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Sto Ltd | Façade

**Façade profiles  
StoDeco**

Renewing and preserving the style, aesthetics and beauty of times past  
– StoDeco Profiles lend a new lease of life to old façades and protect  
modern architecture for decades to come.

Wind and weather influences, heat, cold and a continual alternation  
between wet and dry conditions really take their toll on façade profiles  
and rustications. This is why Sto uses its Verofill material, attaching  
overriding priority to weather resistance and the very best physical and  
mechanical properties for the system elements. StoDeco Profiles are  
light in weight and form a particularly durable bond with the renders  
and paints from Sto.

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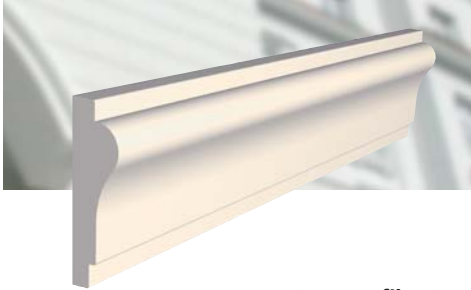


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## Only the best is good enough.



Investors seek security. The assurance that their buildings will stand for decades, that they will have a lasting aesthetic appearance, that elements such as façade profiles can be installed and crafted with the requisite standard of quality. Specifiers, building owners and applicators alike rely on first-class materials for lasting quality.

### Case profile: Quality

Verofill, the exceptional material employed for the StoDeco Profile system, is extremely durable, easily workable and offers excellent value for money. Verofill is a unique composition consisting of a lightweight mineral material and suitable binders which are pressed into formatted blocks in a multi-stage thermal process. The desired profile is then produced from these blocks on state-of-the-art CNC milling machines which are also able to fashion 3-dimensional decorative elements, company logos or lettering.

### Case profile: Reliability

Verofill is a homogeneous, solid material made from 96% recycled materials. It offers all the key properties required of a façade profile:

- Resistance to environmental influences
  - High chemical resistance
  - High resistance to breaking
  - Low weight of only 550 kg/m<sup>3</sup>
  - Easy to repair, if needed
  - Low linear expansion (1/7 that of polystyrene) resulting in low susceptibility to cracking
  - Lasting attractive appearance, no water-soluble constituents
  - Minimum water absorption, ruling out frost damage
  - Impact-resistant, robust, suitable for reprofiling
  - Excellent surface texture ensuring reliable coatings, whether smooth or rough
  - Easily workable, ensuring swift and exact installation
  - Incomparably short delivery times
  - Particularly attractive proposition for protected historical buildings
  - Suitable for use in all the world's climatic zones
- For the investor and the applicator, this means
- safer investments
  - Higher value retention
  - More reliable standards of craftsmanship
  - Improved protection from vandalism



Mendelsohn Palais, Berlin  
Architectural firm: Sadowski & Lebioda, Architekten  
Stuhlemmer Architekten



Hotel Monopol, CH-Luzern  
Architectural firm: Wigplan AG



Cecil Office Building, Athens  
Architect: Keti-Christina Anastasaki

### Standing firm

Environmental influences have a particularly severe impact on classical façades. Even sandstone profiles cut by a stonemason have no lasting resistance, and are usually unaffordable as original replicas. Elements made of Verofill are the perfect alternative here.

A general test certificate issued by the building inspectorate confirms the dependability which is required of a modern building material.



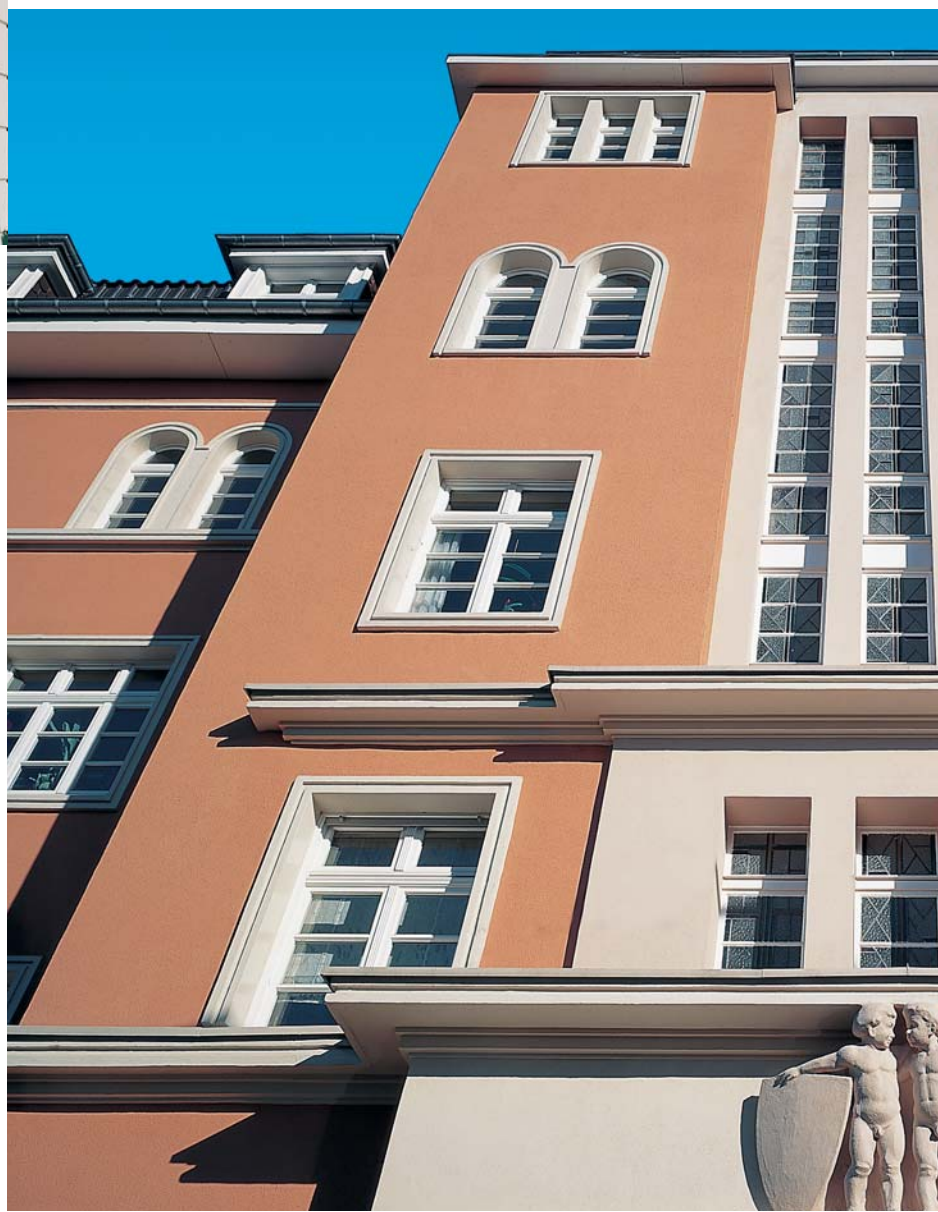
K+L Ruppert, Rosenheim  
Architectural firm: ATP

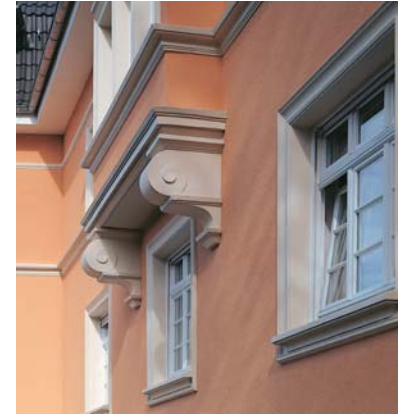
## Profiles and rustications for added value.

The StoDeco Profile system allows specifiers absolutely free rein with regard to both design and execution. The unique properties of the employed material enable creative and practical solutions at affordable costs. As such, the system represents a means of creating and preserving value.

### A solid investment

When the end costs remain the same, building owners and investors will opt for the better material in the guise of Verofill. As for the alternatives – foamed two-component hard-shell profiles can prove critical with regard to mechanical stress, impact resistance or the penetration of moisture into butt joints. Other materials such as concrete are susceptible to fracturing and to wet, and are substantially more difficult and cumbersome to work. Heat bridges often occur, and these may lead to condensation.





### **Quality workmanship**

StoDeco Profile is produced in Verofill, a material offering a host of advantages when it comes to working and installing the Profiles on site. Thanks to Verofill, the StoDeco Profile system is

- light in weight and thus easy to handle
- very quick to fix into place
- installation- and repair-friendly,
- solid and homogeneous, resulting in a surface which is resistant to compressive stress

StoDeco Profiles ensure neat and swift workmanship, and quality becomes a matter of course. The coating - be it smooth, rough or textured - forms a durable bond with the substrate (in the interests of reliability, we stipulate coating systems from Sto AG).

### **Remarkably authentic**

Windows and doors are a building's eyes, façades the mirrors of their times. They reflect the prevailing architectural style of their era and the individual taste of the building's creators. The design of the rustications and profiles is equally individual and diverse. From the strikingly ornate to the plain and functional – StoDeco Profiles meet all the needs of every type of reproduction and new design. And when it comes to listed historical buildings, StoDeco Profiles are often the only viable solution. On request, our technical consultants and the Sto Design Studio will be pleased to assist planners in matters relating to points of detail and colour schemes for complete façades with the StoDeco Profile system.

Town hall, Demmin  
Architectural firm: Bauplan Consult GmbH, D-Neubrandenburg



Residential building, D-Lippetal

## Modern Design – of timeless elegance.

Whether specifiers and building owners opt for classical forms or their own individual design, design elements to meet every wish can be fashioned with StoDeco Profile.

Modern, classical, Art Deco or Bauhaus: StoDeco Profile offers the specifier virtually unlimited scope for façades with a definitive individual touch.

### Individuality is our standard

The StoDeco Profile range embraces a broad spectrum covering the most diverse design options. Forms and contours complement one another to produce a harmonious overall appearance and allow reproductions of façades which capture the full charm of past eras.

Equally, highly individual profiles or ornaments can be produced according to the user's own designs. The homogeneous, solid material ensures technically perfect solutions here. Mitre cuts can be produced for perfect fits without breaking the sometimes delicate contours, and cranks and offsets present a seamless appearance. The material has an extremely low coefficient of expansion of only  $8.8 \times 10^{-6}$  m/mk. StoDeco Profile thus remains virtually impervious to extreme temperature fluctuations.





While rigid foam profiles require to be sealed after cutting, StoDeco Profile is as compact as stone. And while plastic linings harbour the risk of moisture penetration and frost damage, StoDeco Profile is solid through and through. This again broadens the design scope and ensures dependability at the building site.

#### **A stylish finish with decorative panels**

StoDeco Profile offers numerous decorative panels, for example, with edges in designs ranging from straight through angular, trapezoidal and concave to convex. This scope of choice provides for interesting joint patterns or enables variety to be introduced into large areas.

StoDeco Plan elements are optionally available with custom profiled edges and are produced as standard in 5 mm increments up to a panel size of 1200 x 2400 and a thickness of 15 to 40 mm.

#### **Arches, rustications and supports**

The homogeneous material is ideal for massive elements such as keystones, sill supports, cornices and window sills. Circular, gothic ogive and oval or elliptical arches with large spans can also be produced in a large number of different profiles and radii.

Most of the Profiles are suitable for drilling and dowelling. Static support by suitable structures is imperative for elements of a heavier weight due to their volume and window sill elements which are required to support flower boxes.



Apartment complex, Hohenschönhausen  
Architects: Arch. Pudritz & Paul, Berlin  
and Dipl. Ing. Arch. Paul Hoppenbrink, Berlin



Sauer textile store, Siegen

## Uniquely individual

The homogeneous material consisting of hollow silicate microspheres offers unique design scope. Virtually any design can be realised, from delicate profiles to solid capitals, 3D elements and even composite hollow bodies.

### Custom designs to your specifications

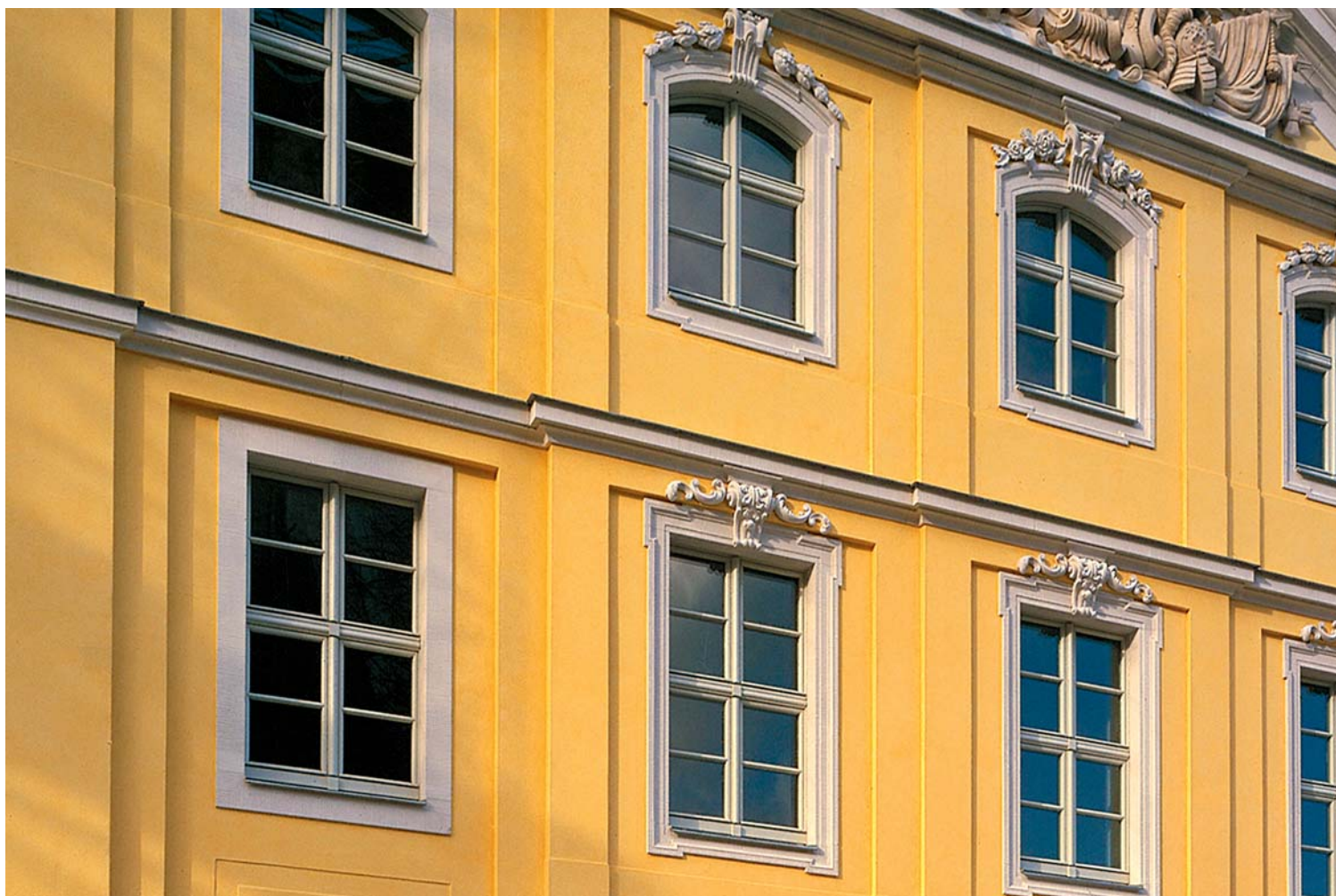
Made-to-measure elements are often the only viable option for protected historical buildings or renovation projects. StoDeco Profile offers highly authentic reproductions here. Along with new, modern elements - all produced precisely to the specifier's specifications.

### Seamless composite profiles

Elements consisting of several parts may be necessary for particularly complex profiles.

In this case, the segments are seamlessly joined to produce a single profile. When high weights are involved, it may be necessary and expedient to integrate steel profiles.

Sto offers the most diverse solutions for individual designs. Capitals and segmented column linings can be produced, for example. Or geometric forms can be cut from panels of varying thickness as decorative elements to add a touch of variety to façades covering large areas.



### 3D StoDeco Profile

#### Façades in the third dimension

The three-dimensional StoDeco Profile ornaments or design elements such as crests offer unusually creative ideas for façades requiring a very special character. It often takes only a few special details to transform unprepossessing surfaces into attractive façades.

#### Prime choice for protected historical buildings

Verofill is predestined, like no other material, for use in the production of replicas, thanks to its stone-like look and its special properties. The authentic reproduction of old stonemasonry using new materials enables even the most difficult tasks to be met in protected historical buildings. StoDeco Profile replicas are accepted by no less than the German state authorities responsible for the protection of historical buildings as adequate substitutes for travertine or sandstone, for example.



Aghia Photini church, Athens, Greece  
Architect: Georg Zambelas, Athens



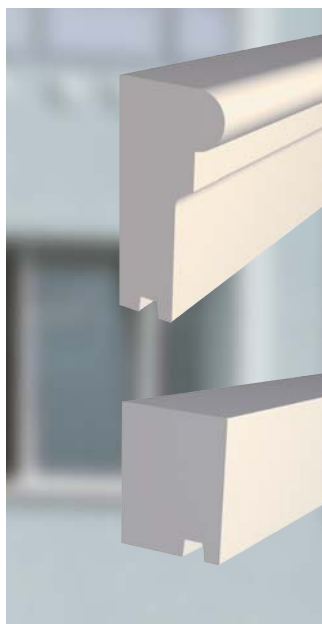
Cosel Palais, Dresden

## Variety abounds

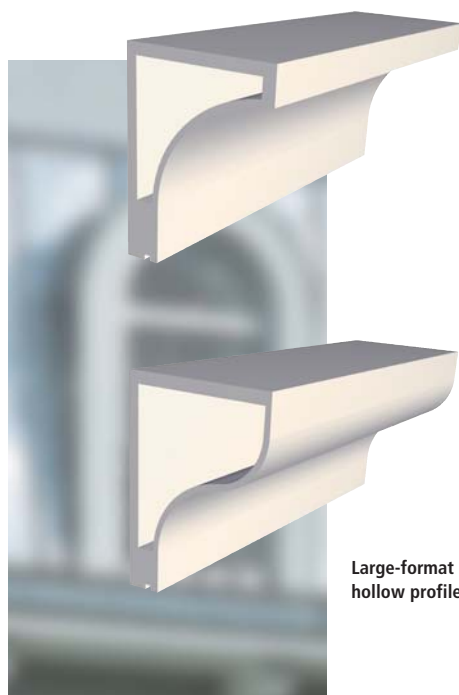
The StoDeco Profile system offers a diverse selection of frame profiles, window sills and cornices, arches, rustications, sill supports and keystones, capitals and plinths, columns and decorative elements.



Frame profiles  
in the most diverse  
variants



Window sills,  
cornices

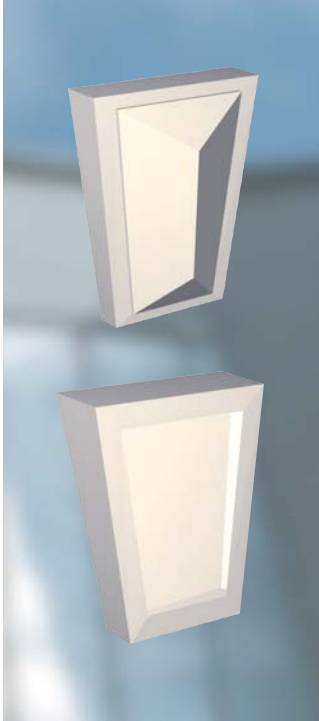


Large-format  
hollow profiles



Circular, oval, elliptical and  
gothic ogive arches consisting  
of frame profiles

Keystones



Half-capital,  
half-plinth



Sill supports



Rustications and  
rustication stones



Ornaments



Half-columns with and  
without cannelures



The profiles and elements shown here represent only a small selection from the product range. 3D elements, surface-profiled rustications and rustication stones such as quarry stones or clinker look are also possible. Custom elements are produced on the basis of submitted drawings or original samples.

Please refer to our delivery programme for a detailed overview of all dimensions.

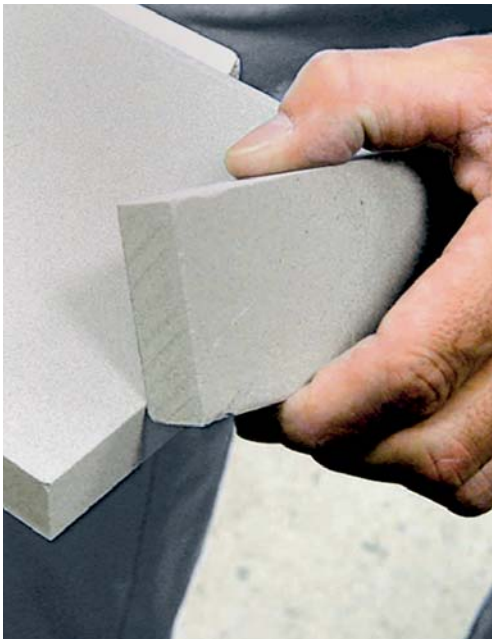
## Quality is the best calling card.

The ultimate result of a craftsman's work is determined by the quality of the employed material, its workability and installation-friendliness and, of course, the craftsman's skill. The StoDeco Profile system provides the basis for perfect workmanship and premium quality.

### Choice cuts

As solid, homogeneous elements, StoDeco Profiles are easily and accurately cut to any size and any mitre angle using standard tools, without any material flaking off. Offsets, angles and frets are produced in neat and simple fashion, without requiring any subsequent treatment. Surplus adhesive resulting from generous application on both sides of joints is simply ground off after hardening.

The following important procedure applies only when installing rustications/rustication stones: The elements to be joined are to be provided with a bevel at the building site by grinding with a residual piece or a grinding block. The joint is subsequently filled with StoDeco Coll with the deliberate aim of producing a visible recess.



### Impact-resistant, robust, repairable

StoDeco Profiles are tough customers. Should damage nevertheless occur, the material can be repaired with StoDeco Coll in next to no time. A clean break does not pose a problem, either. StoDeco Profiles and panels can be seamlessly joined by bonding, without any loss in quality and without impairing their appearance.

### Rest assured

Hallmarks of the StoDeco Profile system are a very dense material, high resistance to chemicals, a smooth surface and exceptional stability. Joints will never be a weak point in the system with this homogeneous material, as it has a coefficient of expansion of only  $8.8 \times 10^{-6}$  m/mk. The material and adhesive are non-rotting.

### Brushing, rolling and coating

The top coat of plaster or paint adds the defining final touch. And Sto offers first-class solutions here, too. StoDeco Profile provides an excellent base for coatings and is designed especially for the plasters and paints belonging to the Sto System, enabling all elements to be coated swiftly and in premium quality. The surface lends itself equally to simple smooth coatings and to rough textures or a sandstone look. Optimum surface bonding can only be guaranteed when using coatings and paints from Sto.



**1. Quick cutting to size**



Thanks to the homogeneous VEROFILL(r) material, the Profiles can be cut to size using a handsaw, for example, resulting in an absolutely clean, burr-free and smooth cut.

**4. Simple bonding technique**



Adhesive is also applied to the wall surfaces using a toothed trowel in a criss-cross motion, whereby the adhesive is applied in the opposite direction to the adhesive on the Profiles.

**2. Exact bonding of elements**




A toothed trowel is used to apply adhesive liberally to both cut edges in a criss-cross motion. Bonding must be carried out wet in wet.

**5. Simple alignment**



After pressing into position, the Profiles can be perfectly aligned with a spirit level.

**3. Neat mitre joint**



The cut edges of the Profiles are pressed firmly together. Surplus adhesive oozes out of the joint and a bonded seam of approx. 3 mm in width is produced. Residual adhesive is simply ground off after hardening.

**6. Perfect finish**



Priming and intermediate coats are applied prior to the final plaster. Top coating with products from Sto AG is the final stage of the process.

General notes

All information and figures have been carefully checked and are in accordance with current practices and standards. They are to be considered as general information and do not take into account the special aspects relating to specific buildings and applications. All the above information is provided without any guarantee of its applicability to a real application scenario. This brochure will cease to apply upon publication of a new edition.

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