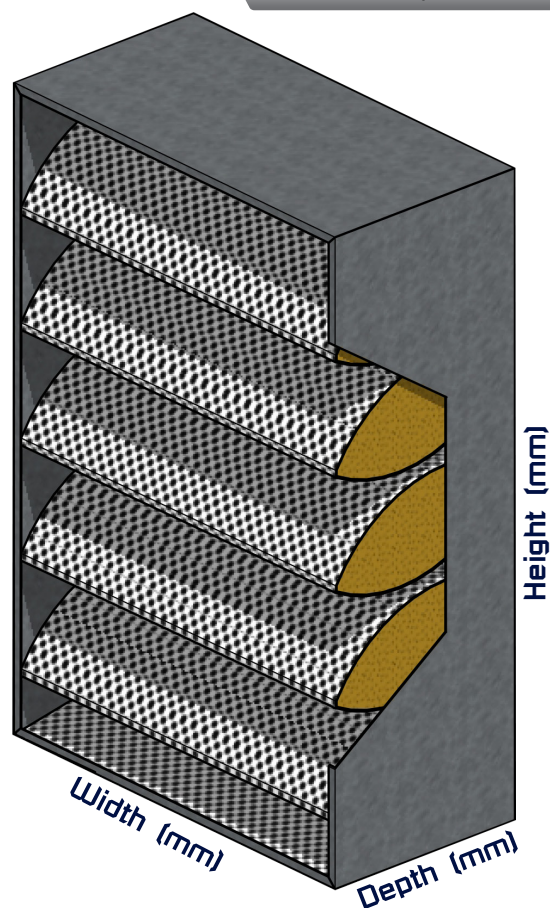


NAL10SERIES

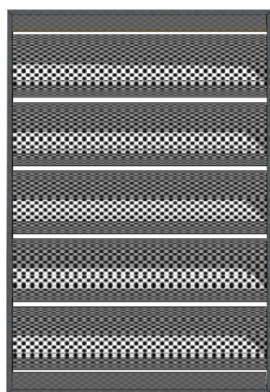
NISOLINE ACOUSTIC LOUVERS

ACOUSTIC LOUVERS BY NTi

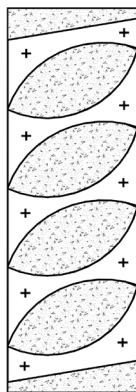
Geometric Parameters				
Model	Blade Type	Width (mm)	Height (mm)	Depth (mm)
NAL10609	Air-Foil	600	900	300
NAL10615	Air-Foil	600	1500	300
NAL10618	Air-Foil	600	1800	300
NAL10621	Air-Foil	600	2100	300
NAL10909	Air-Foil	900	900	300
NAL10915	Air-Foil	900	1500	300
NAL10918	Air-Foil	900	1800	300
NAL10921	Air-Foil	900	2100	300



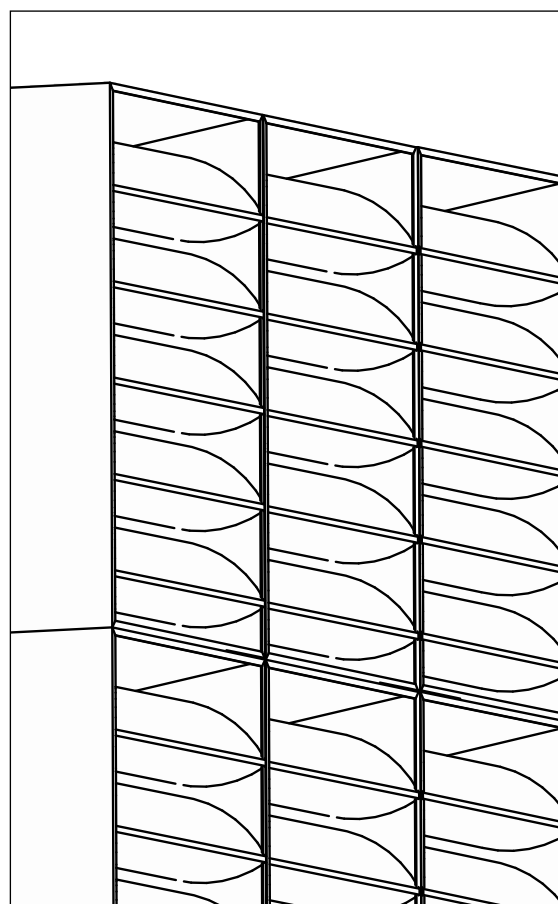
NAL 10 SERIES



Front



Side



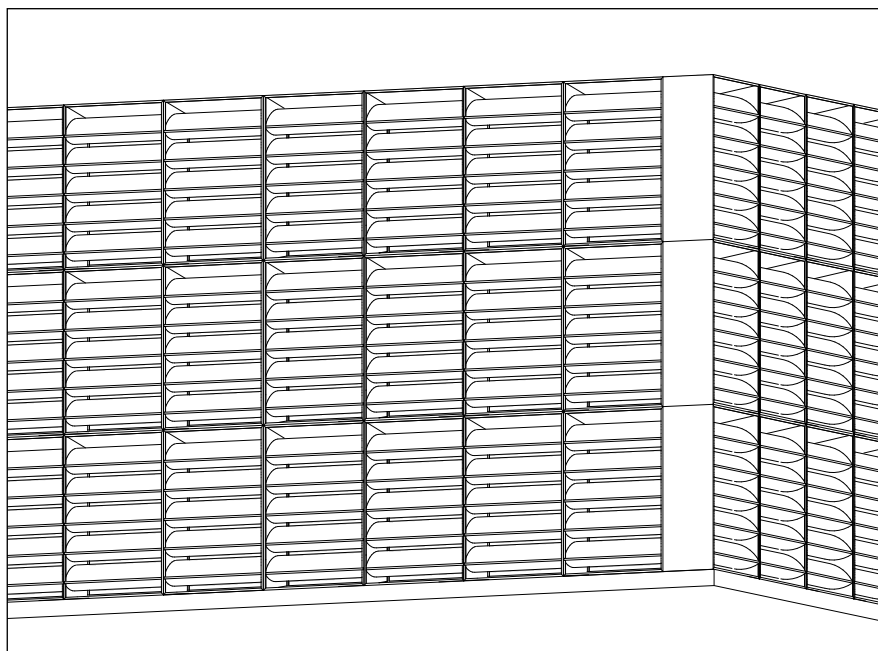
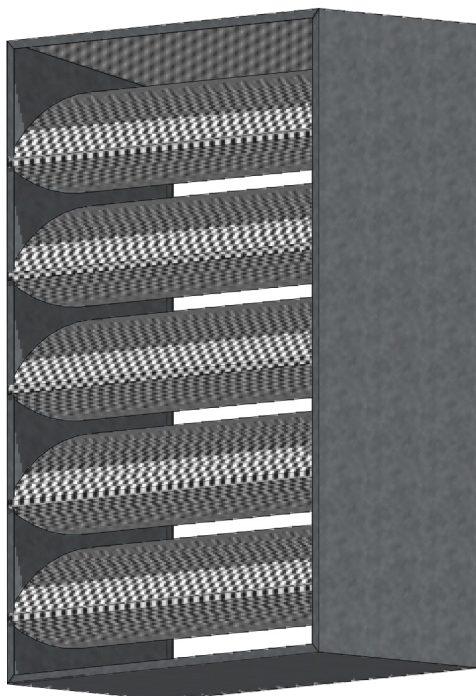
Aerodynamic Parameters		
Model	Free Area (%)	Pressure Drop (Pa)
NAL10609	22.6	176.0
NAL10615	25.2	52.6
NAL10618	27.2	30.9
NAL10621	28.7	20.3
NAL10909	22.6	78.2
NAL10915	28.5	17.5
NAL10918	27.2	13.8
NAL10921	31.1	7.5



NAL 10SERIES

NISOLINE ACOUSTIC LOUVERS

 ACOUSTIC LOUVERS BY NTi



Acoustic Parameters

Model	Noise Reduction Parameters	Octave Band Frequencies (Hz)							
		62.5	125	250	500	1,000	2,000	4,000	8,000
NAL10609	Transmission loss (TL) (dB)	14	8	5	8	23	28	18	9
	Free Field Noise Reduction (dB)	20	14	11	14	29	34	24	15
NAL10615	Transmission loss (TL) (dB)	14	9	5	9	21	36	23	12
	Free Field Noise Reduction (dB)	20	15	11	15	27	42	29	18
NAL10618	Transmission loss (TL) (dB)	14	9	5	8	23	33	21	11
	Free Field Noise Reduction (dB)	20	15	11	14	29	39	27	17
NAL10621	Transmission loss (TL) (dB)	14	9	5	8	23	31	20	10
	Free Field Noise Reduction (dB)	20	15	11	14	29	37	26	16
NAL10909	Transmission loss (TL) (dB)	12	7	3	8	24	28	18	9
	Free Field Noise Reduction (dB)	18	13	9	14	30	34	24	15
NAL10915	Transmission loss (TL) (dB)	12	6	4	10	24	26	17	8
	Free Field Noise Reduction (dB)	18	12	10	16	30	32	23	14
NAL10918	Transmission loss (TL) (dB)	12	7	3	8	24	33	21	11
	Free Field Noise Reduction (dB)	18	13	9	14	30	39	27	17
NAL10921	Transmission loss (TL) (dB)	12	6	4	9	24	25	16	8
	Free Field Noise Reduction (dB)	18	12	10	15	30	31	22	14

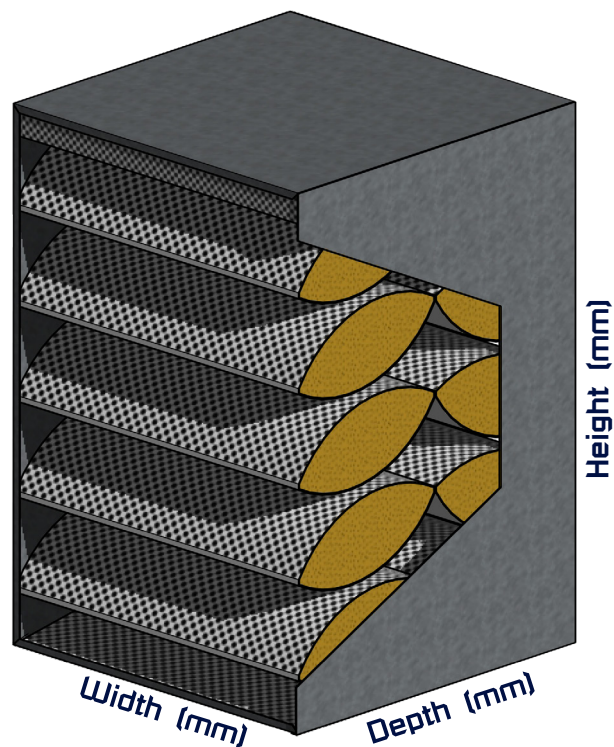


NAL 20SERIES

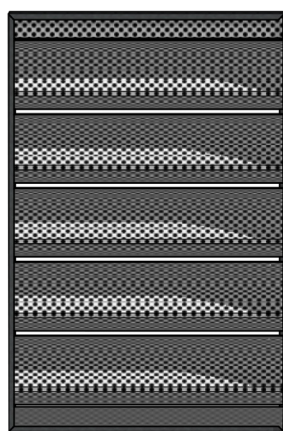
NOISOLINE ACOUSTIC LOUVERS

ACOUSTIC LOUVERS BY NTi

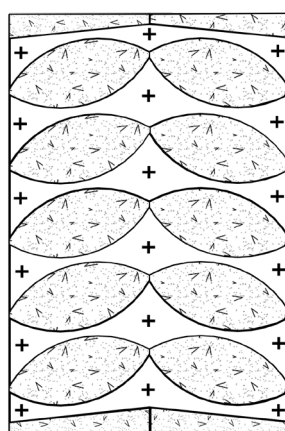
Geometric Parameters				
Model	Blade Type	Width (mm)	Height (mm)	Depth (mm)
NAL20609	Air-Foil	600	900	600
NAL20615	Air-Foil	600	1500	600
NAL20618	Air-Foil	600	1800	600
NAL20621	Air-Foil	600	2100	600
NAL20909	Air-Foil	900	900	600
NAL20915	Air-Foil	900	1500	600
NAL20918	Air-Foil	900	1800	600
NAL20921	Air-Foil	900	2100	600



NAL 20 SERIES

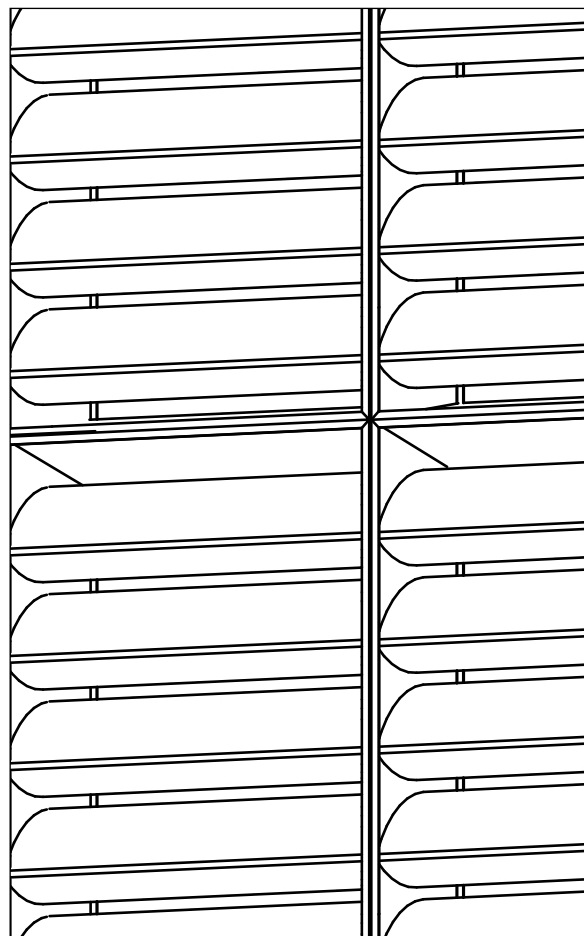


Front



Side

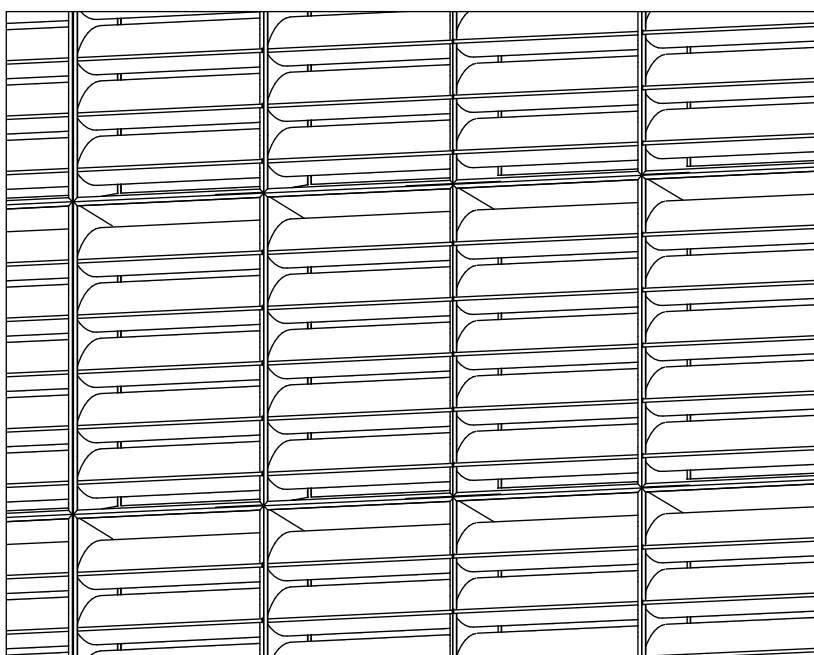
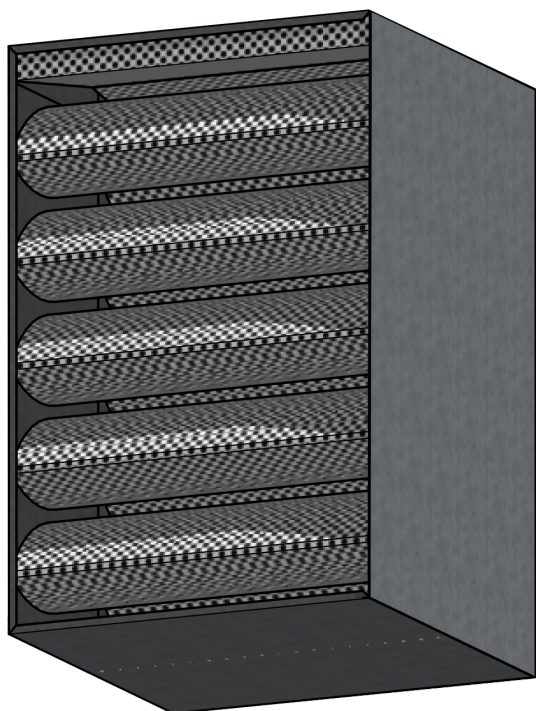
Aerodynamic Parameters		
Model	Free Area (%)	Pressure Drop (Pa)
NAL20609	28.2	203.8
NAL20615	31.9	58.4
NAL20618	32.8	38.5
NAL20621	33.4	27.2
NAL20909	22.6	149.2
NAL20915	28.5	33.4
NAL20918	27.2	26.3
NAL20921	31.1	14.3



NAL 20SERIES

NISOLINE ACOUSTIC LOUVERS

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Acoustic Parameters

Model	Noise Reduction Parameters	Octave Band Frequencies (Hz)							
		62.5	125	250	500	1,000	2,000	4,000	8,000
NAL20609	Transmission loss (TL) (dB)	12	8	9	24	44	31	21	16
	Free Field Noise Reduction (dB)	18	14	15	30	50	37	27	22
NAL20615	Transmission loss (TL) (dB)	13	9	8	20	44	40	29	19
	Free Field Noise Reduction (dB)	19	15	14	26	50	46	35	25
NAL20618	Transmission loss (TL) (dB)	13	9	8	20	44	42	29	19
	Free Field Noise Reduction (dB)	19	15	14	26	50	48	35	25
NAL20621	Transmission loss (TL) (dB)	13	9	8	20	44	44	31	20
	Free Field Noise Reduction (dB)	19	15	14	26	50	50	37	26
NAL20909	Transmission loss (TL) (dB)	12	7	6	17	44	44	40	24
	Free Field Noise Reduction (dB)	18	13	12	23	50	50	46	30
NAL20915	Transmission loss (TL) (dB)	12	7	7	21	44	44	37	23
	Free Field Noise Reduction (dB)	18	13	13	27	50	50	43	29
NAL20918	Transmission loss (TL) (dB)	13	8	6	16	44	44	44	27
	Free Field Noise Reduction (dB)	19	14	12	22	50	50	50	33
NAL20921	Transmission loss (TL) (dB)	12	7	7	20	44	44	37	22
	Free Field Noise Reduction (dB)	18	13	13	26	50	50	43	28

