



DESCRIPTION

This is a colored aluminium strip, which is easily workable and is particularly suitable for roofs or the front walls of new buildings for seaming. The exceptionally easy workability makes PROFAL applicable for on rugged roofs of new buildings, during the reconstruction of monuments and on the roofs and front walls of industrial buildings. PROFAL is made from aluminium alloy and thanks to the Coil-Coating method, which uses suitable layers of varnish, offers the following qualities in comparison to other materials:

- high stability of colors, resistance to UV radiation, resistance to corrosion, resistance to getting dirty, low weight, low purchase cost and it does not pollute the environment (recyclable)
- an advantage of aluminium products is that they are reusable and up to 95% of the energy required to make primary aluminium is saved.

APPLICATION

- In the architectural decoration of your building. Through the perfect processing of and offer of colors, PROFAL provides real decoration of building projects on rugged roofs and building front walls. Architects and designers appreciate this the most.
- It is delivered in coils and is covered by a white removable foil with the PROFAL logo (stable against UV radiation) with perforation for the removal of the side strips before seaming. The middle part of the foil is removed once the assembly process has been completed.
- It safely protects your building against the effects of wind. The basic material aluminium alloy is covered with a very resistant varnish called PVdf (polyvinylidenfluoride). This varnish is applied through the highest technology, namely the Coil - Coating method.

SPECIFIC CHARACTERISTICS

Behavior during cases of fire: inflammable - in category A2. **Behavior in contact with damp:** frost-proof and has a water-repellent surface, stable in cases of humidity and is steam-proof. The material has a very high resistance to wind thanks to the varnish it has been coated with. **Workability:** from 0 °C to + 40 °C. Every material changing in length, depending on the specific stretchability of the material, when the temperature changes. It is, therefore, necessary to assemble the elements in such a way for the materials to be shrunk and stretched without difficulties and/or losing tightness. The moving connections, which eliminate stretchability, are dealt with using seaming, gluing, cementation and riveting. For the gluing process, it is possible to use, for example, bitumen glues from ENKOLIT or ELCH silicon putties. **Washing:** the waste products do not stain and rainwater, which runs along the PROFAL surface, does not leave any tracks on the building materials. **Coexistence with other metals:** the same principle applies as for all alloy materials and it is necessary to limit the occurrence of galvanic corrosion.

It is possible for PROFAL to coexist with, for example, stainless steel, titanium zinc, zinc and lead. **Roof slant for seaming roofing:** It generally applies that the slant should not be less than 5 % whereby you have a standing double seam. In cases whereby cross-joints are used, then the roof slant must not be less than 25 %.

TECHNICAL CHARACTERISTICS

Aluminium alloy: AlMn1Mg 0.5 according to the international labeling system.

MECHANICAL CHARACTERISTICS

H41 is derived from the European norm EN 515 with values according to EN-Czech norm 10002-1.

| | |
|--------------------------------|-----------------------------------|
| Firmness limit when stretched: | R _m = 130 - 150 MPa |
| Stretchability limit: | R _{p0.2} > 100 MPa |
| Ductility: | A ₅₀ > 6 % |
| Heat stretchability: | 24.10 ⁻⁶ cm/cm. °K |
| Module of elasticity: | 70 000 MPa |
| Thickness of varnish: | upper side 25 µm, lower side 3 µm |

COLOURED PALETTE ACCORDING TO THE RAL PATTERN BOOK

Basic offer:

- RAL 9006 - silver, RAL 3016 - red, RAL 7016 - anthracitic, RAL 8016 - mahogany brown, RAL 7036 - platiny grey.

QUALITY ASSURANCE

Is carried out according to the following norms: CSN-EN, CSN-ISO, ASTM and ECCA (the coating company is a member of the European Coil Coating Association).

SIZES

| Thickness [mm] | Width [mm] | Inner diameter [mm] | Weight [kg] |
|----------------|------------|---------------------|-------------|
| 0.7 | 600 | 500 | Min. 200 |
| 0.7 | 1000 | 500 | Min. 200 |