Edison Stone
Complete Technical Guide

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Edison Stone | Perth, Western Australia

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Handling & Transportation Guide – Sintered Stone

1. Purpose

Edison Stone Sintered Stone slabs are durable and strong, however correct handling and transportation practices must be followed to prevent damage, wastage, and unnecessary costs.

2. Personal Protective Equipment (PPE)

- Wear safety footwear, helmets, gloves, and high–visibility clothing.
- Comply with all local regulations and standards.
- Use wedges when separating slabs to avoid pinch points and hand injuries.

3. Lifting Slabs

- Use a forklift with a minimum 2–tonne capacity. For container unloading, a higher–capacity forklift may be required.
- Use a crane jib attachment with certified clamps or lifting straps rated for the slab weight.
- Always follow manufacturer guidelines for lifting equipment and clamps.
- The guider must remain to the side of the load and never stand directly beneath or in front of a suspended slab.

4. Slab Storage

- Store slabs only in purpose–built storage racks. Follow rack manufacturer's capacity and spacing guidelines.
- When storing full slabs and offcuts together, place offcuts on the outer side, leaning against a full slab.

- Full slabs must never rest on offcuts or be partially supported.
- Fit rubber caps on the ends of rack pins to protect slab edges.
- Use A-frames for temporary storage, transport, or viewing only. Secure slabs with clamps, ratchet straps, or safety bars.

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Bridge Saw Fabrication Guide – Sintered Stone

1. Purpose

To maximise the use of Edison Stone slabs (3200×1600×20mm and 3200×1600×12mm) and meet a wide range of design needs, proper cutting methods are essential. These guidelines help ensure product quality, reduce risk of slab failure, and support safe, accurate fabrication.

2. Pre-Fabrication Checks

- Ensure the cutting table is level and free from irregularities.
- Check that the cutting disc is in good condition and is a suitable diamond disc for porcelain and sintered stone.
- Use plenty of water during cutting to cool the area and suppress dust.

3. Cutting Speed

When using discs, ensure entry and exit cuts are performed at 50% of normal cutting speed. Maintain full speed only between slowed entry/exit zones (approx. 200mm).

4. Slab Preparation

Machine off approximately 20mm from each slab edge to de-stress the slab.

5. Cut-Out Procedure

- Maintain a minimum of 50mm between the edge of the slab and any cut-out location.

- Drill holes at each of the four corners of the cut-out before making straight cuts. This prevents cracks from propagating outward.
- Make the straight cuts starting from the innermost long side.
- Complete each cut-out in one continuous motion where possible.

6. Notes & Warnings

- Do not make sharp internal corners — always use a minimum 10mm radius.
- Never attempt to cut unsupported slabs.
- Ensure operators are trained and wearing full and fitted PPE, including safety goggles, gloves, appropriate respirator and hearing protection

Water Jet Fabrication Guide – Sintered Stone

1. Purpose

To maximise the use of Edison Stone slabs (3200×1600×20mm and 3200×1600×12mm) and meet a wide range of design needs, proper cutting methods are essential. These guidelines help ensure product quality, reduce risk of slab failure, and support safe, accurate fabrication.

2. Pre-Fabrication Checks

- Ensure the work table is level and free from irregularities.
- Clear the work area of dust and debris.
- Secure the slab firmly to the work table to prevent movement.

3. Slab Preparation

- Machine off approximately 20mm from each slab edge to de-stress the slab.
- This can be done using a bridge saw or water jet cutter.

4. Cut-Out Procedure

- Maintain a minimum of 50mm between the edge of the slab and any cut–out location.
- Begin cutting from the side furthest from the slab edge to reduce risk of cracking.
- Complete each cut–out in one continuous motion.
- Chamfer the top and bottom edges of all cut–outs to minimise stress points.
- Rinse the slab with clean water after each cut–out to prevent build–up of particulates.
- Always follow the water jet manufacturer's guidelines for pressure and abrasive levels.

5. Notes & Warnings

- Do not make sharp internal corners — always use a minimum 10mm radius.
- Never attempt to cut unsupported slabs.
- Ensure operators are trained and wearing full and fitted PPE, including safety goggles, gloves, appropriate respirator and hearing protection

Fabrication & Installation Allowances – Sintered Stone

1. Purpose

This guide provides recommended allowances and best practices for the fabrication and installation of Edison Stone Sintered Stone slabs. Following these guidelines will help ensure durability, safety, and long-term performance.

2. Overhangs

Maximum unsupported overhangs depend on slab thickness:

Slab Thickness	Max Unsupported Overhang
12mm	100mm
20mm	300mm
40mm mitred (12mm or 20mm slabs)	300mm

Overhangs greater than these values must include reinforcement (steel, aluminium, or suitable substrate).

3. Cut-Outs

- Maintain a minimum 50mm distance between any cut-out and the slab edge.
- Use a minimum 10mm radius for all sink and cooktop cut-out corners.
- Avoid sharp internal corners — always round and smooth.

4. Joins

Slab Thickness	Min Distance: Join to	Recommended Join

	Cut-Out	Width
12mm	⩾ 150mm	1.5–2mm
20mm	⩾ 100mm	1.5–2mm

Use colour-matched adhesive or silicone for joins.

5. Supports

- Cabinets must be flat, level, and structurally sound prior to installation.
- Provide continuous support under mitred edges or overhangs exceeding allowances.
- Cut-outs longer than 600mm (12mm slab) or 800mm (20mm slab) may require additional reinforcement.
- Substrates (plywood or honeycomb paneling) may be required depending on installation design.

6. Notes & Warnings

- Never install slabs with unsupported cut-outs.
- Always follow adhesive manufacturer recommendations.
- Reinforcement is mandatory for extended spans or high-traffic applications

Cleaning & Care Guide – Sintered Stone

1. Purpose

To keep Edison Stone benchtops looking pristine, regular cleaning is essential. Sintered stone is non–porous, making it highly resistant to stains and easy to maintain.

2. Daily Cleaning

- Wipe with a clean microfiber cloth or tea towel and water, using wide circular motions.
- Dry with a fresh microfiber cloth to avoid streaks.

3. Stubborn Stains

- Use warm soapy water or a mild household cleaner such as Gumption Paste Cleanser.
- Non–steel sponges (e.g., those safe for non–stick pans) may be used for tougher marks.
- Avoid abrasive pads, steel wool, or harsh chemical cleaners.

4. Recommended Products

- 3M Non–Stick Sponge
- Gumption Paste Cleanser

5. Notes & Warnings

- Do not use bleach, oven cleaners, or products with high alkaline/pH levels.

- Do not use sharp tools directly on the surface — always use a cutting board.
- Always wipe spills promptly to avoid build-up.







Edison Stone – Sintered Stone Warranty

1. Warranty Terms

Edison Stone provides a fifteen (15) year limited warranty on both 12mm and 20mm sintered stone slabs. This warranty is limited to the original purchaser, is non-transferrable, and guarantees that products are free from manufacturing defects when properly fabricated and installed.

The warranty applies only to Edison Stone slabs permanently installed in residential or commercial applications. Edison Stone reserves the right to repair or replace defective slabs at its discretion.

2. Warranty Coverage

- Applies only if fabrication and installation have been done by a Certified Stonemason.
- Fading or colour change due to direct exposure to UV sunlight (indoor or outdoor).
- Fading or colour change due to extreme temperature exposure (hot or cold).
- Staining from common household products, food, or beverages, provided care guidelines were followed.

3. NOT Covered Under Warranty

- Fabrication or installation by non-certified stonemasons.
- Improper fabrication or installation techniques used.
- Outstanding payment owing to Edison Stone.
- Change of mind regarding slab colour or finish.

- Cracking or chipping due to external forces (impacts, uneven cabinets/flooring, structural movement).
- Misuse of benchtops (e.g., standing on or hanging from edges, particularly overhangs).
- Scratches occurring during or after installation.
- Mechanical fasteners secured directly into the sintered stone.
- Expenses arising from repair or replacement (only slab material is covered).
- Colour/finish variation between different batch codes (uncut slabs may be exchanged before installation).
- If a slab model is discontinued, Edison Stone will provide the closest available alternative at its discretion.

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Frequently Asked Questions – Sintered Stone

1. What is Sintered Stone?

Sintered Stone is an engineered surface produced by the sintering process, where natural minerals are fused into dense, durable slabs under extremely high heat and pressure.

2. What is Sintered Stone made from?

It is made from natural minerals such as granite, quartz, feldspar, and natural oxides. Many of these are reclaimed or recycled, reducing waste. No resin binders are used, unlike conventional engineered stone.

3. What applications is Sintered Stone suitable for?

Our slabs are available in a standard size of 3200 × 1600mm, in both 12mm and 20mm thicknesses. They can be used for benchtops, splashbacks, wall panels, and floor panels.

4. Can Sintered Stone be used outdoors?

Yes. It is UV resistant and guaranteed not to fade or discolour over its lifetime.

5. Is Sintered Stone approved for use in Australia?

Yes. It is safer to fabricate compared to banned silica-based engineered stones and glass-based alternatives with resin binders. During the sintering process, minerals fuse permanently, and dust from cutting or polishing is similar to natural stone dust. PPE and safe fabrication practices are still required.

6. What is your warranty policy?

We offer a 15–year limited warranty. Please refer to our warranty document for full details.

7. Does Sintered Stone chip easily?

It is highly chip resistant thanks to its dense structure. However, extreme impacts can still cause damage. Fabricators usually perform a de–tensioning cut and apply a pencil round edge to reduce risk.

8. How durable is Sintered Stone?

It is very durable, resisting impacts, scratches, and wear. Suitable for both residential and commercial high–traffic use.

9. Does Sintered Stone stain?

No. The surface is non–porous and will not stain from common foods, drinks, or cleaners. It is also resistant to acidic liquids such as red wine and fruit juice. We still recommend cleaning spills promptly to avoid residue build–up.

10. Can I put hot pots and pans on Sintered Stone?

Yes. The material is manufactured at over 1,200°C, so it easily withstands direct contact with hot pots and pans without burning or discolouring.

11. Does Sintered Stone require sealing or maintenance?

No sealing or coatings are required. Sintered Stone is maintenance free and only needs regular wiping to stay fresh and clean.