

VENTILATED CURTAIN WALL SYSTEM: URANO

“URANO” system, combined with the already well-known METRA systems for the building industry for frames and curtain walls NCInternational, NCSuperthermic, Poliedra..., is the ideal product for making “ventilated curtain walls” covered by preformed aluminium panels.

Without affecting the high quality features, the system enables to save material and fabrication costs and to obtain remarkably short laying times.



- APPLICATION -

The system, complete with aluminium profiles and aluminium and stainless steel “original” accessories, allows to make “ventilated curtain walls” covered, totally or just partially, by aluminium panels. It can be employed successfully not just in new buildings, but also in the restyling, particularly when the architectonic and energetic requalification assumes an important role.



- SYSTEM TECHNICAL DESCRIPTION -

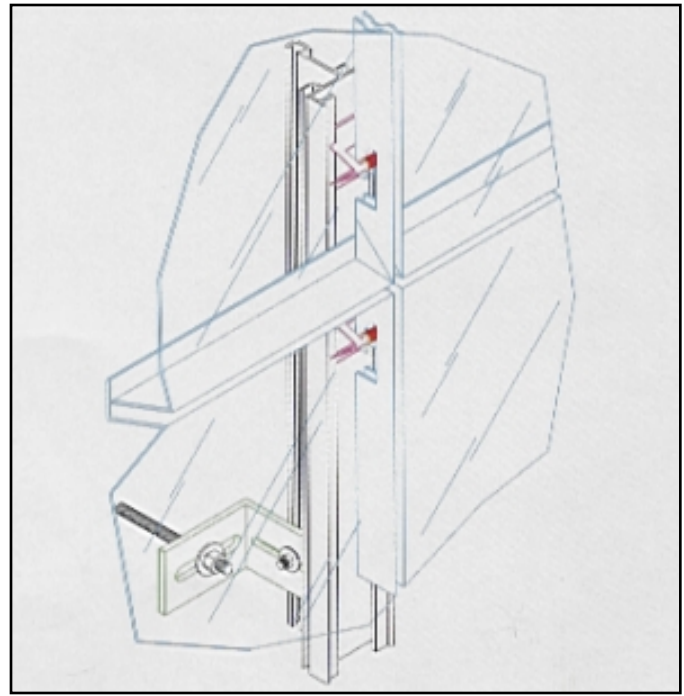
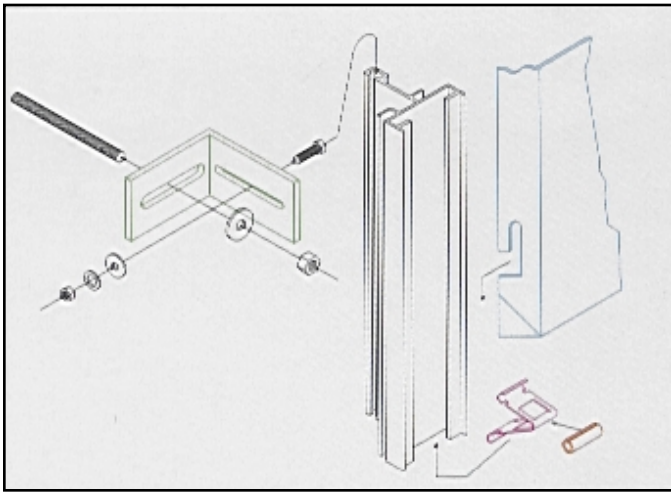
The carrying structure is made up of extruded aluminium profiles, alloy 6060 (EN573 - 3 and EN755-2) in the thermal treatment EN515, having as a unique base a vertical profile right at the axis to the joining point of the panels.

The vertical profile is duly shaped in order to house, without boring or milling (thus not affecting the anodizing or the painting surface protection), the following “original” accessories of the system:

- wall brackets in extruded aluminium (± 30 mm adjustment according to the bracket used);
- support springs (in aisi 301 stainless steel), enabling the horizontal and vertical adjustment of the aluminium panel; they are self-locking and complete with antivibration gaskets;
- wall support springs of the thermoinsulating panels in hardened and tempered steel.

The structure can be adjusted differently, oppose the wind and nevertheless allow the thermal expansion of the different components.

The standard depth of the aluminium structure varies from 30 mm. to 195 mm., thickness of the covering aluminium panel not included.



- MAIN FEATURES -

The "ventilated curtain walls" built with URANO are made up of a matt wall, whose outer covering is composed by preformed aluminium panels, "dry" laid by means of mechanical suspension and fastening devices; the carrying structure is therefore hidden and separated from the wall front behind (where there is usually a thermoinsulating panel) for a perfect air circulation.

This wall tends hence to protect naturally the building against the combined actions of rain and wind: the so-called driving rain.

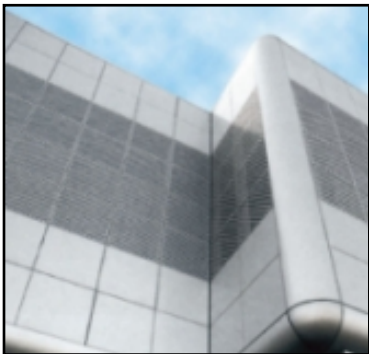
Indeed, the covering fastening as well as the ventilated interspace behind it, assure against water sprays, lashes and streaming on the façade; the thermal insulation and the inner counterwall remain thus dry.

All this brings along benefits in terms of durability and energetic efficiency of the wall during heating periods.

On the other hand during hot seasons there is a considerable reduction (thanks to the air space ventilation and the partial reflection of the solar rays on the coating) of the thermal load on the building due to the sun radiation.

Furthermore, these ventilated walls can improve considerably the acoustic insulation.

- OTHER REALISATIONS -





SURFACE FINISHING