



## Typical items we accept:

- Partitions
- Ceiling/wall linings
- Thermal Insulation Board

It is estimated that 300,000 tonnes of waste plasterboard is generated each year from the demolition and construction industry.

Under the EU Landfill Directive, the disposal of gypsum waste such as plasterboard was banned in England and Wales in 2006. Previously all gypsum material was landfilled in separately engineered mono-cells. This prevented it from reacting with biodegradable waste which produces hydrogen sulphate gas that is both toxic and odorous.

In Europe, Plasterboard waste disposed of in landfills has allegedly created the Hydrogen Sulphide Gas (H<sub>2</sub>S like Rotten Eggs). The Plasterboard waste itself is not hazardous but when mixed with organic waste, and exposed to rain in an anaerobic environment, the reaction occurs.

Gypsum material can be reused time and again without altering its fundamental properties. Recycled gypsum can therefore be used as a replacement for virgin gypsum in a number of applications. Unique plasterboard recycling technology allows all unwanted waste to be reprocessed into a usable, sustainable and environmentally accredited raw material for a range of alternative markets.

## OUR PLASTERBOARD RECYCLING SOLUTION

We can accept materials delivered directly to our Materials Recycling Facilities (MRFs) in London or Essex. We can supply labelled/colour coded covered skips, wheelie bins and compactors to enable plasterboard products to be segregated and collected on-site and our logistics team can provide a scheduled and/or responsive collections service.

Our facility is designed to service a wide range of end users including plasterboard distributors, dry lining contractors, waste management companies, councils, developers and construction/demolition companies. We also accept a wide range of industrial gypsum wastes including filter media and industrial by-products. We can guarantee to recycle and recover 100% of all waste plasterboard.

Typically recycled gypsum constitutes approximately 89% of the output, paper and vinyl/foil linings 8% and contaminants 3%. Paper content within the recycled gypsum powder product is between 0.5% and 1%.

Mechanical and manual techniques are used to separate the plasterboard into its constituent material streams which are reprocessed separately:

- **Paper** - backing is removed, collected and assimilated into a paper waste stream for recycling
- **Metals** - studwork, nails/screws etc. are removed, collated and integrated into our non-ferrous metals waste streams
- **Gypsum core** - is collected and crushed into a fine powder ready for new products such as feedstock for manufacturing new plasterboard and cement, production of interior wall blocks or used as a constituent in colouring products for all forms of decorative and industrial coloured concrete, cat litter and soil conditioners.

Our digital data capture systems enable us to provide complete chain-of-custody reporting from collection to final destination. Electronic waste transfer notes are issued for all materials we manage in compliance with your Duty of Care obligations.

The McGrath Group is accredited to various trade bodies and accreditations including PAS 402:2013. We operate an integrated management system which is certificated against international standards OHSAS 18001 (Health & Safety), ISO 9001 (Quality) and ISO 14001 (Environmental) this ensures our products and services are supplied safely, consistently and sustainably.



## KEY FACTS

EWG Code:

17 08 02

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Percentage we recycle:

100%

Relevant regulations:

PAS 109 (Recycled plasterboard)

BS EN 520:2004 + A1:2009

Average CO<sub>2</sub>(e) saving per tonne recycled:

- 0.72 tonnes (Defra)

