

Acoustic Louver

Type and Ranges

Low Performance - L150

S-LVt-150T50: L150 mm, Blade thickness 50mm

S-LVt-150T100: L150 mm, Blade thickness 100mm

Midle Performance - L300

S-LVt-300T50: L300 mm, Blade thickness 50mm

S-LVt-300T100: L300mm, Blade thickness 100mm

High Performance - L600

S-LVt-600T50: L600 mm, Blade thickness 50mm

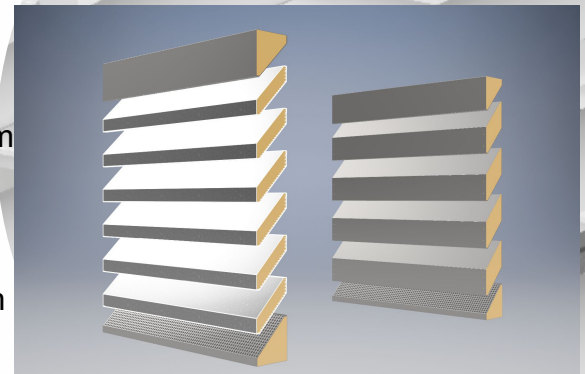
S-LVt-600T100: L600mm, Blade thickness 100mm

Standard Materials:

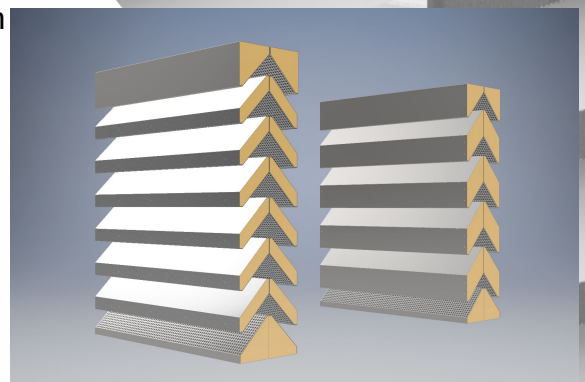
- Body GI Steel, thickness 1.5mm
- Glass Wool, Density 48kg/m³
- Glass fabric fiber, black color, Density 162kg/m²
- GI Perforated plate, thickness 0.58mm

Additional and Optional:

- *Stainless steel insect net, 5*5 -Optional*
- *High Anti-Corrosstion body steel (Z.A.M) - Optional*
- *High Anti-Corrosstion perforated plate (Z.A.M) - Optional*
- *Powder coating - Optional*



Model: S-LSt



Model: S-LVt

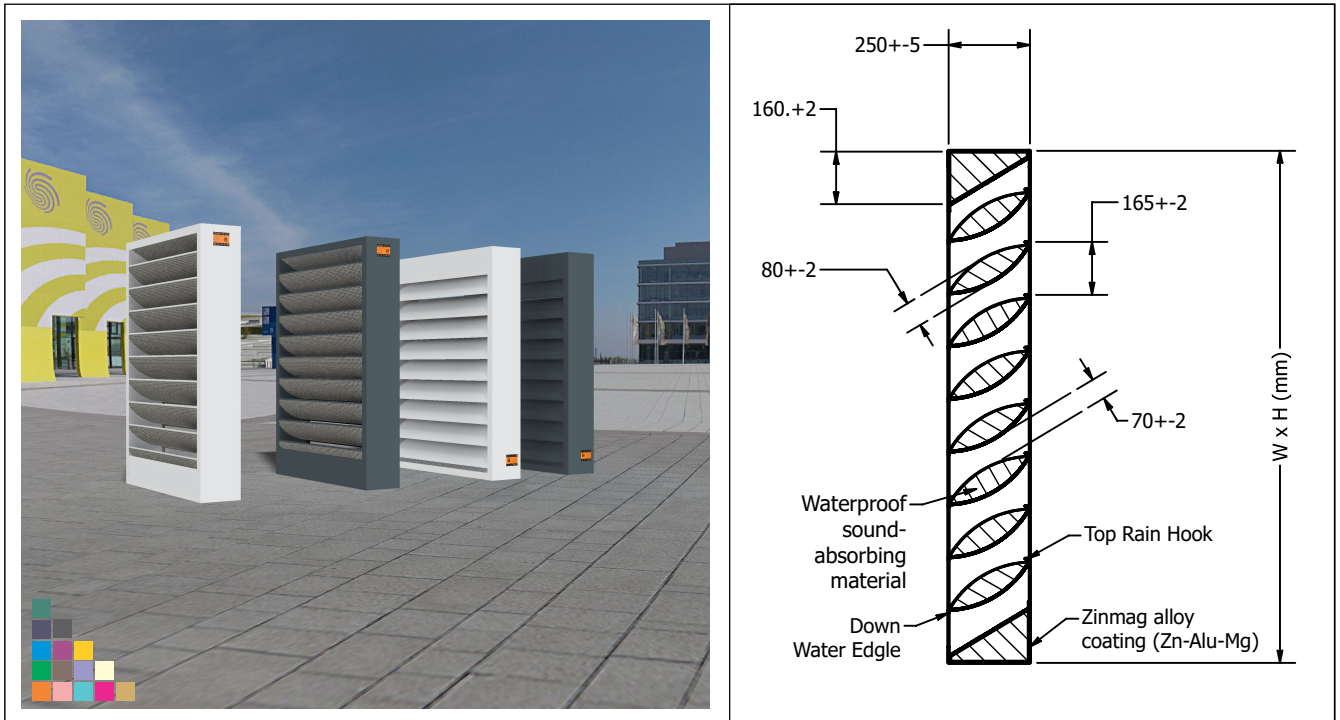
“t” Blade Louvres - Sound Transmission Loss (dB)

S-LVt

Octave Band Centre Frequency, Hz	Louvre Depth (mm)	63	125	250	500	1k	2k	4k	8k
S-LSt-150T50	150	4	4	5	8	12	16	15	13
S-LSt-300T50	300	5	6	8	11	18	25	20	16
S-LSt-300T100	300	5	6	7	9	13	15	14	12
S-LVt-300T50	300	5	5	8	13	22	30	29	23
S-LVt-600T50	600	7	8	13	19	33	39	37	30
S-LVt-600T100	600	6	9	13	15	25	29	27	24



Oval Blade Acoustic Louver MODEL: S-LVo-250



Size and Weight *(Base on deep 100 mm - Others size please contact NSCA)*

- Weight : 40 kg/m²

- Max Width: 1200

- Max Height : 3500 mm

(Can change by customer's requirement)

Acoustic Performance

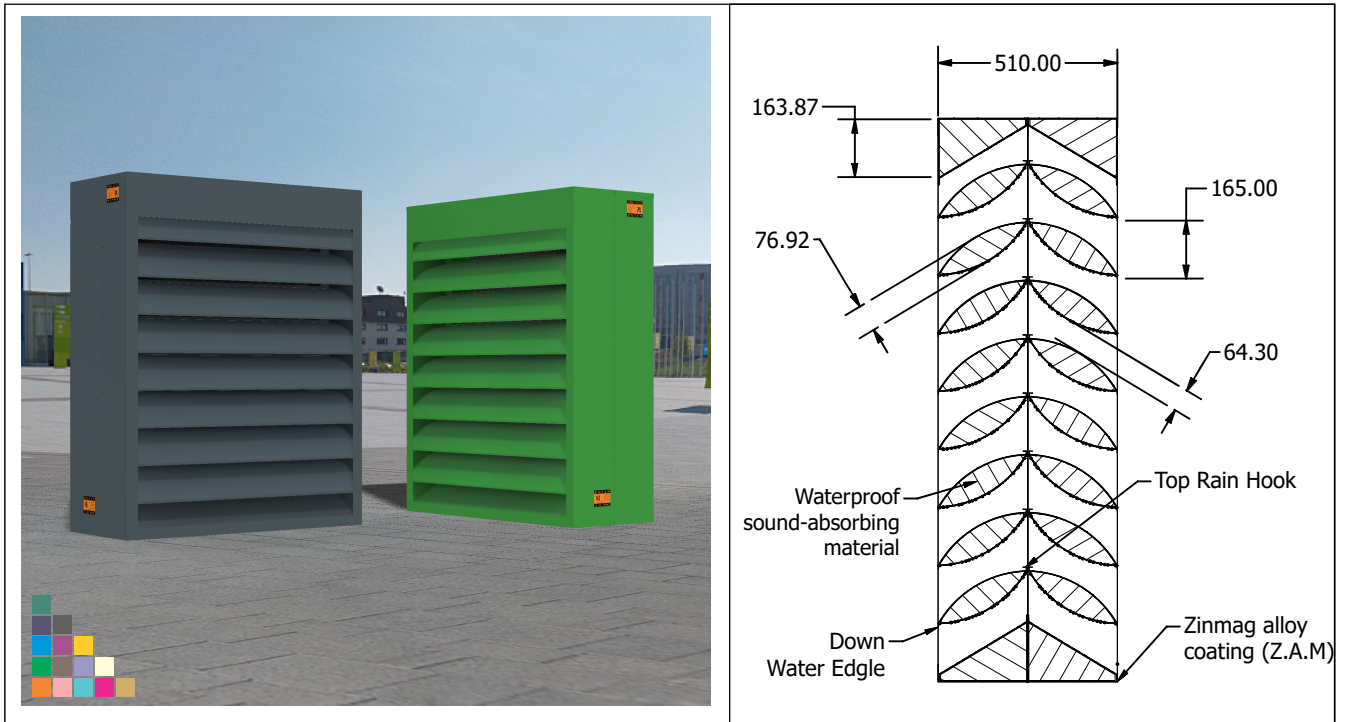
Octave Band Centre Frequency (Hz)	62.5	125	250	500	1k	2k	4k	8k
Transmission Loss (dB)	5	7	11	12	13	14	12	9
Acoustic Rating	14 - 21 dB							

Aerodynamic Performance

Static Pressure Drop (N/m ²)	10	20	30	40	50	60	70	80	90	100
Face Velocity (m/s)	0.98	1.39	1.71	1.95	2.18	2.39	2.06	2.75	2.93	3.10
Nominal Free Area	43% (Average over louvre depth)									
Cd	0.239									



Oval Blade Acoustic Louver MODEL: S-LVo-500



Size and Weight *(Base on deep 500 mm - Others size please contact NSCA)*

- Weight : 80 kg/m ²	- Max Width: 1200	- Max Height : 3500 mm
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(Can change by customer's requirement)

Acoustic Performance

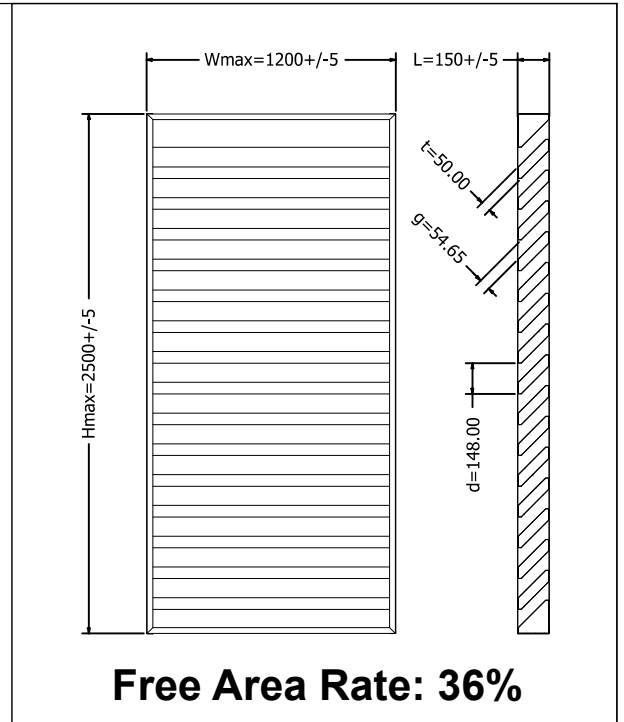
Octave Band Centre Frequency (Hz)	62.5	125	250	500	1k	2k	4k	8k
Transmission Loss (dB)	6	12	15	21	24	27	25	20
Acoustic Rating	24- 31 dB							

Aerodynamic Performance

Static Pressure Drop (N/m ²)	10	20	30	40	50	60	70	80	90	100
Face Velocity (m/s)	0.07	1.07	1.21	1.39	1.55	1.68	1.79	1.89	2.01	2.13
Nominal Free Area	43% (Average over louvre depth)									
Cd	0.17									



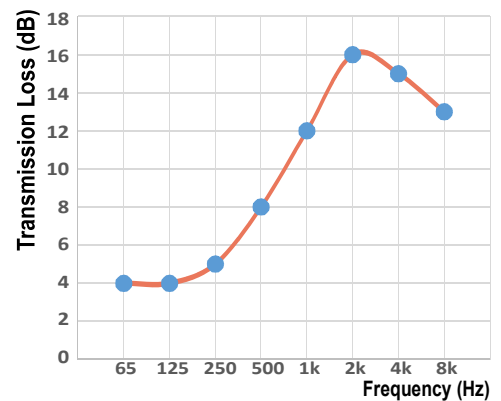
Flat Blade Acoustic Louver MODEL: S-LSt-150T50



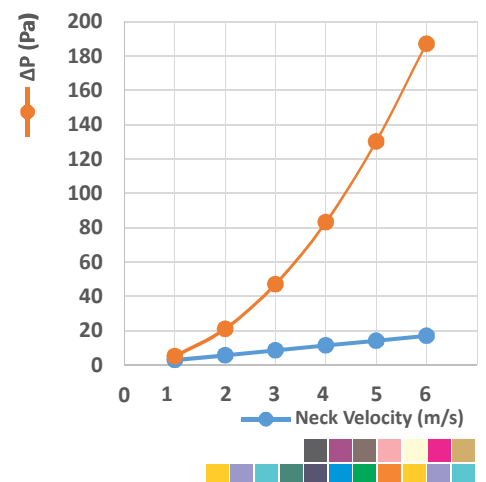
Size and Weight <i>(Base on deep 100 mm - Others size please contact NSCA)</i>		
- Weight : 28 kg/m ²	- Max Width: 1200	- Max Height : 2500 mm

(Can change by customer's requirement)

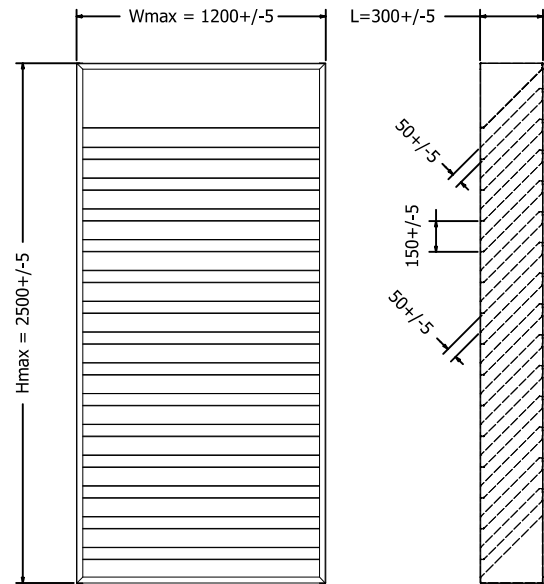
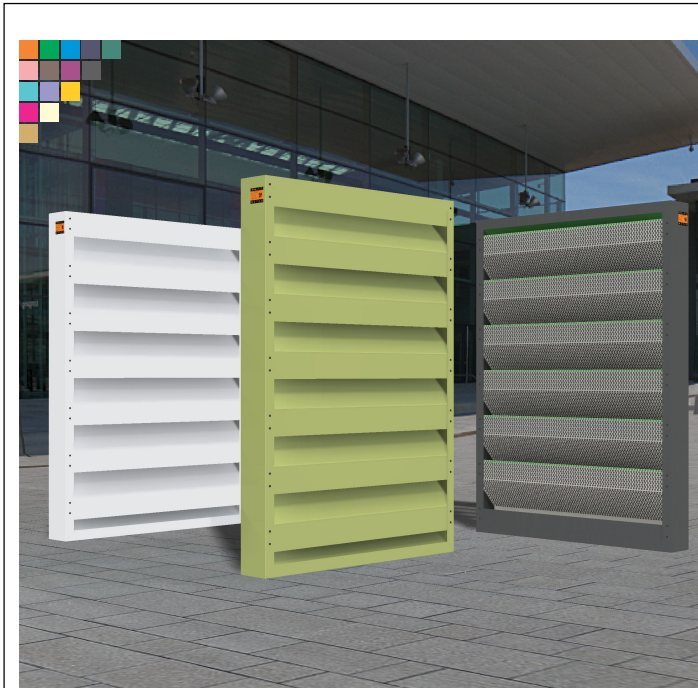
Acoustic Performance								
Octave Band Centre Frequency (Hz)	62.5	125	250	500	1k	2k	4k	8k
Transmission Loss (dB)	4	4	5	8	12	16	15	13
Acoustic Rating	14-21 dB							



Aerodynamic Performance						
Neck Velocity (m.s)	1.00	2.00	3.00	4.00	5.00	6.00
Face Velocity (m/s)	2.82	5.64	8.45	11.27	14.09	16.91
Air Volume Q (m ³ /h)	10,535	21,070	31,605	42,140	52,675	63,210
Static Pressure drop ΔP (Pa)	(5)	(21)	(47)	(83)	(130)	(187)
Cd	0.225					



Flat Blade Acoustic Louver MODEL: S-LSt-300T50



Free Area Rate: 31%

Size and Weight (Base on deep 100 mm - Others size please contact NSCA)

- Weight : 52 kg/m²

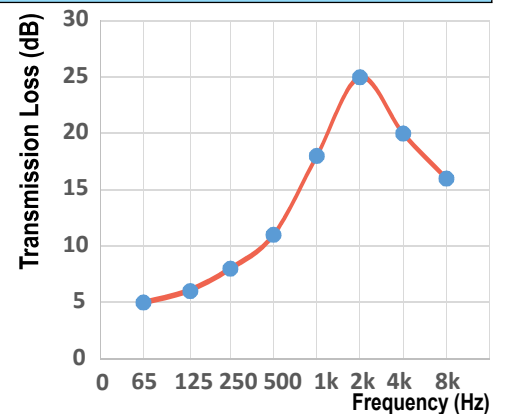
- Max Width: 1200

- Max Height : 2500 mm

(Can change by customer's requirement)

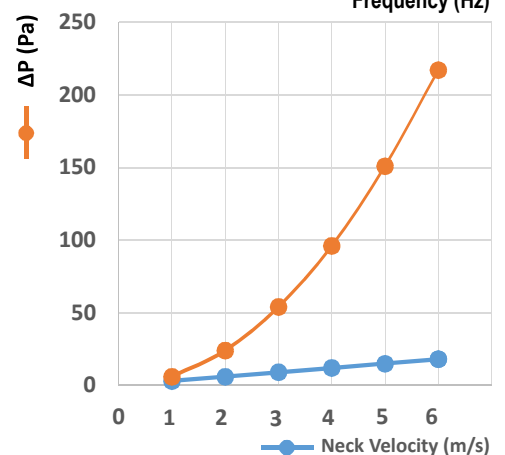
Acoustic Performance

Octave Band Centre Frequency (Hz)	62.5	125	250	500	1k	2k	4k	8k
Transmission Loss (dB)	5	6	8	11	18	25	20	16
Acoustic Rating	27-33 dB							



Aerodynamic Performance

Neck Velocity (m/s)	1.00	2.00	3.00	4.00	5.00	6.00
Face Velocity (m/s)	3.01	6.01	9.02	12.02	15.03	18.04
Air Volume Q (m ³ /h)	10,535	21,070	31,605	42,140	52,675	63,210
Static Pressure drop ΔP (Pa)	(6)	(24)	(54)	(96)	(151)	(217)
Cd	0.127					



Flat Blade Acoustic Louver MODEL: S-LSt-300T100

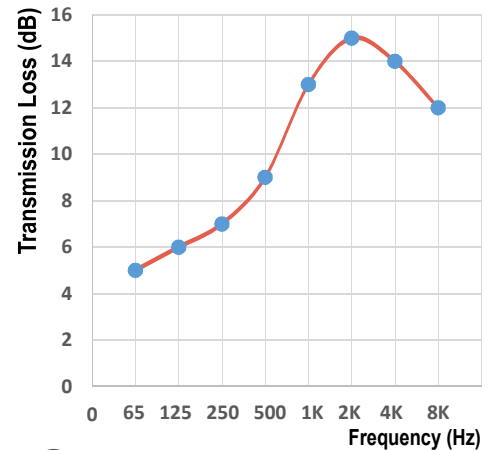


Size and Weight *(Base on deep 100 mm - Others size please contact NSCA)*

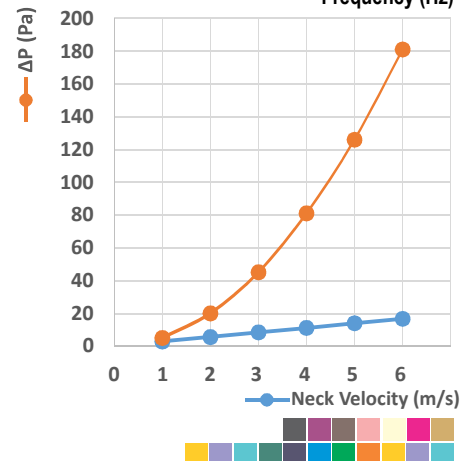
- Weight : 40kg/m ²	- Max Width: 1200	- Max Height : 2500 mm
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(Can change by customer's requirement)

Acoustic Performance								
Octave Band Centre Frequency (Hz)	62.5	125	250	500	1k	2k	4k	8k
Transmission Loss (dB)	5	6	7	9	13	15	14	12
Acoustic Rating	14-21dB							



Aerodynamic Performance						
Neck Velocity (m.s)	1.00	2.00	3.00	4.00	5.00	6.00
Face Velocity (m/s)	2.78	5.56	8.34	11.11	13.89	16.67
Air Volume Q (m ³ /h)	10,535	21,070	31,605	42,140	52,675	63,210
Static Pressure Drop ΔP (Pa)	(5)	(20)	(45)	(81)	(126)	(181)
Cd	0.127					



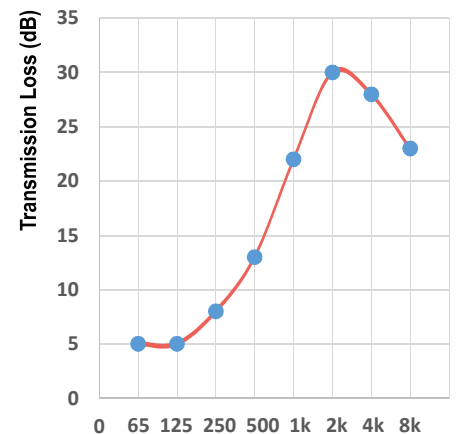
Flat Blade Acoustic Louver MODEL: S-LVt-300T50



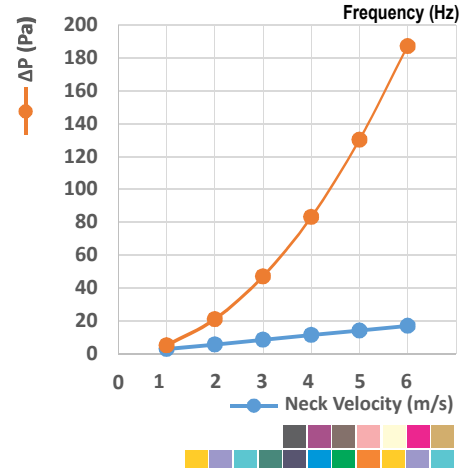
Size and Weight <i>(Base on deep 100 mm - Others size please contact NSCA)</i>		
- Weight : 52kg/m ²	- Max Width: 1200	- Max Height : 2500 mm

(Can change by customer's requirement)

Acoustic Performance								
Octave Band Centre Frequency (Hz)	62.5	125	250	500	1k	2k	4k	8k
Transmission Loss (dB)	5	5	8	13	22	30	28	23
Acoustic Rating	33-35 dB							



Aerodynamic Performance						
Neck Velocity (m.s)	1.00	2.00	3.00	4.00	5.00	6.00
Face Velocity (m/s)	2.82	5.64	8.45	11.27	14.09	16.91
Air Volume Q (m ³ /h)	10,535	21,070	31,605	42,140	52,675	63,210
Static Pressure Drop ΔP (Pa)	(5)	(21)	(47)	(83)	(130)	(187)
Cd	0.225					



Flat Blade Acoustic Louver MODEL: S-LVt-600T50

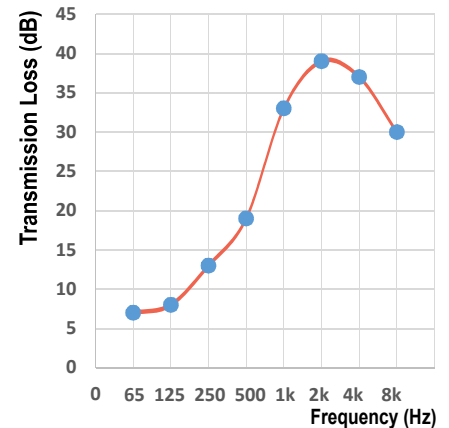


Size and Weight *(Base on deep 100 mm - Others size please contact NSCA)*

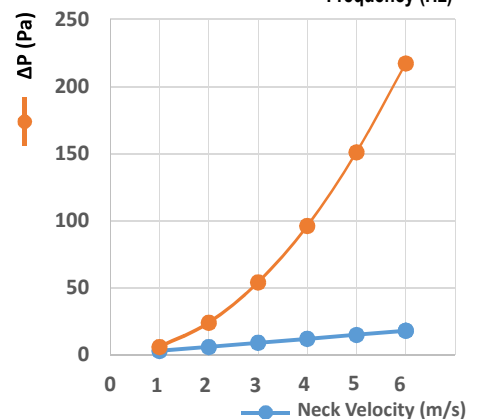
- Weight : 105 kg/m ²	- Max Width: 1200	- Max Height : 2500 mm
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(Can change by customer's requirement)

Acoustic Performance								
Octave Band Centre Frequency (Hz)	62.5	125	250	500	1k	2k	4k	8k
Transmission Loss (dB)	7	8	13	19	33	39	37	30
Acoustic Rating	40-42 dB							



Aerodynamic Performance						
Neck Velocity (m.s)	1.00	2.00	3.00	4.00	5.00	6.00
Face Velocity (m/s)	3.01	6.01	9.02	12.02	15.03	18.04
Air Volume Q (m ³ /h)	10,535	21,070	31,605	42,140	52,675	63,210
Static Pressure Drop ΔP (Pa)	(6)	(24)	(54)	(96)	(151)	(217)



Cd	0.127
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Flat Blade Acoustic Louver MODEL: S-LVt-600T100

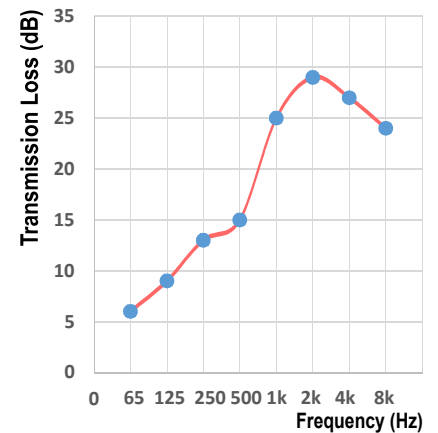


Size and Weight *(Base on deep 100 mm - Others size please contact NSCA)*

- Weight : 80 kg/m ²	- Max Width: 1200	- Max Height : 2500 mm
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(Can change by customer's requirement)

Acoustic Performance								
Octave Band Centre Frequency (Hz)	62.5	125	250	500	1k	2k	4k	8k
Transmission Loss (dB)	6	9	13	15	25	29	27	24
Acoustic Rating	33-36 dB							



Aerodynamic Performance						
Neck Velocity (m.s)	1.00	2.00	3.00	4.00	5.00	6.00
Face Velocity (m/s)	2.78	5.56	8.34	11.11	13.89	16.67
Air Volume Q (m ³ /h)	10,535	21,070	31,605	42,140	52,675	63,210
Static Pressure Drop ΔP (Pa)	(5)	(20)	(45)	(81)	(126)	(181)
Cd	0.127					

