

ISOTEQ^{GROUP} IsoteQ[®] trade-name hides a dynamically developing group that is entirely in Hungarian ownership. It is presented in Hungary and in several other countries in Europe. The members of the group offer a wide range of services to their customers, such as manufacturing, designing, technical advice, engineering guidance, and turn-key projects. Nowadays IsoteQ[®] GROUP became one of the greatest international company in the ICF (Isolated Concrete Forms) market. Our trade is based on 250 Hungarian dealers and foreign distributors in 20 European countries.



If we wish to define **Passive House** strictly, we could say that it is a building whose energy consumption does not exceed 15 KWh/m² per year. Demonstrating it in a different way from figures, we can say that a Passive House is a building that does not need a conventional heating system due to its low heating requirement. Formally that building could be called a „Passive House” which suits the strict criteria standards of the German Passivhaus Instituts (Darmstadt) and possesses over its official qualification.



Advantages:

- Buildings made from IsoteQ[®] system are more stronger than the conventional ones. This means that an IsoteQ[®] wall is much more resistant to an earthquake or any special bearing force.
- Thermal bridge free construction: thanks to the integrally connected IsoteQ[®] wall-, lintel-, ring-, raising- and closing elements.
- Fast (even house-made) constructing: thanks to the „Lego-like” interlocking (without any binder!) and measure precision.
- Electric cables, cover pipes, water- and heater pipes, building engineering cables are running in the grooves cutout from the inner polystyrene coat. The grooves can be shaped without any carving, dust and noise with a thermal knife.
- Environment-friendly utilization: with using IsoteQ[®] walls we preserve natural resources and due to the efficient energy consumption electricity and gas consumption is reduced. For the production of our elements we use recycled plastic.



WORLD PREMIERE: NEW PRODUCTS FROM ISOTEQ[®]

PRACTIC 50

PRACTIC 100

PRACTIC connection 150

PRACTIC connection 200

PRACTIC 150

PRACTIC 200

During our day-to-day work we have met one major difficulty: there are a lot of empty spaces in the cavity of the elements while transporting our building modules. It causes problem mainly in international relations because the transport charges are very expensive.

Our experts had solved this problem: the IsoteQ[®] PRACTIC system. IsoteQ[®] PRACTIC with its unique, patented technical procedure helps us to transport the heat-insulating layers and the plastic connections separately onto location! It is easy to fit and the result is the same tried and tested IsoteQ[®] wall form with extreme tensile strength. But we could transport even 2.5 TIMES MORE ELEMENTS THAN BEFORE ON THE SAME VOLUME.



the intelligent building element

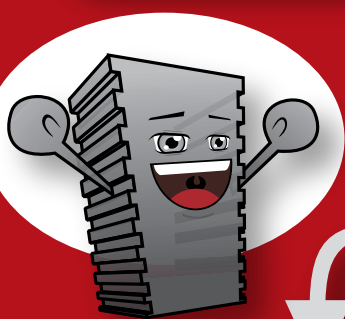


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Our product range called „**IsoteQ® – the intelligent building element**“ is based on a revolutionary idea: let's combine the ancient building material (concrete) and the latest best (NEOPOR® thermal insulation), and create a building structure five times stronger than the traditional with the best thermal insulation.

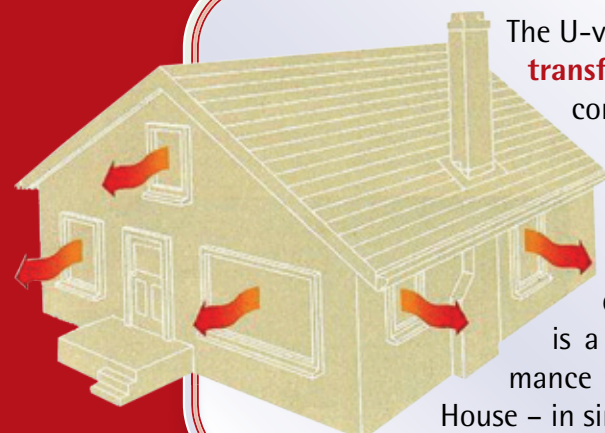


Our products are made of top quality basic material called **NEOPOR®** by **BASF**, which insulation ability is 20% better as the conventional Styropors. The body of NEOPOR® is made of polystyrene and graphite laminas, which reflect the heat-radiation and lend the typical grey colour of the product.

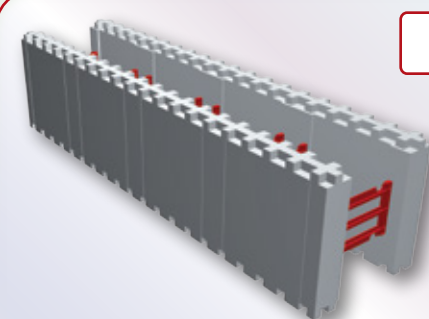


ETA

Our **European Technical Approval (ETA-09/0072)** confers us freedom of trade in the entire territory of European Union. Our factories are ISO 9001 certificated.

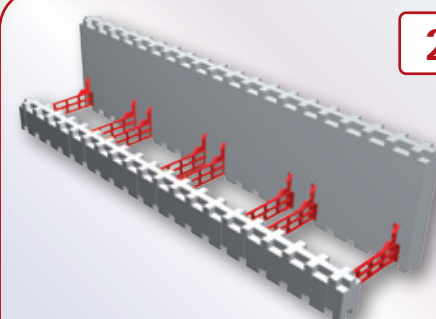


The U-value (or U-factor), more correctly called the **overall heat transfer coefficient**, describes how well a building element conducts heat. It measures the rate of heat transfer through a building element over a given area, under standardized conditions (a smaller U-value is better). By using the five types of the IsoteQ® system (IsoteQ® NORMAL, PLUS, EXTRA, PASSIVE AND PRACTIC) the heat transfer coefficient of the walls can be decrease down to $U=0,11 \text{ W/m}^2\text{K}$, which is a very prosperous value; the significantly better performance of the walls provides a possibility to develop a Passive House – in simpler terms, a house without heating.



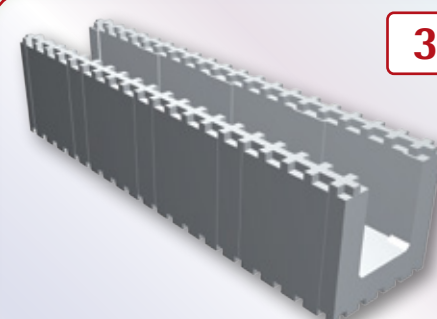
ISOTEQ® NORMAL MASONRY UNIT

Heat transfer coefficient:
 $U=0,26 \text{ W/m}^2\text{K}$
Thickness of external thermal insulation:
50 mm
Size of masonry block:
250 x 250 x 1000 mm



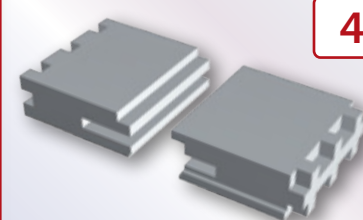
ISOTEQ® NORMAL RING ELEMENT

It connects to our wall element in a Lego-like way. Easy, thermal bridge-free fitting.
Size of ring element:
250 x 250 x 1000 mm



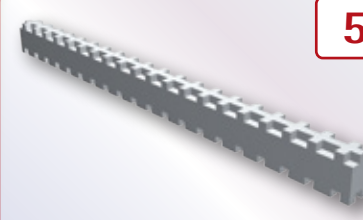
ISOTEQ® NORMAL LINTEL

An element that can be joint to the wall, and ensures the thermal bridge-free fitting of the doors and windows.
Size of ring element:
250 x 250 x 1000 mm



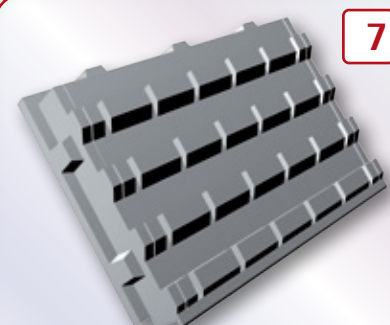
ISOTEQ® CLOSING ELEMENT

It is to be placed to the closing of wall endings, doors, windows and pillars – ensuring being free from thermal bridges.



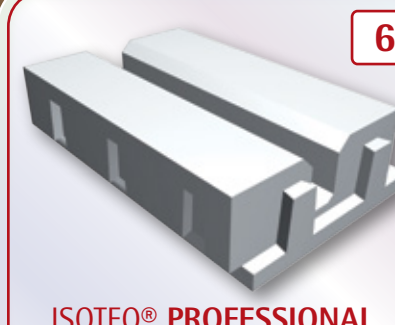
ISOTEQ® RAISING ELEMENT

It raises the elements with 5 cm, so that the costly and unnecessary loss of material may be reduced



ISOTEQ® NEOPOR® ROOF ELEMENT

Size: 900 x 600 x 170 mm
 $U=0,18 \text{ W/m}^2\text{K}$



ISOTEQ® PROFESSIONAL CEILING BLOCK

Using it together with the ring and wall elements, it ensures the perfect thermal insulation of the building.
Size: 500 x 700 x 200 mm

