

DURABILITY

Insulated panel systems have a long lifetime which can typically exceed 40 years. Long life expectancy of our product will reduce energy consumption in a building over much of its lifespan.

RECYCLING

Steel can be recycled again and again without any degradation. The external and internal facing steel sheets are removed and fully recyclable through the steel manufacturing route, without further burden to the environment

Current thinking suggests that $\frac{3}{4}$ of steel used in construction can be recycled.

Under certain circumstances the panel core itself can be recycled for use as fillers for cements and mortars or as absorbers of liquid spillages.

DISPOSAL

Where disposal is the only option, composite panels and cores can be managed safely through existing facilities used for refrigerator dismantling. This ensures the safe disposal of blowing agent and allows for the reclamation of all recyclable materials, including the panel cores.

The Shredder route is the preferred solution for ODP zero and Low GWP panel blown cores

PANEL CORE

The insulation core utilises HCFC free chemical blends, with zero ODP rating, and a mean thermal conductivity value λ of 0.02038 W/m K.

GLOBAL WARMING POTENTIAL

Defined as the potential for global warming that a chemical has relative to 1 unit of carbon dioxide, the primary greenhouse gas of a companies' product is now becoming recognised as propriety information when establishing the environmental impact of a completed project.

In accordance with the protocols issued by BREEAM, products which are 'blown' with blowing agents including "Air, CO₂, Pentane and Isobutene" are deemed to possess a GWP rating of less than 5. Hemsec panels are blown with Pentane and therefore this rating applies.

HEMSEC IN HOUSE RECYCLING

We recycle 100% of our steel waste. This is achieved by manufacturing flashings, fabrications and steel sheet. Any remaining unusable steel is sold to accredited scrap merchants for safe disposal/further re-use.

We also carry out 100% recycling of waste core (PIR insulation) via our onsite shredder & briquetting machinery. This highly compressed/denser waste material can then be fed into various recycling options including waste energy conversion plants or fillers for alternative building products.