Panel type | Alu-Silent hl 10-03-10 hl / H8
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### Top cover sheet
- **Thickness of sheet**: 1.0 mm
- **Surface**: primed
- **Alloy / Condition**: EN AW-5754 H48
- **Proof stress** $R_{p0.2}$ [N/mm²]: ≥ 220
- **Tensile stress** $R_m$ [N/mm²]: ≥ 280

### Back cover sheet
- **Thickness of sheet**: 1.0 mm
- **Surface**: primed
- **Alloy / Condition**: EN AW-5754 H48
- **Proof stress** $R_{p0.2}$ [N/mm²]: ≥ 220
- **Tensile stress** $R_m$ [N/mm²]: ≥ 280

### Dimensions
- **Overall thickness** [mm]$: 8 ± 0.2$
- **Max. width** [mm]$: 1,500 - 0/+2$
- **Length** [mm]: on request

### Mechanical and physical properties
- **Sound reduction index** $R_m$ [dB]: 34
- **Weight** [kg/m²]: 14.6
- **Rigidity** [Nmm²/mm]:
  - $E_{\text{lin}}$, longitudinal / transverse: $2.3\times 10^6 / 1.7\times 10^6$
- **Bending moment** [Nmm/mm]:
  - Limit of elasticity $M_{\text{lin}}$, longitudinal / transverse: ≥ 2,200 / ≥ 1,000
  - Max. bending moment $M_{\text{max}}$, longitudinal / transverse: ≥ 2,500 / ≥ 1,400
- **Compressive strength** [N/mm²]:
  - Punch Ø 60.0 mm: ≥ 6
  - Punch Ø 6.0 mm: ≥ 40
- **Temperature stability**: -4°C to 100 °C

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(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