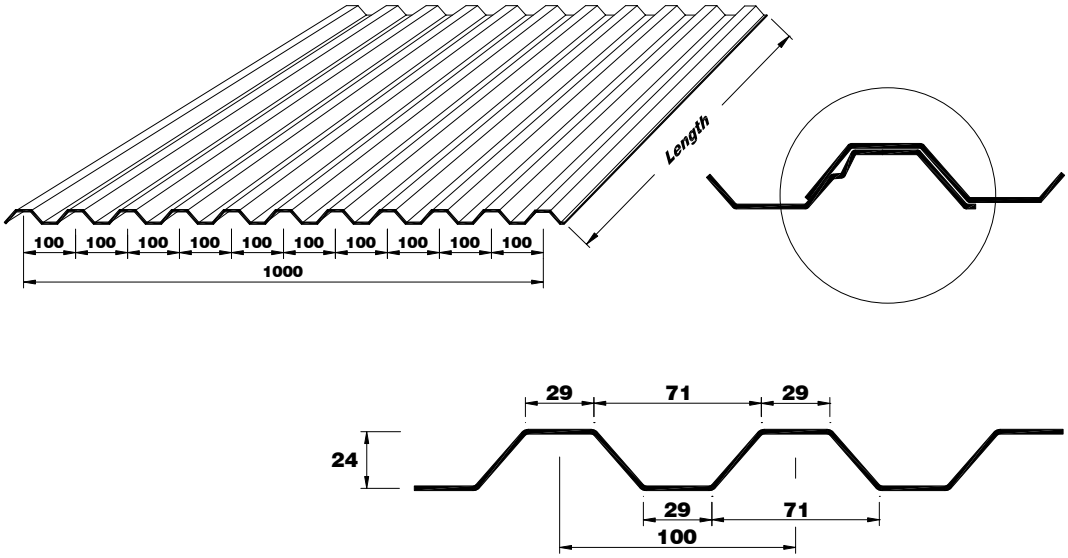
Corus Building Systems

Alfal® 24/100



Technical data

Thick-ness (mm)	Weight (Kg/m²)	Surface Finish	Static values * Ix cm⁴	Max. spans in mm for uniformly distributed loadings based on a deflection of 1/200 ** 0,75 kN/m²	1,00 kN/m²	1,25 kN/m²	1,50 kN/m²
0.5	1.71	Stucco Embossed or Mill finish	4.59	**1,460**	**1,330**	**1,230**	**1,160**
0.7	2.39		6.98	**1,680**	**1,530**	**1,420**	**1,330**
1.0	3.42		10.42	**1,920**	**1,750**	**1,620**	**1,520**

* For a width of 1 m laid in a positive sense. In accordance to EN-485-4

** Static system: continuous sheet on 4 supports and each corrugation fixed with screws and clearance discs.

Application

Suitable for wall and roof cladding.
Minimum roof pitch > 10% without cross-sectional overlaps and depending on length of roof.

Alloy

EN AW AlMnMg (3004) according to EN 485-2.
EN AW 7072 ($AlZn_1$) Alclad alloy, plated on EN AW core Alloys 3004 (AlMnMg) and 6025 ($AlMg_{2.5}SiMn$)

Product description

Depending on the roof length, pitch and cross-sectional overlaps the profiled aluminium sheet will have a minimum ridge height of 24 mm and a maximum pitch of 100 mm.
The thickness is 0,5 mm, 0.7 mm or 1.0 mm depending on requirements.
The profiled sheet has a total width of approx. 1.04 m and a useful width of 1.0 m.

Surface designs

- Non colour-coated aluminium stucco embossed, mill finish or stucco embossed Alclad.
- Mill finish using a standard polyester coating of ± 25 µm on the positive side and a 5 µm transparent primer on the negative side. (in conformity with ECCA)
- Standard colours available: please refer to CBS Ral colour brochure.
- Other colours, range “Ambiance” , two-sided and/or paint qualities such as polyester powder paint ± 50 µm and PVDF only available on request

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General data

- Maximum length up to 13.000 mm, larger sizes only available on request (in the case of crimp curves always enquire about transport).
- Minimum length 500 mm.
- Manufactured polyester coating (coilcoating procedure) on mill finish always with a protective foil.
- If required, on cold roofs, also available with an anti-condensation membrane“Aquasine®”

Quality certificate

- Fabrication:
  In conformity with **EN 485** and **EN 573**
- General Technical Descriptions :
  According to **DIN 18807** Parts 6 to 9
  Aluminium Merkblat **A8**
- Certificate:
  Static calculation **N° 235/99**

Curving and crimping

Natural curving (*)

$R_{min.}$: **30.000 mm** (thickness 0.5 & 0.7 mm)
$R_{min.}$: **40.000 mm** (thickness 1.0 mm)

Mechanical curving (*)

$R_{min.}$: *Technically not yet possible*

Serrated edges (*)

$R_{min.}$: **800 mm** (thickness 0.5 & 0.7 mm)
$R_{min.}$: **2.800 mm** (thickness 1.0 mm)

(*) Data according to the latest state of the art.

Strengths

- Long-life and maintenance-free.
- Economical and environmentally-friendly.
- 100% recyclable.
- Low self-weight, light sub-structure.
- Fire classification A0 – non-flammable materials.
  (according to NBN-S21-203)

For further information, please contact

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