

PosaClima System is today considered the most complete and innovative method in the laying of windows and doors.



METRA Group puts at market's disposal its multiple experience in aluminium profiles extrusion. Experience which, in 50 years activity, confirmed its position as a leader first in Italy, then in Europe and in the World. Since 1962 METRA produces aluminium profiles which are then transformed into different systems for the industry and building sector: from big structural profiles for the transport sector to curtain walls, windows, doors, shutters of any shape, colour and dimension. **METRA S.p.A.** is exclusive distributor of PosaClima System in the sector of aluminium windows and doors.

PosaClima partners:



Alfa Solare S.p.A. operates on the market of plastic extruded products since 1986 in its premises in San Marino and is specialised in different typologies of extruded products: from PVC to TPE, ABS, Polyamide. A great know-how in the production of profiles for thermal-break brought the Company to a leading position in the World. In the last years, the Company has proposed highly innovative solutions for the energy saving and the improvement of thermal performances in the sector of windows and doors and of the building in general. For any information on the products, please visit www.alfasolare.com



The core business of **3ks Profile GmbH** is the development, production and distribution of profiles for the installation of windows and doors, dilatation joints for plasters but also finishing and external insulation systems. The 3ks products meet the highest standard requirements and are certified by institutes known in the whole world such as ift Rosenheim and A.B.O Rosenheim. In the context of PosaClima project they have developed a specific plaster-holder profile for the Italian counterframe which ensures the highest tightness performances and prevents from the cracks in the wall.



Established in 1895, **Hanno Werk GmbH & Co. KG** was among the first companies producing self-expanding tapes (since 1974) and has developed a remarkable competence in all sealing and insulation materials such as steam barriers, self-expanding tapes, polyurethane foams, new generation sealants such as MS Polymer. The new multi-function tapes are protected by international patent: they are the only tapes provided with one or more internal membranes capable to seal the perimeter of the windows with one product only. In the context of PosaClima project they have developed, in particular, the sealing systems both of primary connection (counterframe-wall) and of secondary connection (window-counterframe).



Corà Domenico & Figli S.p.A. since 1919 goes along with the history of wood in Italy. Present on the Italian market with 8 dealers, they promote the diffusion at all levels with a constant, careful and concrete research of the raw material coming from forests certified FSC and PEFC managed in a sustainable way, being a reliable support to the national industry and crafts thanks to their professional competence. They can also count on important plants in Bosnia, Rumania and Africa.



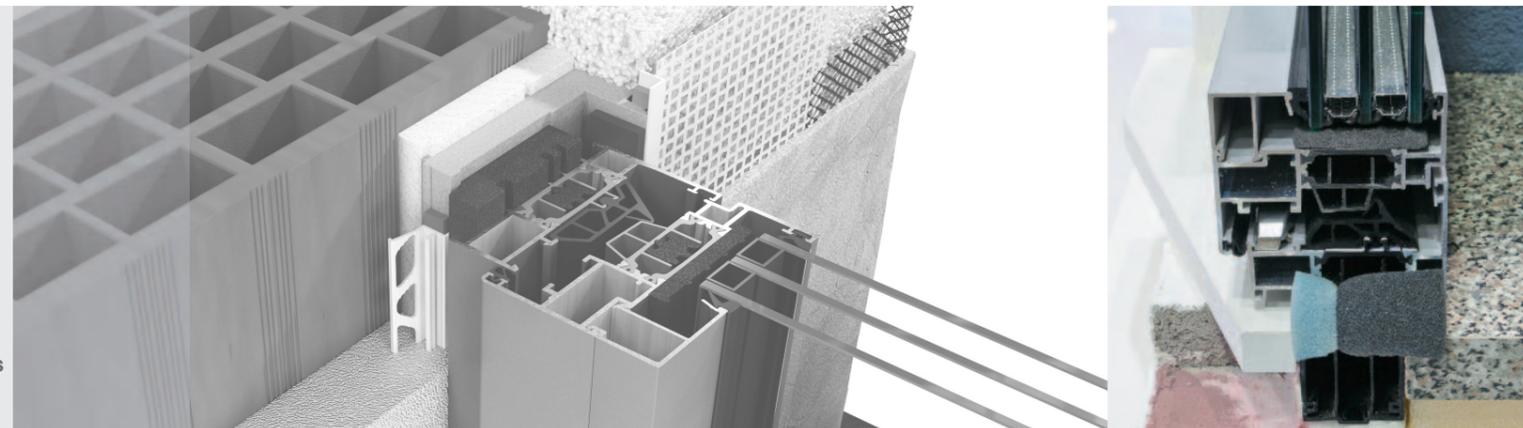
Roverplastik S.p.A., a CASACLIMA partner, is a leader in the production of prefabricated roller blind boxes, thermo-insulated blocks for windows, (RoverBlok contributes to LEED credits), roller blinds, motorized systems for the opening of shutters, aluminium drips and high-quality gaskets for wooden windows. Roverplastik obtained a validity official recognition of the qualified laying method of RoverBlok Energy, which is an essential completion of CE marking of the windows. www.roverplastik.it



The laying system

The METRA range:

- Curtain walls
- Casement windows and doors
- Aluminium-wood windows and doors
- Sliding windows and doors
- Internal doors and partition walls
- Handrails
- Verandas
- Shading systems
- Photovoltaic applications
- Accessories and design complements
- Finishes and colours



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In cooperation with:





1
Profiles

The plaster-holder profiles are gaskets to apply to the counterframe in order to prevent from cracks during the fixing to wall. They are PVC extruded and have, in the side towards the wall, slots which are drowned into the plaster to form one body. On the external edge, besides, a two-coloured polyethylene cover is applied:

- red colour inside
- green colour outside.



2
Air-steam tightness tapes

They are special tapes which prevent from the passage of air and steam. They must be stuck to the counterframe with their self-adhesive side and to the wall by means of a special putty in order to impermeabilize the primary connection (counterframe-wall). They can be used as an alternative to the plaster-holder profiles, but they are always necessary to seal the internal side of the lower transom. Depending on the colour, they have different degrees of impermeabilization.



3
MS Polymer

The MS Polymer is a very innovative fluid sealant. It sticks perfectly to all building materials even when surfaces are wet. It can be painted and does not stain marbles. It has a very high resistance to weather conditions and U.V. rays. We have selected two different formulations: MS Polymer to seal the lower transom instead of using silicone, MS Kleber to fix the tightness tape to the wall.



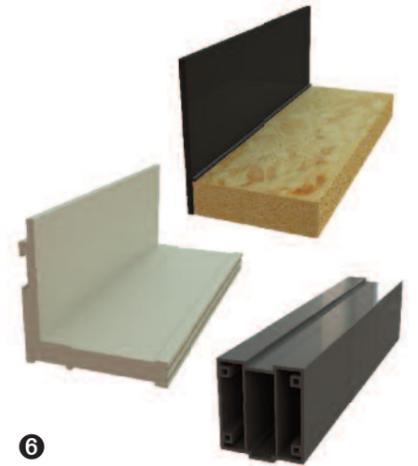
4
Foams

All polyurethane foams shrink in the time and absorb humidity, they are then not suitable to seal the connection points of windows and doors. However, they have good thermal and acoustic performances, that's why they are used in the internal side of the connection in combination with more impermeable materials on the edges. The Elastoschaum foam, highly adhesive on the edges and elastic, follows the dilatations of the connection and lasts in the time.



5
Self-expanding soaked tapes

The self-expanding soaked tapes seal the grooves as a replacement of the foam with better results, are easier to fit, do not dirty and are guaranteed for 15 years of exposition. It is possible to use simple tapes (BG1 with 600 Pa tightness) or multi-function tapes which are provided with internal membranes. They are a patent of Hanno company and offer exceptional air and water tightness but also thermal and acoustic performances.



6
Counterframes

In the last 10 years the windows evolved in a significant way, while the counterframe is still the same to the one used 30 years ago. The new Klima and Technica counterframes ensure very high thermal performances, they are easy to use and solve the typical defects of wood and metal sheet. They are the best solution for the high energy-performance windows.

