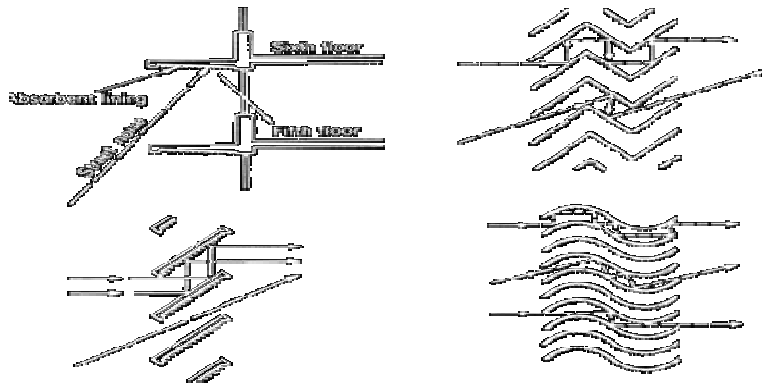


Acoustic Louvers for Air Cooling Chiller & Tower

Acoustic Louvers

ESPL' Acoustic Louver has a sound baffle designed to allow airflow through ventilation openings while reducing the radiation of noise. Typical applications for our acoustic louvers used in conjunction with machine sound enclosures, sound barrier walls and sound control rooms to allow silenced airflow. They use acoustic grade glass fiber as the principle sound-absorbing mechanism.

They are aerodynamically shaped to minimize pressure drop. Lips are designed in to the splitters to protect against weather elements. A machine sound enclosure such as compressor, genset, backup generator and well pump are all candidates for silenced ventilation using **ESPL** Acoustic Louver.



Before Treatment



After Treatment

Acoustic Louvers



Acoustic Louvers



Acoustic Louvers

SOUND MEASURING DATA

Table 1 : Sound measuring results before treatment

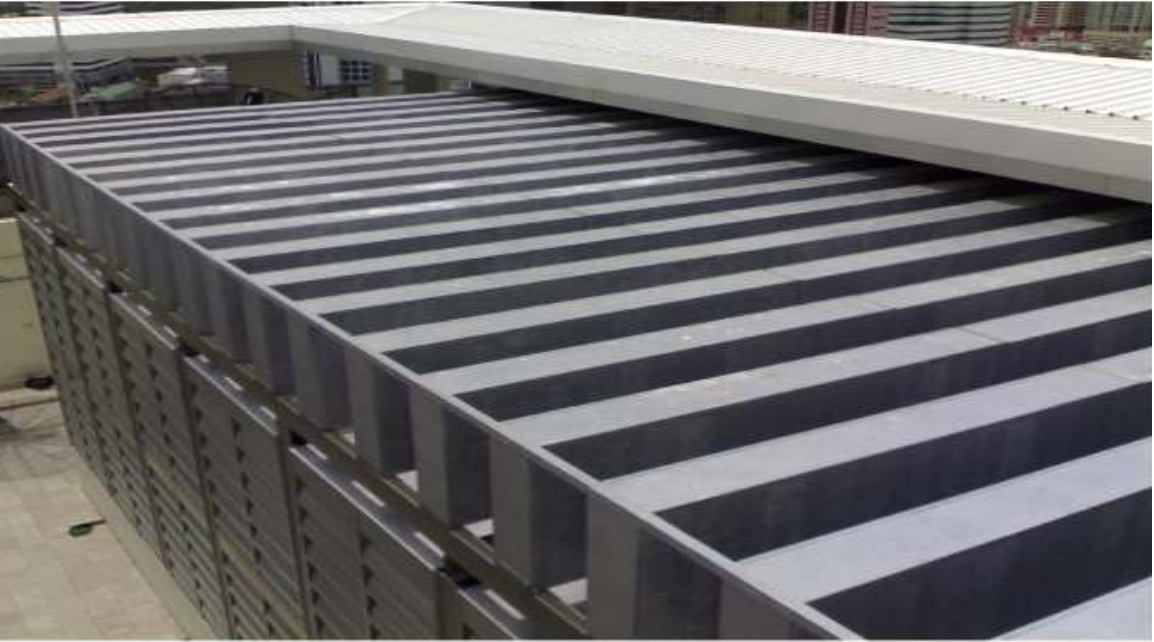
Location	Frequency (Hz.)								dBA	REMARK
	63	125	250	500	1000	2000	4000	8000		
File :0001.S3B	108.8	105.7	100.9	93.1	86.1	79.4	75.6	67.3	96	MACHINE
File :0002.S3B	110	108.1	104.3	97.8	89.5	83.4	79.5	72.2	99.6	MACHINE
File :0003.S3B	69.3	70.3	80.2	76.7	78.6	77.9	75.4	73.1	84.1	PUMP
File :0004.S3B	71.3	69.7	81.3	77.7	78.2	78.8	74.6	73.3	59.8	PUMP

Table 2: Sound measuring results after treatment

Location	Frequency (Hz.)								dBA	REMARK
	63	125	250	500	1000	2000	4000	8000		
File :0001.S3B	71.5	64.8	63.3	58.1	57.9	55.5	52.1	46.8	63	UPPER MACHINE
File :0002.S3B	72.7	67	64.2	59.2	59.3	56.9	53.9	48.4	64.4	
File :0003.S3B	68.5	61.6	59	56.6	56.8	54.3	53.3	49.9	61.9	UNDER MACHINE
File :0004.S3B	68	65.1	61.5	56.4	55	50.4	47	42.1	60	UNDER MACHINE
File :0005.S3B	68.9	69.4	63	59.3	57.7	52.9	49	44	62.6	UNDER MACHINE
File :0006.S3B	63.7	64.1	59.9	55.9	55.5	50.1	47.6	43.7	59.8	UNDER MACHINE

Acoustic Louvers

According to this result acoustics louver and splitter can reduce noise from **88 dB (A) to 55 dB (A)**.



Acoustic Louvers