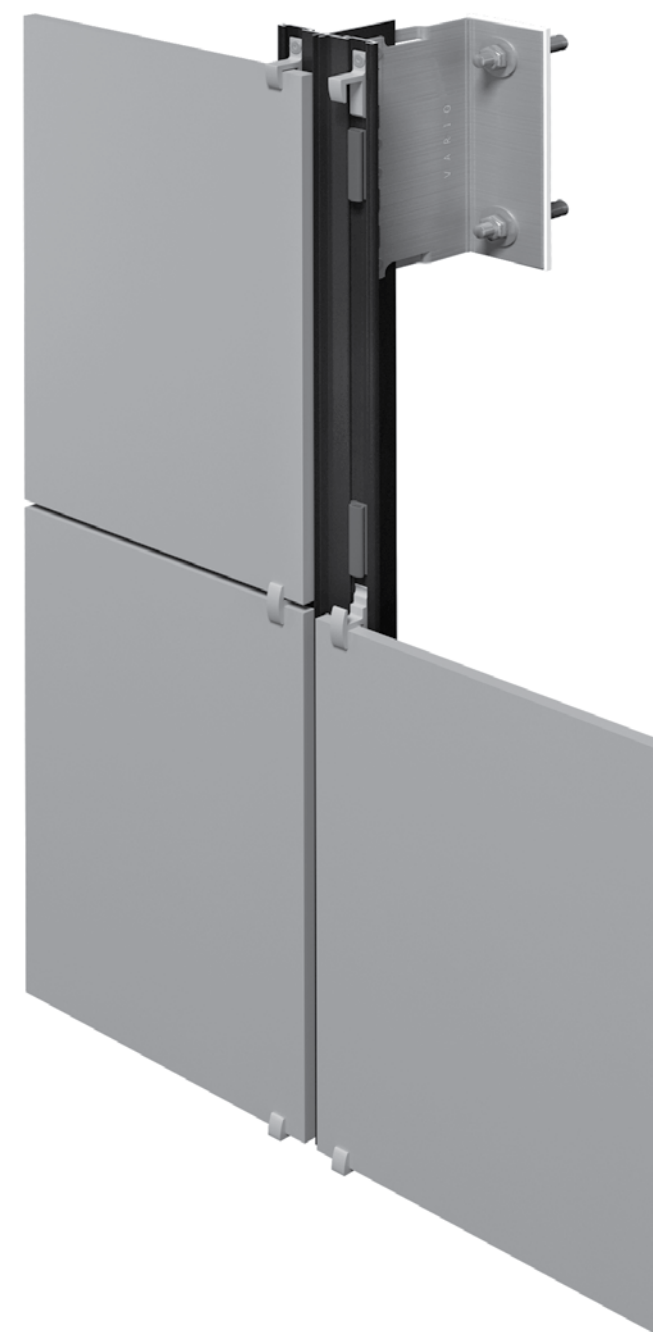


VARIO

VENTILATED FAÇADE SYSTEM

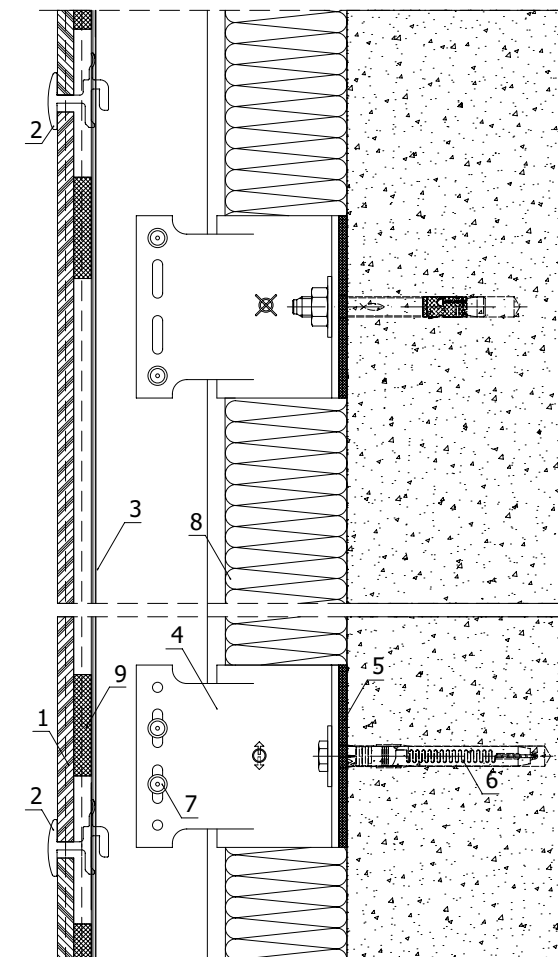
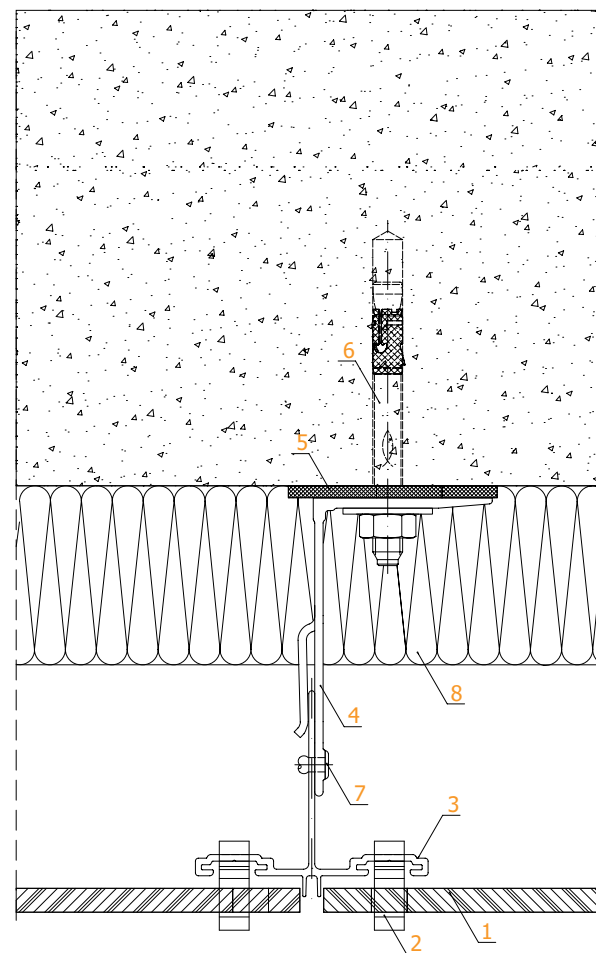
MAR/2010



VENTILATED FAÇADE SYSTEM VARIO IS DESIGNED FOR VISIBLE MOUNTING OF THIN AND SMOOTH FAÇADE MATERIALS THROUGH CLIPS.

Specially constructed profiles and accessoires for the VARIO system allow for secure mounting of hpl, fiber cement and ceramics less than 12 mm in thickness.

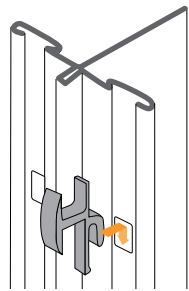
VARIO system is created based on leading standards (UNI7965,DIN18516) and European regulations, which are applied by ETEM Building Systems. VARIO is designed based on EIS (ETEM INTEGRATED SOLUTION). EIS is a complex of procedures and regulations for construction, whose goal is the creation of architectural systems with the highest level of security, optimal design and ease of usage.



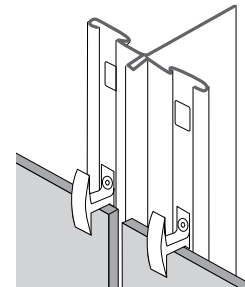
1. light ceramic tiles and thin stone
2. clip
3. main profile
4. fixing bracket - 100 mm
5. thermo insulation pad
6. anchor / plug
7. rivet 4.8x12
8. thermal insulation with black veil
9. supporting buffer

THE VARIO VENTILATED FAÇADE SYSTEM THAT USES VISIBLE MOUNTING THROUGH CLIPS, HAS THE FOLLOWING ADVANTAGES:

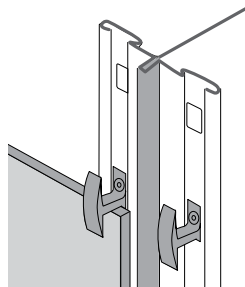
1 Fast and precise installation without usage of special equipment. The main profiles are specially punched in sizes that correspond to the size of the façade material. The façade material is fixed by means of clips, hanged in the punches of the main profiles.



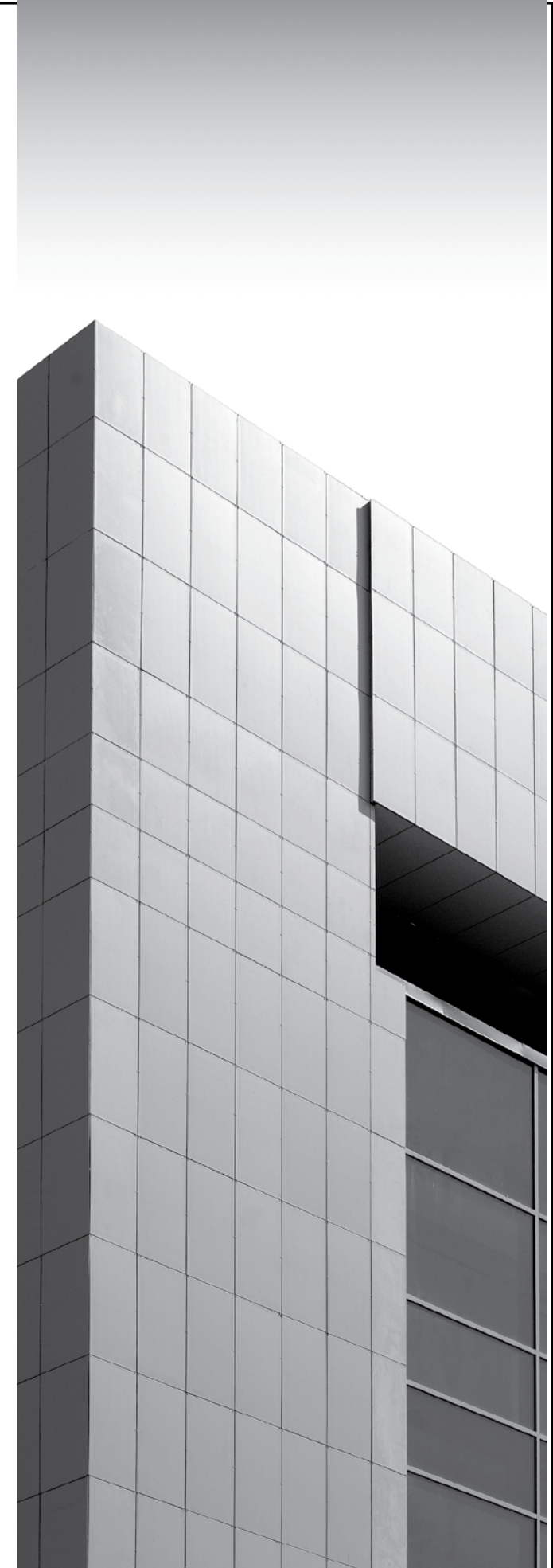
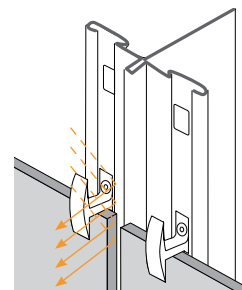
2 Easier alignment of the vertical grout between the tiles through the main vertical profile whose special shape limits their movements in the horizontal direction.



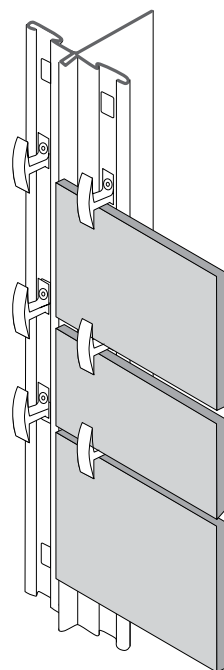
3 Possibility for colour finishes of the visible part of the grout profile in order to match the façade material.



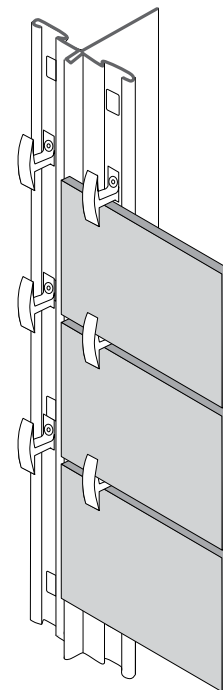
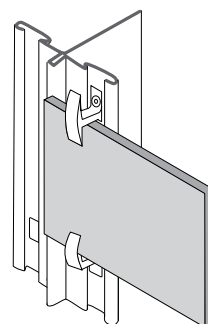
4 Improved protection against "shaving" rain.



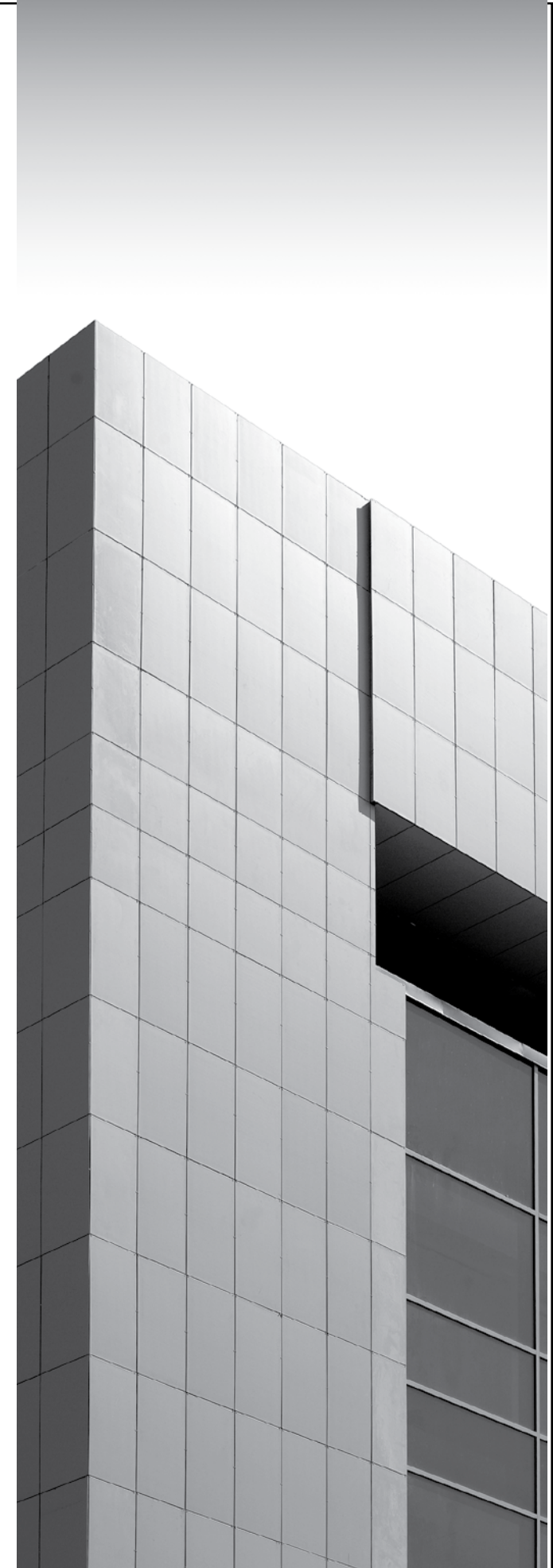
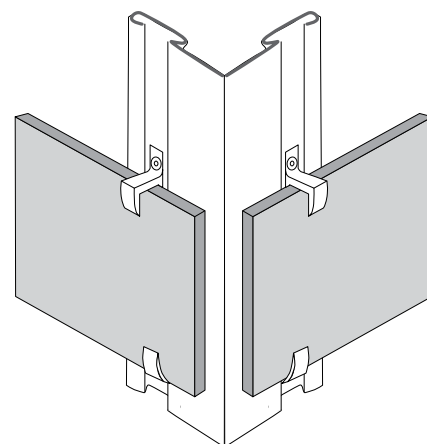
5 Possibility for production of profiles that allow for the mounting of tiles with different heights on the main profile.



6 Possibility for production of main profiles with different lengths.



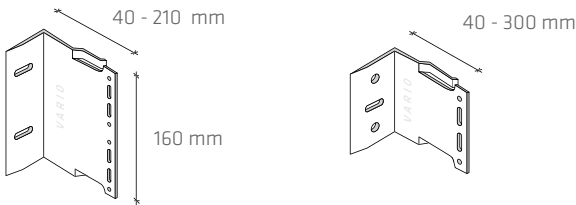
7 The both-side punched main profile is an excellent solution for reversals of windows located near construction bases (up to 50mm) and for installing of façades on columns.



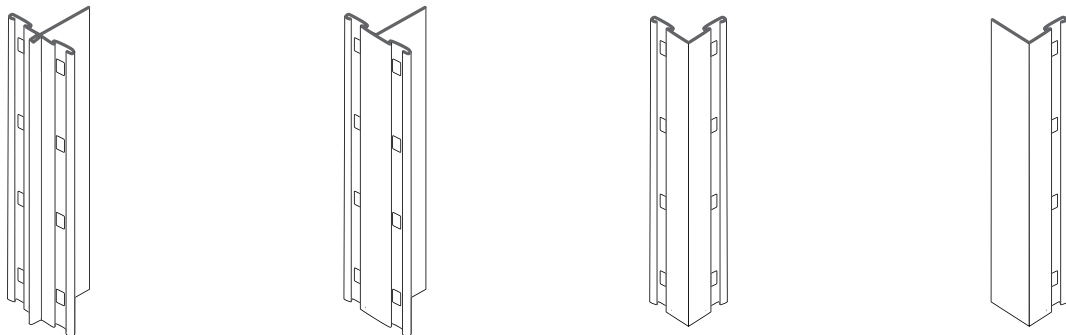
SYSTEM PROFILES AND ACCESSORIES

The system is equipped with finishing profiles and special accessories, allowing the accomplishment of unique details, finishing and transition to other cladding materials.

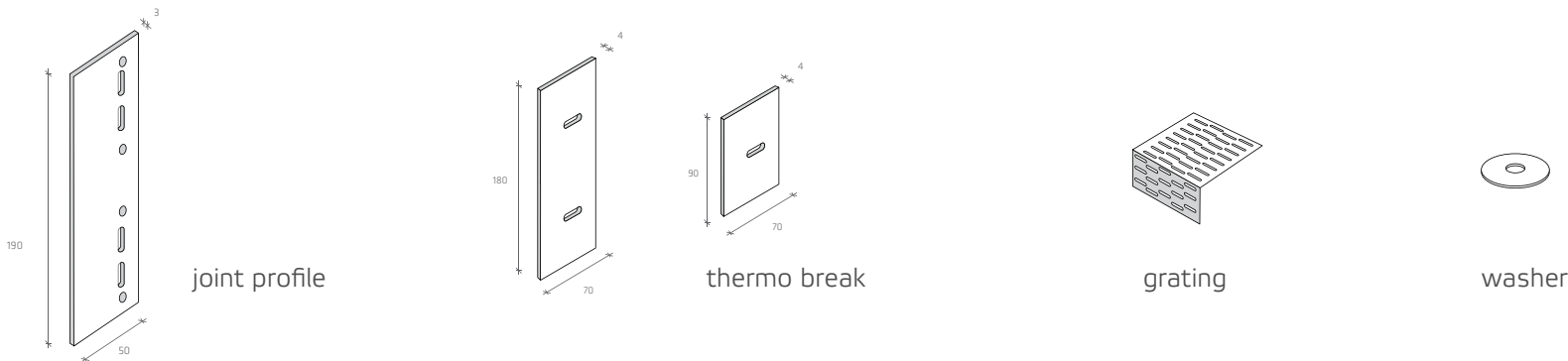
fixing
bracket



main
profiles



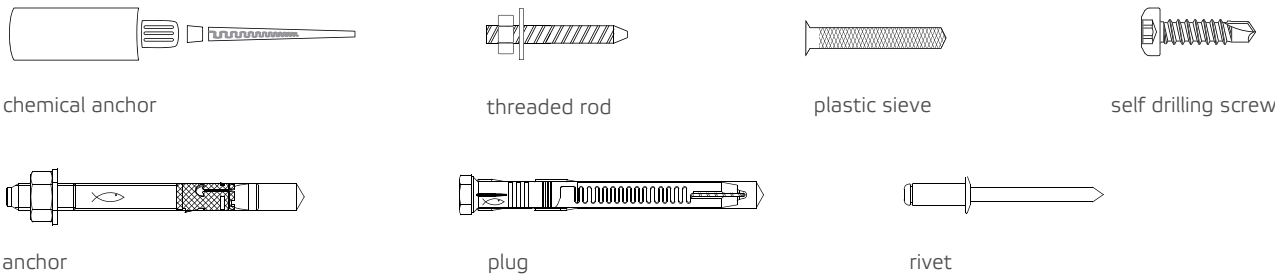
accessories



system
accessories



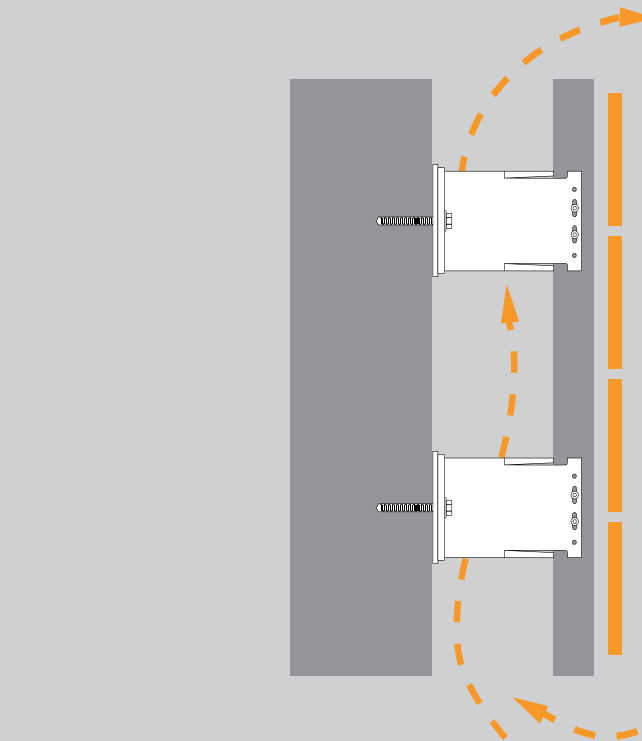
fastening
elements



VENTILATED FAÇADE SYSTEMS ARE CONSTRUCTED TO ALLOW SECURE MOUNTING OF DIFFERENT FAÇADE MATERIALS TO THE CONSTRUCTION BASES OF BUILDINGS.

Ventilated systems are based on the principle of natural ventilation, which is achieved through an air gap (4-8cm) between the façade material and the thermal insulation.

Ventilated façade systems are constructed to allow secure mounting of different façade materials to the construction base of the buildings. All ETEM elements designed under EIS are dimensioned using a finite element method with the ANSYS program. Maximum stresses and creeps are pre-simulated. In this way the optimal shape of the profiles and accessories is achieved assuring the highest reliability.



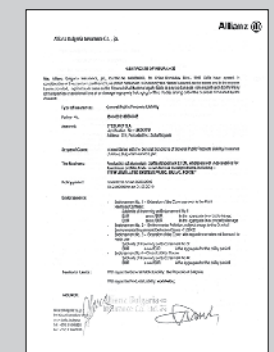
increased fire resistance



high level of noise insulation



water permeability



Marginal eligible stresses, deformations, and security ratings of the system are lined with ENV 1999 -1-1:1998, Eurocode 9: Italian standard UNI 11018; DIN 4113



high energy efficiency



high energy efficiency



natural ventilation

ETEM.*Think* Adaptive

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