



SSHA CRAIGINCHES – INSTALLATION PRODUCT

Dry Lining Plasterboard

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ENVIRONMENTAL IMPACTS

Plasterboard

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The reason for choosing Plasterboard is to eliminate a wet trade from the project and to be honest it really is the only option available. What we do have to ensure however is that waste is kept to a minimum through proper procurement and preventing damage. Any waste product generated on site through off cuts will be segregated and sent to be recycled.

Plasterboard;

Plasterboard is one of the great versatile materials in modern construction. Made from the simple materials of gypsum and paper it is used in most building types in a wide range of applications including wall lining, partitions, sound control and fire protection.

The main environmental impacts associated with plasterboard result



from the production process, transportation and disposal. Efforts directed by government currently concentrate on reducing the quantity of plasterboard being diverted from landfill to be recycled.

Around 270 million m² of plasterboard is manufactured annually using some 3 million tonnes of gypsum. Representing around 60% of the total annual output, gypsum used in plasterboard is generated by from natural and synthetic sources:

Metrics

Thermal conductivity: 0.16 W/m.K
Density: 800 Kg/m³
Specific heat capacity: 840 J/kg.K
Embodied energy: 6.75 MJ/kg
(ICE V2.0)

Impacts

- ↑ Can enable quicker and cheaper construction
- ↑ Non-toxic in use
- ↑ Gypsum can regulate humidity through moisture absorption
- ↑ Lining paper is typically 90% recycled
- ↑ Recyclable - content of new plasterboard can be up to 25% recycled
- ↓ Production and calcination use significant amounts of natural gas and fossil-derived electricity
- ↓ Global warming effect of burning of gas used to dry feedstock
- ↓ Plasterboard and facing paper production contribute significant levels of toxicity and eutrophication to water, as well as toxicity to land
- ↓ Transport of plasterboard to site and to disposal adds to embodied energy
- ↓ Though non-hazardous, it requires unique monocell landfill disposal
- ↓ Handling during construction risks injury