



# CTG

- **Modern and Innovative Tern Key Construction Solutions.**
- **Energy efficient, Efficient resources, sustainable, environmentally friendly and CO2 saving products.**
- **Innovative Financing and Investment Solutions.**

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## About Us:

**CaseTec Joint Stock Company i. f.** is a cooperation of some German Innovative construction companies and a Swiss Bank (**CT Swiss Bank AG i. f.**) in the line of modern, environment friendly, energy efficient Tern key construction solutions and financing solutions worldwide.

We are located in : Germany, Swiss and Poland

Mr. Andreas Herrmann is founder, CEO of CTG and chairman of the supervisory Board of CT Swiss Bank AG i. f..



## Our Company Philosophy:

Our thinking, planning and realizing our projects is in the line of **Agenda 2030**. What we respect, the international cooperation and being there together in this World.

To help each other, **we support many social construction projects** in Africa, Asia and Europe!

## **Modular Concept of the innovative Bungalow:**



- Our production process is very quick, easy, not cost and labor- intensive technology.
- We use ecological and sustainable materials in our technology like:  
Bamboos, Glass, Marble stone, ...
- Our heating system is based on renewable energy (Solar).
- We produce Luxury and normal Bungalows as your wish with Interior too.
- We sell the tern key production line of this technology.
- We have a very benefit able financing and Investment solutions for our customers.





**Size: from 24 m<sup>2</sup> up to 400 m<sup>2</sup> and up to 5 floor**





## Technical Data:

Ceiling fleece heating with operation over 30 volts, electricity cost-neutral, bamboo laminate flooring, bamboo structure with screwed glass plates sealed flush, glued marble fleece, bathroom kitchen made of marble fleece, 2.5 meter high ceilings, WC / bathroom door , Power generation via PV panels on the roof or coating of the glass panes, in the passive house standard. The equipment with windows without outer casements (printer production) as well as table / chair / folding bed (normal bed) with convertible seating element as well as shelves, bathroom and kitchen.





## Highly innovative facade technology:

CTG factories for facade technology will be established worldwide, particularly where housing construction is necessary and subsidies are offered.

The manufactured facades of the CTG factories consist of a supporting structure (post / waling) which is made with a super fiber, strong as steel: bamboo. Before that, facades made of different materials (customer wish) are installed on the outside and 100% sealed and permanently sealed.

These are the factories made of natural products (e.g. marble white / cream / pink, marble, stone, plaster of all types) made of stone pebbles as files, which is flexibly spent on any required substrate material (glass, stone, plastic, concrete, etc.).

All ISO regulations are performed, which in turn also benefits high-rise construction. The special windows / doors and glass facades up to the shot escapement can also be used.

The CO2 reduction, reduced material, flexible material and much faster construction is our **advantage**.



## BAMBOO:

Bambooforest



Laminated Bamboo



Easy installation  
Curtain Wall



Bamboo curtain wall interior view



## Advantages of Bamboo:

- Fast growth and Sustainable
- Lightweight material
- Cheaper production
- Screw fixing
- CO2 reduction
- Same stability as steel
- with 3 times the tensile force with the same stability as steel
- 30 x lower than steel
- 60 x lower than aluminum
- 20 x lower electricity consume by production





Screwed / Bolted

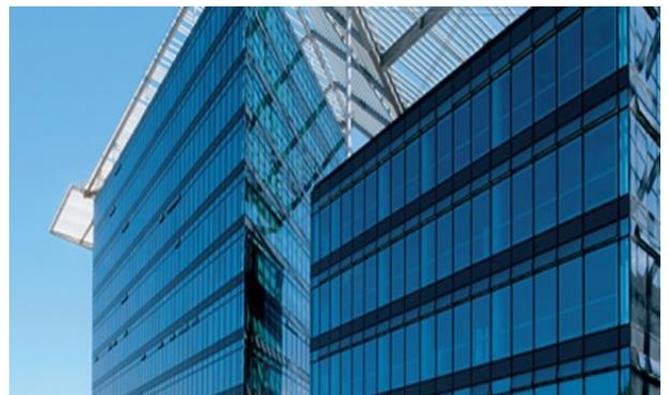


Flush, sealed



Enlarged glass replaces the outer casement

Casement replaced with glass



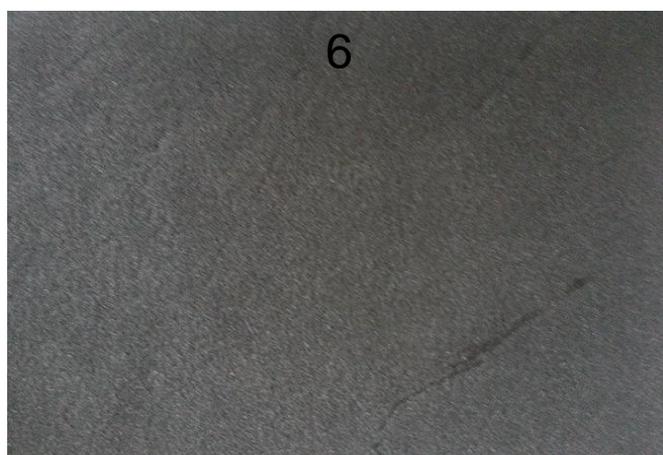
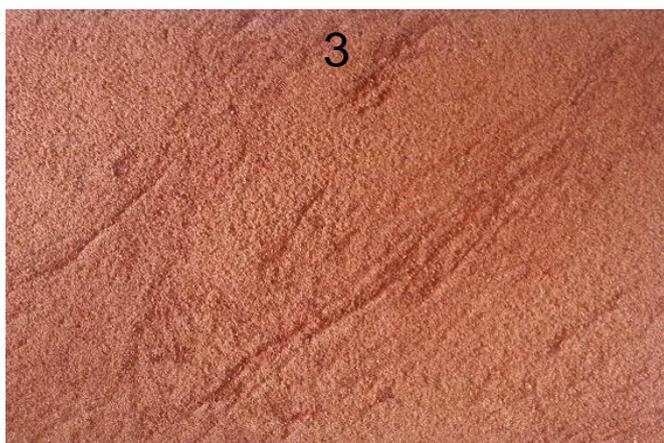
Windows / doors high burglar proof / shot inhibited

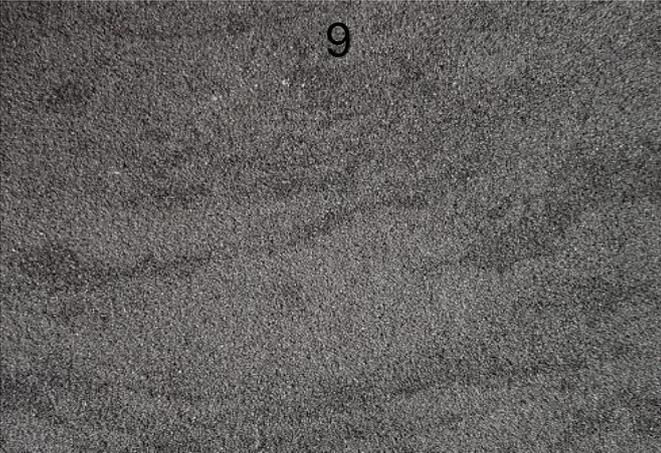
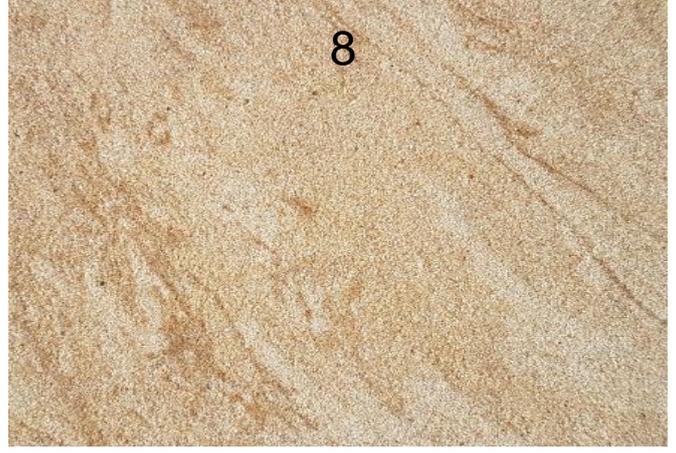
- Casement replaced with glass
- Aluminum shell on KS
- Inside made of bamboo
- Inexpensive



## Marble stone slabs as fleece:

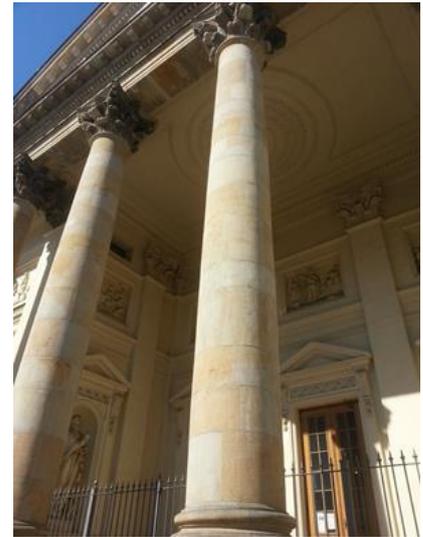
Deliveries in rolls of 4.40 meters long and 1.40 meters wide.  
Delivery time from 6 months after down payment.  
VHB 3M tape is used to glue the marble stone fleece to the facades.





## Engineered Stone Veneer:

- Flexible, flexible, bendable,
- Column cladding,
- Any type and color



**glued onto glass panes**

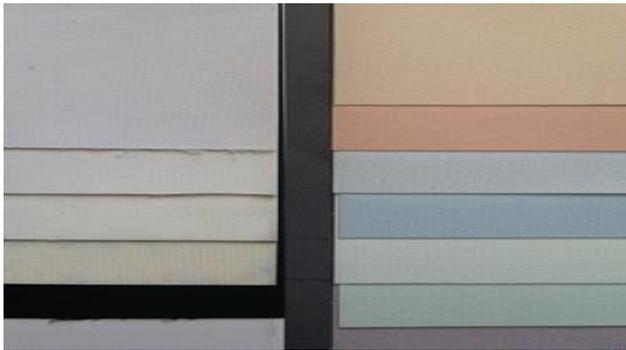


**large-area organic solar films**

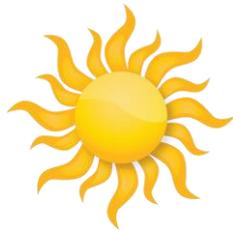


**Low production price  
at high sellingprice.**

## Roof- and wall heating:



We generate **green electricity** from the sun through photovoltaic systems on the roof.



Through photovoltaic sidewalk panels we provide the green electricity for the e-cars.



## Induction wall-ceiling heating as a fleece:

24/36 volt low power consumption in 1 min. To 33 ° with temperature regulator and wall-covering foils of all kinds and colors stretched in front of it.

The insulating glass pane heater as nanotechnology with 220 volts.

Electricity generation via PV vapor deposition on a glass facade. Cooling / heating via heat exchange.

With electricity-based heating in ceilings, we provide low cost heating / cooling.

With electrical storage via crystallizing electrolyte, our storage systems are 98.5% recyclable.

The heating plates with over 100 ° C, 220V current based **induction wave** heating are installed in the ceilings, walls or floor.

We use the **electro smog reduced** form.



## Nanotechnology:

Not visible 1000 times smaller than a hair



## Advantages of Nanotechnology as Heating system:

- Heated by insulating glass panes
- 50% lower KW / h costs in 5 years!
- 75% lower creation costs!
- Own cost-neutral power generation and innovative distribution
- Easy Smart Grid!
- Controlled via smartphone or temperature controller!
- High 92% efficiency!



## Modern Window System:

- With the outside and inside coating of the glass panes, we achieve 70% less heating in the rooms. External roller blinds can therefore be dispensed with (high-rise construction).
- Heat functional layers
- Nanotechnology coated
- Outside 8%
- Interior side 92%

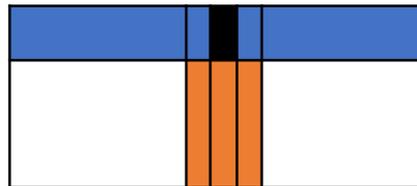


## Technical Explanation:

- 2 operations compared to conventional 8 for masonry.
- Flush-fitting, sealed facades placed in front of the outside, thus permanently fixed. CO<sup>2</sup> reduces compared to old masonry connections with sand consumption and open joints.



Glass, structure



Paint, plaster, fabric, insulation, bricks, plaster, wallpaper, paint



- Flexible design options, new and old buildings for all structural requirements.
- Ecologically sustainable through the use of bamboo as a structure and intelligent heating.



- University / study: Mullion and transom facades have a future, bamboo cultivation on sterile soils.

## Innovative passive house standard:

As Dr. Wolfgang Feist realized that private heating consumed the most energy, so he set about solving this problem.

He used concepts from Sweden and North America to make heat exchange and insulation systems in private households as efficient as possible. The result was the first passive house built in Darmstadt - Germany in 1990. Today applies to Dr. Feist's work-based passive house standard as the best-known standard of sustainable construction.



## What does the passive house standard include?

According to the International Passive House Association, a property must meet the following criteria to be certified as a passive house:

- heating demand below 15kWh per year or 10W per square meter of living space,
- cooling effort should be the same or at least as low as the heating requirement,
- total energy consumption below 120kWh per year,
- Air exchange rate of a maximum of 0.6 per hour at a pressure of 50 Pascal (to avoid drafts and heat loss) and
- constant living room temperature between 20 and 25 degrees Celsius over 90% of the year.

## How does a passive house work?

The aim of this insulation process is to avoid thermal bridges. This includes all areas that favor the exchange of warm and cold air. This causes heat loss in winter, while the rooms can overheat in summer. Continuous insulation also protects against condensation, one of the main causes of mold. In addition to efficient insulation, passive houses must also have first-class windows that prevent unwanted air, moisture and heat exchange.

The indoor climate is then regulated using air or ground source heat pumps. These conduct heat and fresh air in and out via pipe systems. In this way, the temperature inside the house is kept constant with minimal energy consumption.



### Advantages of passive house:

- controlled indoor climate
- modern heating and cooling system
- save money
- reduced energy consumption
- environmentally friendly

**The win for our customers:**

**It is only the win-win situation!**



With our highly innovative facade technology productions line, you can only make a **huge win!**

### **The Plant Profit Model:**

Over 800 employees in a 4-shift system will produce 1.600 m<sup>2</sup> facades without glass for 35 Euro / m<sup>2</sup> per day and with a sales price of 800.00 Euro / m<sup>2</sup>, you will achieve a profit of 1.216.000.00 Euro / day. With 300 production days, it can achieve 365 million Euro / year profit. Here CTG will buy back 80.000 m<sup>2</sup> (20 % of total production / year) at 50 Euro / m<sup>2</sup> Ex W / p.a., over 10 years.

It means, this Business model has only a huge profit for our customers. If our customers are satisfied, we will have a long term business-ship with them and we will have a great win.

It is a modern and grand **win-win situation.**

## Our modern financing and Investment model for our customers:

We developed this business model to help our customers to get a big CTG Production line **for free!**



### Our Business Models:

**Model A:** Our customers have to purchase about 100 Mio. Euro of our CTG limited liability Luxembourg i.G. The vouchers (profit-participation certificate) are charged with 6% interest per year, in 2 years term and after 2 years we will buy the vouchers back. It means the customer will get back 112 Mio. Euro after 2 years. This transaction is secured by a Bill of Exchange from CTG.

**Or**

**Model B:** As described above, however, you use a **bank guarantee** of about 100 Mio. Euro (without CTG's interest payment for the bank guarantee).

In return, we will build a production line of facilities (facade Technology) in the country of our customer with machines and Hall included with our financing for our customer (Turn Key), in the worth of 10 Mio. Euro. We will buy back 20% of these products over 10 years (50 Euro / m<sup>2</sup> facade). This production line will be a **present of CTG** for our customers to show our honest will for this business. You don't need to pay for this production line and we will buy back your products over 10 years. It is a very good and profitable offer for all of our customers **around the world.**

Finally, we would like to have a long term business with all of our customers and hope we will help them to modernize the contraction system of their countries and reach an **enormous win!**

## Our Financing and Investment Solutions worldwide:

via our subsidiary (CT Swiss Bank AG i. f.) in Swiss; we support around the World many companies by financing, Investment, Capital increasing (equity increasing) and Leverage Effect.

Our solutions are very safe and have Swiss banking standard Rules. Several countries, companies, are extremely interested in our business model after the presentation of our Business model by their embassies. Qatar has already drawn. The company's own bank (CT Swiss Bank AG i. f.) has a loan volume of 20 Billion Euro at the start.



We have some modern and innovative financing and Investment solutions for you.

They are waiting of you, you have to only ask us!

**HOW  
COMPANIES  
WIN**

## CTG Notwerk (Stakeholders):

- PricewaterhouseCoopers (PWC)
- The German Association for Small and Medium-sized Businesses (BVMW)
- The German Chambers of Commerce Abroad (AHK)
- The Chamber of Commerce and Industry of Berlin (CCI, IHK Berlin)
- The Federal Ministry for Economic Affairs and Energy (BMWi)
- Direct contact to many Embassies in Berlin
- CDU



CTG by BMWI



CTG with Volker Kauder



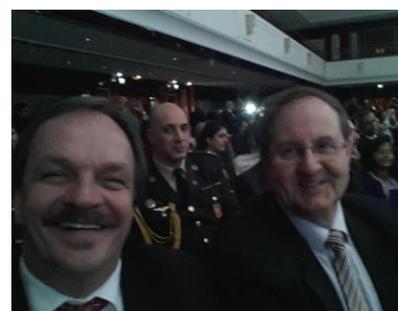
CTG with Joachim Herrmann



CTG with Andreas Scheuer



CTG with Thomas de Maizière



CTG Board

