

# A show home with electric floor heating in Ostrava

Another Fenix reference building in which electric floor heating has been installed is a detached house in Krmelínská Street in Ostrava – Nová Bělá. The house belongs to Altabix s.r.o., which designs and executes turn-key family houses for its customers, made using the POROTHERM brick system. The described building is one of the home types they offer, and Altabix s.r.o. has made it accessible to the public as a show home.



This type (TRIO) is offered in two versions – TRIO-A (bungalow type) and TRIO-B (two-storey type). After considering which type would be the most suitable as a show home, a compromise was chosen in the end – the house is only a bungalow, but the incline of the roof and its positioning has been constructed to be the same as the two-floor version.

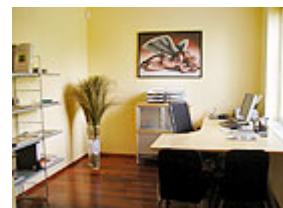


## Information about the building

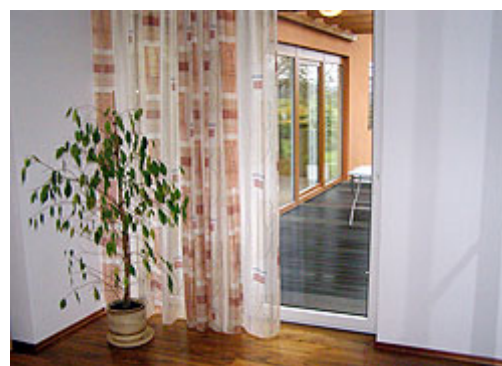
Brought into operation	05 / 2006
Useable (heated) area	137 m <sup>2</sup>
Calculated heat loss	9 kW
Installed wattage	11,5 kW

The heating of the whole house is provided exclusively by electric floor heating. In this particular case, PSV and P1P Ecofloor heating cables were used, embedded in the self-levelling anhydride screed floor. This universal solution is advantageous for the developer's system of construction when the building is constructed earlier than it is offered to the customers. Basically any covering can be laid on

the heating cables in the anhydride board, and the heating can already be installed during the construction of the building. During purchase, future users can decide whether they want to have tiles, PVC, floating floors or carpets on the floor.



Even though it has only 137 m<sup>2</sup> of living area, the house gives the impression of being both spacious and airy. It shows the advantage of floor heating, which does not obstruct in any way and enables the full use of the whole interior. Most of the windows are also without window sills, and because there are no heating elements in front of them, the outside terrace blends smoothly into the floors in the living room and the bedroom.



Both rooms are thus lit naturally and create an optical impression of being larger. In other rooms as well, the combination of glass windows reaching down to floor level with a pleasantly heated floor creates not only a feeling of free space but also maintains the impression of cosiness and pleasant comfort.



Regulation of the floor heating is provided using programmable room thermostats with floor probes.

Acquisition costs		
Ecofloor heating cables with regulation	29.113,-	CZK
Other electrical installation material	5.150,-	CZK
Installation of the floor heating	9.350,-	CZK

Electrical installation - other	11.640,-	CZK
Total acquisition cost (material, including the installation):	55.253,-	CZK
Total with 5% VAT	<b>58.019,-</b>	CZK

The building has been in operation since May 2006, and as it is a show home which is open every day, and as all of the rooms are heated to a comfortable temperature of approx. 22°C for the whole day, the operational costs are higher than they would be for a normal detached house.

Operational cost		
17.5.2006 - 13.4.2007	12.857	kWh
14.4.2007 - 9.4.2008	17.651	kWh
10.4.2008 -		
<i>Exchange rate 27,17 CZK / € (1/2009)</i>		

For a more exact idea – the consumption in a newly-built detached house with an area of up to 150m<sup>2</sup> ranges approximately from 8 to 12 MWh per year, which is approx. 18 – 25 thousand CZK for electricity per year. It needs to be pointed out again that this is not only the cost of the heating but also of the consumption of electrical energy over a whole year by all the appliances in the house.

#### Contact information

Operator of the building:

Altabix s.r.o., Slévárenská 406/17, Ostrava-Mariánské Hory

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#### Show home:

Altabix s.r.o., Krmelínská 530, Ostrava-Nová Bělá

Monday – Sunday 10 am – 5 pm

#### Supplier of electric floor heating:

Ing. Alexandr Bezecný – BEMA elektro, J. Kotase 19, 700 30 Ostrava-Zábřeh

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