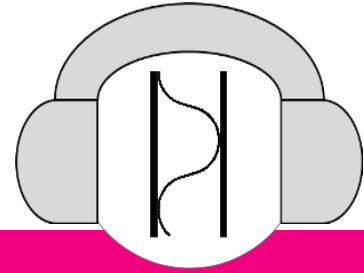
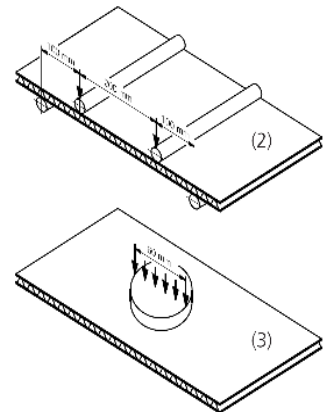


**Huge sound reduction
Strong floor panel**



Panel type	Alu-Silent hl 10-03-10 hl / H11.5
Top cover sheet	
Thickness of sheet	1.0 mm
Surface	primered
Alloy / Condition	EN AW-5754 H48
Proof stress $R_{p0.2}$ [N/mm ²]	≥ 220
Tensile stress R_m [N/mm ²]	≥ 280
Back cover sheet	
Thickness of sheet	1.0 mm
Surface	primered
Alloy / Condition	EN AW-5754 H48
Proof stress $R_{p0.2}$ [N/mm ²]	≥ 220
Tensile stress R_m [N/mm ²]	≥ 280
Dimensions	
Overall thickness [mm]	11.5 ± 0.2
Max. width [mm]	1,500 -0/+2
Length [mm]	on request
Mechanical and physical properties ⁽⁷⁾	
Sound reduction index R_w [dB]	38
Weight [kg/m ²]	20
Rigidity [Nmm ² /mm] ⁽²⁾ EI/b, longitudinal / transverse	5.1 E+6 / 3.5 E+6
Bending moment [Nmm/mm] ⁽²⁾ Limit of elasticity M_{el} , longitudinal / transverse Max. bending moment M_{max} , longitudinal / transverse	≥ 2,200 / ≥ 1,000 ≥ 3,000 / ≥ 1,000
Compressive strength [N/mm ²] punch ø 60,0 mm ⁽³⁾ punch ø 6,0 mm	≥ 6 ≥ 40
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
The bending stiffness is a value that describes the bending behavior of the panel. The tolerances permitted by the standard for the specified sheets and the thickness tolerance of the panel can lead to deviations from the specified values.
Since the panel core is a corrugated sheet, two different load cases have to be considered:
longitudinal: bending axe perpendicular to the corrugation
transverse: bending axe parallel to the corrugation, specified values refer to spans > 400 mm
- (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: 2014-05-28
Size: 1.87 m²
Source room: Prüfstand FIG
Vol.: V = 147.60 m³
Receiving room: Prüfstand H
Vol.: V = 57.90 m³
θ = 21 °C (h. = 31 %)

Frequency [Hz]	R [dB]
100	27.0
125	23.9
160	25.5
200	26.3
250	27.8
315	30.4
400	32.4
500	34.8
630	35.6
800	36.0
1000	36.8
1250	36.8
1600	38.9
2000	40.7
2500	42.0
3150	44.5
4000	44.8
5000	45.4

