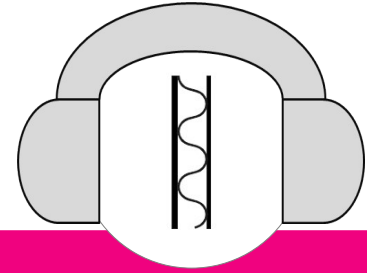
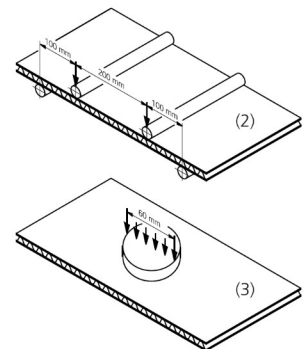


Huge sound reduction
Primered all-round panel



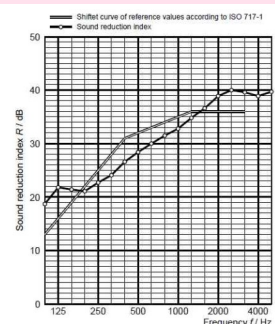
Panel type	Alu-Silent hl 08-02-05 hl / H6
Top cover sheet	
Thickness of sheet	0.8 mm
Surface	primered
Alloy / Condition	EN AW-5754 H42
Proof stress $R_{p0,2}$ [N/mm ²]	≥ 140
Tensile stress R_m [N/mm ²]	≥ 220
Back cover sheet	
Thickness of sheet	0.5 mm
Surface	primered
Alloy / Condition	EN AW-5182 H48
Proof stress $R_{p0,2}$ [N/mm ²]	≥ 300
Tensile stress R_m [N/mm ²]	≥ 330
Dimensions	
Overall thickness [mm]	6.0 ± 0.15
Max. width [mm]	1,500 -0/+2
Length [mm]	on request
other dimensions on request	
Mechanical and physical properties ⁽⁷⁾	
Sound reduction index R_w [dB]	32
Weight [kg/m ²]	10.9
Rigidity [Nmm ² /mm] ⁽²⁾ EI/b, longitudinal / transverse	700,000 / 625,000
Bending moment [Nmm/mm] ⁽²⁾ Limit of elasticity M_{el} , longitudinal / transverse Max. bending moment M_{max} , longitudinal / transverse	≥ 550 / ≥ 500 ≥ 900 / ≥ 600
Compressive strength [N/mm ²] ⁽³⁾	≥ 5.0
Temperature stability ⁽⁶⁾	-40 to 100 °C
Approvals / Certificates	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: 2014-08-06
Size: 1.87 m²
Source room: Prüfstand G
Vol.: V = 68.00 m³
Receiving room: Prüfstand H
Vol.: V = 57.90 m³
 $\theta = 22^\circ\text{C}$ 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



Weighted sound reduction index $R_w(C; C_w) = 32 (0; -3)$ dB	
Rating according to ISO 717-1	
Evaluation based on laboratory measurement results obtained by an engineering method.	
C	100 - 3150 Hz: 0 dB, 100 - 2000 Hz: 0 dB
C _w	0 dB, -3 dB