Panel type | Aluflex hl 05-02 hl / H4.7
---|---
Top cover sheet | 0.5 mm
Thickness of sheet | 0.2 mm
Surface | primed
Alloy / Condition | EN AW-5182 H48
Proof stress $R_{0,2}$ [N/mm²] | $\geq 300$
Tensile stress $R_{m}$ [N/mm²] | $\geq 330$
Corrugation | 4.7 ± 0.15
Thickness of sheet | 0.2 mm
Surface | primed

Dimensions

| Overall thickness [mm]* | 4.7 ± 0.15 |
| Standard width [mm]* | 1,500 -0/+6 |
| Standard length [mm]* | Roll 20,000 |

* other dimensions on request

Mechanical and physical properties

| Weight [kg/m²] | 2.2 |
| Rigidity [Nmm²/mm] | 110,000 / - |
| $E / b$, longitudinal / transverse | (2) |
| Bending moment [Nmm/mm] | $\geq 60 / -$ |
| Limit of elasticity $M_{el}$, longitudinal / transverse | $\geq 110 / -$ |
| Max. bending moment $M_{max}$, longitudinal / transverse | (2) |
| 10%-Compressive strength [N/mm²] | $\geq 1.4$ |
| 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