

**GUARDIAN BUILDING
PRODUCTS (QLD) PTY LTD**



**THE SPECIALTY
FABRICATION SPECIALISTS**

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1 INTRODUCTION

Guardian Building Products (Qld) Pty Ltd have over a number of years developed specialised facilities for the fabrication of fibre cement panels and other materials such as plastics and wood, to provide our customers with both cost savings and significant advantages where space or environmental issues are a concern on-site.

Guardian has the capability to cut any fibre cement product to size and shape, to pre-drill sheets to meet your requirements and to provide edge treatment (eg Aaris or bevel) to panels. The recent addition of a Waterjet and CNC to our equipment has expanded our ability to cut Fibre Cement products in more accurate and complex ways.

Guardian can also provide laminated panels to provide you with panels of thicknesses not available in standard products.

Guardian provide vented eave sheets in either 4.5mm or 6mm Versilux and also provide a “sandwich” panel using Hardiflex sheets bonded to a polystyrene core.

Guardian also has the capability to dock columns to length, split them in halves or flute columns to provide a decorative finish. We also manufacture square columns to meet our customers needs.

SPECIALTY
FABRICATION



2. CUT TO SIZE AND SHAPE

Guardian Building Products (Qld) Pty Ltd are specialists in the fabrication of Fibre Cement products.

When considering fabrication of fibre cement and compressed fibre cement sheets, specialised equipment is necessary to carry out this work efficiently and economically and in an environmentally considerate way. Different applications require different equipment in order to meet the clients needs and provide the required finish.

Guardian's resources include:

- Wet saws for the efficient, safe and environmentally friendly method of cutting sheets to size.
- CNC technology permits far more complexity in specific customer's needs including perforation and slotting of panels (fibre cement and ply) and fabrication of Saniboard Thermoplastic.
- Water jet cutting resource produces opportunities for curves, lettering, CAD drawing detail replication and diversified solutions to many design opportunities.
- Guardian's 3 belt sander can dress the finished sheet in preparation of decorating, or whatever finish may be desired.
- Venting machine for production of vented eave sheets.
- Column fabricator for fluting, splitting and docking of Columns.

All dry processing of product is captured by our extensive dust collection network and dust room designed to not only protect our environmental footprint, but also provide a safe working environment for our staff.

Guardian's Quality Assurance systems ensure your order will be received on site as you require it, or it will be promptly rectified at no cost to you the customer.

Our customer service is your insurance that utilising Guardian's services will save you time and money.

3. EDGE TREATMENT

Diamond and carbide tooling enable Guardian to provide a range of edge treatments applied to all forms of fibre cement. Extending beyond the practical solutions achievable using standard carpentry and woodworking tooling, Guardian can produce edge treatments ranging from a simple bevel, rebate or a full bull-nose detail on a range of sheet thicknesses.

This service extends to timber products in addition to the fibre cement range and offers benefits when pre-finishing of sheets is required.

Due to the types of products used within our organization, edge treatments often difficult to replicate on site can be provided to get the job done both professionally and economically.

4. DRILLING

Drilling of compressed fibre cement sheets requires both accuracy in addition to manoeuvring room often not made available on busy sites. Guardian provides a pre-drilling service for both fibre cement and compressed fibre cement in the complete range of product thicknesses.

Equipment including our CNC machine provides unparalleled accuracy in set out and can save considerable site time in the installation process. Guardian have developed specialist tooling which enables us to utilise this equipment efficiently with highly abrasive materials such as Compressed Fibre Cement.

Whether panels are supplied unfinished or pre-painted to site, factory pre-drilling will save you time and money.

Our CNC Machine allows Guardian to drill and perforate ply, fibre cement and compressed fibre cement. Holes of varying dimension ranging from fixing holes to holes for decoration or acoustic function, Guardian can accommodate your needs.

5. WATERJET

Our Flow Waterjet installed late in 2012 has allowed us to offer an expanded, cost effective range of fabrication services including standard cut to size and perforation. We are now able to more accurately provide curved cuts and a wide range of perforations to all fibre cement materials. We can read files created in CAD and use these to cut panels to your specification. The Waterjet is particularly useful when we need to fabricate large quantities to the same shape or size, or where a design with curved shapes is required.

6. LAMINATION

Guardian's fabrication facility continues to expand its provided services and offer clients a laminating service for a range of available construction substrates.

Guardian has developed a method which allow us to laminate sheets together whilst retaining the integrity of the product. This process is tried and tested and allows us to provide you with a solution otherwise not available.

Working closely with adhesive manufacturers, Guardian have proven and tested systems for the successful lamination of a range of products including fibre cement, compressed fibre cement, lead, ply and MDF panels.

Both compressed and non-compressed Fibre Cement:

Circumstances can prevail where the standard thickness of fibre cement sheets do not suit a specific requirement:

- Bridge formwork where thicknesses greater than those manufactured are required
- Custom design work, depending on the clients specific needs, varying options can be used to accommodate exceptional bond strength with a minimal glue line
- options where coved sheet junctions can be provided in the case of splash backs in bench top designs;
- Guardian's IMPAX security and vandal resistant board (refer to specific brochure covering IMPAX board).

Ply and MDF

- Lead backed panels for use in X-ray facilities (refer to specific brochure covering lead backed panels).

7. COLUMNS

Building columns fall into two primary categories being load bearing, or non-load bearing aesthetic features to complement the design criteria.

In addition to the fabrication processes Guardian offer for round Artista Columns, we also produce non- load bearing columns in both square and rectangular sizes.

James Hardie Artista Columns

Guardian Building Products have the ability to fabricate James Hardie Artista Columns as detailed below:

1. Cut columns to length;
2. Split Columns in half to allow them to be installed around existing support structures;
3. Flute 345mm and 425mm columns to provide a decorative feature;
4. Provide groves around columns;
5. Pre-finish Columns in a two pack paint system to provide a high quality finish.

GUARDIAN SQUARE COLUMNS

These columns are manufactured to custom sizes nominated by the client and are produced from compressed fibre cement. Three of the four sides of each column are screwed and epoxy glued, with the fourth side only screwed to allow removal on site, enabling placement around the structural support prior to re-fixing.

Once assembled, remaining countersunk screw heads are flushed and sanded on site to create the completed column ready for the desired decorative finish.

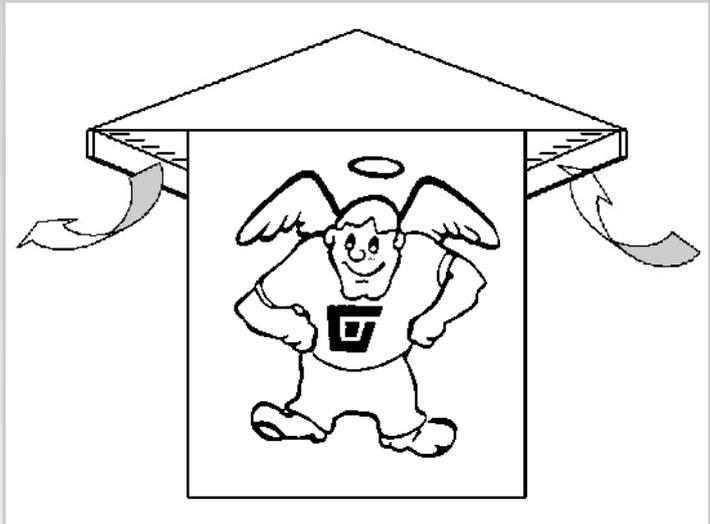
8. GUARDVENT VENTED EAVE SHEETS

A BREATH OF FRESH AIR FOR NEW HOMES

GUARDVENT

GUARDVENT SPECIFICATIONS

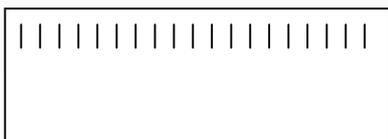
MATERIALS: Versilux, Hardiflex
THICKNESS: 4.5mm & 6.0mm.
SHEET SIZES: Stock Sheet sizes as produced by James Hardie.
SLOT WIDTH: 6.0mm.
SLOT LENGTH: 75mm.
SLOT CENTRES: 50mm.
NOTE: Non standard sheet sizes available upon request.



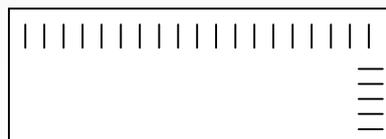
Modern construction has resulted in buildings that do not breath to the same extent as previously. Guardvent provides an economical way to maximise airflow through modern buildings reducing the need for cooling systems, thus minimising environmental and cost considerations associated with running cooling systems.

Guardvent provides ventilation to the roof attic space improving living comfort by minimizing heat build up above ceilings. In addition the risk of condensation causing damage to living and roofing is reduced, especially below tiled and metal deck roofs, where aluminium foil sarking is used.

Standard Configurations:



SP



SCP



SEP

9. FIBRECORE POLYSTYRENE CORED PANELS

Economical and lightweight building panels have long served the building industry in many applications ranging from partition panels to window in-fills, where existing glazing has been replaced to provide both thermal and acoustic benefits in retrofits in schools and other commercial projects.

A polystyrene core of varying nominated thickness is bonded each side with a range of facing materials ranging from fibre cement to ply and if required plasterboard. Standard sizes are determined by the facing product selected, with a full cut to size service available to meet the specific requirements of clients saving both time and waste removal costs from site.

Panels utilizing polystyrene core thicknesses of 12mm and 38mm are commonly used with a 6mm facing sheet each side producing both 25mm and 50mm panels. The versatility of this type of panel is such that custom thickness panels are easily provided by altering the core thickness specification.

10. DELIVERY SERVICES

Guardian Building Products have four company owned vehicles used to service our customers. We have a firm belief that through the use of a company fleet we are best able to provide our customers with deliveries which meet their needs and we are able to provide the level of service we are striving for by having our own staff at the front line.

Guardians delivery vehicles are:

Hino with a 12 Tonne carrying capacity with a Palfinger crane

Mitsubishi with a 6 Tonne carrying capacity with an Atlas crane

Toyota Dyna with a 2.25 Tonne carrying capacity

Toyota Hilux 1 Tonne