

01/05

BT1 SYSTEM T-STRUCTURE PRESENTATION



BERGAMI
CLADDING SOLUTION SYSTEMS

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Dear Customer,

The choice of façade cladding is an essential aspect that will allow you not only to make the building more aesthetically pleasing, but above all to protect it over time, to increase the value of the property, energy performance and indoor comfort and, above all, to zero the impact of routine maintenance that over time affects classic plaster-clad buildings. Offering great creative freedom, our company's systems allow designers to create any type of ventilated façade, as well as cladding even for false ceilings, transforming buildings into real architectural jewels.

Andrea Bergami





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THE BERGAMI COMPANY

Bergami is a company operating for almost 40 years in the field of ventilated façades and, more generally, of façade coverings that can be defined as "hi-tec."

Through the experience gained first as a direct operator on the end customer and, later, as a service provider for companies in the sector, **we have come to develop, patent, use and refine our substructure systems, completely different from the conventional form adopted by the market and the technical evolution concerning them.**

Our philosophy is based on the aesthetic result and practicality of use.

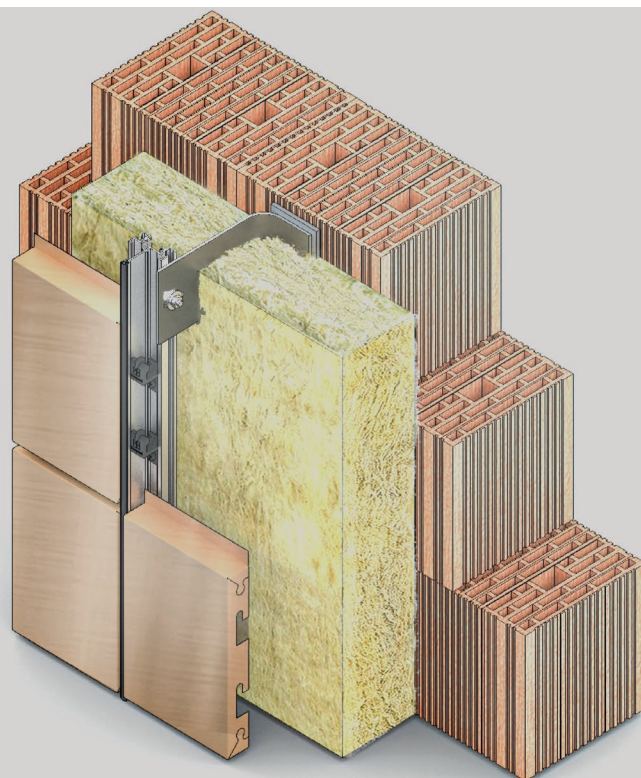
Offering Bergami systems today, means

differentiating yourself from all others and standing out for uniqueness and fine finishes from the standard market offerings.

bergami

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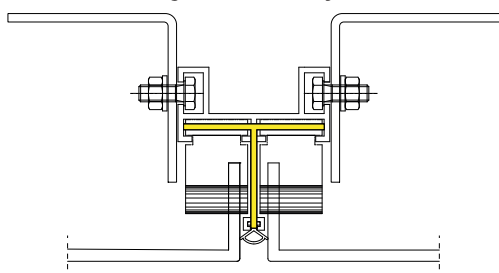
WHAT IS A "T" SYSTEM

The traditional concept of using substructures passes through the classic "U" profile, with a single anchoring system that takes the two panels on the vertical rib joint.

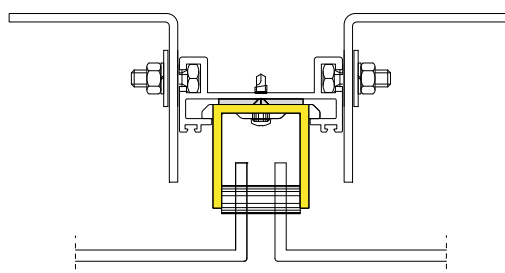
Our revamped systems definable as "T," differ from the others by having, as their main feature, a reinforcing core that acts as a vertical gasket door closing the cen-

tral joint between the panels.

"T" system closed joint



"U" system open joint





THE FOUR STRENGTHS OF THE BT1 SYSTEM

01

Architectural aesthetics

The vertical gasket-bearing core and split pegs for anchoring the panels allow to realize solutions with unparalleled architectural freedom, including: staggered horizontal joints and different forms and projections, all with great ease and speed of installation.

02

Hygiene and safety

Being a “hidden” escape system, the creation of receptacles (dirt and insect nests) is eliminated, making it easier to clean and increasing the safety of the system in pedestrian areas, avoiding accidents due to the natural correlation between: children, open escapes and natural curiosity.

03

System versatility

Range of profiles and accessories able to offer the designer the ideal solution for every architectural problem. Aesthetic result and ease of installation allow for rapid intervention and cost savings.

04

Physical-mechanical performance

Having “gasket door reinforcement” in the thickness of the structure plus the panel, the BT1 system offers higher stiffness performance and wind stress resistance than any other system, staying within a 68 mm package. The gasket ensures sealing of vertical alignments subject to expansion from thermal cycles. The system guarantees excellent performance in any environment, use and climate zone.

01

Architectural aesthetics

- 1.** The central core of the M-BT1 and MT-BT1 profiles, which acts as a seat for the G-BT1/2 vertical shutter seal, provides a solution that cleans the vertical joint by concealing the bottom of the structure and the attachment accessories.
- 2.** This concealed joint system, in addition to standard use, lends itself perfectly to solutions for: indoor hospitality areas, lobbies, areas adjacent to high-traffic footings, balconies, terraces, etc., while safeguarding the cleanliness and essential aesthetics of the work.
- 3.** The advantage of having, on the M-BT1 frame, split sliding and peg adjustment seats, offers the possibility of executing façades with architectural solutions of staggered horizontal joints, without having to add pegs on the frame and modify/distort the standard machining in the positioning of the attachment notches on the panels.
- 4.** In the case of zero architectural joint, the MT-BT1 frame offers the possibility of housing the panels on a single PA-BT1 rung, maintaining the possibility of fixing one of the two panels on the central core.
- 5.** Where the combination of architectural vertical joints with zero plus reduced thickness is needed, the MC-BT1 offers “minimal” solutions, both in terms of costs and dimensions.

02

Hygiene and safety

- 6.** Being a “closed leakage” system (always referring to a ventilated façade), the creation of insect nests and the formation of hard-to-clean receptacle areas is eliminated.
- 7.** This system does not neglect the safety factor, especially in areas where children can access it; the closed vertical joint, in fact, prevents finger insertion injuries; the problem of the horizontal joint, on the other hand, can be obviated by reducing it to an architectural zero, or by widening it appropriately.

03

System versatility

- 8.** The system offers great creative freedom in the search for the ideal technical-implementation solution: 10-mm garnished vertical joints (68 mm thick: MT-BT1 and/or M-BT1), variants for zero joint (68 mm thick: MT-BT1), or zero joint using the MC-BT1 frame with the PA-BT1 peg. In the latter case, the thickness of the package drops from 68 to 51 mm (ideal for balconies). All while remaining within a package (metal structure and panel) of 68 or 51 mm.
- 9.** The MT-BT1 profile was developed for specific solutions: wall terminals and counter-frames or curtain wall. Its use matches perfectly with the standard M-BT1 profile.
- 10.** The system itself offers great convenience and intuitiveness of installation, especially that of: wall terminals, window frames, corners, round and square pillars. These elements can be fastened by passing through the central structural gasket-carrying core of the M-BT1 and MT-BT1 frames, making them integral and capable of self-supporting without further bracketing (consistent with the weight and structural tightness of the material composing the panel). The same applies to situations in which it is necessary or advisable to secure the panels, for example: suspended ceilings, under-square mainsails, overhangs without rear shielding, etc.
- 11.** BT1 system profiles accommodate extruded housings for 3.5-mm self-tapping screws. These make it possible to create mainsail templates for circumventing overhangs and creating free architectural forms; their placement in the profile templates, also allows the creation of angles on both axes of profile section "x" and "y," forming right, left, inside, outside angles, as well as "T" intersections (after profile shimming).
- 12.** It is possible to make out-of-square mainsail structures easily by machining the profiles like any window frame extrusion, in order to conform to the required forms; the same can be calendered to make both concave and convex curved solutions.
- 13.** In the case of façades inclined on the "x", "y" and "z" axes, any lateral panel load can be rested comfortably on the central core of the frame, providing a secure support that can ensure the division of panel row loads on the relevant frames, avoiding, where possible, carpentry, brackets and special fastenings (all systems that burden additional costs and additional laying).

04

Physical-mechanical performance

14. The BT1 ventilated façade system, offers excellent torsional stiffness and resistance to wind stress in pressure and depression superior to normal “U” systems, all while remaining within a 68 mm panel structure package, without having to have additional reinforcing cores (such as “U” systems with a rear reinforcing core that forces exaggerated overhangs). This system allows to reduce the brackets up to interaxes even beyond 2 m.

15. The function of the G-BT1/2 center gasket is twofold: to aesthetically close the 10-mm vertical joint and to ensure the spring effect that restores panel alignments following expansion from seasonal thermal cycles. This second feature ensures that the panels do not have to be individually fastened to ensure their alignment over time; this allows each standard warp panel to be replaced without having to dismantle entire vertical façade sections and columns to access the fasteners of the panel that is damaged and needs to be replaced.

16. Where necessary, the “minimal” MC-BT1 profile for concealed connections or zero-gap laying can be implemented by the R-BT1 reinforcement. The two elements together provide the same front structural performance as the M-BT1 and MT-BT1 frames.

17. In the case of horizontally developed paneling, the M-BT1 frame (in the vertical joints) can be alternated, together with the coupling of MC-BT1 + R-BT1 frames (hidden hooks divided in the width of the panels). With this configuration, an even distribution of the bracket grid is ensured.

18. The PA-BT1 machined aluminum peg is the solution that has ensured our success over time: great load-bearing capacity, stability and durability over the years, providing a technical solution if the metal accessory is needed.

19. With the new PN-BT1 peg made of nylon mixed with a V0 flame retardant (classified according to the UL94 self-extinguishing test) and a percentage of glass fiber, we complete the range of accessories by offering an innovative solution from a technical, practical, and economic point of view. The new PN-BT1 plastic peg offers a lateral panel retention system to facilitate the installation and stability of paneling on: boards, corners, and various terminals (referring to limited overhangs).

20. The brackets are designed to withstand loads and application solutions, both standard (STD 75 - 100 - 200/230) and customized ones. They are supplied complete with 5 mm ISO-PLATE 5 insulation shim and the bracket/mounting bolt kit.







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Stay tuned to our channels to be constantly updated on new products and technical specifications.

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VENTILATED FACADES AND CLADDING

The only system with closed-gap
vertical gasket and staggered panels



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