

19 ROOF TILES



Roof tiles are mostly made from clay, concrete, slate, stone or reconstituted materials such as slate waste or fibre cement. They are made in various colours, styles, shapes and sizes, depending on the specification required or materials available. They are of varying quality, strength and finish depending on their expected function and architectural finish. They are suitable for non-structural uses. Some are sought after, such as pantile and cotswold stone. Does not include products containing asbestos.

Roof Tiles Inert 17 01 03

WASTE STREAMS

DISPOSAL

The landfilling of roof tiles should always be avoided unless they are heavily contaminated or contains asbestos.

RECOVERY

There are no recovery options for roof tiles.

RECYCLE

Roof tiles can be recycled when not contaminated and where markets exist for them to be used as feedstock for making new products. Most can be crushed and used for sub-base layers in construction and for highways.

RECLAIM

Roof tiles in good condition, uncontaminated and easily removed from other substrates may be set aside for reuse. There is a strong market for old and reclaimed roof tiles including pantile, cotswold stone and Welsh slate.

USAGE & PROBABLE LOCATIONS

Roof tiles are used in construction to cover roofs and the cladding of buildings and structures, as they can form almost any shape and to keep the interior sound and dry. They are located on the roof and cladding of houses, cottages, farmsteads, civic buildings, churches, hospitals, schools, decorative perimeter walls, architectural structures and occasionally as garden decor.

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

Roof tiles that are destined for reuse should be deconstructed, cleaned of mortar, segregated and stored carefully and safely, to ensure their integrity and good condition. They should be stacked on timber pallets and bound with cling-film to prevent tumbling and away from plant movements to prevent splash damage. Crushed roof tiles that are destined for recycling should have the majority of contaminants removed to suit the quality protocol for recycled aggregates. Roof tiles should be removed using suitable plant and attachments and stored in piles of crushed materials that have been screened to remove metals and fines. There is no need to store palletted roof tiles or crushed roof tiles inside a building or under cover as they are robust against inclement weather.

TOOLS

360 plant and attachments, crane and chains, cherry picker, air tools, hammer, crowbar, jemmy bar, chisels, slater's ripper., safe access equipment.

FIXTURES, FITTINGS & CONNECTIONS

Roof tiles have been traditionally fixed in place with nails, tacks, pins, pegs and lead strips. Some roof tiles require no fixings, they are laid into place using mortar or other binding agent. Lead flashing and other types of flashing are used to seal the roof along roof walls, chimneys and other structures. Modern roofs may incorporate specialist trays and fixtures that tiles, glazed units and solar panels are fitted in place at the interface of roof tiles. Roof tiles will sometimes be painted or coated for decorative or protective purposes. Wall ties connect the timber wall plates, trusses and rafters that support the roof frame and roof tiles.

HEALTH & SAFETY

Subject to task-specific Risk Assessment & Method Statement (RAMS). Wear gloves when handling roof tiles, crushed materials, fire retardant materials or paints to prevent irritation, cuts and abrasion. Use eye protection when using hand tools. Limit hand, arm and whole body vibration when using air tools. Only use harness protection at height as a last resort. Only use 360 plant and attachments if appropriately trained. Be alert to pigeon guano and bat roosts, which require special consideration. Use safe access equipment as determined by RAMS.

FURTHER READING

Reclaimed Products Guide
Reclaimed Roof tiles
Reclaimed Roof Tile Supplier
Aggregate Quality Protocols
Reclaimed Roof Tiles
Authentic Reclamation London
Pigeon Guano
Bats and Buildings

TRAINING

Working at Height
Manual Handling
Safe Use of Hand Tools
Safe Use of 360 Plant and Attachments