Antimicrobial Aluminium section bars

Description

This Data sheet covers the aluminium profiles with antimicrobial treatment produced by P3 Srl with the following codes: 21FN01ABT, 21FN03ABT, 21FN06ABT, 21FN07ABT, 21PR01ABT, 21PR02ABT, 21PR03ABT, 21PR04ABT, 21PR07ABT, 21PR14ABT, 21PR15ABT, 21PR34ABT, 21PR35ABT, 21RF02ABT, 21CP03ABT.

Technical characteristics of the antimicrobial coating

The profiles in question are treated with a special epoxy paint added with an element that, in addition to inhibiting the proliferation of microbes, virus and fungi, ensures greater resistance to aggressive chemicals: the coating is tested in accordance with ISO 22196.
Thickness of the coating: 40 ÷ 50 μm
Colour: Ral 5024
Surface appearance: glossy

Characteristics

The sections in question are made from aluminium alloy denominated as follows:
- Conventional alloy designation:

P - Al Mg Si UNI 9006/1

- Alloy marking (optional):

P – AGS

- Numerical designation:

6060

Alloy composition

Chemical composition %										
%	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Impurities	Al
Min.	0,3	0,1	/	/	0,35	/	/	/	0,05	/
Max.	0,6	0,3	0,1	0,1	0,6	0,05	0,15	0,1	0,15	rest

Mechanical properties

- Tensile strength at break: 21/25 kg/mm^2
- Specified characteristic proof strength: 17/21 kg/mm^2
- Elongation %: 12/19
- Brinell hardness: 60/80 kg/mm^2

Technological processes and treatments

The process used to obtain the aluminium sections is as follows:
- Extrusion with press (1.000-2.000 tons)
- Stretching
- Aging heat treatment
- Nitriding of the dies
- Superficial antimicrobial treatment

Technological properties

In accordance with the regulations, the following list of descending classifications is adopted to indicate the alloy's technological properties:

excellent-good-sufficient-mediocre-deficient-poor

- Cold workability: good
- Weldability: good
- Machinability: mediocre

- Polishability: mediocre
- Corrosion strength:
  marine environment: in the range sufficient to good
  town and rural environment: good
  interiors: good
- Anodizability: good

Dimensions

With the exception of sections 21SR01, 21SR02 and 21SR03 which are 3m long, all the articles are 4m in length. See the drawings of each individual article for the cross-section.

Packaging

The packaging depends on the article, and hence:
- 21FN01ABT, 21FN03ABT, 21FN06ABT, 21FN07ABT, 21PR01ABT, 21PR02ABT, 21PR03ABT, 21PR04ABT, 21PR07ABT, 21PR14ABT, 21PR15ABT: 40 m pack wrapped in paper
- 21PR34ABT, 21PR35ABT: pack of 20 m wrapped in paper
- 21RF02ABT: pack of 44 m wrapped in paper
- 21CP03ABT: pack of 20 m wrapped in paper