

What is **redbloc**[®]?



a unique prefab-technology

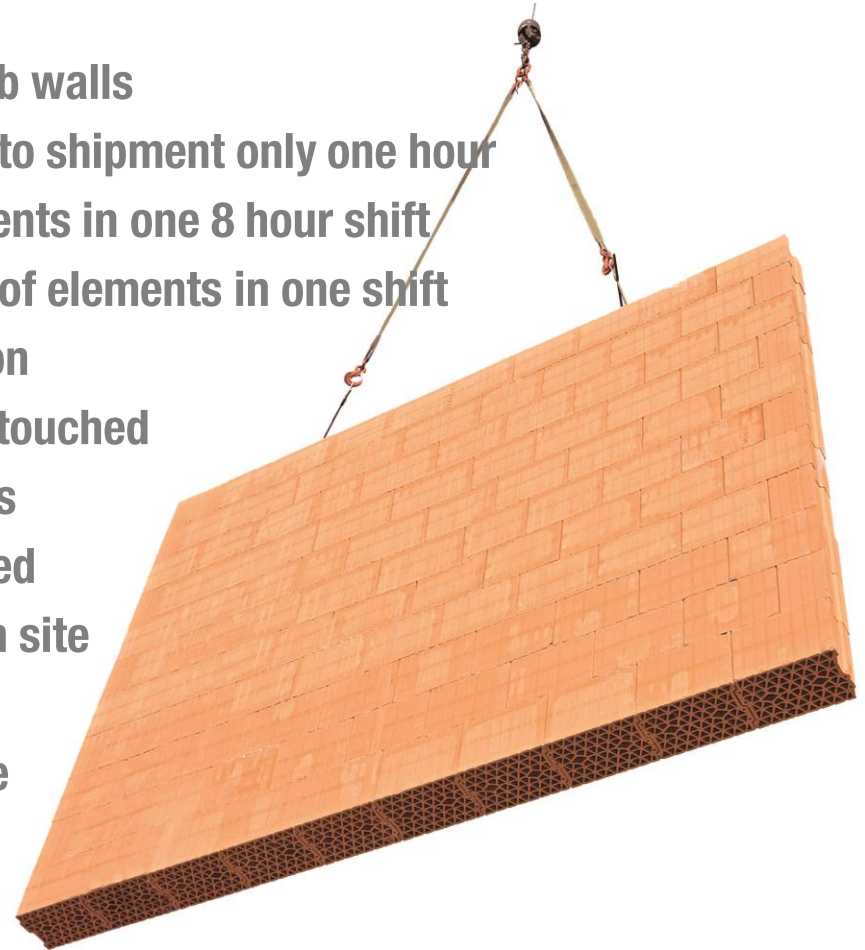
Why is **redbloc** unique?

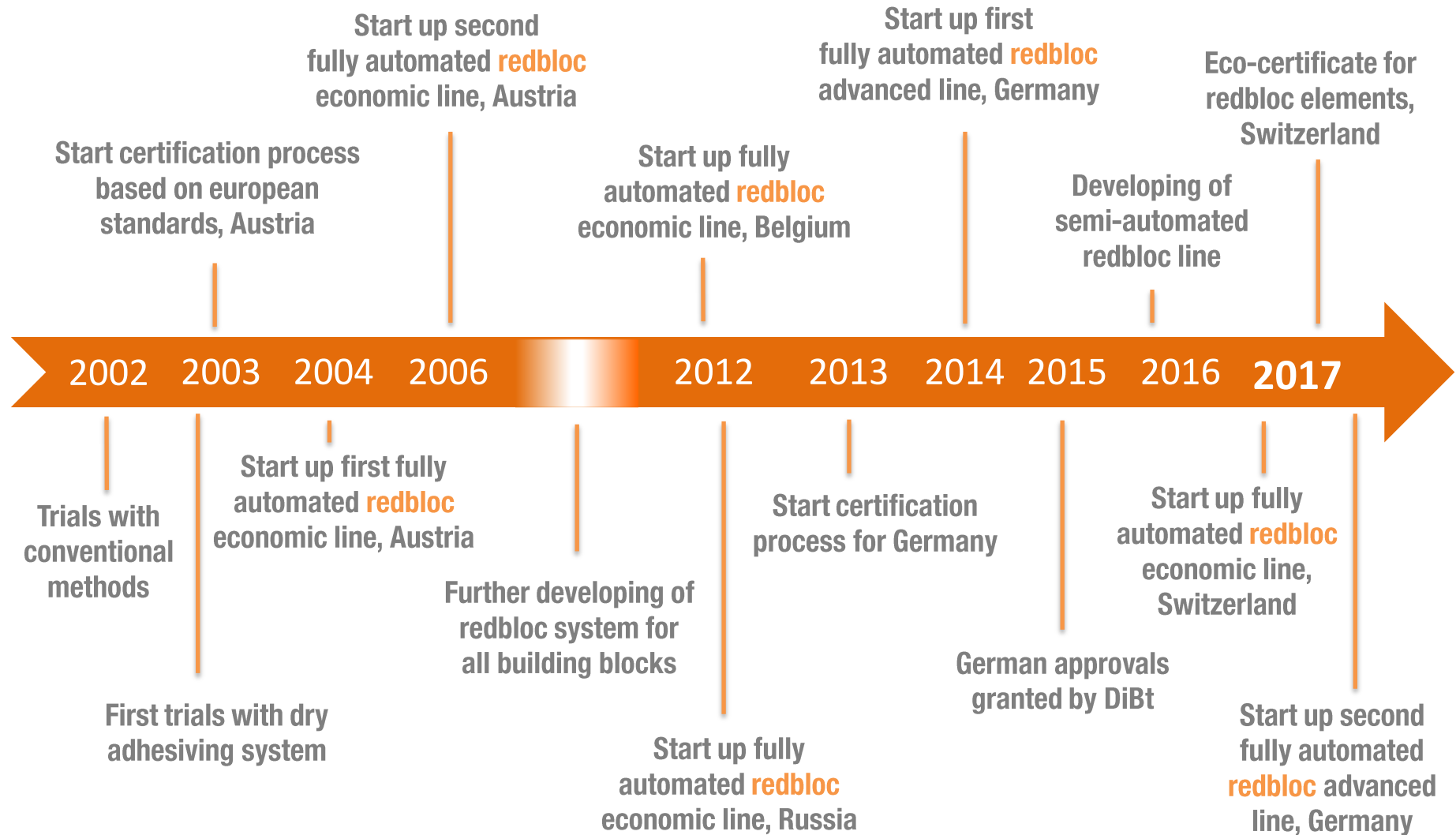


redbloc is the only system that can efficiently produce prefabricated wall elements made from mineral building materials just in time such as ceramic bricks, concrete blocks, silica blocks, aerated concrete blocks etc. in wall thicknesses **from 10 to 51 cm**

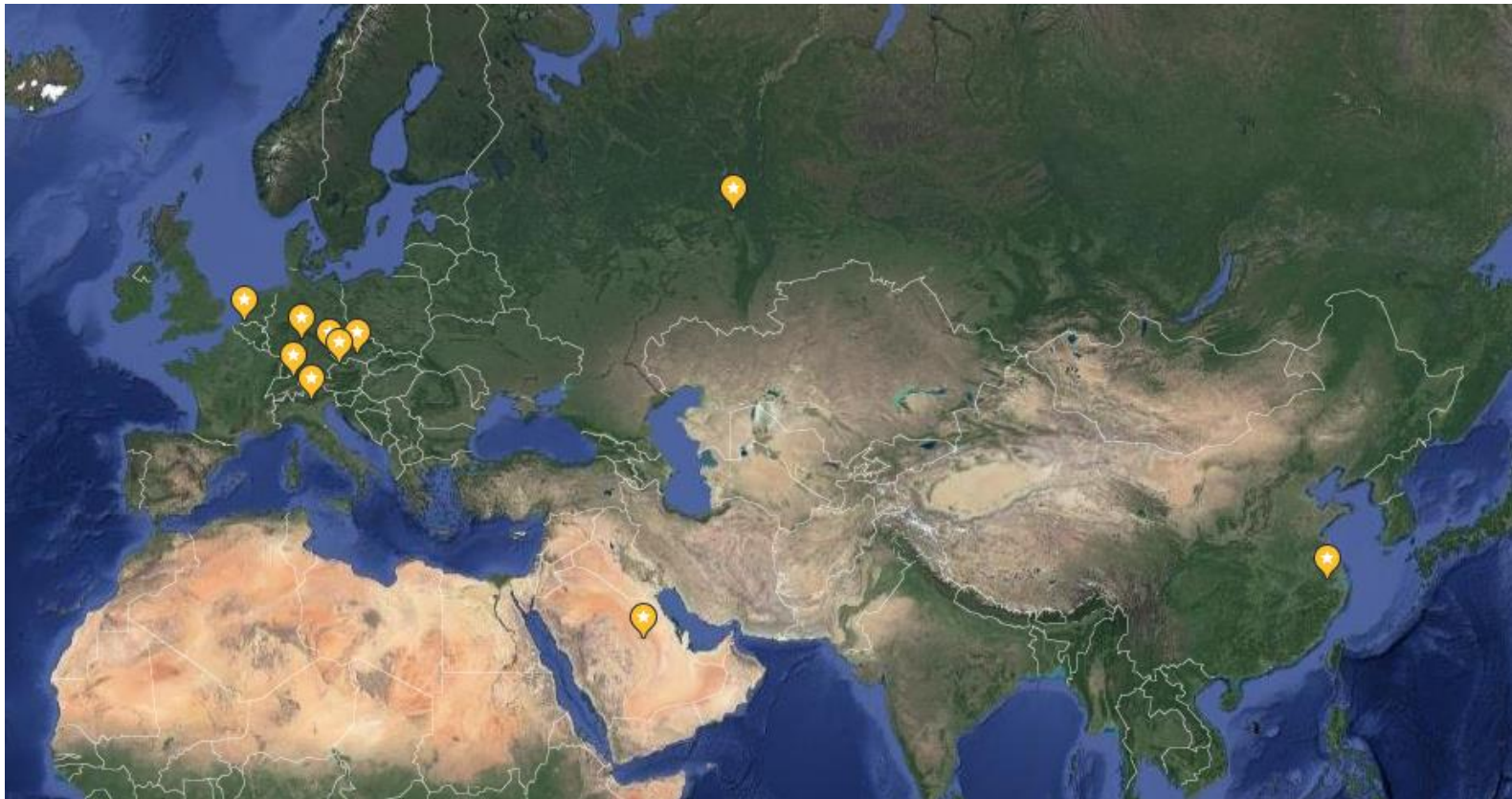
Advantages of **redbloc** system

- Patented technology to produce solid prefab walls
- Just in time production – from production to shipment only one hour
- You can produce up to 450 m² of wall elements in one 8 hour shift
- 3 workers and one crane assemble 300 m² of elements in one shift
- Constant quality due to industrial production
- Positive properties of the blocks remain untouched
- No reinforcement needed – no steel in walls
- Absolutly dry walls – no drying time required
- Up to 80 % less work hours on construction site
- Almost every design of building possible
- Calculable cost and short construction time
- Perfect walls in any form





Redbloccsystems licensees



How does **redbloc** system work?

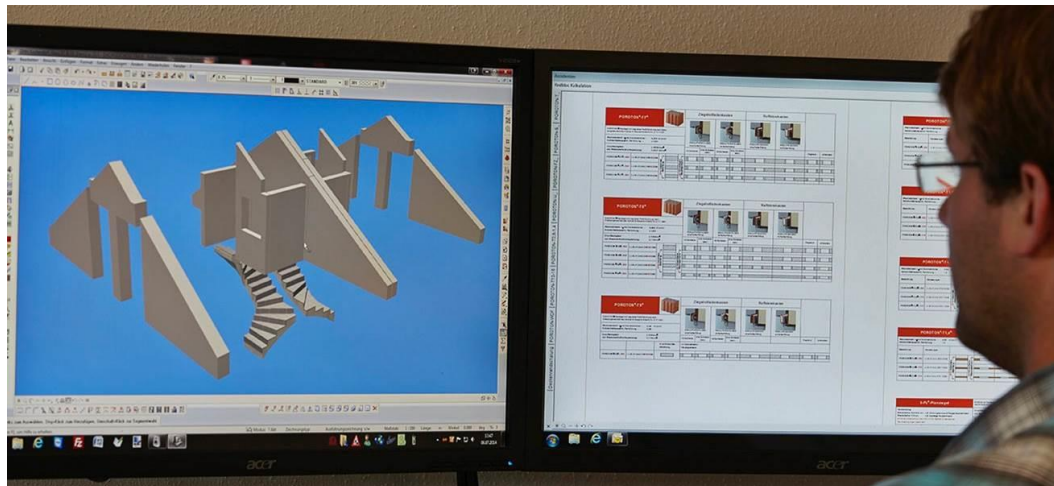
In the production line the wall elements are made out of ceramic bricks, aerated concrete or silica blocks. All necessary cutouts like sloping roof elements, roof beams or stringers, installation ducts, door and window openings are cut fully automated during the production process.



Only one hour after production the wall elements can be transported to the construction site.

One skilled worker and two helpers can erect up to 300 m² wall elements on construction site in one 8 hour shift.

Preparation of technical data



- Almost all data formats (pdf, dwg, dxf, nid, plt, hplg) can be imported into the element creation software.
- This software calculates the necessary wall elements.
- The most important parameters like f.e. building material facts, weight of wall elements of crane types are stored in the database of this software.

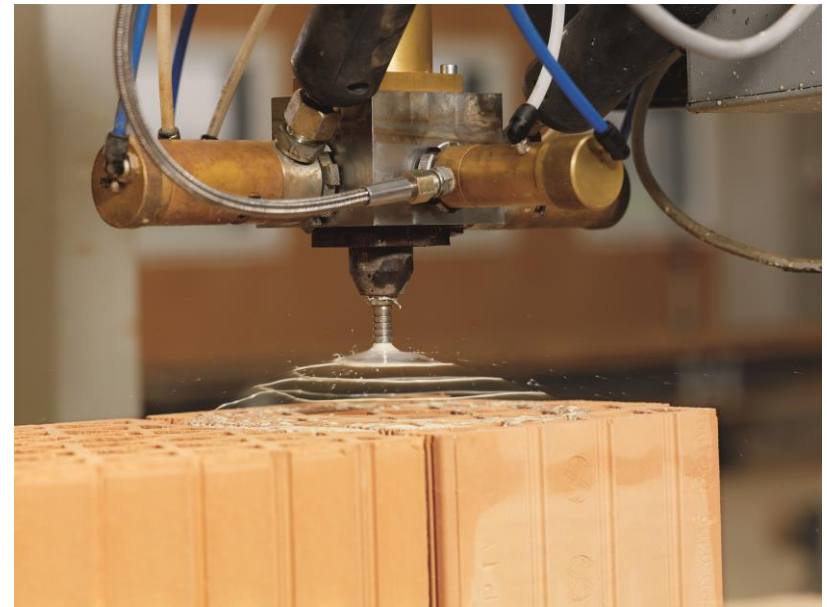
Preparation of layers



**Based on given data the necessary amount of bricks is fed
into the production line.**

Innovative adhesive system

- By means of a special designed adhesive application device the two component adhesive is applied on the blocks.
- The adhesive dries very quick so the wall element can be shipped to the construction site after 60 minutes.



Bonding of wall elements



- The blocks are now put layer by layer on circulation pallets.
- The solid and exact construction of the layer gripper guarantees very precise wall elements.

Cutting the elements

30 minutes after production the wall can be cut.



The dimensions of the walls, sloped roof elements, windows and doors
are cut to the millimeter.

Everything is possible - fully automatic!



no chiseling

no problem!



no rubbish

Delivery

The finished wall elements are equipped with re-useable lifting devices and are put into transport containers. Only one hour from production to shipment to the construction site!



Assembly according to plan

- Basis for the right positioning of the wall elements is the assembly plan which is automatically generated by the software.
- After drawing the assembly plan with chalk line on the concrete floor, the assembly of the elements can begin.



Setting the wall elements



The wall elements are set into a fresh mortar bed.

For every wall element 4 points are levelled by means of a surveyors level in order to have the right vertical level as well as the horizontal level.

Fixing the prefab elements

- Each wall element is temporarily fixed by means of adjustable angular metal slabs.
- The safety pins of the lifting rods are removed.
- The crane then pulls out the reusable lifting rods.
- Now the walls are standing in a right angle in their position.



What is the big difference between conventional masonry and **redbloc**?

no mortar joints
no thermal bridges



no flub!



How fast can one house be built with **redbloc**?



Monday



Thursday

The shell of a massive single-family house can be erected
in 4 days and this in constant quality!!!

What type of constructions can be built with **redbloc**?

- apartments
- multi storey buildings
- office centres
- commercial buildings
- hotels
- one family houses
- social housing
- and other buildings



redbloc allows to build **all types of constructions**
in the shortest possible time!

Apartments with **redbloc**[®]



Single family homes with **redbloc®**

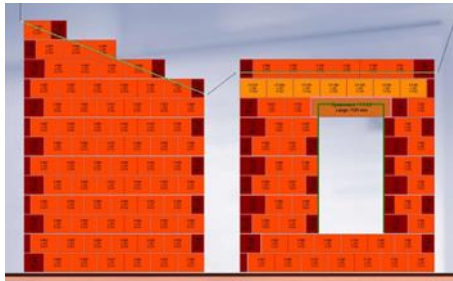


Commercial buildings with **redbloc**[®]



What does **Redbloccsystems** offer to licensees?

- an innovative technology for prefabrication of wall elements made of mineralic building materials
- semi or fully automatic production lines – turn key
- certified and by building authorities approved system
- support at start-up and market entry
- optional usage of brand redbloc



The delivery includes license, customer-specific optimized plant design, CAD software, assembly, training, commissioning, necessary drawings as well as complete documentation.

The future of building with **redbloc**

simple, fast, solid and fully automated!



More information for licensees: www.redbloccsystems.com
or just contact us via info@redbloccsystems.com