

### Sound Absorption

Tested in accordance with; BS EN ISO 354:2003 / 11654:1997 / ASTM C423-01

Perforation	Acoustic Inlay	$\alpha_w$	NRC	125	250	500	1000	2000	4000	Class
1522 / 1820	16mm 80kg/m <sup>3</sup>	1.00	1.00	0.60	0.95	0.90	1.00	1.00	1.00	<b>A</b>
1511		0.85	0.85	0.55	0.85	0.75	0.95	1.00	0.80	<b>B</b>
Ultramicro	16mm 80kg/m <sup>3</sup>	0.90	0.90	0.60	0.90	0.85	1.00	1.00	0.75	<b>A</b>
1522 / 1820	16mm 80kg/m <sup>3</sup> + plasterboard	0.60	0.70	0.30	0.30	0.60	0.95	1.00	0.80	<b>C</b>
1511		0.60	0.70	0.30	0.30	0.60	0.95	1.00	0.80	<b>C</b>
Ultramicro		0.60	0.60	0.35	0.45	0.70	1.00	0.85	0.45	<b>C</b>
1522 / 1820	30mm 45kg/m <sup>3</sup>	1.00	0.95	0.60	0.95	0.90	1.00	1.00	0.90	<b>A</b>
1511		0.95	0.95	0.55	0.90	0.90	1.00	1.00	0.80	<b>A</b>
1522 / 1820	35mm 45kg/m <sup>3</sup> + Plasterboard	0.85	0.90	0.45	0.58	0.93	1.11	1.15	1.15	<b>B</b>
1511	30mm 45kg/m <sup>3</sup> + Plasterboard	0.70	0.80	0.30	0.40	0.85	1.00	1.00	0.95	<b>C</b>
1522 / 1820	30mm 80kg/m <sup>3</sup>	1.00	1.00	0.55	0.90	0.95	1.00	1.00	1.00	<b>A</b>
1511		1.00	1.00	0.55	0.85	0.90	1.00	1.00	0.95	<b>A</b>
1522 / 1820	30mm 80kg/m <sup>3</sup> + Plasterboard	0.75	0.80	0.39	0.46	0.82	1.00	1.00	1.00	<b>C</b>
1522 / 1820	Fleece	0.80	0.80	0.55	0.95	0.75	0.80	0.85	0.85	<b>B</b>
1511		0.80	0.80	0.55	0.95	0.75	0.80	0.85	0.80	<b>B</b>
Ultramicro		0.65	0.65	0.55	0.55	0.65	0.65	0.65	0.50	<b>C</b>

### Sound Attenuation

Tested in accordance with; BS EN ISO 20140-9:1994 / 717-1:1997

Perforation	Acoustic Inlay	Dn,c,w	Dn,f,w	125	250	500	1000	2000	4000	Class
1522 / 1820	16mm 80kg/m <sup>3</sup>	27 dB	-	11.1	19.5	24.0	26.9	29.9	36.2	-
	16mm 80kg/m <sup>3</sup> + plasterboard	-	49 dB	28.1	37.7	46.1	59.9	63.4	61.6	-
	30mm 45kg/m <sup>3</sup> + plasterboard	-	50 dB	30.9	37.3	46.1	62.4	66.1	63.3	-
	Fleece	-	15 dB	12.2	13.5	15.2	13.9	14.6	15.3	-
1511	16mm 80kg/m <sup>3</sup> + plasterboard	48 dB	-	26.2	37.2	46.4	57.5	62.7	60.7	-
	30mm 45kg/m <sup>3</sup> + plasterboard	48 dB	-	27.4	37.6	46.5	57.9	63.9	62.8	-
Ultramicro	16mm 80kg/m <sup>3</sup>	33 dB	-	19.2	22.7	28.5	33.1	43.2	47.4	-
	16mm 80kg/m <sup>3</sup> + plasterboard	40 dB	-	18.9	29.6	34.7	45.0	54.4	57.8	-
	Fleece	18 dB	-	14.4	18.1	17.2	16.4	19.1	23.3	-
Plain	None	43 dB	-	23.1	33.9	40.2	45.7	50.1	46.5	-

### Notes

- All SAS products are tested independently by a UKAS accredited laboratory.
- Acoustic data is available for other tile configurations, please contact our technical team for more information
- System 320 can accept acoustic inlay upto a maximum of 50mm thick.

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