ACOUSTIC	LABORATORIES	AUSTRALIA	PTY LT	D
				-

SOUND ABSORPTION COEFFICIENT

INDICATIVE TEST ONLY

ALA Test No.:	ALA 18-088-2
Sample:	300 Bass Trap

Description of Sample:

300 Bass trap Meas. Date: 26-May-18 320 x 300 x 2,400mm high element Face Area of sample: 4.2 m2 50mm Autex Quiet Space Box, **Test Specimen Mounting:** Type: J Filled with 32Kg/m3 density insulation Air Gap behind sample: 0 mm 2 units located in corner of Reverb Room Location of sample: 2 Trihedral Cnrs Shape of Reverb Chamber: 7m x 6m x 5m Volume of Reverb Chamber: 208 m3 Area of Diffusers: 46.1 m2

S			Ħ		Sample in Room Empty Room
ene			ciel		Temp: 15.2 15.1 C
nba		ple	effi		RH: 60 56.8 %
Fre	_	an	ö		Atmos. Pressure: 1007 1010 hPA
ē	Nou	š	u (
ent	Å	vith	ptic		
U 0	pty	έ	sor	V	Weighted Sound Absorption Coefficient: Qw 0.95 L * *
ave	Е	8	Ab:		Noise Reduction coefficient: NRC: 1.05
Oct	orl	ori	p		
/3 (Ē	Ē	Ino		
-	~	Ř	S		
Hz	Sec.	Sec.			SOUND ABSORPTION
				<u>ب</u>	1.40
100	4.3	3.1	0.77	eu	
125	5.4	3.1	1.06	<u>c</u>	1.20
160	6.7	3.1	1.36	eff	
200	8.1	3.5	1.31	ပိ	1.00
250	8.9	3.6	1.34	2	
315	8.8	3.9	1.16	tio	0.80
400	8.6	4.1	1.05	ğ	
500	8.0	3.9	1.04	So	0.60
630	7.0	3.7	1.00	Ab	
800	5.8	3.4	0.97	p	0.40
1k	4.7	3.0	0.93	n l	
1.25k	4.2	2.7	0.99	So	0.20
1.6k	3.9	2.7	0.92		
2k	3.7	2.6	0.90		0.00
2.5k	3.5	2.5	0.88		
3.15k	3.1	2.3	0.84		10, 10, 15, 10, 63, 10, 16, 12, 14,
4k	2.6	2.1	0.87		1/2 Optowo Bond Contro Fraguenow (Uprt-)
5k	2.1	1.7	0.85		1/3 Octave Band Centre Frequency (Hertz)

* **NOTE:** There is no standard method for measuring absorption coefficients for spaced unit absorbers, particulary when located in trihedral corners. The sound absorption performance must not be compared to the performance of wall and ceiling absorbers.

A Sound Absorption Coefficient greater than 1.00 cannot occur in theory but can be measured for materials that are highly absorptive due to edge diffraction.