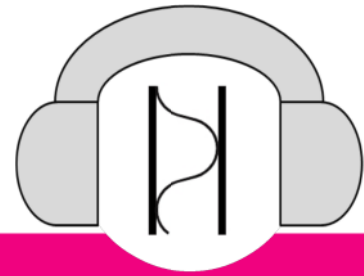
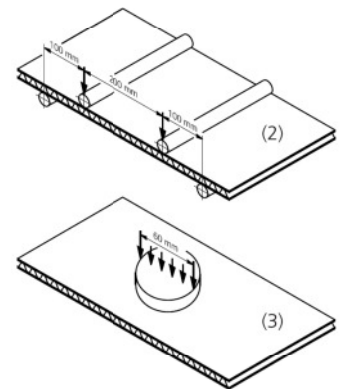


Huge sound reduction  
Strong floor panel



Panel type	Alu-Silent hl 10-03-10 hl / H8
<b>Top cover sheet</b>	
Thickness of sheet	1.0 mm
Surface	primered
Alloy / Condition	EN AW-5754 H48
Proof stress $R_{p0.2}$ [N/mm <sup>2</sup> ]	≥ 220
Tensile stress $R_m$ [N/mm <sup>2</sup> ]	≥ 280
<b>Back cover sheet</b>	
Thickness of sheet	1.0 mm
Surface	primered
Alloy / Condition	EN AW-5754 H48
Proof stress $R_{p0.2}$ [N/mm <sup>2</sup> ]	≥ 220
Tensile stress $R_m$ [N/mm <sup>2</sup> ]	≥ 280
<b>Dimensions</b>	
Overall thickness [mm]*	8 ± 0.2
Max. width [mm]*	1,500 -0/+2
Length [mm]	on request
* other dimensions on request	
<b>Mechanical and physical properties <sup>(7)</sup></b>	
Sound reduction index $R_w$ [dB]	34
Weight [kg/m <sup>2</sup> ]	14.6
Rigidity [Nmm <sup>2</sup> /mm] <sup>(2)</sup> E I/b, longitudinal / transverse	2.0 E+6 / 1.7 E+6
Bending moment [Nmm/mm] <sup>(2)</sup> Limit of elasticity $M_{el}$ , longitudinal / transverse Max. bending moment $M_{max}$ , longitudinal / transverse	≥ 2,200 / ≥ 1,000 ≥ 2,500 / ≥ 1,400
Compressive strength [N/mm <sup>2</sup> ] punch ø 60,0 mm <sup>(3)</sup> punch ø 6,0 mm	≥ 6 ≥ 40
Temperature stability <sup>(6)</sup>	-40 to 100 °C

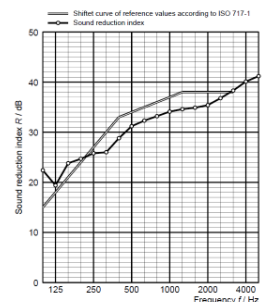


Alu-Silent hl 10-03-10 hl / H8

- (1) High Durable Polyester (HDP) coilcoated  
Other colours and paint-systems on request
- (2) Bending test at room temperature following DIN 53293  
Since the panel core is a corrugated sheet,  
two different load cases have to be considered:  
longitudinal: bending axis perpendicular to the corrugation  
transverse: bending axis parallel to the corrugation
- (3) Pressure test at room temperature following DIN 53291
- (4) Border margin max. 5 mm
- (5) Cut by hammer shears
- (6) Others on request
- (7) Further characteristics can be supplied on demand

Date of test: 2016-12-22  
Size: 1.82 m<sup>2</sup>  
Source room: Prüfstand G  
Vol.: V = 70.87 m<sup>3</sup>  
Receiving room: Prüfstand H  
Vol.: V = 57.00 m<sup>3</sup>  
θ = 22 °C r.h. = 29 %

Frequency [Hz]	R [dB]
100	22.4
125	19.4
160	20.6
200	24.7
250	25.9
315	26.0
400	26.8
500	31.2
630	32.3
800	33.2
1000	34.1
1250	34.6
1600	34.9
2000	35.4
2500	36.8
3150	38.3
4000	40.1
5000	41.2



Weighted sound reduction index  $R_w(C; C_2) = 34 (-1; -4)$  dB

Frequency [Hz]	R [dB]
100 - 3150 Hz	0 dB
3150 - 5000 Hz	-4 dB
C <sub>2</sub>	-1 dB
C <sub>1</sub>	-4 dB