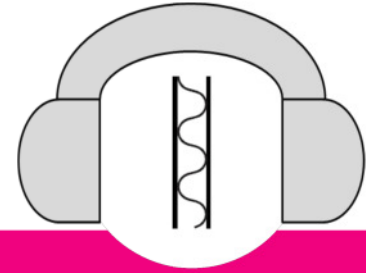
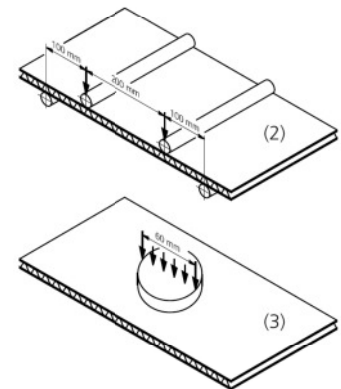


Huge sound reduction  
Primered all-round panel



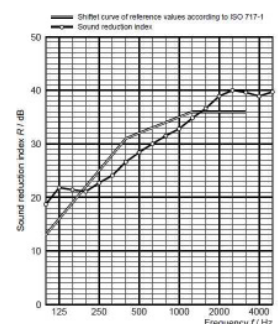
<b>Panel type</b>	<b>Alu-Silent hl 08-02-05 hl / H6</b>
<b>Top cover sheet</b>	
<b>Thickness of sheet</b>	0.8 mm
<b>Surface</b>	primered
<b>Alloy / Condition</b>	EN AW-5754 H42
<b>Proof stress <math>R_{p0,2}</math> [N/mm<sup>2</sup>]</b>	≥ 140
<b>Tensile stress <math>R_m</math> [N/mm<sup>2</sup>]</b>	≥ 220
<b>Back cover sheet</b>	
<b>Thickness of sheet</b>	0.5 mm
<b>Surface</b>	primered
<b>Alloy / Condition</b>	EN AW-5182 H48
<b>Proof stress <math>R_{p0,2}</math> [N/mm<sup>2</sup>]</b>	≥ 300
<b>Tensile stress <math>R_m</math> [N/mm<sup>2</sup>]</b>	≥ 330
<b>Dimensions</b>	
<b>Overall thickness [mm]</b>	6.0 ± 0.15
<b>Max. width [mm]</b>	1,500 -0/+2
<b>Length [mm]</b>	on request
other dimensions on request	
<b>Mechanical and physical properties <sup>(7)</sup></b>	
<b>Sound reduction index <math>R_w</math> [dB]</b>	32
<b>Weight [kg/m<sup>2</sup>]</b>	10.9
<b>Rigidity [Nmm<sup>2</sup>/mm] <sup>(2)</sup></b> EI/b, longitudinal / transverse	700,000 / 625,000
<b>Bending moment [Nmm/mm] <sup>(2)</sup></b> Limit of elasticity $M_{el}$ , longitudinal / transverse Max. bending moment $M_{max}$ , longitudinal / transverse	≥ 550 / ≥ 500 ≥ 900 / ≥ 600
<b>Compressive strength [N/mm<sup>2</sup>] <sup>(3)</sup></b>	≥ 5.0
<b>Temperature stability <sup>(6)</sup></b>	-40 to 100 °C
<b>Approvals / Certificates</b>	on request



- (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: 2014-08-05  
Size: 1.81 m<sup>2</sup>  
Source room: Prüfstand G  
Vol.: V = 69.00 m<sup>3</sup>  
Receiving room: Prüfstand H  
Vol.: V = 57.90 m<sup>3</sup>  
θ = 22°C r.h. = 60 %

Frequency [Hz]	R [dB]
100	18.7
125	21.8
160	21.6
200	21.1
250	22.7
315	24.1
400	26.6
500	28.4
630	30.0
800	31.5
1000	32.8
1250	34.8
1600	36.6
2000	38.9
2500	40.0
3150	39.6
4000	38.9
5000	39.7



<b>Weighted sound reduction index <math>R_w(C; C_w) = 32 (0; -3)</math> dB</b>	
Rating according to ISO 717-1	
Evaluation based on laboratory measurement results obtained by an engineering method.	
C	100 - 3150 Hz: 0 dB 3150 - 5000 Hz: -3 dB
C <sub>w</sub>	0 dB -3 dB