



LVF[®] – Light V entilated F açades

Composite structural system light ventilated façade

Origin

The structural system for ventilated composite light[®] LVF was "thought", designed and created by MMG Group Ltd on the basis of experience gained through years of presence in specialized areas of the building industry with specific reference to façades.

Milestones and targets

The main points of reference that have guided the design of this system are as follows:

- Existing Regulatory Requirements for ventilated façades
- Easy installation in progress
- Easy replacement during maintenance
- Ability to support finishing elements "face view" different
- Light weight combined with good resistance even on large format (1000x3000 mm)
- Durability over time
- Optimization of components and cost competitive

Research

In order to pursue the achievement of the objectives have been carried out market research aimed at identifying existing products, designed for different purposes, which could be used symbiotically for the realization of the system and at most the need to produce special components.



Results

The results obtained were more than up to the expectations, leading to the creation of a structural system for ventilated façades reading in full compliance with the objectives set; were in fact the tests performed brilliantly at the center of San Giuliano Milanese (Milan – ITALY) CNR provided for ventilated façades.

The system

The system obtained is composed of:

- brackets, anchors and commercial mounting hardware
- a substructure composed of aluminum extruded profile (only element of the drawing) which, thanks to a particular geometric shape, specifically optimized, can be used as "current" to the wall and as a support for coupling to the finishing panels
- fibroresina in a grid panel that plays a supporting and stiffening of the finish materials and "guest" of the coupling hooks; panel and hooks are assembled in order to ensure a "mechanical coupling" as required by the Regulations

The finishing elements, not intrinsically belong to the system, can be of various type and size (panel, slat strip) provided that they meet the following two requirements:

- have thin (max. 5 mm) and weight
- thermal expansion have included (in order to ensure "leak" in size visually acceptable)