

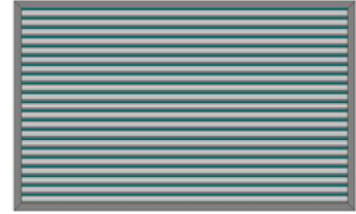


EMAIR

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EWL

Fixed blade louvre for use on external walls
Sizes from 100 x 100mm to 2500 x 2500mm
Powder coated or natural anodised finish
Manufactured from extruded aluminium sections
58 - 61mm blade spacing
Available with opposed blade damper EWLO
Frame size 38mm - 50mm available on request
Also available in a channel section frame



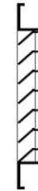
RASB

Fixed blade louvre for use on external walls
Sizes from 100 x 100mm to 2500 x 2500mm
Powder coated or natural anodised finish
Suitable for timer frame or angle sub frame mounting
Manufactured from extruded aluminium sections
Smooth blade 25mm blade spacing
Available with opposed blade damper RASBO
Frame size 32mm - 50mm available on request
Also available in a channel section frame

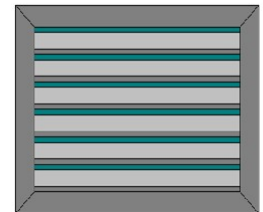
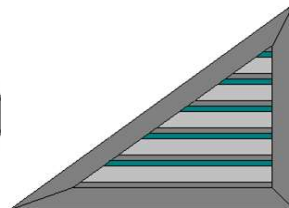
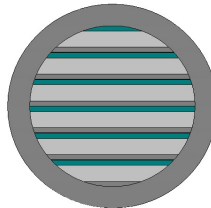
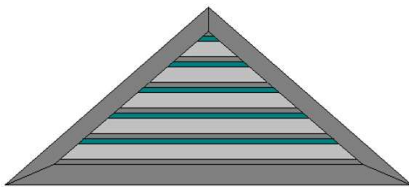


RARB

Fixed blade louvre for use on external walls
Sizes from 100 x 100mm to 2500 x 2500mm
Powder coated or natural anodised finish
Suitable for timer frame or angle sub frame mounting
Manufactured from extruded aluminium sections
Ribbed blade with 25mm blade spacing
Available with opposed blade damper RARBO
Frame size 32mm - 50mm available on request
Also available in a channel section frame



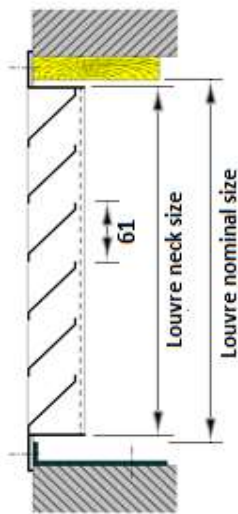
VARIOUS SHAPES AVAILABLE



Non rectangular or square shapes - powder coated finish only



FACE VELOCITY (m/s)	Inlet		Exhaust	
	pa	dB[A]	pa	dB[A]
0.50	2	<30	2	<30
0.75	4	<30	3	<30
1.00	6	<30	5	30
1.25	9	31	8	32
1.50	13	34	11	35
1.75	18	37	14	38
2.00	23	39	18	40
2.25	29	41	23	42
2.50	35	44	28	45
2.75	42	46	33	47
3.00	50	49	39	50
3.25	58	51	46	52
3.50	67	54	53	55
3.75	77	56	60	57
4.00	87	58	68	59
4.25	98	59	77	60
4.50	110	61	86	62
4.75	122	63	95	64
5.00	135	65	105	>65
5.25	149	>65	116	>65
5.50	163	>65	127	>65
5.75	178	>65	138	>65
6.00	193	>65	150	>65
6.25	209	>65	163	>65
6.50	226	>65	176	>65
6.75	244	>65	189	>65
7.00	262	>65	203	>65

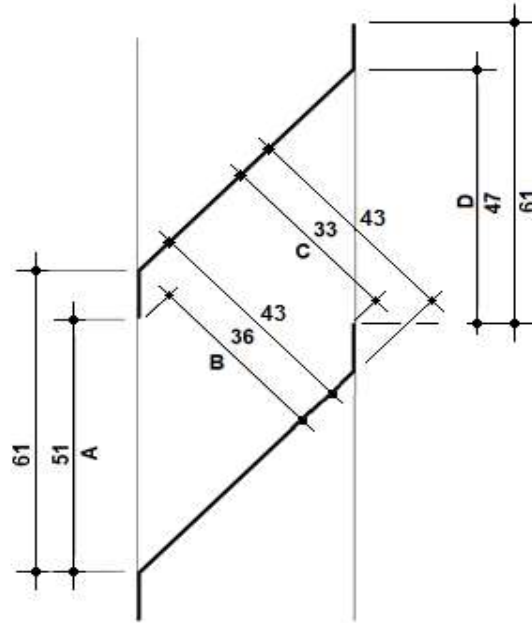
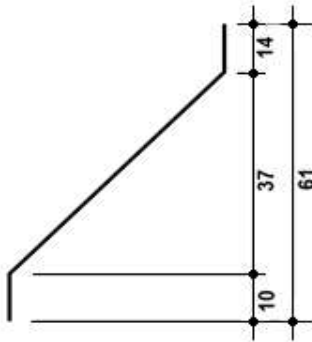


$$\text{Face area (m}^2\text{)} = \text{louvre width} - 0.015\text{m} \times \text{louvre height} - 0.061\text{m}$$

$$\text{Face Velocity (m/s)} = \frac{\text{Air volume m}^3/\text{s}}{\text{Face Area m}^2}$$

dB[A] correction values (C _f)							
face area m ²	0.2	0.5	1.0	1.5	2.0	3.0	4.0
C _f dB[A]	-7	-3	0	+2	+3	+5	+6

FREE AREA CALCULATIONS



FREE AREA

- A ≈ 83% (51 / 61)
- B ≈ 83% (36 / 43)
- C ≈ 77% (33 / 43)
- D ≈ 77% (47 / 61)

PLEASE NOTE THE ABOVE CALCULATIONS DO NOT CONSIDER THE LAST BLADE OR ANGLE OF THE FLOW THE CORRECTED AREA ONCE THE LAST BLADE AND ANGLE OF THE FLOW ARE CONSIDERED CAN BE SHOWN BY THE FOLLOWING EXAMPLES

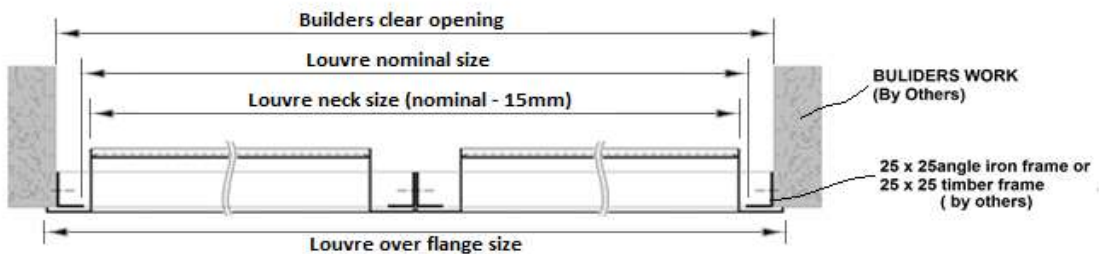
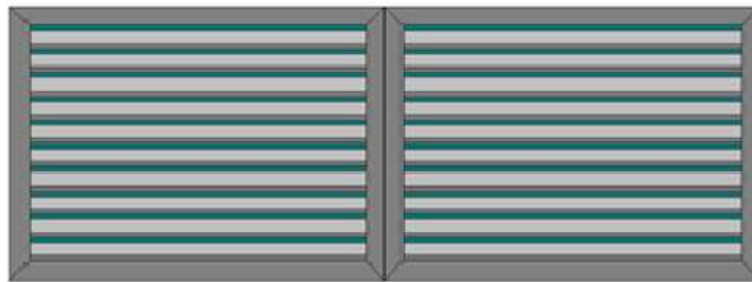
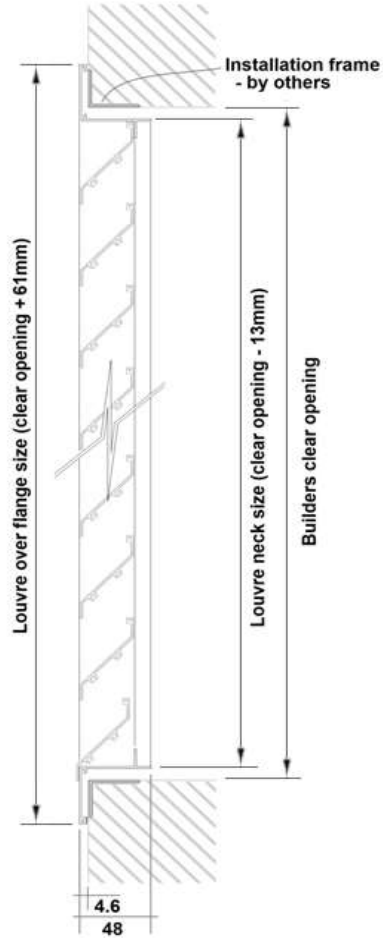
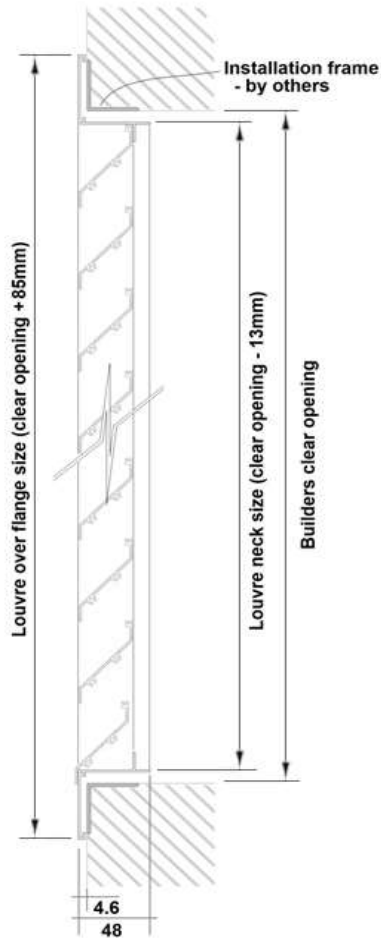
LOUVRE NECK HEIGHT	No of Blades	GEOMETRIC FREE AREA (m) / m LENGTH			
		A	B	C	D
Height 500	8	0.357	0.252	0.231	0.329
		71.4%	50.4%	46.2%	65.8%
Height 1000	16	0.765	0.540	0.495	0.705
		76.5%	54.0%	49.5%	70.5%
Height 1500	24	1.173	0.828	0.759	1.081
		78.2%	55.2%	50.6%	72.1%
Height 2000	32	1.581	1.116	1.023	1.457
		79.1%	55.8%	51.2%	72.9%

- A = 51mm * n-1 blades
- B = 36mm * n-1 blades
- C = 33mm * n-1 blades
- D = 47mm * n-1 blades

THE ABOVE FREE AREAS GIVEN ARE THE **GEOMETRIC** FREE AREAS - OUR SELCTION CHARTS USE THE **EFFECTIVE** FREE AREA WHICH CONSIDER THE MAXIMUM VELOCITIES BETWEEN THE BLADES OF EXTERNAL LOUVRES FOR ALL CALCULATIONS

XWL50 - 50mm Frame

XWL38 - 38mm Frame



ORDERING SIZE = NOMINAL SIZE WIDTH X HEIGHT