



Education and Culture DG

E.P.D. Lahti



Sliven, Bulgaria 27 – 29 April 2010





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E.P.D.

Summary

- + Our E.P.D. in Gramat
- + Our E.P.D. in Lahti
 - + 1st parameter change
 - + 2nd parameter change

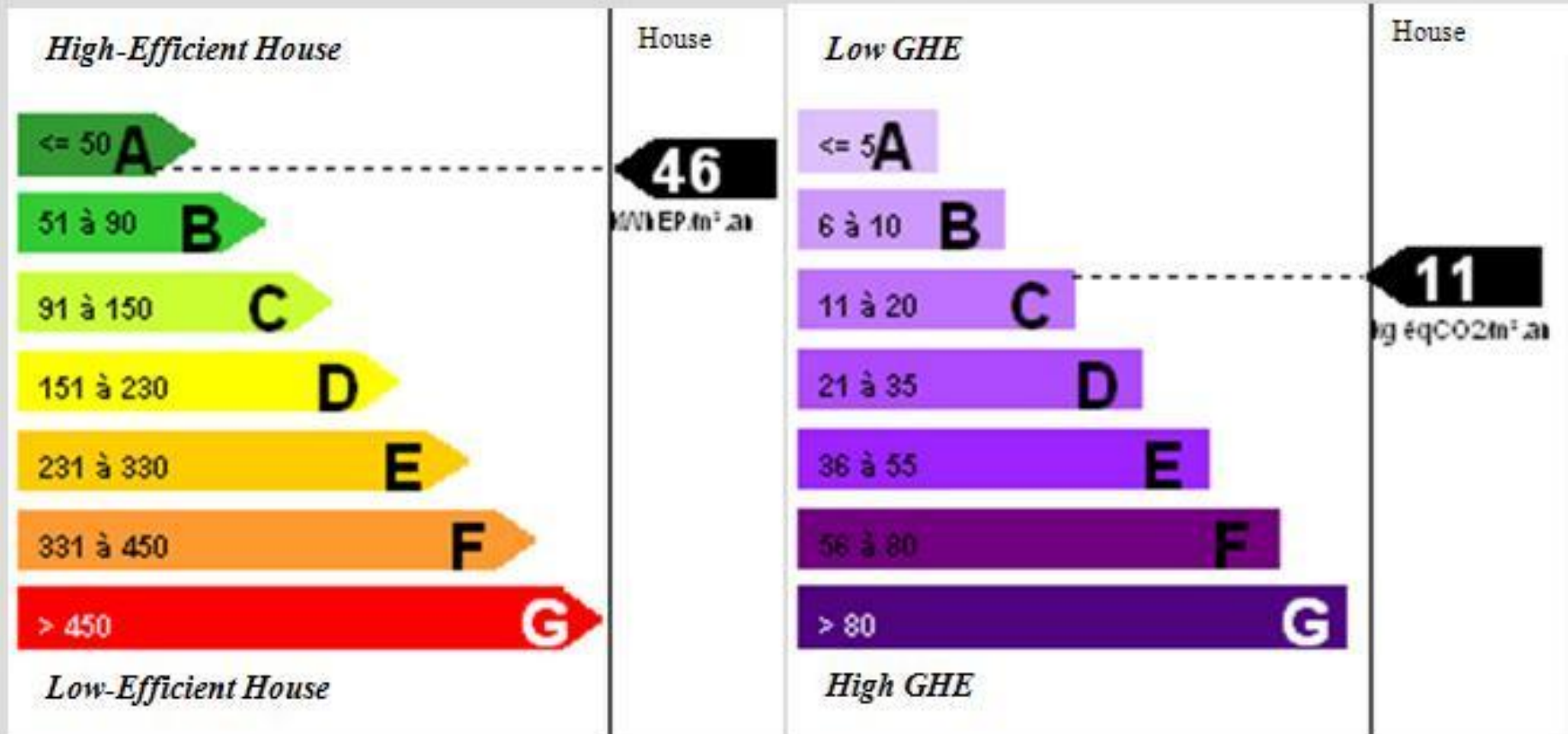




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E.P.D. Gramat





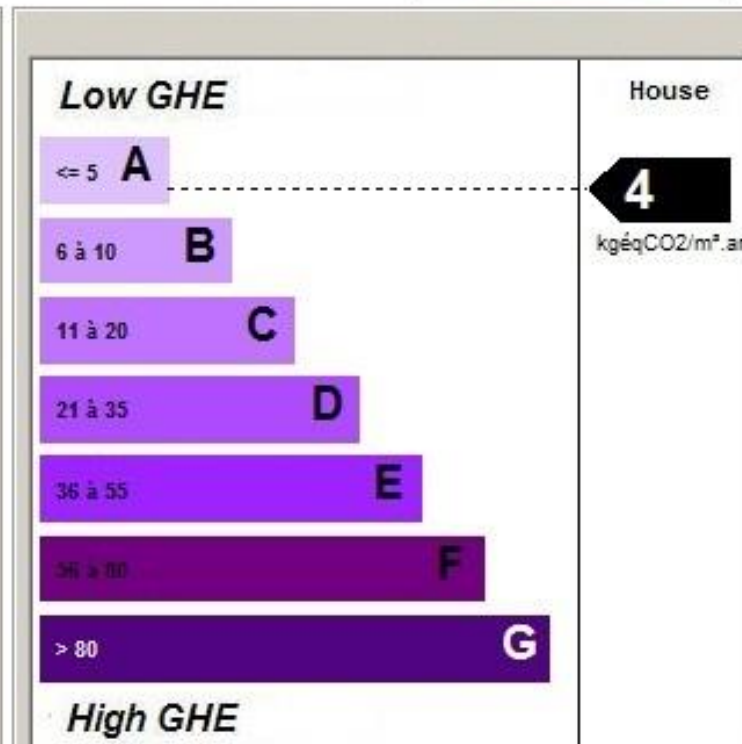
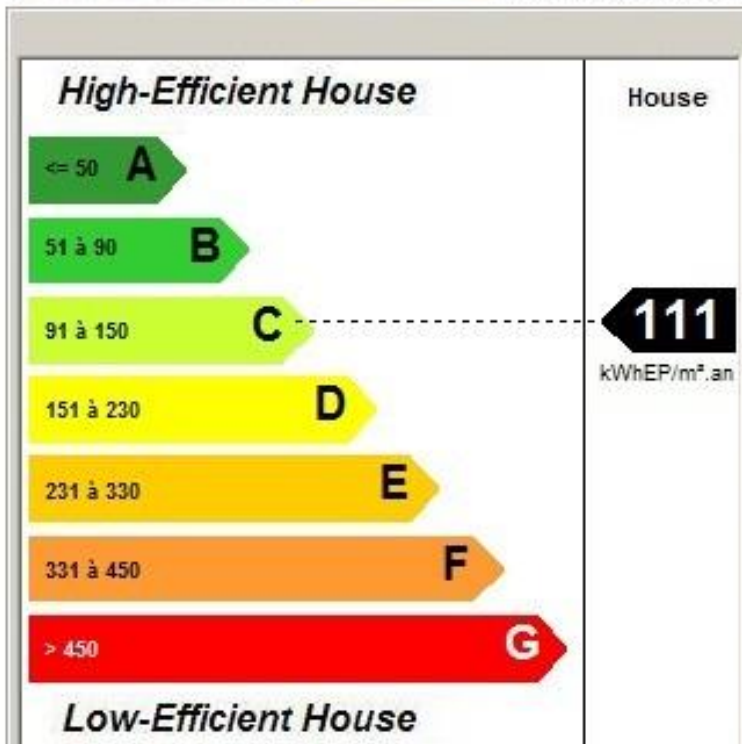
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	Final Energy	Primary Energy	Cost
Heating	6587 kWh	10830 kWh	389,87 €
Sanitary Warm Water	1768 kWh	4562 kWh	189,93 €
Air conditioning			
Total	8355,74 kWh	15392,95 kWh	
Charge			120,58 €
Annual Cost			700,38 €

Energy/GHE Indicator		
Energy	111	kWhEP/m ² .an
Green House Effect	4	kgéqCO ₂ /m ² .an

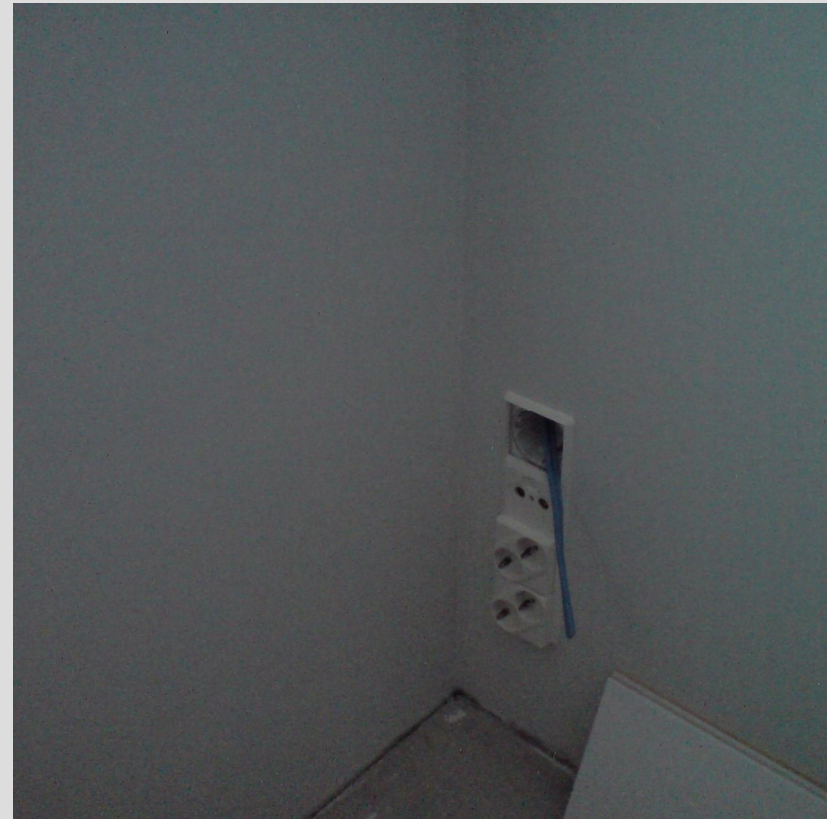
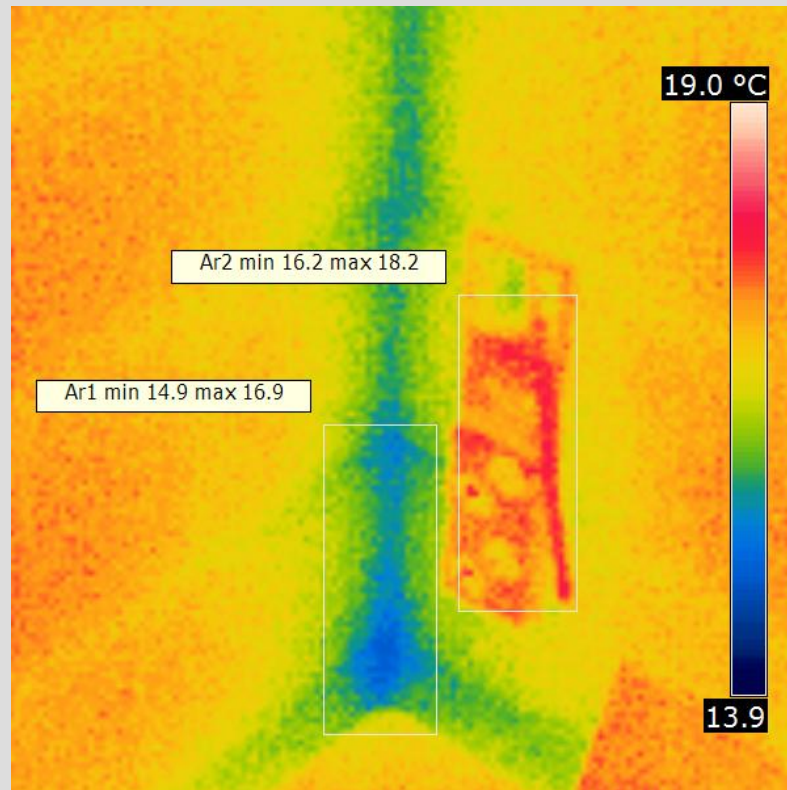




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I.R Lahti

A bad result (C)... but a good construction



A thermal bridge for the link between the two outside walls and the floor.

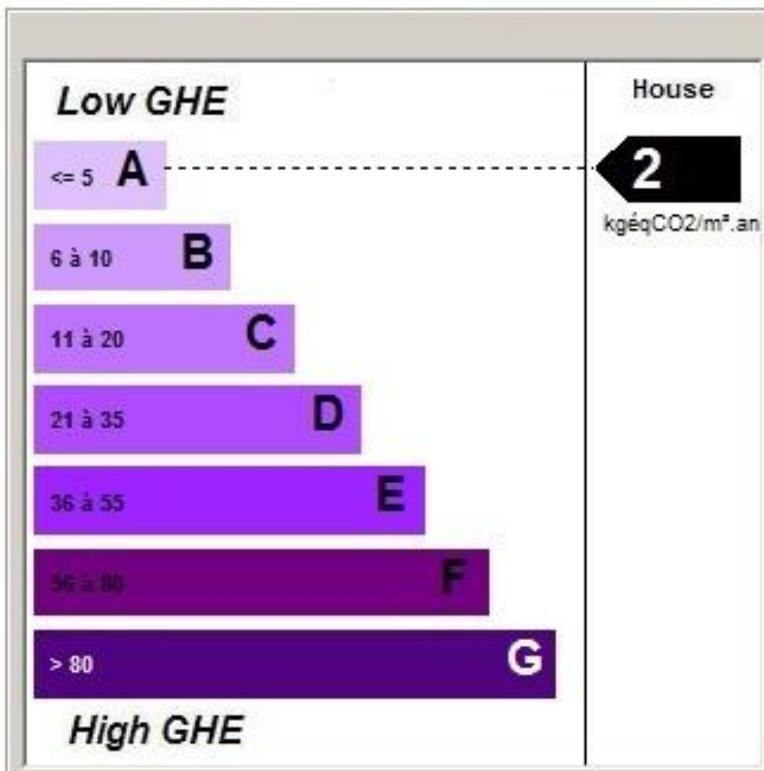
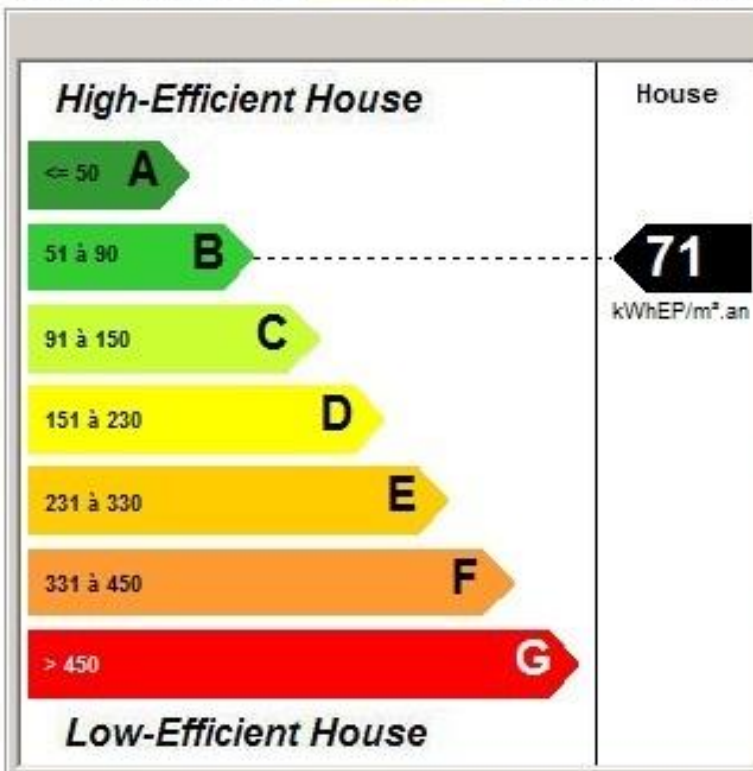


1st E.P.D improvement

	Final Energy	Primary Energy	Cost
Heating	3361 kWh	5525 kWh	198,90 €
Sanitary Warm Water	1678 kWh	4330 kWh	180,27 €
Air conditioning			
Total	5039,04 kWh	9855,69 kWh	

Energy/GHE Indicator	Value	Unit
Energy	71	kWhEP/m ² .an
Green House Effect	2	kgéqCO ₂ /m ² .an

Indicator	Value	Unit
Charge	120,58	€
Annual Cost	499,74	€



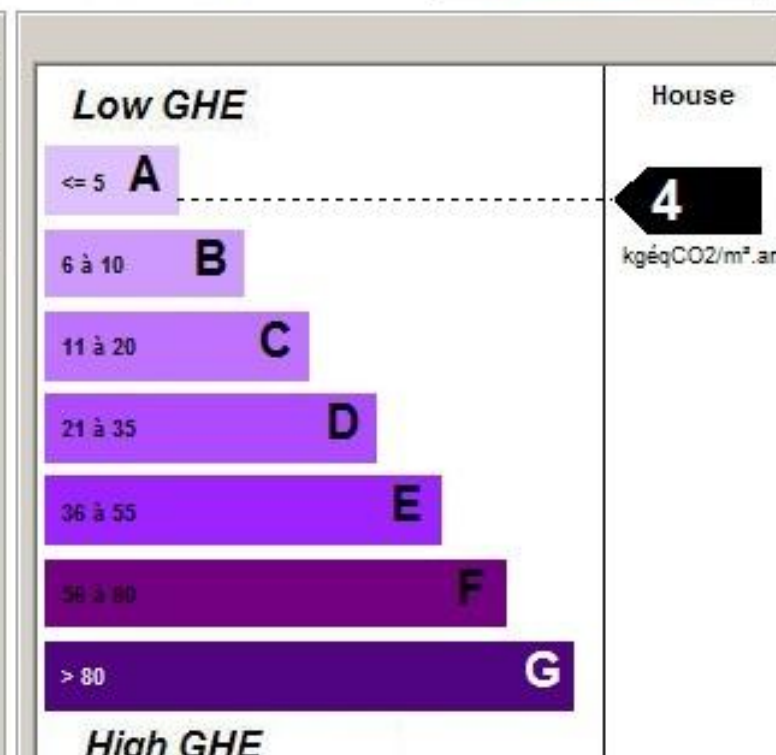
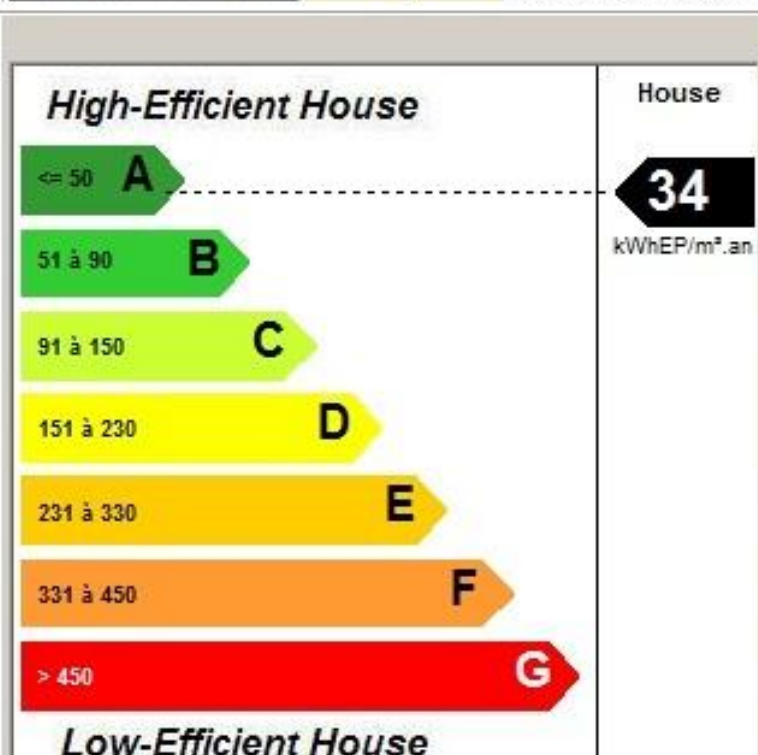


2nd E.P.D. improvement

	Final Energy	Primary Energy	Cost
Heating	2607 kWh	2607 kWh	149,19 €
Sanitary Warm Water	837 kWh	2160 kWh	89,92 €
Air conditioning			
Total	3444,76 kWh	4767,68 kWh	

Energy/GHE Indicator	Value	Unit
Energy	34	kWhEP/m ² .an
Green House Effect	4	kgéqCO ₂ /m ² .an

Indicator	Value	Unit
Charge	120,58	€
	35,95	€
Annual Cost	395,64	€





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The house has a very good conception

but a low efficient equipment

Thank you very much for your attention

