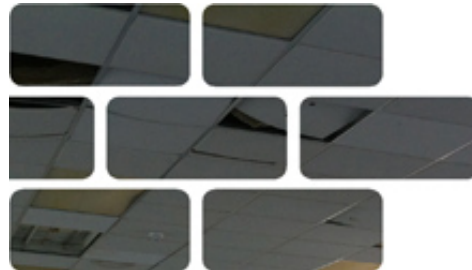


Z7 MINERAL WOOL CEILING TILES



Mineral wool ceiling tiles are manufactured from a fibrous product made of stonewool, glasswool or wet felted mineral wool. They are produced in a wide range of products, sizes, thicknesses, density and finished face depending on the performance and specification required. Some mineral wool ceiling tiles are arranged with other materials including metal frames, plasterboard and lighting to suite the technical or architectural finish. The future opportunities for waste mineral wool ceiling tiles is being overseen by the Ceiling Sustainability Partnership who produced the Mineral Wool Ceiling Tiles Resource Efficiency Action Plan - see Further Reading.

Stone Wool Insulation 17 06 04

WASTE STREAMS

DISPOSAL

Disposal of mineral wool ceiling tiles in landfill should be the least favourable option and options for recovery or recycling should be assessed.

RECOVERY

Mineral wool ceiling tiles can be incinerated at a licensed facility, with or without energy recovery.

RECYCLE

Mineral wool ceiling tiles that are uncontaminated are 100% recyclable. Manufacturers of mineral wool ceiling tiles may recover uncontaminated materials for recycling back into new products, with some achieving up to 65% recycled materials through an approved facility or their own recycling process.

RECLAIM

Mineral wool ceiling tiles that are in good condition, uncontaminated and easily removed may be set aside for reuse. However, due to damage, discolouration, contamination and painting they are often unsuitable for reuse and should be sent to landfill or incinerated.

USAGE & PROBABLE LOCATIONS

Mineral wool ceiling tiles are used for suspended ceilings alongside other materials such as metal ceiling frames, timber and plasterboard. Mineral wool ceiling tiles are 80% of all ceiling tile sales in UK. They are used as an acoustic barrier, for ceiling design, to hide heating, lighting and ventilation services and ducting and to provide a bright working environment in schools, hospitals, offices, retail and many other non-domestic buildings.

PERSONAL PROTECTIVE EQUIPMENT

PPE requirements indicated are for guidance purposes only. DRIDS has identified the PPE that is mandatory on all demolition projects and ones that may be required subject to site specific Risk Assessment & Method Statement (RAMS).



REMOVAL, SEGREGATION & STORAGE

Mineral wool ceiling tiles that are in good condition and not contaminated or painted should be recycled or recovered. Their reuse value is currently limited because they may be discoloured or easily damaged during removal, storage and transportation. Mineral wool ceiling tiles destined for recycling or recovery should be removed, segregated and stored in accordance with the requirements of the manufacturer take-back schemes or material recovery facilities. Mineral wool ceiling tiles destined for landfill should be segregated from hazardous materials and placed in a mixed waste skip for separation at a materials recovery facility.

TOOLS

Hammer, screwdriver, electric screwdriver, spanners.

FIXTURES, FITTINGS & CONNECTIONS

Mineral wool ceiling tiles are commonly seated within a metal ceiling frame and occasionally fixed in place with small clips. Other products, vent covers, ceiling electrical sockets and heating/ventilation/cooling plant may be fitted alongside and their fittings and connections close by. Care should be taken when lifting the mineral wool ceiling tiles out of the ceiling frame.

HEALTH & SAFETY

Subject to task-specific Risk Assessment & Method Statement (RAMS). Use correct protective equipment for removing fixings, especially those associated with adjacent heating, cooling and ventilation equipment. Wear gloves when handling tiles, especially where they are damaged, coated with paint or covered in dust to prevent irritation and cuts. Wear eye protection when using hand tools or lifting tiles from the metal frame to prevent dust into eyes. Wear face mask when lifting, removing and handling mineral wool ceiling tiles to prevent inhalation of dust and particulates.

FURTHER READING

Mineral Wool Ceiling Tiles REAP
WRAP Recycling Mineral Wool Ceiling Tiles
Contact List of Mineral Wool Ceiling Tile Manufacturers-Recyclers
WRAP Exemplar Mineral ceiling tile recovery and recycling service
AMEC Mineral Wool Ceiling Tiles Trials
BRE Waste Mineral Wool in Ceiling Tiles
CPA Mineral Wool Ceiling Tiles REAP
AIS Ceiling Sustainability Partnership

TRAINING

Manual Handling
Safe Use of Hand Tools