

**More than just a facade**

## Is everything just a facade?

No, there's more than that behind Tauber Engineering: A passion for challenging tasks, ideas for polished solutions and lots of experience from the most varied projects.

As engineering consultants for facade design, we support companies, both at home and abroad, in the acquisition, design and the economical implementation of facade projects in Germany.

### **Our services for operating companies:**

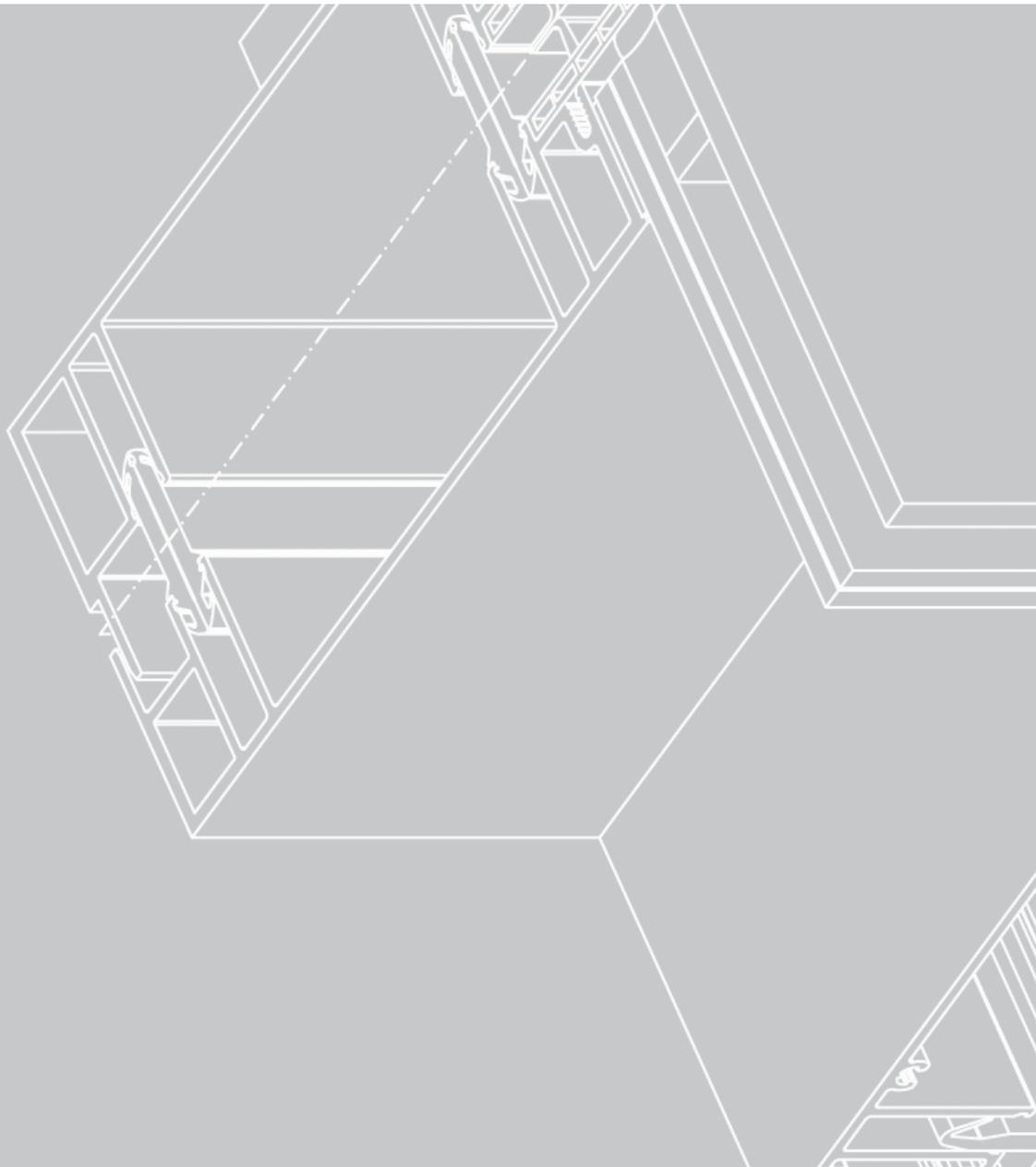
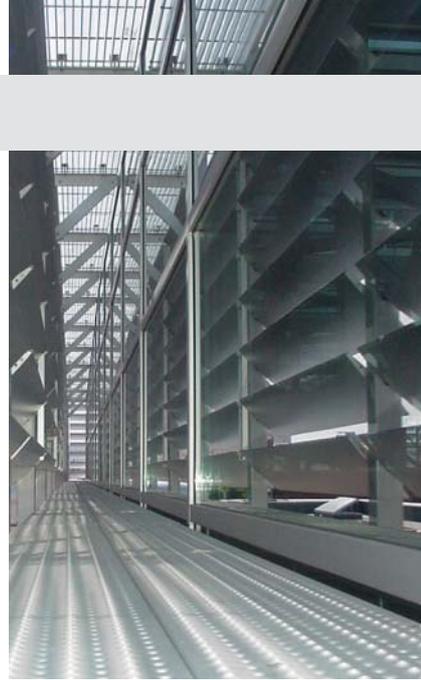
- Facade consultancy founded on success.
- Quality facade design ready for implementation.
- Development of individual facade profiles.

### **Our services for property owners and architects:**

- Special solutions for demanding buildings.
- Facade renovation and modernisation.
- Cost controls through a bonus system.

### **Our services for product manufacturers:**

Development of patentable facade products.





Tauber Engineering was founded in 1988 by Dipl.-Ing. Martin Tauber under the name “Ingenieurbüro Tauber” in Offenbach and converted into a limited company (GmbH) in 2000. In 2005 the company changed its name to “Tauber Engineering” to reflect its increasing international aspect.

During this period, facade technology developed increasingly to an independent field of planning with wide-ranging requirements. Today, Tauber Engineering uses its experience and expertise specifically for refined specialist and also cost-saving solutions for particularly demanding projects. In doing this, Tauber Engineering provides metal construction companies, property owners, architects and facade manufacturers with significant competitive advantages, which, through partnership contracts, turn into profit for both sides.

#### **Latest design tools**

Right from the start Tauber Engineering has used CAD systems which dramatically increase the speed of design. The company now uses the latest design software from our own development, allowing services to be offered at half the rate than at the start.

To check designs for their practicability, additional software is used for statics and for the calculation of isothermal effects.

#### **The basis for success**

- A balanced team of architects, engineers and technicians,
- independent consultancy, planning and development in line with the latest state of the art,
- extensive knowledge and painstaking care, together with plenty of ideas and long experience,
- methodical thinking, stringent working practices and continual on-going development,
- equal shares of aesthetics, technology and cost controlling,
- transparent communication and co-operation in partnership with our customers.

# Our services for property owners and architects

Design requirements, technical feasibility and financial possibilities do not always make up a harmonious threesome for building projects. The elimination of this conflict is our speciality: due to in-depth specialist knowledge, experience from hundreds of projects, the application of the latest design tools, but primarily - through good ideas.

The earlier we take part in the design, then the more probable it is that we can find ways of reducing both the constructional costs and also the operating or maintenance costs. In this regard our solutions never compromise the quality: all aesthetic, technical and legal requirements are, of course, fulfilled by us.



## Special solutions for demanding buildings

Complicated geometry, wide-ranging functional requirements, integration of different subsections: The more complicated the task, the more we are in our element. This is because then specialist knowledge and experience are needed, along with creative ideas and pioneering vision. And we have plenty of all that.

### Consultancy right from the start

Right in the preliminary contract phase we help you to set off in the right direction. Facade, statics, building technology and other components are subject to mutual influences - how do they optimally interact, how is the budget most practicably subdivided?

We provide sound consultancy not bound to a particular system, so that you avoid excessive costs right at the start. Almost always we can find intelligent special solutions with which you can achieve your goals even more economically.

### Works planning/specialist planning

We plan ready for implementation, from the smallest facade detail through to the logistics. We take into account all the requirements of statics and constructional physics and carry out thermal analyses which reliably inform us right at the design stage about the subsequent facts.

Our plans provide clear and detailed information for the tender and can be used directly by the implementing companies. Concepts for the co-ordination of the participating subsections furthermore ensure that no problems occur on the construction site.

### Facade tender and co-operation on granting of the contract

We use our plans as the basis for producing subsection-compatible and detailed tenders. We determine masses and formulate preliminary texts and item descriptions.

Since our planning can be 100% implemented in practice, the implementing companies can incorporate the tender on a one to one basis in their quotation. Consequently, all the quotations can be directly compared and the risk of supplements is minimised.

We also support you during the assessment and check the suppliers for competence, capacity and quality.

### Specialist support in site management

So that you can depend on the quality of the implementation, we take part in construction meetings during the implementation planning and ensure conformance to standards and regulations in construction, building physics and statics.

On the building site we make sure that any defects are found and properly rectified. We also deal with the quality control and documentation on acceptance.

### Why it pays for you to engage us:

- because we also find economical solutions to difficult tasks;
- because our concepts, plans and tenders can be implemented one hundred percent.





## Facade renovation and modernisation

It need not always be a new building. Often a new building shell is sufficient to adapt a structure to the current demands of air conditioning, sound insulation, fire protection or appearance. This works even with on-going use - if you ask us.

### Meaningful consultancy

On a facade every little screw has a function. As experienced architects, engineers and technicians, we know precisely where to intervene when the functions of a facade are to be optimised.

We know - or develop - the appropriate products, we know which parts can be easily replaced and in which sequence it is best to proceed.

We carry out analyses and estimate costs and benefits of the planned measures, such as the energy saving due to new windows.

And if you would like to know how your building should look afterwards, then we can display it for you visually - even in three dimensions and by day or night.



### Works planning/specialist planning

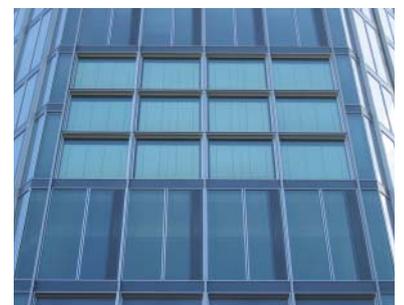
Our plans and concepts can be realised on a one-to-one basis. This also applies when the building is to be used also during the renovation: In this case we break down the necessary measures into appropriate sections and plan the sequences and logistics such that the operation does not have to be interrupted at any time. For example, as with the Neckermann Computer Centre : While the computers operated day and night inside, the new facade was assembled step by step outside.

### Specialist support in site management

On site we operate a quality assurance system for our property. This does not just mean that we participate in on-site meetings and check for proper realization conforming to standards. We also plan and supervise the removal of the old facade and check the quality of the new one, including the acceptance documentation.

### Why it pays for you to engage us:

- because our specialist knowledge and our structured procedure guarantees you the best costs/benefits ratio;
- because our exact planning ensures that your building can also be used during the facade renovation.



## Our services for operating companies

You build facades - as a metal or glass construction company, facade manufacturer or general contractor, national or international? We support you - with company canvassing and contracts, planning and product development and with special knowledge of the German market. Your benefit: Competitive advantages, fair contracts and cost reductions.

### We advise you: on canvassing, quotations, contracts.

If you would like to canvass for a complex project, if you have to draw up a quotation in the shortest possible time or there are contractual conditions to negotiate: Just ask us! Without obligation.

#### Partner in technical and contractual questions

You can depend on us already in the preliminary contractual phase. As a design office for facade technology, we will produce quotation documentation for you and work out time-saving and cost-saving special solutions with which you can score over the competition.

We will conduct negotiations for you, check contractual elements relevant to the design and make sure that only services conforming to the contract are asked of you. As architects and engineers, we speak the language of both the designer and the implementing company and so we can also intervene when difficult questions arise.

For a fee we can represent your interests with your contractual partner, also in the implementation phase.

#### Why our consultancy pays off for you:

- because our suggestions give you a decisive competitive advantage during canvassing and for the quotation;
- because our support with negotiations and the contract protects you from unreasonable demands;
- because our consultancy does not cost you anything if you do not obtain the contract.

### We design for you: innovative, precise in detail, economically.

So far we have always been successful in fulfilling all the demands on the function, technology and aesthetics of a modern facade, while also reducing the costs.

How? With the ingenious ideas of our architects, engineers and technicians, with experience from hundreds of projects and with the application of the latest design tools.

You can depend on our designs. They give you design reliability, save effort and reduce your risk. Well thought-out detailed planning for materials, assembly, engineering and logistics give an overview and ensure smooth-running implementation.

#### Why our planning pays off for you:

- because, due to our well thought-out solutions, you can realise more economical facades;
- because you can depend on our detailed designs and can directly implement them;
- because you save your own design resources and can concentrate completely on production and assembly.

### We develop products for you: project-specific or patentable.

In many demanding projects we have learnt what existing facade systems achieve - and what they don't. It is from this experience that we develop our products for you: tailor-made for a special building or patentable for long-term marketing. We handle the complete engineering work for the development and take into account all the requirements of statics and constructional physics. With new profiles we can also carry out the constructional physics classification (determination of the Uf values).

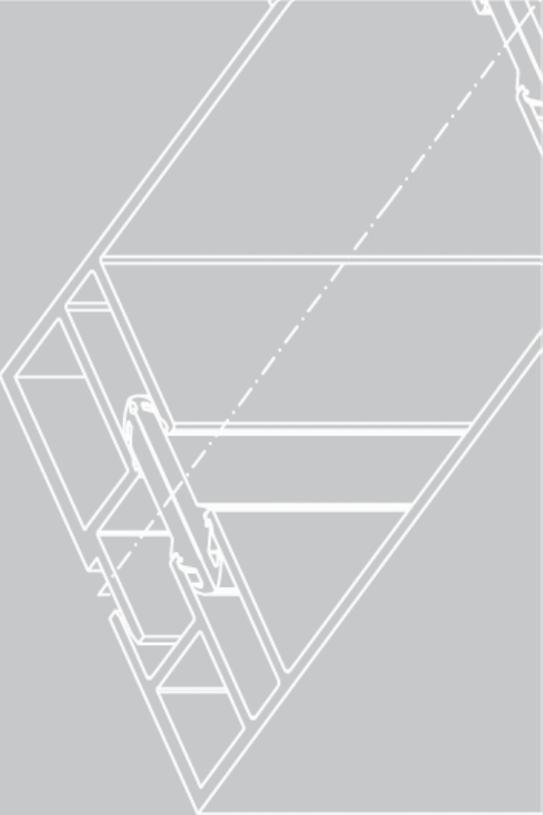
For "Garden Towers", for example, we developed about thirty new profiles with which the three types of facade arising on the building project could be combined as required. In this way we were not only able to fulfil the aesthetic wishes of the architect, but rather also our customer's requirements for a practicable and economical solution.

#### Why our product development pays off for you:

- because, due to our optimally matched elements, you save time and costs during production and assembly;
- because you can manufacture and market new products without having to run your own development department;
- because you can achieve a better position in the market through the marketing of patented facade elements.



## Our services for product manufacturers



Ventilation and thermal insulation, solar control and damp protection, sound insulation and fire protection... A modern facade must provide a lot - and should in addition also have an attractive appearance. This demands cleverly thought out facade technology in which each element optimally fulfils its function. Here, often an intelligent detail is sufficient to improve a good facade system still further. We have developed such details - facade profiles, joints, subconstructions - in many projects and have thus not only improved the functions, but also reduced the costs. Some of our developments have been patented and are marketed successfully by our clients.

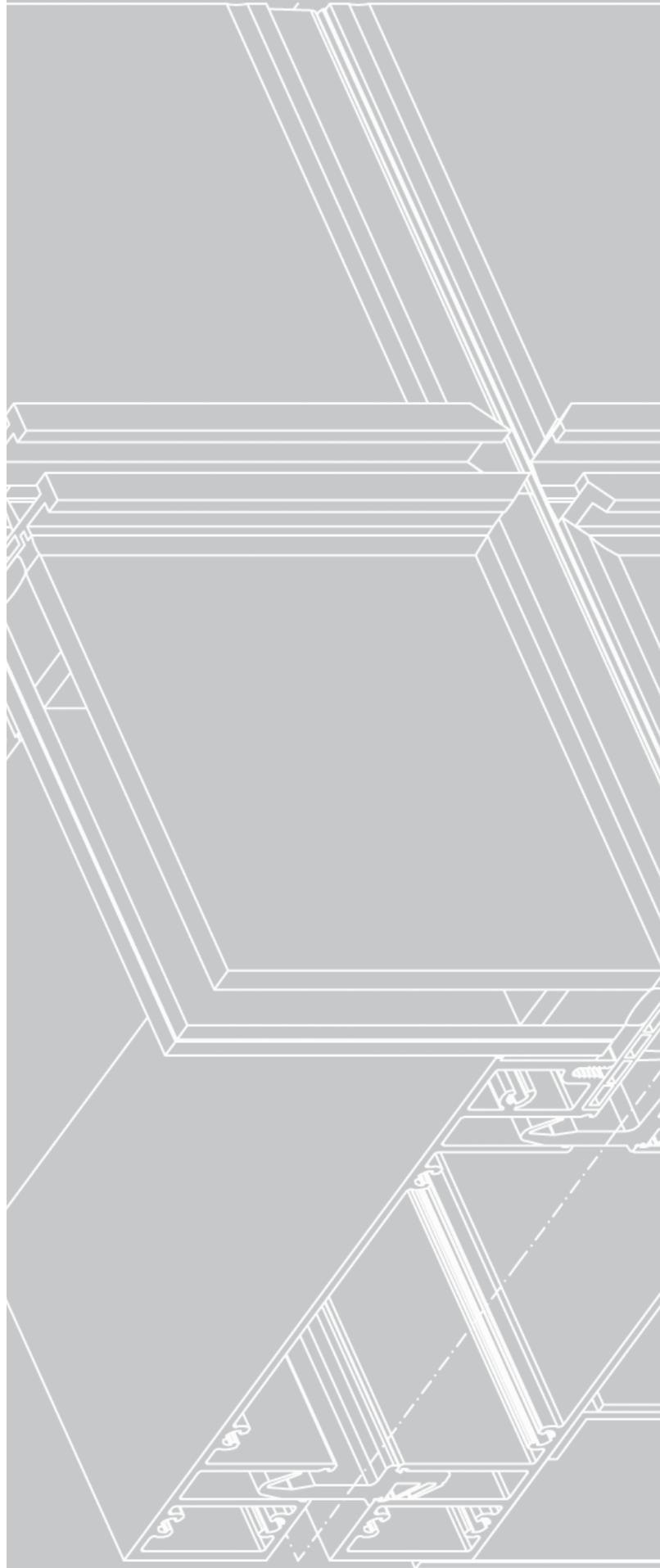
### **We develop for you: carefully, to market requirements**

Those who have planned facades down to detail know what is needed. Put us to the test: We offer you complete engineering services for product development with consideration of all statics and building physics requirements and including the building physics classification (determination of the  $U_f$  values). In addition, we handle the product support and necessary adaptation. And we are of course available to your customers as facade consultants and facade planners.

### **Why our product development pays off for you:**

- because, due to our experience, we develop products which conform exactly to your customers' requirements;
- because we recognise market trends at an early stage to provide you with a lead over the competition;
- because in your company you only need to have just that much development capacity that you really need.





Tauber Engineering GmbH  
Schwedlerstrasse 8  
60314 Frankfurt am Main  
Germany

Fon +49-69-820-099-0  
Fax +49-69-820-099-19  
eMail [info@Tauber-E.com](mailto:info@Tauber-E.com)  
Web [www.Tauber-E.com](http://www.Tauber-E.com)