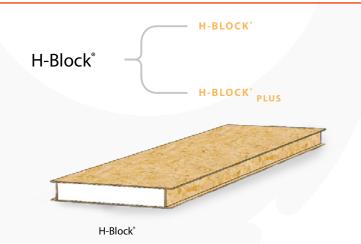
H-Block[®]

VS SIP



H-Block[®]

Our products, both H-Block[®] and H-Block[®]plus, are types of SIPs. These sandwich panels with a **polyurethane insulating core and OSB facing**, reinforced with the **web structure made of either OSB or plywood**, were invented in Poland and patented by us. Both of these panels combine the idea of a traditional SIP with the carrying capacity of beams, square tubes and boxes.



The traditional and well-known **SIP panel** (Structural Insulated Panel) was invented in the US in the 1930s. It is the sandwich panel with polystyrene insulating core and OSB facing, designed to quickly assemble residential and commercial buildings.

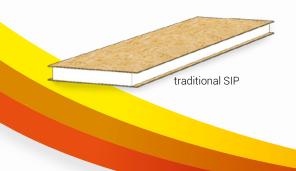
DRAWBACKS? A traditional SIP is used mainly as a wall panel - rarely for roofs and very rarely for floors. SIP for walls is a cover element that requires a structural wood connection between the panels. Such a use of SIPs, similar to that of a timber frame, creates thermal bridges. An alternative SIP tongue-and-groove connection eliminates the thermal bridge, but requires an additional internal structure.



H-Block[®] plus

Are we able to strengthen the web so that it could be used for construction purposes?

The answer to this question led to the creation of a hybrid web: OSB-PUR foam-OSB. Such a web, located between the flanges of OSB, created the concept of an **I-beam H-Block**^{*} panel.



to create H-Block° was the need to eliminate the

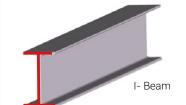
use of wood, where it is not essential in the building structure. This thought encouraged us to look at

the SIP panel as if it was the I-Beam, where the OSB

works as the flange and the rigid polyurethane foam

as the web. Our next thought was the question ...

WHAT INSPIRED US ...







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The advantages of H-Block[®] panel...

high insulation and energy efficiency

- + bearing capacity
- very fast assembly
- + air-tightness
- small thickness and much more...



H-Block^{*} gives you a chance for even more creative applications. Due to its light weight, very good bearing parameters and insulation at the same time, customers used it, e.g. to build houses on the water or mobile homes.



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