

THE PATENTED ORIGINAL - EASYFLOC

- Fastest production
- Lowest costs
- Highest insulation quality



isofloc®



Schaerholzbau AG, Altbüron

INSULATION IN THE FACTORY

The easyfloc industrial insulation system is an essential work instrument for the prefabrication of elements in the factory and sets new standards in timber construction.

More and more timber construction companies are choosing to carry out the majority of the work in the factory for reasons of economy and quality. Insulation is now quicker and simpler than ever before with the easyfloc industrial insulation system. The modular, freely configurable system enables the fastest insulation procedure in the industry and leads to shorter cycle times in production. Thanks to its high level of automation, the easyfloc insulation system also reduces the use of personnel to a minimum – and delivers optimum insulation results at low cost. The easyfloc industrial insulation system is based on isofloc's 35 years of experience in the processing of injected insulating materials. It has been developed in close cooperation with timber construction companies. Numerous satisfied customers in the leading timber construction countries in Europe are already benefiting from these advantages.

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SUCCESS WITH SYSTEM

The easyfloc industrial insulation system is designed for integration in existing production lines and thus ensures an optimum production process without interruptions. The system is modularly structured and grows with the requirements of the timber construction company.



- ① isofloc cellulose big bales
- ② Big bale shredder and blowing machine
- ③ Blowing plate with swivelling control console
- ④ easyfloc bunker solution
- ⑤ Multifunction bridge from Weinmann or Hundegger with blowing plate
- ⑥ easyfloc bridge solution with blowing plate

Interesting films about the easyfloc industrial insulation system can be found on YouTube:
www.youtube.com/isofloc

**1**

ISOFLOC CELLULOSE BIG BALES

PROPERTIES

The isofloc cellulose big bales, which weigh 350 kilos each, are the first choice for the insulation of prefabricated timber construction elements in the factory. Further insulating materials such as isofloc woodfiber or injected mineral insulation materials are also available from isofloc. With big bales the refilling time is reduced and thus considerably greater autonomy is achieved. This leads to low handling costs and outstanding economy.

WORK PROCESS

The big bales are unpacked and placed in the big bale shredder.

**2**

BIG BALE SHREDDER AND BLOWING MACHINE

PROPERTIES

Due to their lean design the big bale shredder and the blowing machine have only a very small footprint. The machines can be placed outside the production hall. Thanks to its high throughput the blowing machine is ideal for the easyfloc industrial insulation system. The 3-shaft shredder with counter-agitator shreds the injected insulation materials perfectly and ensures a constant flow of material through the air lock. Due to the simple change of material, the big bale shredder is the first choice for timber construction companies that use different insulating materials. The big bale shredder is easy to operate via touchscreen. The work procedure is fully automatic; the operating status and operating data are displayed numerically and graphically.

WORK PROCESS

The big bale shredder processes the injected insulation materials automatically and with minimum dead times. The insulating materials pre-shredded by the big bale shredder are shredded perfectly by the blowing machine and blown to the blowing plate.

**3**

BUNKER

PROPERTIES

The bunker solution from isofloc ensures a higher level of autonomy of the insulation system. The bunker can be filled with several big bales at a time and only has to be refilled at much longer intervals afterwards – a big advantage for companies with a high insulation output. The bunker can also be placed outside the production hall.

WORK PROCESS

The injected insulation materials are shredded in the bunker and blown via the air lock to the blowing plate in a constant flow of material.

**4**

BLOWING MACHINE

PROPERTIES

Thanks to its high throughput the blowing machine is ideal for prefabrication. The stand-alone variant can be connected to individual bunker solutions or existing equipment from third-party suppliers.

WORK PROCESS

The injected insulation materials are conveyed from the individual bunker solution or the existing equipment to the blowing machine. The blowing machine shreds the insulating materials perfectly and blows them onwards to the blowing plate.



Contact us for
the version with
six nozzles!

5

BLOWING PLATE

PROPERTIES

The blowing plate is an indispensable tool in industrial timber construction. It can be easily integrated into existing production lines.

WORK PROCESS

The blowing plate is placed on the element, which is open at the top. Filling with isofloc cellulose fibres then takes place automatically. The membrane of the patented blowing plate seals off the partition in a dust-free manner. The blowing plate stops when the desired blowing density has been reached and indicates the weight of the insulation per compartment for quality assurance purposes. In addition, the insulation result can be checked visually and by touch. After saving all blowing data for quality assurance purposes, the filled element is handed over for further production.

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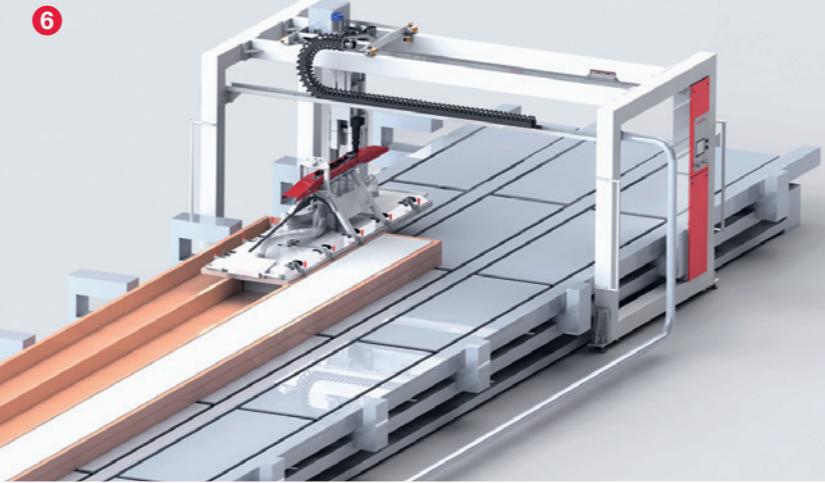
EASYFLOC BRIDGE

PROPERTIES

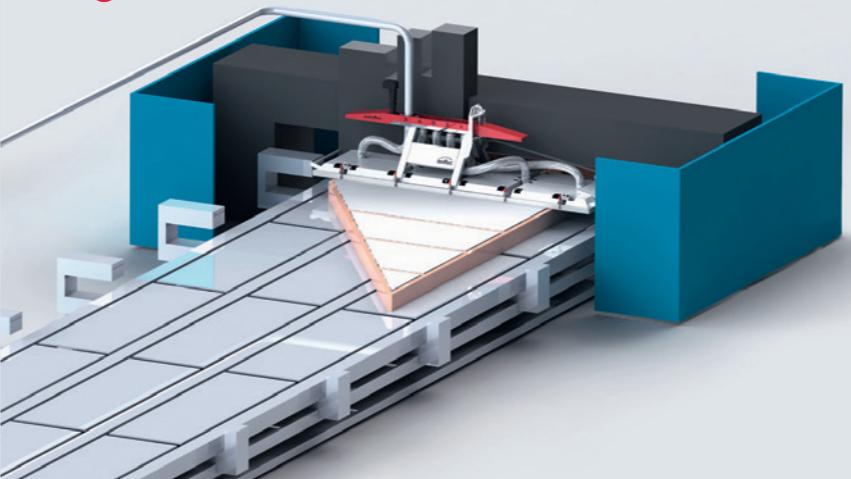
A new bridge solution from isofloc supplements the proven suspension with swivel arm, gantry crane or travelling crane and makes the placement of the blowing plate even simpler. The bridge is advantageous above all when structural conditions in the factory prevent the realisation of a suspension solution or make it very difficult.

WORK PROCESS

The blowing plate is moved over the open partition and positioned by the bridge. Operation no longer takes place directly on the blowing plate, but from the bridge. The plate can be rotated by 90°, depending on the type of partition.



7



7

MULTIFUNCTION BRIDGE FROM WEINMANN OR HUNDEGGER

PROPERTIES

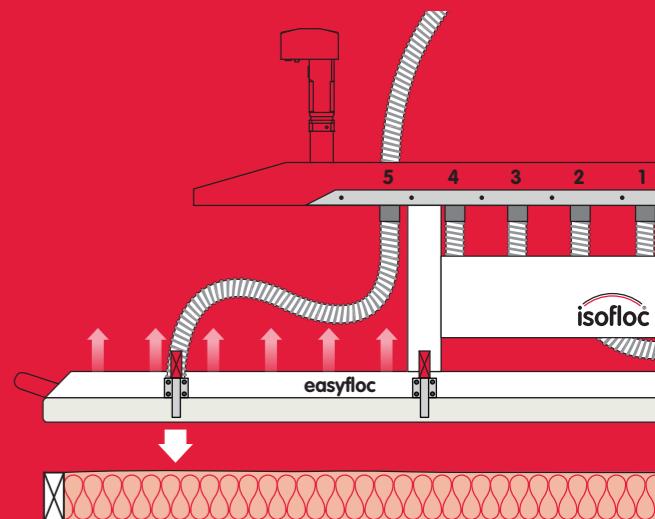
New: the blowing plate from isofloc can be connected to a multifunction bridge. The insulating procedure is thus integrated perfectly into the production line and automated.

WORK PROCESS

The blowing plate is moved over the open partition and lowered by the bridge. Operation no longer takes place directly on the blowing plate, but fully automatically via the exchange of data with the bridge. The choice of nozzle, the type of partition, the insulation thickness and the density are transferred automatically from the bridge. The employee merely checks the result.

THE PATENTED ORIGINAL

The patented blowing plate (EP 2 333 198 B1 for AT, BE, CH/LI, CZ, DE, DK, FI, FR, GB, NL, PL, SE) is fitted on the underside with an air-permeable membrane. This allows the air to escape evenly during the blowing procedure and the plate remains steadily in place on the timber construction element during the entire filling procedure. The result is an optimum blowing procedure with perfect distribution of the injected insulation material in the partition. At the same time the membrane seals the partition, which is open at the top, thus ensuring dust-free blowing.



TECHNOLOGY ACCORDING TO YOUR WISHES

Every timber construction company is faced by individual challenges and has different work processes. With the easyfloc industrial insulation system we offer bespoke solutions tailored precisely to your needs.

Choice of components

The components of the easyfloc insulation system can be put together freely. The standard solution consists of a big bale shredder, blowing machine and blowing plate. In addition to that the bunker, for example, provides for a higher degree of autonomy of the insulation system, whilst the bridge automates even more work steps.

Choice of insulating material

With the easyfloc industrial insulation system a timber construction company can fulfil customer wishes or requirements for different insulating materials – without complicated retooling. The woodfibre kit, for example, is an add-on for the blowing plate for injecting isofloc woodfiber. The use of further insulating materials is possible on enquiry.

Further options

isofloc offers numerous individual modifications for the individual components of the easyfloc industrial insulation system to make your insulation system even more efficient. The following options are most popular with timber construction companies:

Blowing assistant with computer support

Automate the filling procedure with the blowing assistant. After manual input of the insulation thickness, cladding and element type, the blowing assistant automatically selects the settings for a settle-proof blowing density. This makes rapid and secure filling possible with the blowing plate. Even special partitions with unusual properties can be insulated automatically at the push of a button.

Swivelling control console

Thanks to the swivelling control console the blowing plate can be used in both longitudinal and transverse operation.

Load cells

The big bale shredder, the bunker and the blowing machine with control box can be equipped with load cells. They indicate the filling weight of the individual partitions. The process data for each partition, e.g. blowing result or partition identification are recorded and archived. The data can be copied to external storage devices through standard interface.

In addition to the instruments mentioned, isofloc offers various other options for the easyfloc insulation system. The complete list can be found at our website. We'll be glad to advise you on your individual solution.



**"Exactly what we wanted.
The employees are also impressed by the largely dust-free technology and the easy operation.
It's obvious that easyfloc was developed in close cooperation with timber construction companies."**

Stefan Bauereiß, executive, Engelhardt & Geissbauer GmbH, Burgbernheim/Schwebheim



Moser Holzbau AG, Gossau ZH

INCREASE IN EFFICIENCY AND QUALITY

In the easyfloc industrial insulation system the products and the injection technology are optimally matched. This makes optimum use of the advantages of injected insulation materials.

The system makes better insulation results achievable with greater efficiency – whilst costs are lowered significantly.

Fastest production for shortest cycle times

The isofloc big bale technology and the efficient machine technology with its short dead times produce a high filling performance that is unbeatable in the industry. Not only that, the easyfloc insulation system requires only a few manual inputs – the machines take care of the rest automatically. This enables rapid and safe filling of the structural elements. Even special partitions with unusual properties can be insulated automatically at the push of a button. Since insulation takes place in the open condition, you no longer have to plan and drill filling apertures and close them again afterwards.

The easyfloc industrial insulation system is two to five times as fast as inserting insulating mats by hand. Hence, the output performance of the entire factory can be increased. Bottlenecks at insulation stations are consigned to the past.

Lowest costs

Since the easyfloc industrial insulation system accomplishes the majority of the tasks automatically, the insulation work can be done by just one person – that means a considerable reduction in costs! Unlike insulating mats, there is no cutting to size or waste with injected insulation materials, which lowers the costs still further. The prefabricated

timber elements are insulated in the open condition using the easyfloc industrial insulation system. Advantage: Stable cladding able to withstand the blowing pressure is no longer necessary. You are therefore free to choose whatever cladding you like and can use less expensive outer shells. Did you know that our isofloc LM cellulose insulation material is particularly interesting from an economical point of view? That's because skip distances may have to be maintained between the ribs when using rockwool panels and glass wool mats – this can lead to additional consumption of timber with only small insulating areas. Isofloc LM in contrast >

"To allow the automated insulation of our special elements, our project manager Daniel Henkel developed a blowing plate together with isofloc that is specially designed to meet our needs and those of our "wood shavings" insulation material. Our warm thanks go to isofloc for their openness and good cooperation."

Helmut Holl, managing director of Baufritz Holzbausysteme GmbH in Erkheim



“For ecological and economic reasons we are convinced by the easyfloc injection system and by the isofloc cellulose fibres.”

Philipp and Walter Schöb, Schöb AG, Gams

is a loose insulating material: All insulation areas are thus the same size and no additional ribs are required. Cellulose fibres and other injected insulation materials also lower storage costs, because the insulating material can be stored in compressed form outside the warehouse building and conveyed to the insulation station via a hose.

Highest insulation quality

The easyfloc industrial insulation system insulates faster, cheaper and at the same time better than conventional insulation methods and insulation systems. Five blowing nozzles ensure uniform results. However, the high insulation quality is also due to the automation of the system: since only a few manual inputs are necessary for the

machines, the error rate in the insulation procedure is considerably reduced. Thanks to the computer-assisted filling process, each blowing result is reproducible – regardless of who operates the machines. The open filling of the structural elements enables you to assess every insulation result visually and by touch. Load cells not only calculate the filling weight of the individual partitions; they also collect and archive blowing results, settings or partition identification details for each partition.

Insulation systems from a single source
The work processes, the product range, the degree of automation and the cost structures are different in every company. That's why isofloc offers you an individual consultation so that you can get the maximum benefit from the easyfloc industrial insulation system. Whether it concerns insulating material, machines or training: you have just one contact. Visit a reference customer and see for yourself the advantages of this insulation system. You can also do that in your own factory though: isofloc can lend timber construction companies a blowing plate.



