

**Project:** Private house,

**Location:** Tallenstown, Co Louth, Ireland.



**Area:** 209m<sup>2</sup> of Living Space

**System:** Eurotech "A" rated heating solution  
EuroFast floor Heating  
EuroSmart Intelligent heating controls  
Ochsner ground source heat pump

**The Brief**

To create the perfect comfortable environment for healthy living with low environmental impact and long term protection on heating and hot water bills.

**How we do it**

Using a low flow temperature to design the EuroFast floor heating system created an opportunity to operate the Ochsner Geothermal heat pump at 35°c flow with outside air at -1c, and deliver the required room temperature to each room as dictated by the EuroSmart control system. Hot water is also provided on demand using Geothermal energy.

**Annual 2009 operating cost for heat and hot water using E.S.B. dual tariff meter**

Annual cost 2009: € 449.00    Kilowatts consumed    Kw: 4,660.30    Energy output    Kw:19,773.65