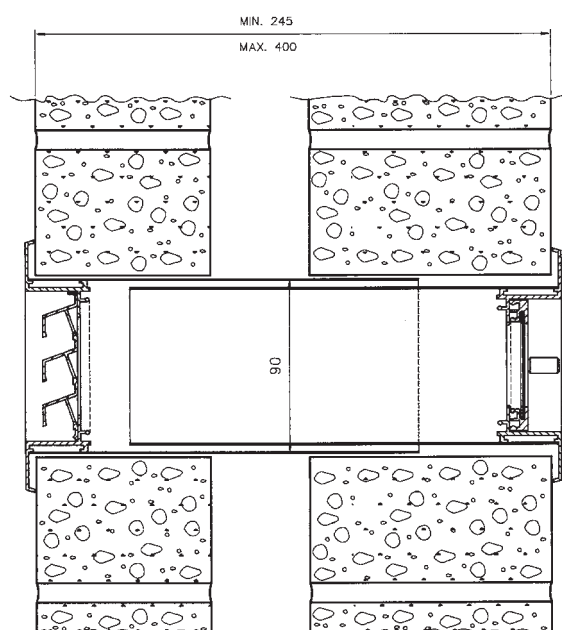
- Units are assembled from extruded sections of aluminium AlMgSi 0,5
- Finishes : - satin or bronze anodised
- any colour from the RAL-range
(60 - 70 microns)
- The galvanised steel sleeve can be adapted for any thickness of wall (24,5 - 40 cm)
- An insect screen in stainless steel 304 18/8 is fitted as standard (2,3 x 2,3 mm)
- Dimensions : 256 x 90 mm (W x H)
- Sound absorbing application possible
- "Hit and miss" internal grille. Permanent on request
- Free area : 4000 mm²

Fixing

- Springclips are supplied



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N° 435

PUNCHED GRILLE

ALUMINIUM



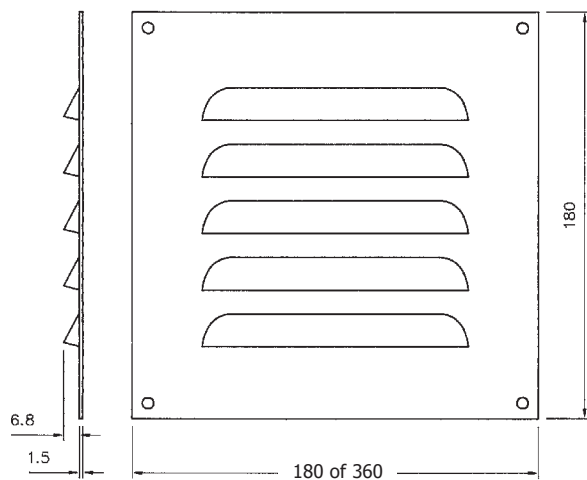
Standard sizes

Width x Height (L) (H)	SAA	Bronze anodised	RAL 9910
256 x 90 mm	•	•	•

Product description

- Fabricated from aluminium sheet
- Finishes :
 - satin anodised (20 microns)
 - powder coated : brown (RAL 8019) and white (RAL 9910) (60 - 70 microns)

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ROUND PUNCHED GRILLE

ALUMINIUM

N° 435 R

Standard sizes

	Free area (mm²)	RAL 9010	RAL 8019	RAL 9006 MAT (aluminiumkleur)
ø 95 mm	5100	•	•	•
ø 115 mm	7450	•	•	•
ø 145 mm	11850	•	•	•
ø 190 mm	20400	•	•	•
ø 245 mm	33900	•	•	•

Product description

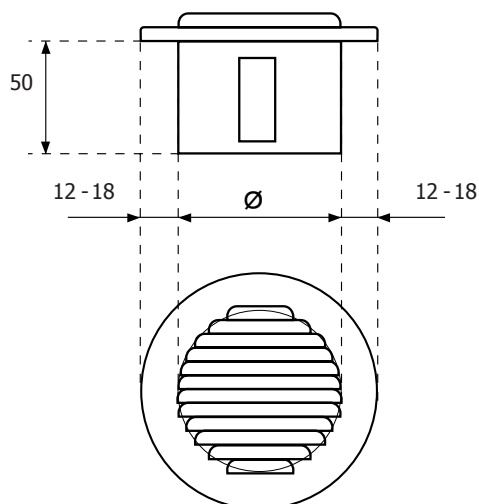
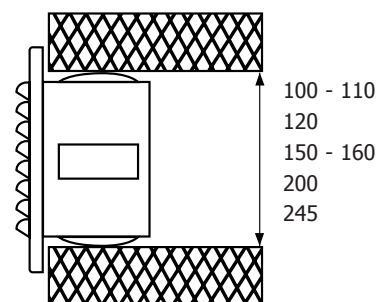
- Fabricated from aluminium sheet
- Finishes : - aluminium finish (RAL 9006)
- white (RAL 9910)
- brown (RAL 8019)
(60 - 70 microns)
- Extraction and air supply with round frame
- Easy to install
- With aluminium flyscreen

Air flow

Diameter	at 2 Pa - m³/h
ø 95 mm	18,4
ø 115 mm	26,9
ø 145 mm	42,8
ø 190 mm	73,5
ø 245 mm	93,3

Fixing

- Standard sizes with extensible brackets
- Spring clips are supplied with diameters
ø 95 mm (PVC-tube 110 mm)
ø 145 mm (PVC-tube 160 mm)



N° 381

VENTILATION GRILLE

ALUMINIUM

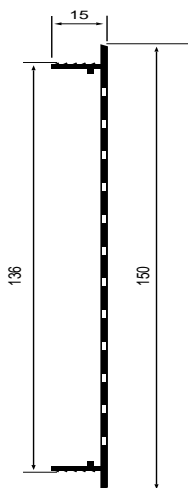
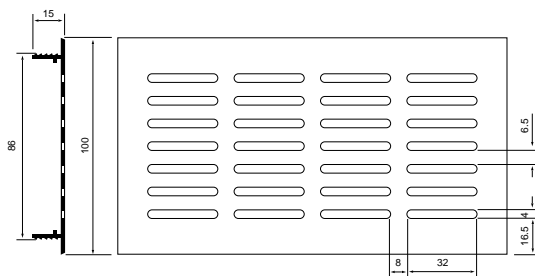
Standard sizes

	Nett free area	SAA	RAL 8022	RAL 9910	Copper	Bronze AE 6	RAL 9005
381/60							
400 mm	44 cm ²	•	•	•			
500 mm	59 cm ²	•	•	•	•		
2000 mm	244 cm ²	•	•	•			
381/80							
300 mm	43 cm ²	•	•	•		•	
400 mm	56 cm ²	•	•	•	•	•	•
500 mm	74 cm ²	•	•	•	•	•	•
600 mm	87 cm ²	•	•	•			
1000 mm	149 cm ²	•	•	•			
2000 mm	305 cm ²	•	•	•			
381/100							
300 mm	61 cm ²	•	•	•		•	
400 mm	78 cm ²	•	•	•		•	
500 mm	104 cm ²	•	•	•		•	
600 mm	122 cm ²	•	•	•			
1000 mm	209 cm ²	•	•	•			
2000 mm	427 cm ²	•	•	•			
381/130							
500 mm	149 cm ²	•	•	•			
1000 mm	298 cm ²	•	•	•			
2000 mm	610 cm ²	•	•	•			
381/150							
500 mm	179 cm ²	•	•	•			
2000 mm	732 cm ²	•	•	•			

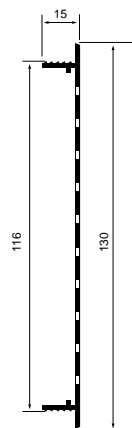
Any colour and length can be supplied subject to quantity.

Product description

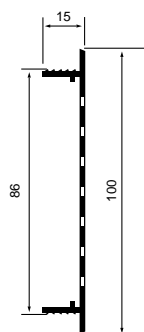
- Units are assembled from extruded sections of aluminium AlMgSi 0,5
- Ventilation opening : 32 x 4 mm
- Finishes : - satin anodised or bronze (AE6)
- powder coated white (RAL 9910) or brown (RAL 8022)
- Packing quantity : 10 per size and per colour



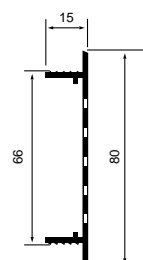
Type 381/150



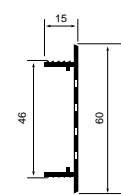
Type 381/130



Type 381/100



Type 381/80



Type 381/60

VENTILATION GRILLE

FOR SURFACE-MOUNTING, ALUMINIUM

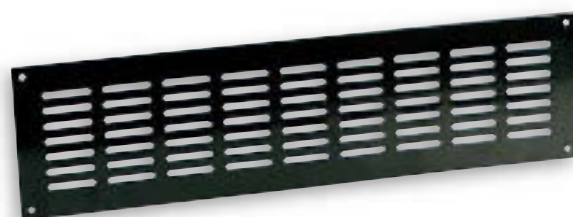
N° 382

Product description

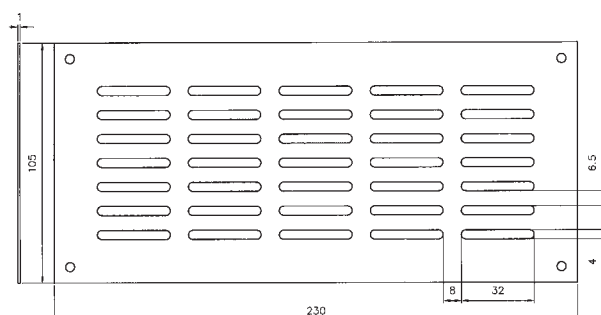
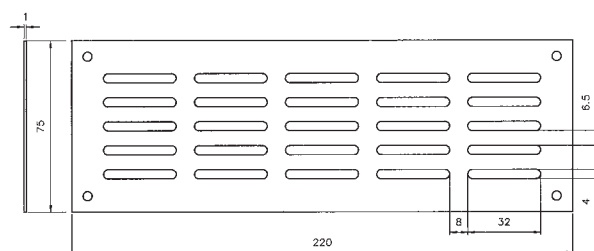
- Units from extruded sections of aluminium AlMgSi 0,5
- Ventilation opening : 32 x 4 mm
- Finishes : - satin anodised
- powder coated white (RAL 9910) or brown (RAL 8022)
- Packing quantity : 10 per size and colour

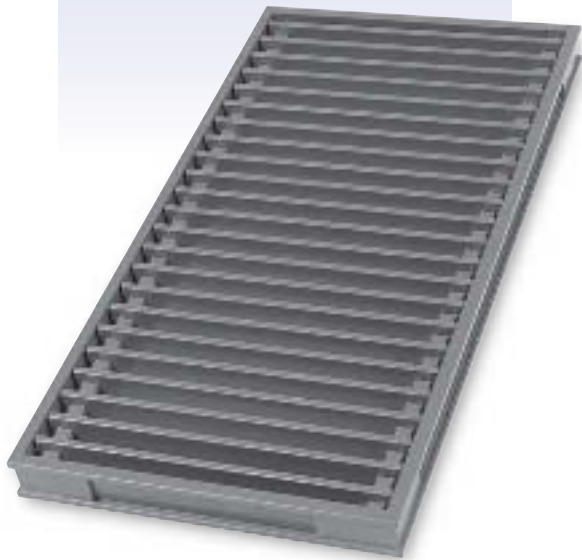
Standard sizes

Width x Height (L) (H)	free area	SAA	RAL 8019	RAL 9910
220 x 75 mm	31 cm ²	•	•	•
300 x 75 mm	43 cm ²	•	•	•
380 x 75 mm	56 cm ²	•	•	•
230 x 105 mm	43 cm ²	•	•	•
310 x 105 mm	61 cm ²	•	•	•
390 x 105 mm	78 cm ²	•	•	•



49





- All louvres are manufactured to your specific requirements

Product description

Core

- Units are assembled from extruded sections of aluminium AlMgSi 0,5
- Standard 4 mm wide bars on 12.5 mm centres
- Finishes : satin, champagne, bronze or gold anodised RAL colors
- Manufactured in multiple sections of ± 1 metre
- Frame : maximum length 3,5 metre, provided with an acoustic seal strip
- Types :
 - **311/1** : Floor grilles with 'L'-frame style
 - **311/2** : Floor grilles with 'Z'-frame style
 - **311/3** : Floor grilles without frame (core style)
- Free area : 80 %
- Effective width equals total width minus 50 mm

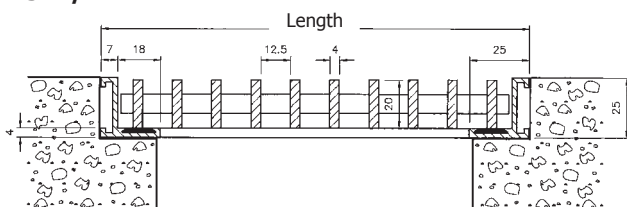
Frame

- The frame is assembled from a 'L' or 'Z' shaped profile
- A gasket lining the frame guarantees a reduced noise level
- Frames with core are supplied with dowels

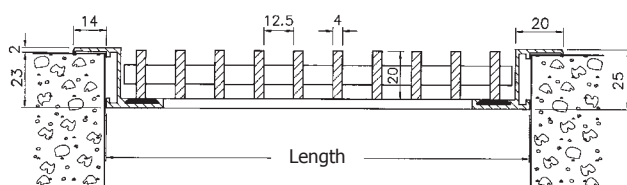
Fixing

- Grille supplied with dowels

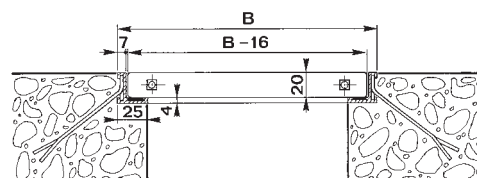
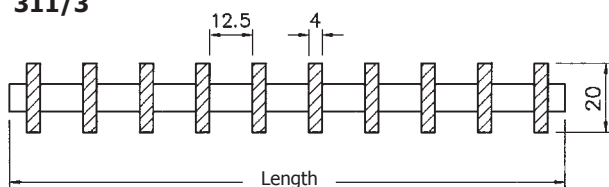
311/1



311/2



311/3



FLOOR GRILLE

HEAVY DUTY SERIES, ALUMINIUM

N° 371

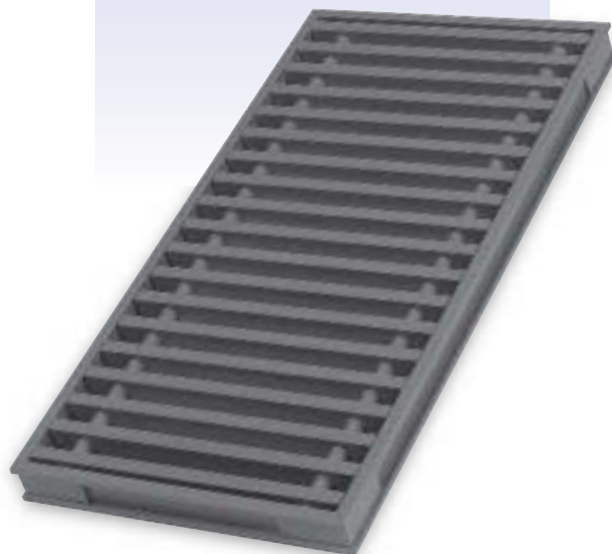
- All louvres are manufactured to your specific requirements

Product description

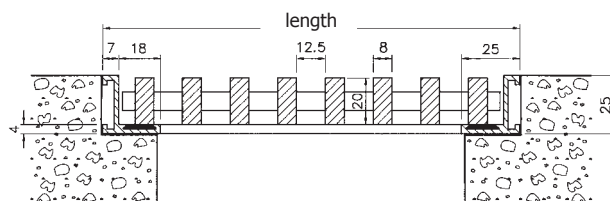
- Units are assembled from extruded sections of aluminium AlMgSi 0,5
- Standard 8 mm wide bars on 12.5 mm centres
- Finishes : - satin, champagne or gold anodised (20 micron)
- powder coated (RAL 60 - 70 microns)
- Manufactured in multiple sections of ± 1 metre
- Frame : maximum length 3,5 metre, provided with an acoustic seal strip
- Types : - 371/1 : Floor grilles with 'L'-frame style
- 371/3 : Floor grilles without frame (core only)

Applications

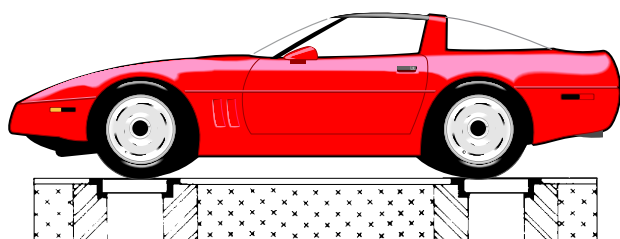
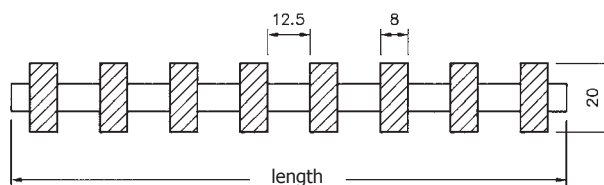
- Grilles for drains in swimming pools, basement car parks, abattoirs, etc.
- To cover the underground cabling in computer rooms



Type 371/1



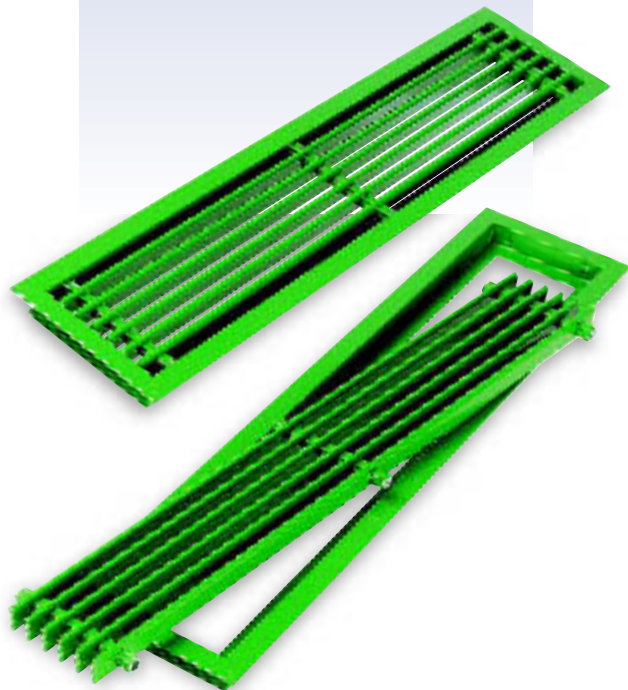
Type 371/3



N° 392

LINEAR BAR GRILLE

WITH DEFLECTION, ALUMINIUM



■ All louvres are manufactured to your specific requirements

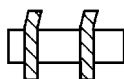
Product description

- Units are assembled from extruded sections of aluminium AlMgSi 0,5 : 16 x 3 mm
- Finishes : - satin, champagne, bronze or gold anodised
- any colour from the RAL-range
(60 - 70 microns)
- Maximum width : 300 mm
- Core : maximum length : 1600 mm
- Frame : maximum length : 3500 mm
- Types :
 - 392/2 : Linear bar grilles with narrow 'Z'-frame style
 - 392/3 : Linear bar grilles without frame (core only)
- Standard 3 mm wide bars on 10 mm centres
- Bars with 15° deflection
- Free area of 75%

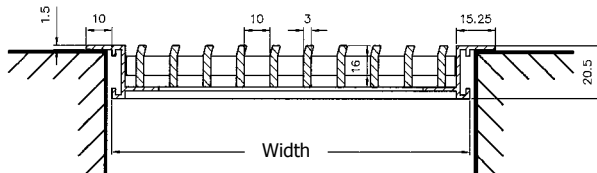
Fixing

- For type 392/3 clips in PVC are available on demand

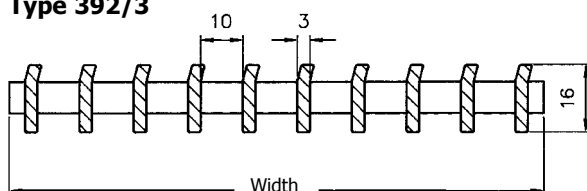
52



Type 392/2



Type 392/3



LINEAR BAR GRILLE

WITH DEFLECTION, ALUMINIUM

N° 393

■ All louvres are manufactured to your specific requirements

Maximum width : 300 mm

- Core : maximum length : 1600 mm
- Frame : maximum length : 3,5 metres
- Types :
 - 393/1 : Linear bar grilles with 'L'-frame style
 - 393/2 : Linear bar grilles with narrow 'Z'-frame style
 - 393/3 : Linear bar grilles without frame (core only)

Product description

Core

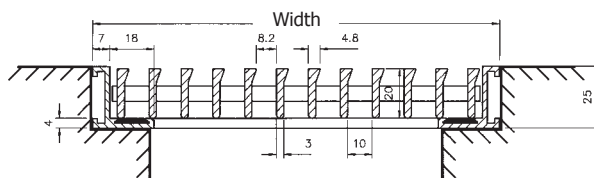
- Units are assembled from extruded sections of aluminium AlMgSi 0,5
- Dimension blades : 20 x 3 mm (top : 4.8 mm)
- Standard 4,8 mm wide bars (on top) on 10 mm centres
- Standard with 20° deflection
- Finishes : - satin, champagne, bronze or gold anodised
- any colour from the RAL-range
(60 - 70 microns)
- Free area of 75%
- Effective width equals total width minus 50 mm

Frame

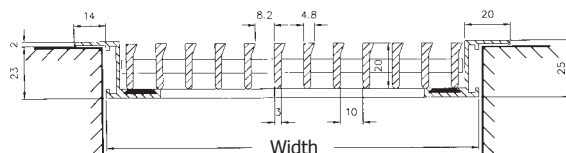
- The frame is assembled from a 'L' or 'Z' shaped profile
- A gasket lining the frame guarantees a reduced noise level
- Frames with core are supplied with dowels



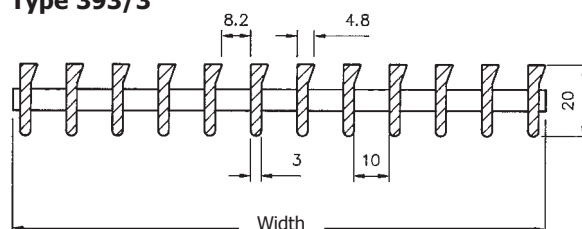
Type 393/1



Type 393/2



Type 393/3



N° 394

LINEAR BAR GRILLE

SELF ASSEMBLY, ALUMINIUM

Also delivered made to measure

Product description

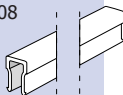
- Units are assembled from extruded sections of aluminium AlMgSi 0,5
- Finishes : - satin, champagne, bronze or gold anodised
- any colour from the RAL-range
(60 - 70 microns)
- Powder coated RAL 9910 or RAL 8019
- Quick assembly
- Free area : 58 %
- Bar length fin : 3000 mm
- Width clip section : 200 mm

N° of clips sections/length

- 300 - 400 mm = 2 n°
- 500 - 800 mm = 3 n°
- 900 - 1200 mm = 4 n°
- 1300 - 1600 mm = 5 n°
- 1700 - 2000 mm = 6 n°
- 2100 - 2500 mm = 7 n°
- 2600 - 3000 mm = 8 n°

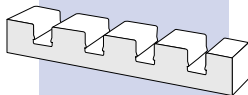
Sections

Ref. 394/08



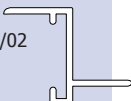
Fin :
length 3000 mm

Ref. 394/06



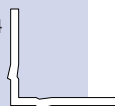
Saddle section :
L = 200 mm

Ref. 394/02



Frame profile :
length 3000 mm

Ref. 394/04

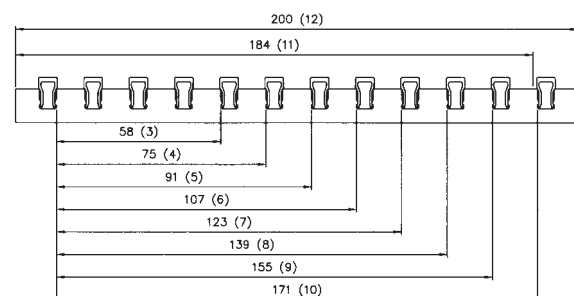
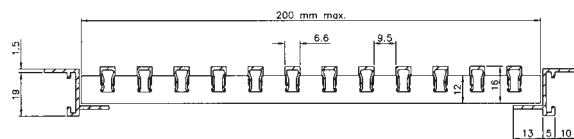


Corner Cleat for
frame profile

Ref. 394/10



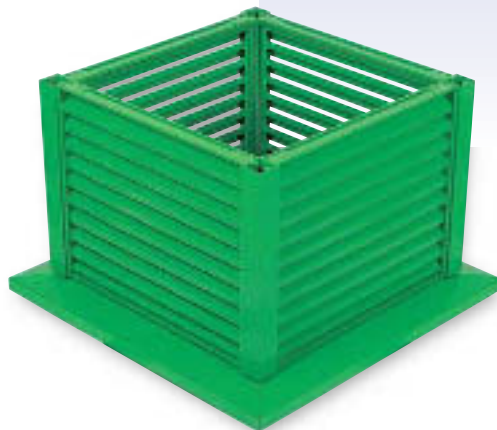
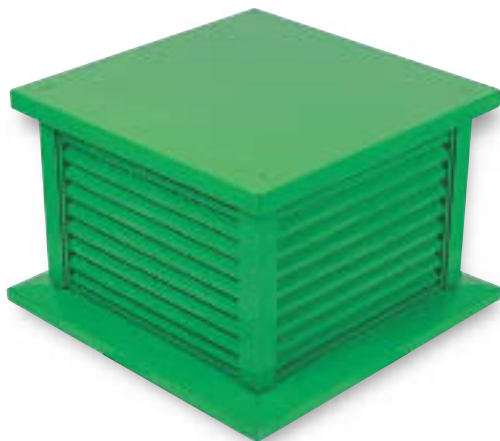
U-profile to extend
clips profile :
3000 mm lengths



LOUVRE BOX

ALUMINIUM

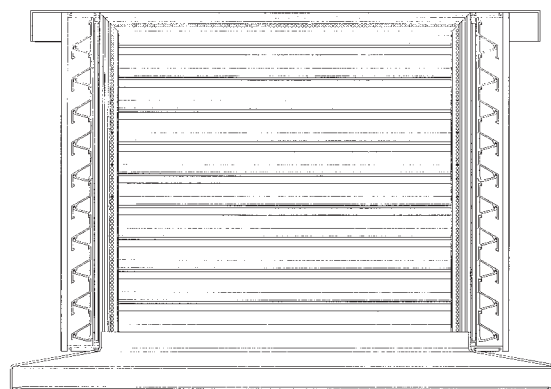
N° 440



■ All louvres are manufactured to your specific requirements

Product description

- Units are assembled from extruded sections of aluminium AlMgSi 0,5
- Finishes : - satin or bronze anodised
- any colour from the RAL-range
(RAL 60 - 70 microns)
- Types : - 440/11 : blade n° 8 of louvre type 411 (page 8)
- 440/21 : blade n° 17 of louvre type 421 (page 20)
- Finishes : - satin or bronze anodised
- any colour from the RAL-range
(RAL 60 - 70 microns)
- Available with cill section on demand (4110)
- Maximum dimensions in 1 part : 900 x 1900 x 1000 mmh
- Roof in aluminium sheet
- Acoustic version optional
- Used elements from continuous louvre system :
 - Cill n° 4140
 - Tube profile n° 4120



SELF ASSEMBLY GRILLES

ALUMINIUM



■ These louvre grilles may be easily self assembled to meet your own specifications. They require a minimum of sections and accessories.

■ Units are assembled from extruded sections of aluminium AlMgSi 0,5

■ Sections are available in following finishes : satin and bronze anodised, white powder coated, mill finish and all colours from the RAL range.

■ An insect screen or bird mesh screen may be fitted to the back of each louvre with a PVC U-gasket.

STANDARD SERIES

NR.411 - NR.414 - NR.412 - NR.415 - NR.431

HEAVY DUTY SERIES

NR.421 - NR.422 - NR.424 - NR.428

EXTRA HEAVY DUTY SERIES

NR.425 - NR.451

ASSEMBLY INSTRUCTIONS :

FOR ASSEMBLY AN OPTIMISATION DISKETTE (WINDOWS) IS AVAILABLE

1. Cutting to size :

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

- horizontal frame sections (10A, 15A, 26A and 110A) are not perforated
- vertical frame sections (10B, 15B, 26B and 110B) are perforated

2. Fitting the frame sections :

The horizontal (10A, 15A, 26A and 110A) and vertical (10B, 15B, 26B and 110B) frame sections are joined together with corner pieces (11B and 28).

The use of a rubber hammer is recommended.

3. Fitting the blade supports (1, 2) :

The blade fixing supports (1 and 2) should be riveted to the perforated vertical frame (10B, 15B, 26B and 110B).

Assembly should start at the top and work down.

The supports may be cut down to provide smaller supports if required.

4. Fitting the blades (8, 9) :

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 blades :

It is recommended to reinforce all louvre grilles (also No. 421 and No. 425) every 80 cm with strengthening support profile No. 23 and T-piece 14.

6. Fitting the insect screen or bird mesh screen :

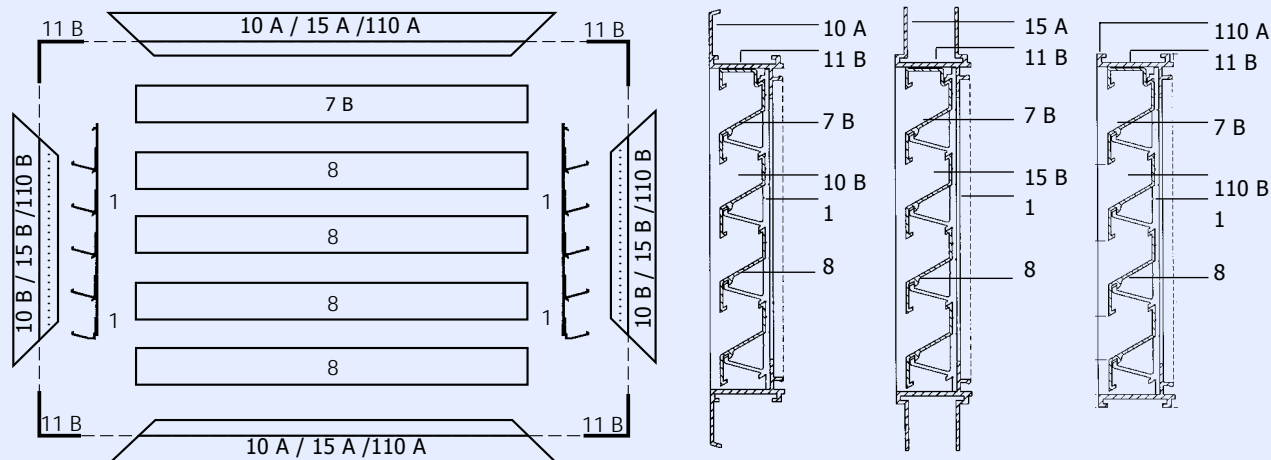
The insect screen may be fitted to the back of each louvre grille with a PVC U-gasket, which is pressed into a channel by means of a special hand roller.

7. Profile length :

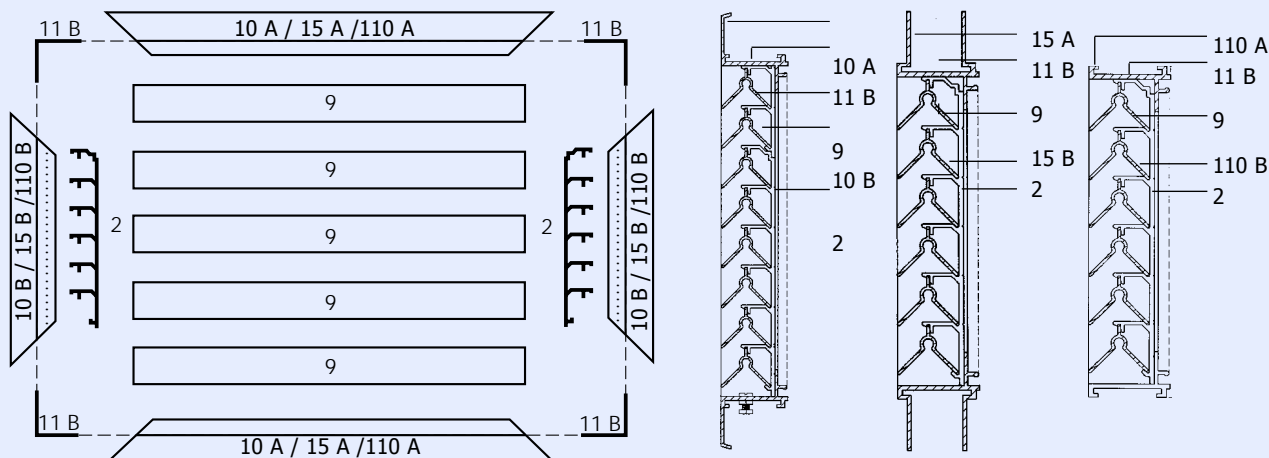
These profiles are available from stock in 3000 mm or 6000 mm.

Free optimizing disc available.

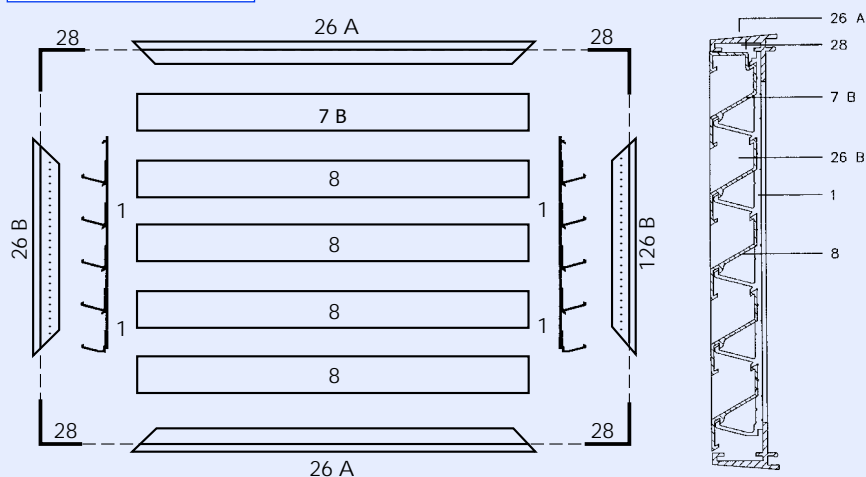
N° 411 / N° 414



N° 412 / N° 415



N° 431



**Number of blades
per metre :**

411 : 29 blades/m













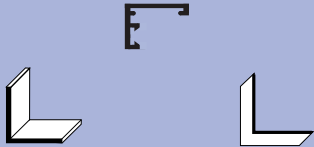
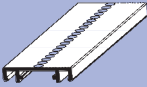

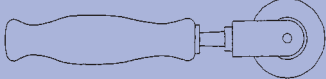
414 : 28 blades/m

412 : 49 blades/m

415 : 47 blades/m

431 : 29 blades/m

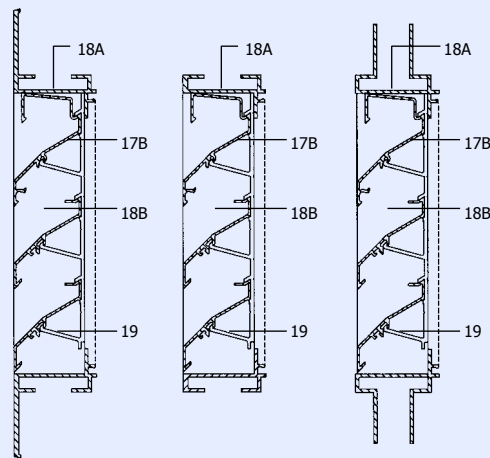
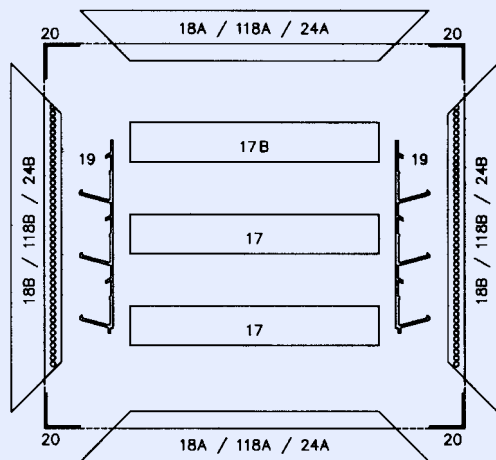
OVERVIEW OF THE ENTIRE LOUVRE GAMUT

Profile	Ref.	Description	Length	Packing quantity
	10 A	Frame profile unperforated	6.000 mm	5
	10 B	Frame profile perforated	6.000 mm	5
	110 A	Frame profile unflanged unperforated	6.000 mm	5
	110 B	Frame profile unflanged perforated	6.000 mm	5
	15 A	Frame profile 24 mm unperforated	6.000 mm	5
	15 B	Frame profile 24 mm perforated	6.000 mm	5
	12	Mullion / Transom Joint for 110 A and 110 B	6.000 mm	5
	26 A	Frame profile unperforated	6.000 mm	5
	26 B	Frame profile perforated	6.000 mm	5
	7B	Top blade	6.000 mm	10
	8	Standard blade	6.000 mm	10
	8S	Short blade	6.000 mm	10
	8L	Long blade	6.000 mm	10
	9	Chevron section blade	6.000 mm	10
	1	Standard blade support	-	100
	2	Chevron section blade support	-	100
	11 B	Corner piece for frame 10 and 15	-	100
	28 B	Corner piece for frame 26	-	100
	462	Profile for back frame	6.000 mm	5
	462/1	Flat corner cleat for back frame	-	100
	462/2	Flat corner cleat for back frame	-	100
	23	U-profile strengthening support with channel to fit screen	6.000 mm	5
	14	T-piece strengthening support	-	20
	A4200/1	Hand roller for insect mesh	-	per piece

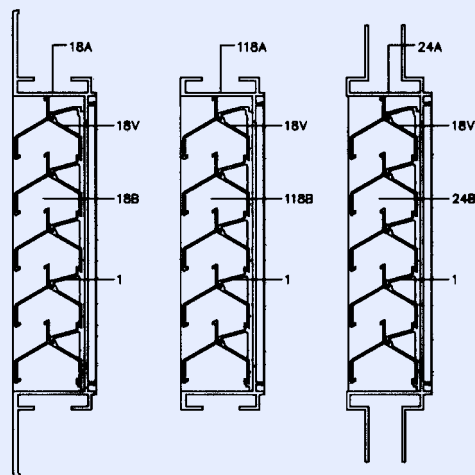
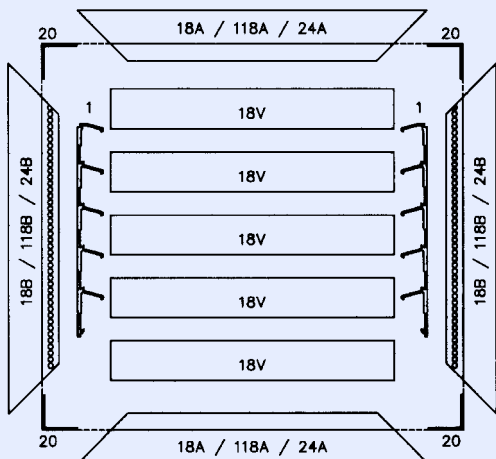
418/1 stainless steel flyscreen 10 x 1,20 m. - 418/2 stainless steel flyscreen 25 x 1,20 m.
PVC U-fixing gasket 250m.

STANDARD RANGE : N° 421 - N° 424 - N° 422 - N° 428 - N° 425 - N° 451

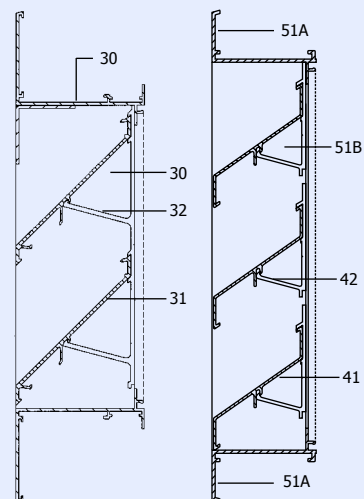
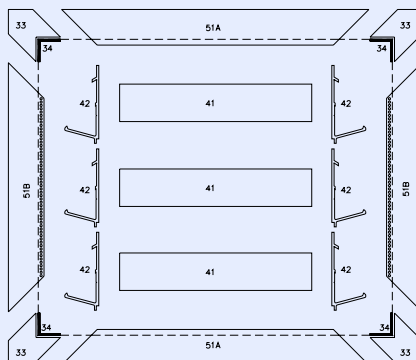
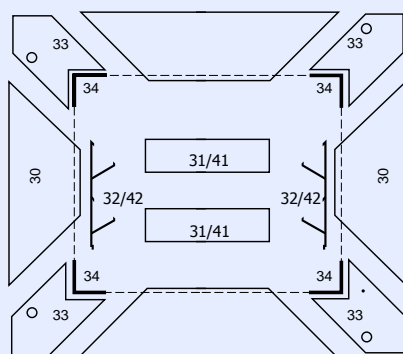
N° 421 / N° 424





















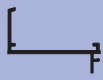

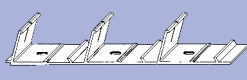

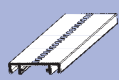

N° 422 / N° 428



N° 425 / N° 451



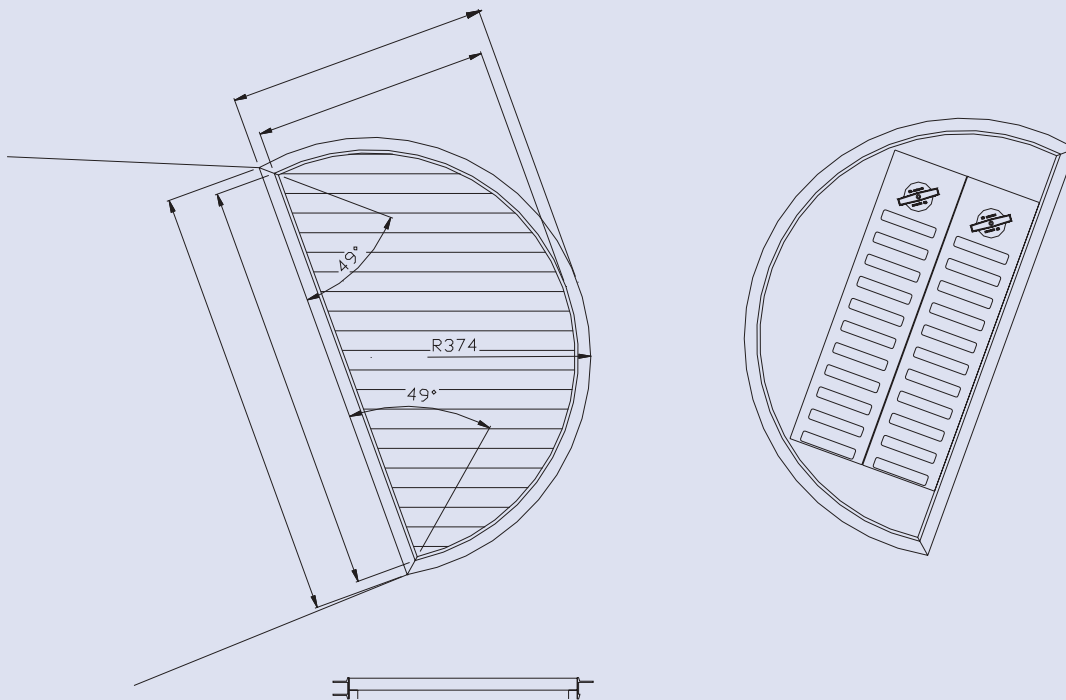
OVERVIEW OF THE ENTIRE LOUVRE GAMUT

Profile	Ref.	Description	Length	Packing quantity
	18 A	Frame profile unperforated	6.000 mm	5
	18 B	Frame profile perforated	6.000 mm	5
	24 A	Frame profile unperforated	6.000 mm	5
	24 B	Frame profile perforated	6.000 mm	5
	118 A	Frame profile unflanged unperforated	6.000 mm	5
	118 B	Frame profile unflanged perforated	6.000 mm	5
	16	Mullion / Transom joint for 118 A en 118 B	6.000 mm	5
	20	Corner piece	-	20
	21	Corner piece without screw	-	20
	17	Heavy duty blade	6.000 mm	10
	17 B	Starter blade	6.000 mm	10
	17 S	Short blade	6.000 mm	10
	18 V	Large chevron blade	6.000 mm	10
	19	Heavy duty blade support for blade 17	-	50
	1	Blade support	-	100
	30	Frame profile	6.000 mm	5
	31	Extra heavy duty blade	6.000 mm	10
	32	Blade support	-	100
	51 A 51 B	Frame profile	-	100
	41	heavy duty blade type 451	6.000 mm	100
	42	Blade support for blade 41	-	50
	34	Corner peice for frame 30	-	100
	23	U-profile strengthening support with channel to fit the insect screen	6.000 mm	5
	14	T-piece strengthening support	-	20

Profiles also available in 3 m lenghts

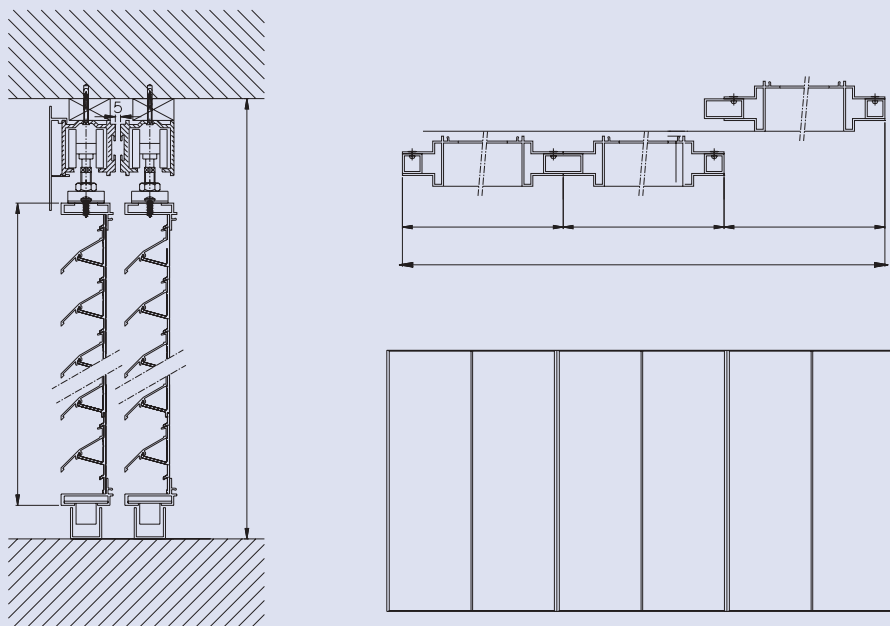
VARIANTS

Wall Louvre Nr. 411: special shape - controllable



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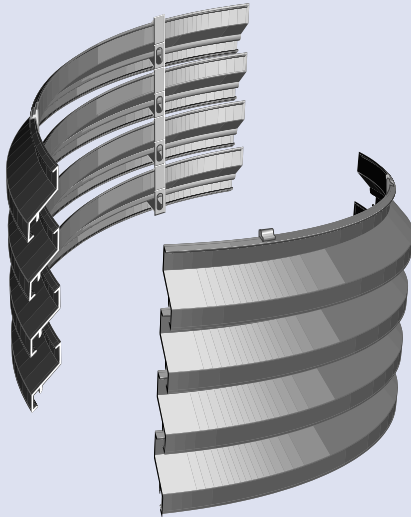
Wall Louvre Nr. 424 as sliding louvre panel



Reference picture page 5 - below on the right-side

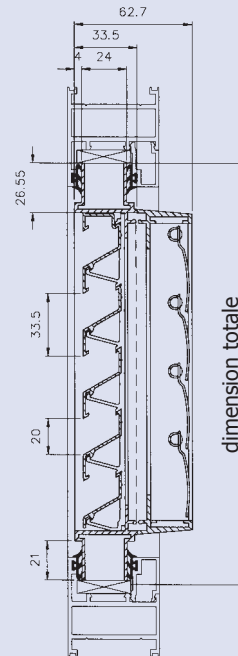
LOUVRES CURVED ON PLAN

- The blades 8 and 17 can be curved on plan
- Minimum radius 650 mm
- The blades are always powdercoated



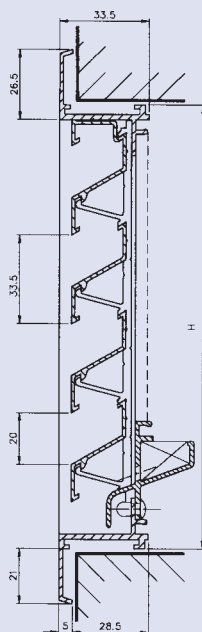
PRESSURE RELIEF GRILLE ONTO A 414 LOUVRE

- Combination of type 414 and 433 (opposite functioning)



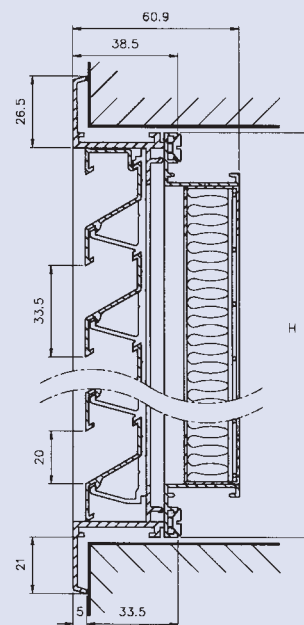
WATER CHANNEL

- Profile designed for all types (except 432 & 427)
- The profile collects water infiltration and drains it



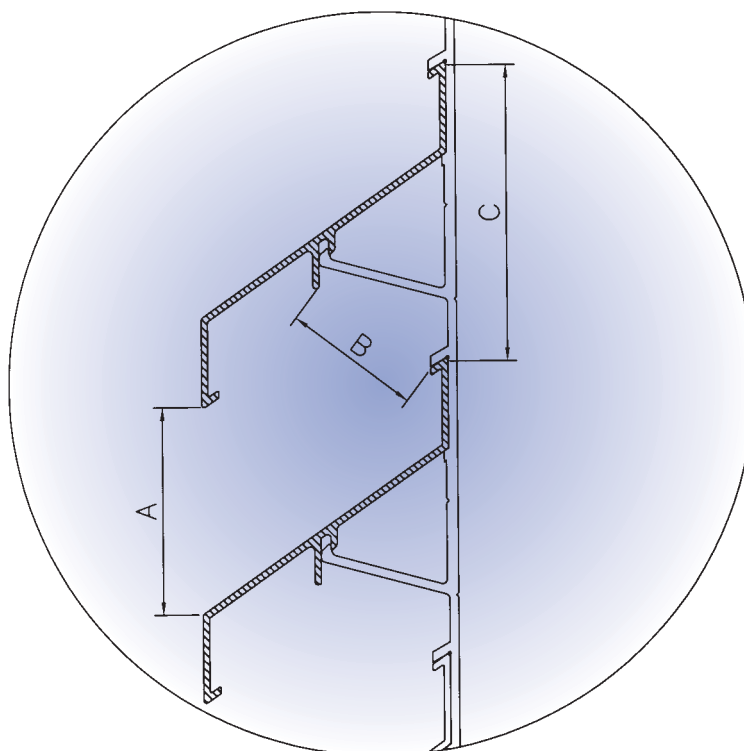
WALL LOUVRES WITH FILTER

- ALL louvres (except 431 & 432)
- Can be equipped with a dust filter



This chapter offers you assistance with selecting the ideal Renson louvre ventilation system. A few definitions, well-known in the field of natural ventilation, are explained.

- A** Face Free Area
- B** Throat Free area
- C** The pitch of the blade



Definition 1: Visual Free Area (*)

Visual Free Area is determined by the ratio between the face distance between two blades (A) and the pitch of the blade (C).

Definition 2: Physical Free Area (*)

Physical Free Area is determined by the ratio between the smallest gap between two blades (= throat) (B) and the pitch of the blade (C).

(*) Both definitions of the free area do not take into account the influence of top blades and bottom blades.

See p. 64 for table with values for different louvre types.

TYPE	Physical free area	visual free area
311	76%	76%
371	61%	61%
392	76%	76%
393	63%	63%
394	59%	59%
411	44%	53%
411 R	45%	58%
414	43%	59%
414 R	45%	58%
431	44%	59%
431 R	45%	58%
412	39%	93%
412 R	39%	93%
415	39%	93%
415 R	39%	93%
421	49%	70%
421 R	47%	70%
422	43%	60%
423	23%	70%
424	47%	70%
428	43%	60%
451	46%	69%
453	55%	69%
425	49%	86%
427	53%	88%
511	43%	61%
521	47%	68%
621	47%	68%
465	45%	74%
466	70%	70%
445	35%	77%
461	39%	93%









RENSON

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Since 1919, **RENSON** has developed concepts and products which aim at a healthy internal environment. Our new organisation consists of units specialising in natural ventilation solutions and sun shading solutions. The organisation is based upon an extensive R&D department which translates the latest market trends into products. Consequently, **RENSON** products are the industry standard and market leaders. The **RENSON** organisation is Customer Service driven. Flexibility and Client Satisfaction is based on our state of the art production facilities in new and environmentally friendly purpose-built factories and offices.

RENSON's headquarters are in Waregem, Belgium. Many sales and production units are established in Europe and worldwide.



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