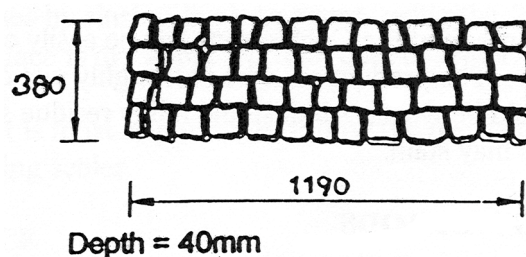




COBBLESTONE INSTALLATION & TRADE INFORMATION

(As referred to in "Chelmstone Terms & Conditions of Sale")



For Chelmstone Cobblestones

Thank you for choosing Chelmstone for your project – the highest quality and most authentic specialist cast stone manufacturer in Queensland. To ensure maximum satisfaction with your purchase of our Chelmstone product please read the following guidelines.

General Guidelines Only

The following information is a general guideline only and is to be used as an addition to relevant Australian Standards and Association and industry practices. It is to be used as a guide only and should not be solely relied upon, as installation methods will vary with each specific project. This guide in no way replaces the services of professional consultants and contractors.

Please Read Before Installation

It is critical to the success of your project and our product that the following information is read and understood clearly before any installation commences. If you have any further questions or queries do not hesitate to contact us directly on (07) 3279 3177.

PALLET, PACKAGING & DELIVERY

Our strict quality procedure ensures Chelmstone products leave our factory in first quality condition. We use the best available packaging materials and pallets to ensure all products arrive on-site in first class condition. Obviously, there must be an allowance for some minimal breakages/chips that we allow for, just like you should allow for all cutting extras. Please make sure all products are well protected while waiting to be installed on site.

Do not install any product that is thought to be defective. All claims must be reported to Chelmstone for an on-site inspection before they are installed.

Pallets & packaging are non-returnable.

PRODUCT HANDLING

Careful handling is required at all times – before, during and after installation.

Clean gloves must be used to carry Chelmsstone; otherwise there is a risk of unnecessarily marking the product.

CUTTING

Option 1

On most sites, for all situations there is no need for a wet brick saw or masonry blade grinder. Purpose build stones are found in each sheet of Cobblestone. Simply find the correct stone shape and cut the connecting string using a blade knife. Place the stone piece into the vacant space for a natural look.

Option 2

In situations where cutting is required the Cobblestone can be easily cut with either a wet brick saw or masonry blade grinder/saw. The product must be thoroughly wet down before sawing for safety reasons and a dust mask should be worn. All dust and milky residue should be washed off the product **immediately**, as this may stain.

COBBLESTONE LAYING METHODS

Pedestrian Areas Only

- Prepare soil base to a depth of 60mm compact ground. Spread bedding sand level to a depth of 10-20mm.
- Lay sheets of cobblestone on sand bed.
- Mortar along the edges angling the mortar bed at 45 degrees to retain the edge.

Light Vehicle Areas

- A well-compacted base of 75mm road base or crusher dust is required, as with the pedestrian area 20mm of washed river sand as bedding.
- Edging should be mortared at 45 degrees to retain edge.
- Joints either 20mm aggregate or mortar joints using the same method as above.

Heavy Vehicles

- These areas should only be layed on a concrete slab 75-150mm. Check on engineering requirements before starting project.
- The cobble sheets should be layed on a 10-20mm mortar bed.
- Edging should be 100mm strong concrete mix angled away from the top of the cobblestones.
- Joints – Only mortar joints are recommended using same method as above.

Joints Instructions

1. Pebble Infill

- Use Pebbles or aggregate up to 7mm in diameter (Any colour).
- With a clean broom sweep the pebbles over the laid cobblestones.
- Continue sweeping in all directions until the loose pebbles are removed.

2. Grout Infill

- Pre seal the Cobblestones prior to grouting to help prevent grout from adhering to the stones. We suggest a solvent based penetrating sealer.
- Blend sand and cement 3:1 and coloured oxide 4% of cement weight (optional) into a dry even mixture. Alternatively use a Chelmsstone coloured grout mix adding cement 3:1.
- ***It is important to mix well.***
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- 20kg of grout mix covers approximately 3 square metres.
- With a clean dry broom sweep the mix over the Cobblestones in all directions until all loose powder is removed from the Cobblestones.
- The surface of the stones must be clean and free of dry grout mix.
- Sprinkle water on a light spray or mist over the prepared surface. **DO NOT** saturate the area (You must use enough water to dampen the grout but do not flood the surface.)
- Too much water will produce a weak grout and cause shrinkage cracking. Do not use high pressure water as this will splash grout over the Cobblestones.
- Cover the grouted area with builder's plastic for 24hours.
- Clean any surface that has unwanted grout residue using a semi damp sponge. Keep the sponge clean at all times by rinsing in clean water- using the "Two bucket Method".
- When the finished surface is dry apply the final coat of sealer.

MOST IMPORTANT: It is most important to follow the instructions of the sealing manufacturer when applying sealer.

CARE AND MAINTENANCE

Chelmsstone cobblestones will mellow and age over time, as would natural stone. Staining can be minimised by sealing the product.

Chelmsstone use Know-How Concrete Technologies for cleaning and sealing our products (located at Unit 1/32 Success Street, Acacia Ridge. Ph.07-3274 1000).

Common Stains, Causes & Cleaning Methods

Stain	Cause	Suggested Cleaning Method
Mortar/ Cutting Residue	Inadequate sponging during installation, washing during cutting	Techni-Seal, Phosphoric acid (25% solution), High pressure Gerni (no less than 24" from the surface)
Soil	Wearing dirty boots, unwashed jointing/bedding sands, poor drainage.	Light bleach and brushing, 15:1 diluted liquid pool chlorine
Efflorescence	Salts (Calcium carbonates) from natural hydration of new masonry products.	Techni-Seal Cleaner, Phosphoric acid, Anti Eff from McGuires Cleaning (to be used according to manufacturers instructions)
Moss & Mould	Continual damp shaded areas.	Light bleach and brushing, 15:1 diluted liquid pool chlorine
Rubber marks, Tar, Oil	Rubber boots, wheelbarrows, car tyres	Prevention first, Light bleach and brushing, 15:1 diluted liquid pool chlorine, scrubbing brush, emulsifying agent (degreaser), Gerni (as above)
Graffiti/Paint	Inadequate protection during installation	Prevention first, Generic paint stripper (test first)
Food	Spills	Light bleach and brushing, 15:1 diluted liquid pool chlorine, brushing detergent, Selly's concrete cleaner
Red Wine	Spills	Prevention first, Light bleach and brushing, 15:1 diluted liquid pool chlorine, Selly's concrete cleaner
Rust	Outdoor furniture, nails	Techni-Seal Rust Remover, Oxalic Acid (5%)
Timber	Water spreading tannins and resins from wood	AvSyntac Sapless Stain remover, Oxalic Acid (5%)

(NOTE: These are guidelines and it is essential to complete a test area before treating the whole area)

IMPORTANT

Do not use any acid products in the cleaning of our Chelmstone Wet Pour range, ie Tudor Stone, Tuscan Stone, Saw-cut, Quarriedstone, Limestone, Cobblestone, Textured Stone and Stradbroke Crystal.

Efflorescence

To maintain quality standards Chelmstone uses a masonry efflorescence reducer to minimise the effect of efflorescence, very common in masonry products.

EXPERIENCED INSTALLERS

Remember, to achieve the best result from our Chelmstone Cobblestone we recommend you use a qualified paviour/stonemason/tiler that has experience in laying the Chelmstone products. Please see our list of 'Chelmstone Experienced Installers'.

QUALITY TEST INDICATORS

As a commitment to its customers, all Chelmstone products have been tested to the relevant Australian Standards. Full test details are available on request only.

RAW MATERIAL QUALITY STANDARDS

All Chelmstone raw materials are sourced from the best suppliers available, as per Australian Standards AS3972:1991, AS2758.1:1985, AS1478:1992, AS1465,BS101A.

