

These cladding panels are made from aluminium alloy sheets with a minimum thickness of 1.5 mm, suitably machined using equipment that produces openings and shapes of a specific geometry on the surface by means of cutting, drilling, two-dimensional or three-dimensional forming, ironing; the panels thus obtained will be edged with L-shaped aluminium profiles, anchored by welding, which give the panel rigidity and provide the necessary geometries for concealed fastening to the facade substructure. Once assembled, the metal mesh is coated with polyester powder with a minimum thickness of 60 microns (according to the Qualicoat standard) or anodised (according to the Qualanod standard) with a minimum thickness of 15 microns in accordance with the regulations in force regarding anodising for outdoor use, with ΔE always less than 3. The finish is applied over the entire surface, including holes, sharp edges and three-dimensional shape, providing perfect protection from the external agents and an attractive appearance.

The guarantee on the finish can be up to 30 years depending on the technological process chosen. The maximum metal mesh size is 1500x3200 mm.

The EN AW-6063 T6/T66 (AlMgSi) aluminium alloy Mesh.Covering substructure system is made up of extruded brackets and risers of suitable section, with a minimum thickness of 2 mm, connected by means of AISI 304 and 316 stainless steel fittings and fastening technologies that allow free and independent thermal expansion of all components, thus avoiding harmful stresses.

The fastening system for the cladding panels uses specially designed clips to ensure resistance to accidental loads (wind), while at the same time allowing the slabs to expand freely, to be fastened in a concealed manner, and to be removed individually regardless of others. The minimum size of the joint between the panels is 8 mm. This completely mechanical fastening does not require the use of adhesives or chemicals, thus guaranteeing mechanical characteristics that are predictable and do not change over time.

The Mesh.Covering system guarantees excellent impact strength and resistance, withstanding an impact energy of 500 J from a 50kg mass and a hard-body impact energy of 10 J from a 1kg steel ball (according to standard EOTA TR001) without breakage or detachment of material.

Its reaction to fire is class A according to the European standard UNI EN 13501-1. When the system comes into contact with fire, it does not release any toxic gases or fumes. Mesh.Covering is fireproof.