

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



**PERFORATED AND SLOTTED
FABRICATION**

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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 to provide our customers with both cost savings and significant advantages where space or environmental issues are a concern on-site.

Guardian has recently added a CNC machine and a Waterjet to our equipment which has enabled us to offer perforated fibre cement, compressed fibre cement and ply to our offering.

CNC machines are designed to fabricate timber products. Guardian has worked with tool suppliers to modify tooling to allow us to efficiently and accurately fabricate both fibre cement and compressed fibre cement products on this equipment. The tooling includes specialised 6mm drill bits designed to perforate these products.

Our Waterjet is capable of perforating both fibre cement and compressed fibre cement products with larger holes in whatever pattern is required. If we are provided with a cad drawing of what is required we can produce sheets perforated to match.



CNC machine especially modified for fabrication of fibre cement products

2. CNC Perforated Sheets

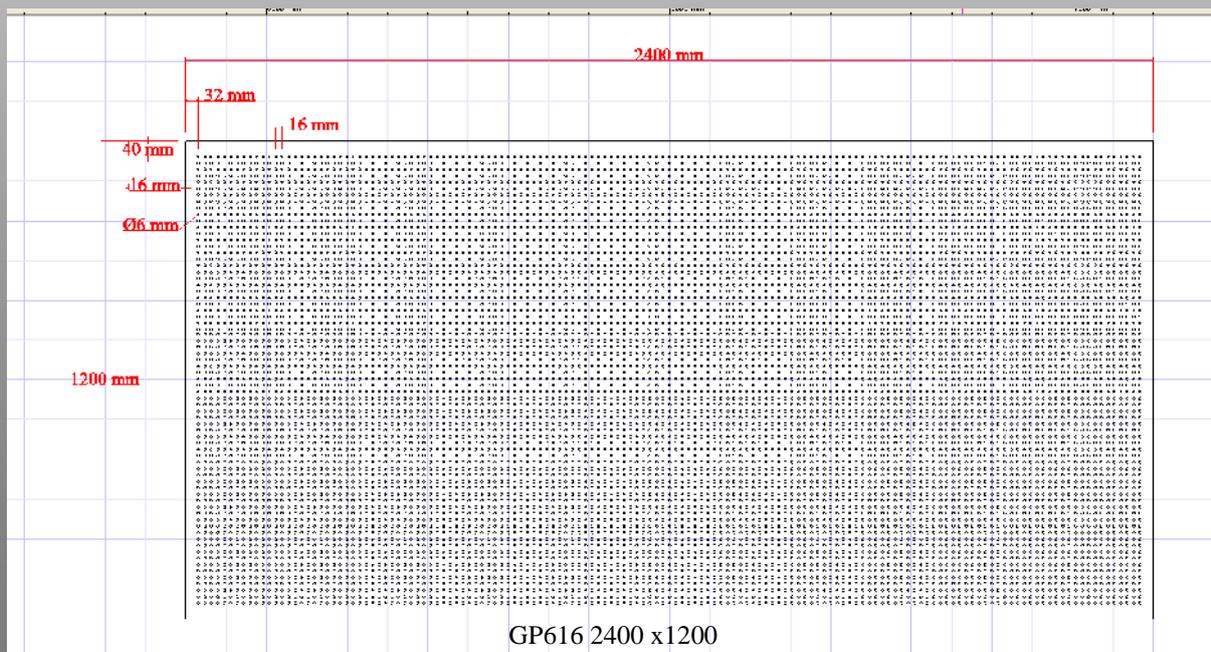
Guardian, with our specialised tooling, are able to perforate both fibre cement and compressed fibre cement. This allows our customers to choose the best material to meet their requirements. Installation of sheets is to be completed to the sheet manufacturers specifications. Panels should have a scrim material or alternatively a product like Megasorber Soundmesh G8 which has unique acoustic and fireproof properties which significantly enhances performance by trapping and dissipating the soundwave in the space behind the material.

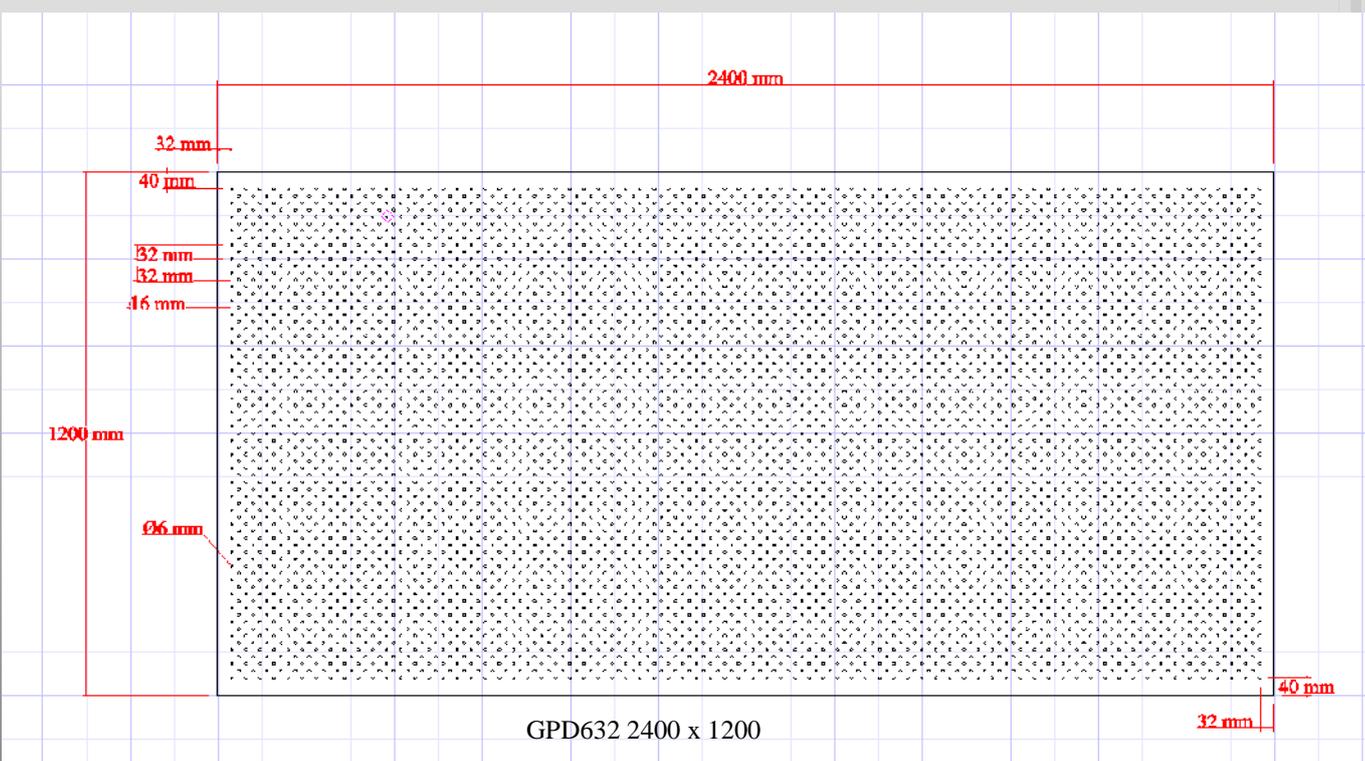
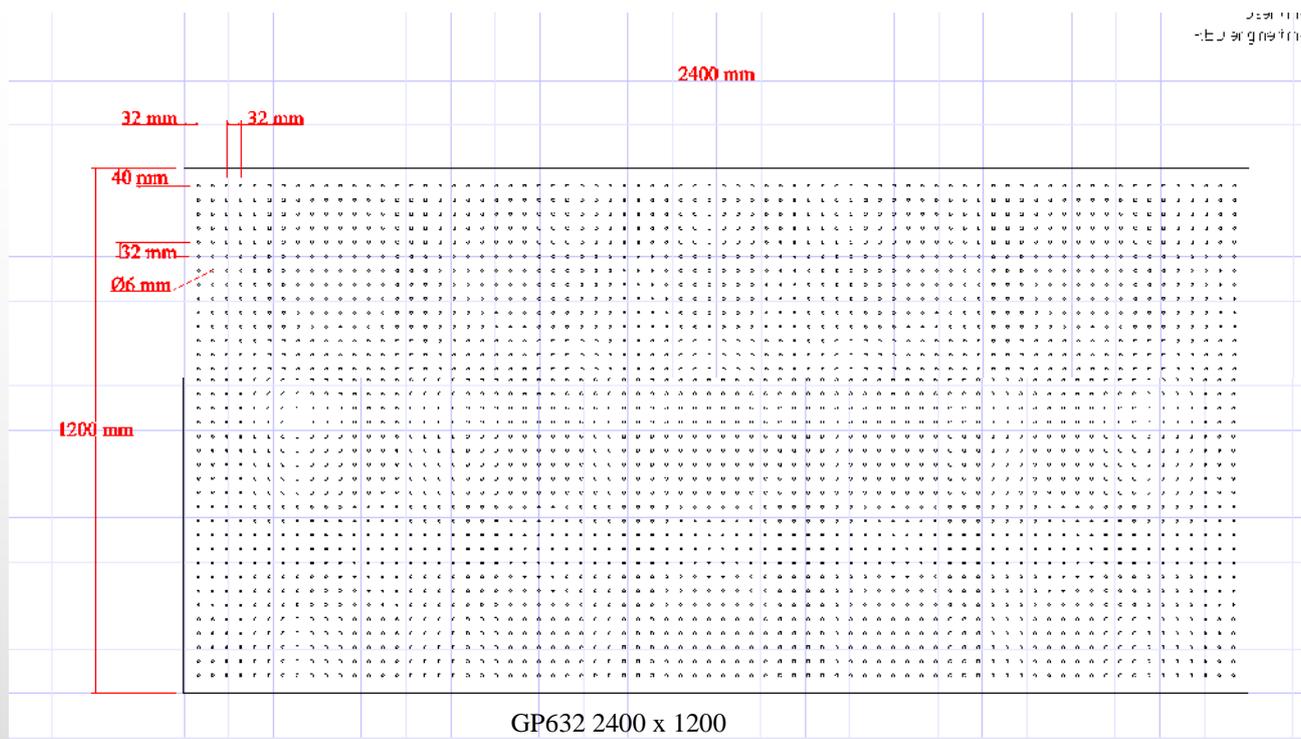
Perforation of panels on the CNC machine can be completed in either a square or diamond pattern as shown on the following pages.

The CNC machine has a series of drills which are 6mm diameter and 32mm apart. We offer the square pattern in either 16mm (GP616) or 32mm (GP632) design and the diamond pattern in 32mm (GPD632) design only. The table below shows open area obtained using these designs.

Code	Type GP616	Type GP632	Type GPD632
Open Area	11.04%	2.76%	5.52%

Hole is “xx” diameter where “xx” is the number after the GP or GPD and the holes are “yy” apart where “yy” is the numbers after the hole diameter.





Material sizes available in 6mm FC

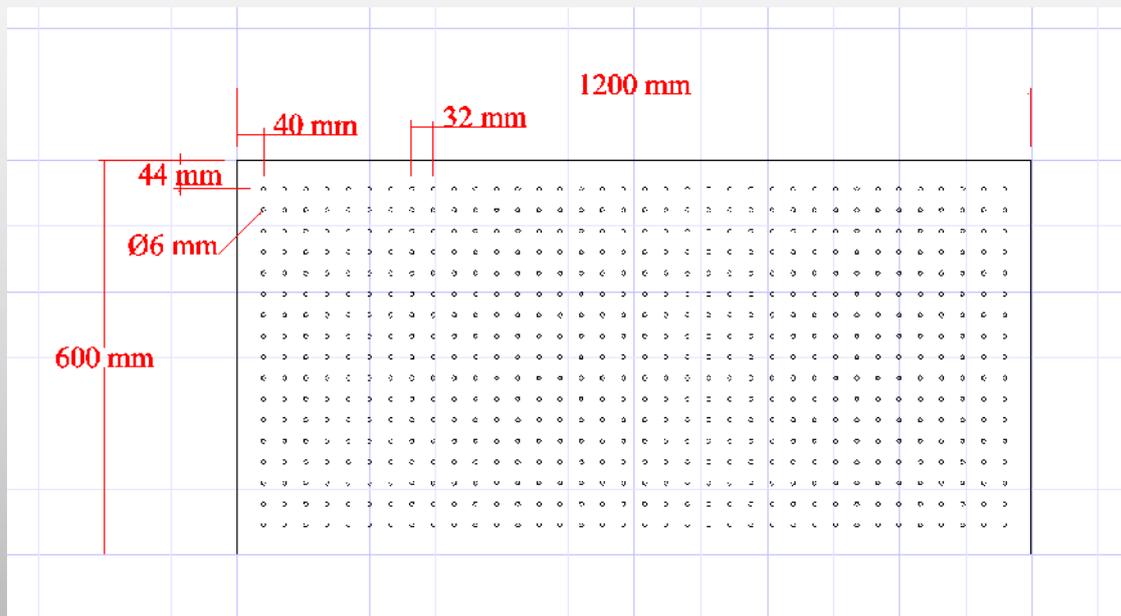
Material sizes available in 9mm CFC

Length	Sq Edge 1200	Sq Edge 900	Recess Edge 1200	Recess Edge 900	Length	1200	900
597	✓				1800	✓	✓
1800	✓		✓		2100	✓	
2400	✓		✓	✓	2400	✓	✓
2700	✓		✓		2700	✓	
3000	✓	✓	✓	✓	3000	✓	✓

Sheets can be perforated in non-standard sizes and varied patterns.

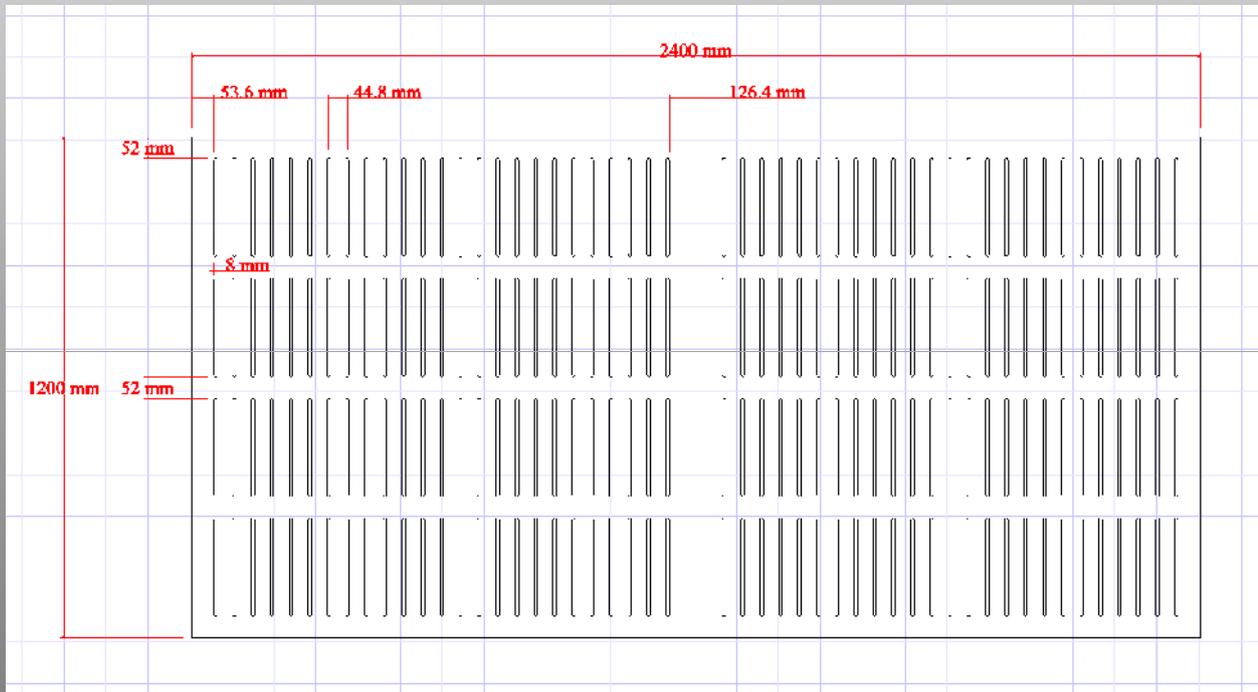
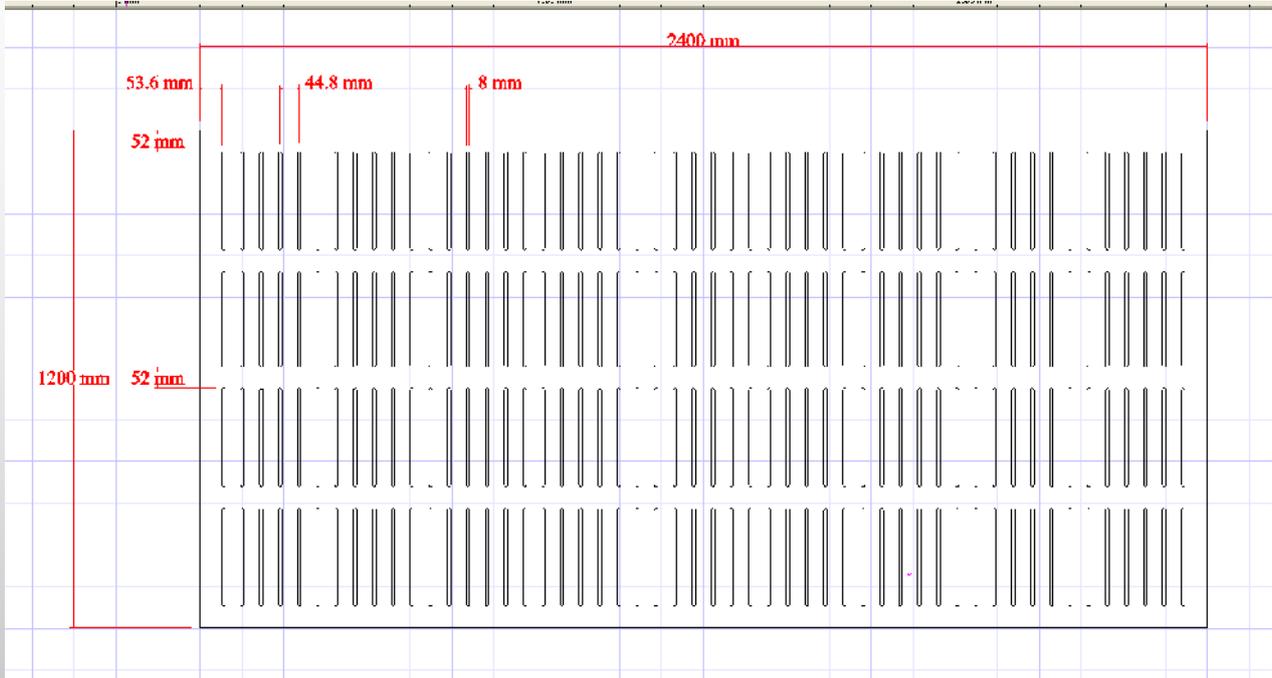
An example of this would be a 2400 x 1200 sheets with four perforated sections 1200 x 600 with a border around each section.

Another example is sheets produced to match standard ceiling tile sizes.



3. CNC Slotted Sheets

Guardian supply slotted sheets in a number of patterns and sizes. Two examples are shown below.



3. 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.

We see this innovation as a major step forward in our ability to assist our customers and their clients achieve the look they are seeking.

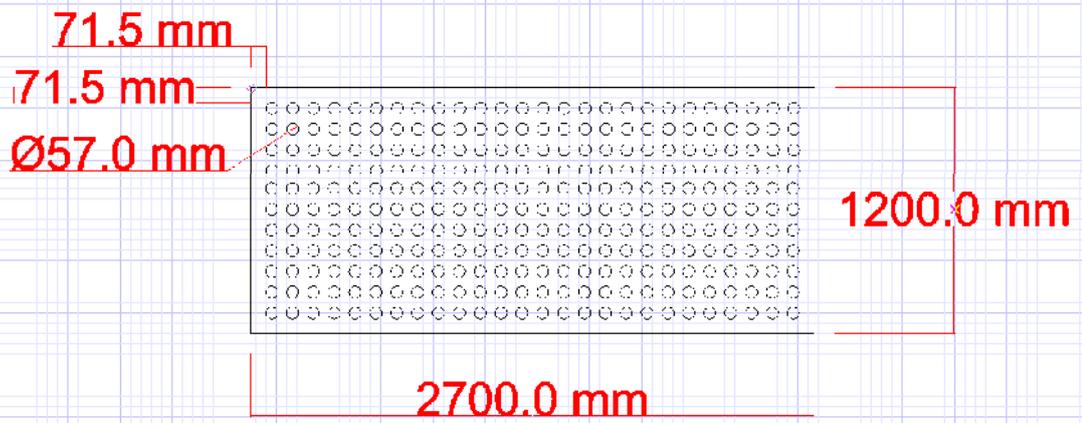
Perforation of sheets can effectively be fabricated to any specification. The most effective way to provide customers with panels which match their needs is for a CAD drawing to be supplied. This CAD drawing is then converted to code which is read by the Waterjet. We have established some standard specifications which are detailed below.

Our standard perforations with round holes are:

Code	Type GP3050	Type GP57100	Type GP4075
Open Area	28.27%	25.57%	22.34%

Hole is “xx” diameter where “xx” is the two numbers after the GP and the holes are “yy” apart where “yy” is the numbers after the hole diameter. These patterns are shown on the following pages.





Perforations in slotted and other patterns which do not fall into our standard designs can be completed to meet any need. The most accurate way to achieve this is for a CAD drawing of the design to be provided which we then convert and use in the cutting process.

All available fibre cement and compressed fibre cement sheets can be cut on our Waterjet meaning any shape, any size up to the largest sheet and thickness manufactured can be fabricated to meet your needs.

Some samples of sheets are shown below.



5. *Guardvent Eave Sheets*

A BREATH OF FRESH AIR FOR NEW HOMES



Guardvent

GUARDVENT SPECIFICATIONS

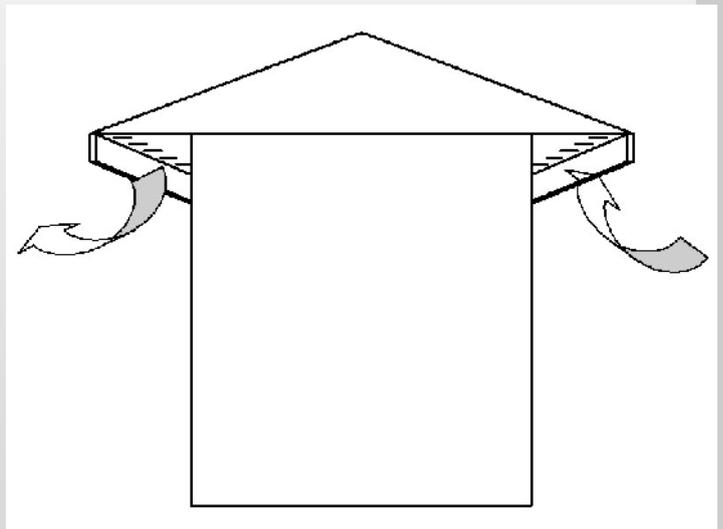
MATERIALS: Versilux, Hardiflex
HICKNESS: 4.5mm & 6.0mm.
SHEET SIZES: Stock Sheet sizes as produced by James Hardie.

SLOT WIDTH: 6.0mm.

SLOT LENGTH: 75mm.

SLOT CENTRES: 50mm.

NOTE: Non standard sheet sizes available upon request.



Guardvent benefits builders with increased sales of dwellings.

Modern construction has resulted in buildings that do not breath to the same extent as previously.

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:

