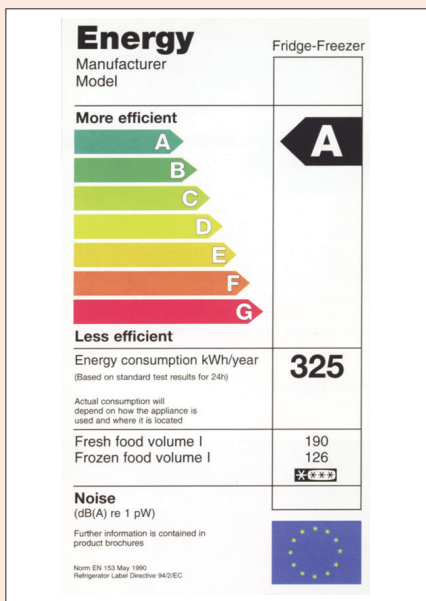


ECOHOMES ASSESSMENT: Energy section

Energy labelling

EcoConsulting concludes the Energy section by exploring energy efficient housing appliances and external lighting.



EU energy rating label for domestic white goods

Ene 4: EcoLabelled Goods

Credit Background: About a fifth to a third of the CO₂ emissions associated to a residential house are due to lighting and electrical appliances. Fridges, freezers, washing machines, dishwashers, and dryers are the most energy-consuming domestic white goods. However, there is considerable scope in reducing the energy required for running such appliances by selecting and installing the most energy-efficient products available on the market. EU regulation requires that all white goods display an energy rating label (see photo): This rating ranges between A and G, and the most efficient appliances are A or B-rated.

Credit Benefits: Lower electricity bills for the occupants, reduced impact on climate change.

Credit Requirements: Two energy credits are available: one for specifying

A-rated fridges and freezers under the EU Energy Efficiency Labelling scheme, and another credit for specifying A-rated washing machines and dishwashers, as well as B-rated washer dryers or tumble dryers (if any). In the case that no white goods will be supplied by the developer (leaving the choice to future occupants to select their own appliances), one Ene4 credit is still available if information is provided about the EU Eco-labelling scheme to inform and encourage occupants about choosing energy-efficient white goods.

Ene 5: External Lighting

Credit Background: External lighting – whether garage or garden lights, bin or cycle stores lights, lights in communal halls and stairwells between flats, lights by porches and external doors, or security lights – can be a significant contributor to electricity usage. Therefore, specifying appropriately controlled and low energy light fittings reduces a potentially large and wasteful energy consumption.

Credit Benefits: Lower electricity bills for the occupants or buildings' owners, reduced impact on climate change.

Credit Requirements: Two energy credits are also available for external lighting. The first one requires that all external space lighting is purposely designed to fit only compact fluorescent lamps (CFL) luminaires, fluorescent strip lights, or any other light fittings where the

efficacy is 40 lumens per circuit watt or better. Solar-powered lights also comply, as well as lights powered by another on site renewable energy source.

The second credit applies to safety and burglar security lights. It is awarded if all safety lights (including lighting in hallways for blocks of flats) comply with the low energy requirement described above and are also fitted with dawn-to-dusk sensors or timers so that lights do not remain on all day long. Note that if there are communal areas with no natural daylighting, lights may remain on continuously for security reasons but must be low energy lighting. In addition, if burglar security lights are specified, they should be of a maximum of 150 Watt and equipped with a movement detecting shut-off device as well as a daylight cut-off device.

■ **EcoConsulting (UK) Ltd** advises architects, developers, and housing associations on cost effective eco-building solutions to improve interior health and comfort, energy efficiency, and environmental-friendliness. As a certified EcoHomes, BREEAM Offices, BREEAM for Schools, and BREEAM Retail assessor, the company consults on achieving 'Pass' through to 'Excellent' BRE ratings.

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Ene 4: Ease of compliance		
✓ EASY	MODERATE	COMPLEX
Ene 5: Ease of compliance		
✓ EASY	MODERATE	COMPLEX

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