



StoneSet has long been aligned with the environmental principals of Reuse, Recycle, Rethink. Read below some of the detail on how the product achieves positive environmental credentials.

Reuse

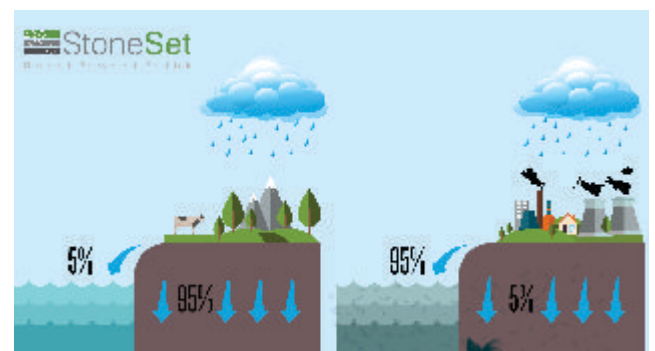
Overlay



The majority of StoneSet applications involve an overlay topping or ‘concrete resurfacing’. This is both economical and environmentally beneficial as the existing concrete base is not removed and sent to landfill.

Porous Paving

StoneSet porous driveways return water to the ground water table. Even an overlay results in a permeable concrete driveway where runoff can be channelled in sections to the side to reduce runoff.



Bind existing stone

StoneSet has a prominent ‘resin only’ product branded Pour On which allows binding of existing loose stone on pathways, garden beds and rooftops. Stone that would otherwise be removed due to maintenance issues.

Recycle

Repurposed Materials

StoneSet can bind more than stone! Recycled glass and rubber is often incorporated with stone to create decorative motifs and adding flexibility to tree pits and garden surrounds.



End of Life

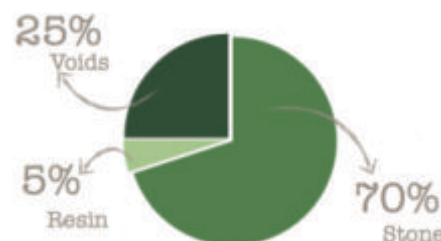
Like most paving, StoneSet can be crushed and reused as compacted stone base for landscaping or porous fill behind retaining walls. Due to the high durability of the polyurethane resin, this can not be dissolved or removed from the stone.

The fact StoneSet is typically 75% of material by volume, there is less landfill or stone to be recycled in a like for like comparison of other solid, rigid paving options.

Rethink

Resource Extraction

Stoneset is classed as porous hard surface paving, meaning it is composed of both solid materials (stone) and air gaps (voids between the stone).



With a void fraction of 25%, almost one quarter of StoneSet is air by volume. Compared with solid concrete or clay pavers, that means 25% less resource extraction, 25% less weight to transport and 25% less landfill at end of life.

Carbon Footprint

Clay pavers and bricks are heat fired into shape. Similarly, cement is formed from limestone processed in a rotating kiln.

Both manufacturing process are energy intense carbon generators. By contrast, extraction of raw aggregate requires less energy intense processing mostly crushing and screening (cleaning).



Water Sensitive Processing

The vast majority of StoneSet aggregate sourced from Australia. Unlike overseas suppliers, this guarantees lower transport emissions, regulated sustainable extraction and ethical workforce conditions and wages. The majority of stone we source is common quartz, marble, granite and felspar which is dry-screened, meaning minimal use of water when washing the stone clean in preparation for application of resin.