

“The new building had to comply with EU hygiene requirements, be easy to clean and maintain, be watertight and fire-proof, be erected quickly and blend in with the other buildings”

“BEET provided the answer!”



BEET®
BUILDING SYSTEM

THE CHOICE WAS SIMPLE!

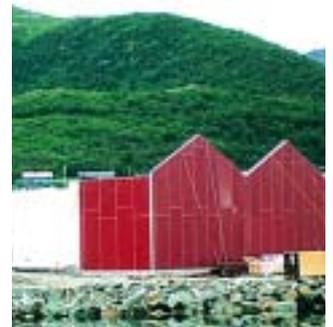


When our old building burnt down, we had to make some quick decisions. Our first priority was to maintain operations with the least possible amount of interruption. Since we were starting from scratch, we really wanted a better building in terms of weight, cleaning and fire safety.

All these criteria were superbly met when we chose the Beet Building System. This self-supporting system weighs considerably less than other alternatives and was quickly erected. As far as we were concerned, this was very important since we were going to re-build on the existing quay. By using the Beet Building System, we avoided having to reinforce the quay area – which meant we saved a lot of money.

We can already see now how much time we save on daily cleaning. And we really can keep the building completely clean! There's no dirt hidden in nooks and crannies and Beet Building System walls do not succumb to corrosion either. So, taking their fire classification into account, we are expecting continuous, economic operations as far as we can see into the future.

*Gunnar Jarl Klo
Manager of Gunnar Klo AS*



The new premises for fish processing of Gunnar Klo AS at Stø in Vesterålen



RESISTANT

Beet walls are highly resistant to acids, alkalis, salts and organic solvents.

They are virtually corrosion-free and are highly suitable for damp and corrosive environments.

COLOURS

The building elements are spray-painted at the factory and can be supplied in a wide range of different colours. The walls can also be supplied with a pebble-dashed surface, in a variety of colours, allowing the building to blend naturally into its surroundings.

STRENGTH

Composite materials have a high strength-to-weight ratio. Beet Building System walls are designed so that they can support roof structures, etc. This simplifies the building freezing areas that would otherwise be taken up by supporting columns. The walls also have excellent impact resistance.

HYGIENIC

The smooth surfaces simplify daily cleaning. There is no unevenness or pores whatsoever in the surface, thus preventing the growth of micro-organisms. Joints between walls and floors, ceilings corners, windows, etc are designed to minimise the accumulation of dirt and make cleaning as easy as possible.

FIRE - RESISTANT

The Beet Building System exhibits an extremely high degree of fire-resistance. After testing by SINTEF (the Foundation for Scientific Industrial Research at the University of Trondheim), the various elements were classified between REI-60 and REI-20 (previously AI20). The picture shows a test in which we have let a gas flame scorch continuously for 4 hours. The spread of the fire damage is about 30 cm.

WATERTIGHT

The Beet Building System is the only solution that can fully satisfy the criteria of a 100% watertight wall. Hard, lashing rain is one of the tests on the system carried out by the Norwegian Building Research Institute (NBI). The Beet element in the picture has been submerged for 3 years in the river Lågen without being damaged.

DURABLE

The composite materials in our structures guarantee a product that will withstand wear over a very long time. Maintenance costs are reduced to an absolute minimum.

WHO

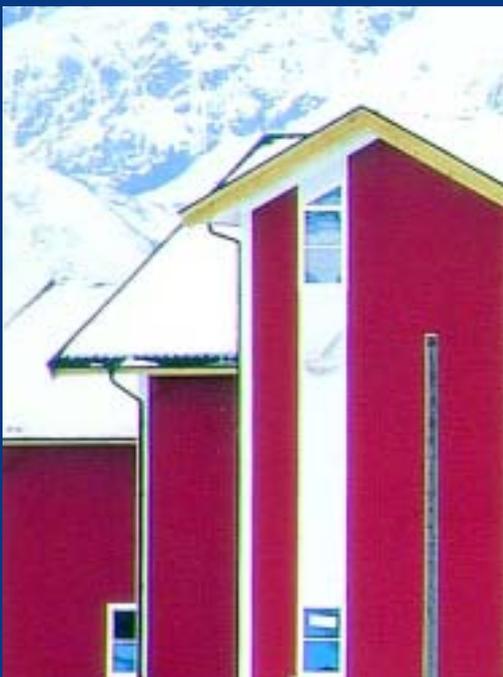
Marine Composites AS is a company that develops, manufactures and supplies building systems in Glass Fibre Reinforced Polyester (GRP) composite material for industrial buildings. False ceilings and other composite material components can also be supplied. The majority of our references are from customers in the food industry and customers with stringent criteria regarding the walls in their buildings.

WHAT

The Beet Building System comprises elements manufactured from the composite material GRP (glass fibre reinforced polyester). The system was developed by Jan Holm Hansen and is patented in a number of countries.

WHERE

The Beet Building System is manufactured in Arendal, where the company's head office is also located. Marine Composites AS has a sales office for the north of Norway in Alta.



THE BEET BUILDING SYSTEM

is a patented, registered-design building system, which has been entirely developed in Norway. The system consists of elements manufactured from composite materials, Glass Fibre Reinforced Polyester (GRP). The elements have a sandwich structure in which the actual GRP wall panels are permanently bonded to a core of fibre oriented mineral wool. The edges of each element are surrounded by a tongue and groove GRP profile. All this is put together in a vacuum, sealing the elements and thus ensuring they are 100% watertight.

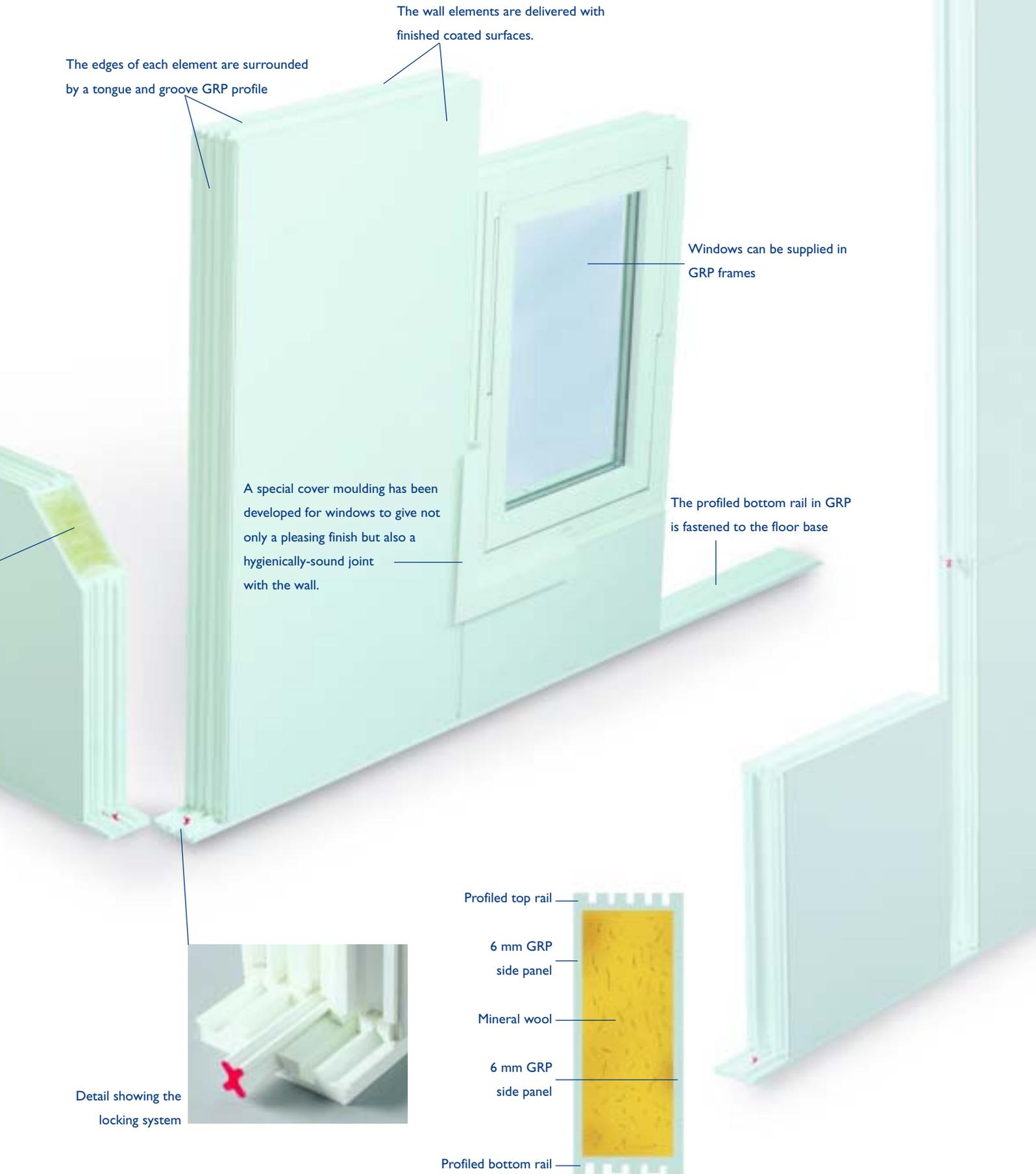
The elements are locked to each other using a special locking system.

Compact layer of fibre oriented mineral wool. This provides excellent insulation and the walls are particularly well suited for cooler storerooms, deep-freeze storerooms and freezer tunnels.

THE BEET BEET BUILDING SYSTEM

comprises elements with standard dimensions of 1.2 x 3.5/3.0/2.5/2.0 metres (width x height). Smaller dimensions can also be supplied. They can be assembled on top of each other in order to achieve the required height. The elements can be supplied in two different thicknesses: 112 and 212 millimetres. The surface coat is 100% ACRYLIC. During the toughening process, the acrylic paint is exposed to electron bombardment and radiation using ultraviolet light, giving an extremely hard and smooth surface. The elements can also be supplied with a pebble-dashed surface.

THE **BEET** BUILDING SYSTEM



A S S E M B L Y

1



The profiled bottom rail is fixed onto a screeded floor base. It is fastened to the floor base using special bolts.

2



The first element is lifted into place and fastened to the profiled bottom rail using a special locking system.

3



The next element is positioned beside the first one. The elements fit into each other on a tongue and groove basis. Pre-assembled subsidiary elements for windows, etc are fitted into place.

4



Assembly continues in this manner until the wall is complete. Finally, corner pieces and profiled top rails are added, joints are glued together, after which it is just a matter of putting on the roof to enclose the building.

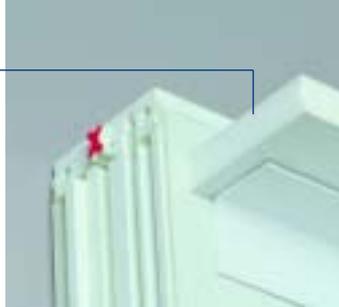
Using Beet Building System is almost like building with LEGO bricks. We supply the elements prefabricated to order. We also supply detailed assembly instructions making it a simple matter to erect a Beet Building. Assembly takes very short time. An element measuring 1.2 x 3.5 metres weighs around 150 kg.

C O N S T R U C T I O N D E T A I L S

External corner pieces can be used to provide attractive and practical joints, shown here with a pebble-dashed surface.



Ceiling element



Special rails and ceiling elements are ideal for the joint between the wall and the roof.

It is often a good idea to build a concrete plinth outside the wall where the wall meets the floor to protect it from damage by fork-lift trucks.



There are special rails in GRP for adding entrances and doors. Windows with GRP frames compatible with Beet walls can be supplied.



In many cases, the roof structure can be erected on top of the walls without any further support.

BEET

APPROVED

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