

## Cut and aesthetic finishing of objects and components obtained from composite panels with external titanium layer

New composite panels were recently put on the market, consisting of an external titanium layer 0.3 mm thick, a 3.4 mm middle layer made of polyethylene loaded with mineral charges and an internal stainless steel layer 0.3 mm thick.

These panels exhibit low weight (9,3 kg/m<sup>2</sup>), high stiffness (equivalent modulus 49 GPa) and resistance (equivalent yield 61 MPa) and comparatively low price (1).

Through numerical control machining and partial profiling panels can be shaped and bent in almost any shape (2-3) and subsequently finished by conferring specific surface finishing or functionalities (photocatalytic and self-cleaning properties) (4).

NanoSurfaces (in collaboration with Alubuild srl, the Italian company responsible for these panels marketing in Italy, specialized in ventilated facades) offers to clients a full service, which possibly begins with the client's rendering and ends with the creation of the component prototype, and/or its complete production (5).

