

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



**IMPAX SECURITY  
BOARD**

**AUSTRALIA'S LEADING FIBRE CEMENT VANDAL  
AND IMPACT RESISTANT SECURITY BOARD**

**GUARDIAN BUILDING PRODUCTS (QLD) PTY LTD  
UNIT 4 151 ROBINSON ROAD  
GEEBUNG QLD 4034**

**PHONE 07 3865 2993  
FAX 07 3865 2994**

**EMAIL [sales@guardianqld.com.au](mailto:sales@guardianqld.com.au)**

# GUARDIAN IMPAX SECURITY BOARD

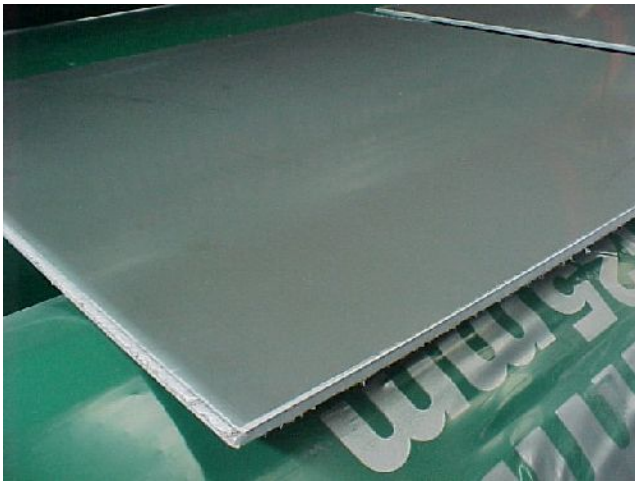
## TABLE OF CONTENTS

1. Impax Security Board Overview
2. Warranty and Environmental Credentials
3. Installation and Fabrication
4. Contact Details
5. About Guardian

### Typical applications.

IMPAX Security Board is designed to be used in areas where damage from vandals or other impacts are a concern. The majority of board is used as an internal panel on both walls and ceilings.

The board has been used in Correctional Facilities, Police Stations, Schools and other areas where protection is required. It has also been used to create a secure room for storage of valuable items in clubs and other facilities.



## IMPAX SECURITY BOARD

**AUSTRALIA'S LEADING FIBRE  
CEMENT VANDAL AND IMPACT  
RESISTANT SECURITY BOARD**

## IMPAX SECURITY BOARD

Impax Security Board was developed by Guardian Building Products to meet a requirement for wall panels which were resistant to damage from vandals and other impacts.

Impax Security Board is a fibre cement sheet pressure laminated to a sheet of zincanneal. The process, including the glue used and the weather protection process for single sided board, has been developed by Guardian over a number of years ensuring we are providing a board which performs to the highest standards.

The pressure laminating process provides the sheet with its inherent strength and is critical in ensuring the product meets strict performance requirements for the board. Without this process, performance and integrity are reduced dramatically.

The product is available in two basic configurations, single sided and double sided sheets.

The single sided sheet is recommended for most internal applications where surrounding temperatures can be controlled. In this environment the single sided product has proven to be very satisfactory both from a stability and performance point of view. Impax's single sided sheet is produced with a special 'weather proof' enhancement to the board protecting it from harsh environmental conditions during transport or storage prior to installation.

Double sided usage predominantly occurs in external situations, where extreme variations in ambient temperatures are present, necessitating the need to provide a balanced panel.

In relation to specific thickness specifications, we offer a range of steel thickness from 0.6mm to 1.6mm Zincanneal.

The fibre cement sheet used may vary from Villaboard or Versilux to Hardiflex or equivalent sheets from CSR, and is 6.0mm in thickness to best accommodate our recommended 30mm x 10 gauge CSK screw fixing requirement. The board can also be produced using 9mm sheets if required.

The strength and integrity of a vandal and impact resistant panel lies in the materials used in combination with the lamination process developed by Guardian. Guardian IMPAX security board the very best intruder resistant security panel.

# IMPAX SECURITY BOARD

## Panel features

- Standard size panels available in 2400mm x 1200mm and 3000mm x 1200mm.
- Panels available using 6mm James Hardie's Villaboard, Versilex and Hardiflex as the backing panel.
- Panels are also available using an equivalent CSR panel.
- Panels can also be manufactured using 9mm variants of the above boards.
- Zincaneal used is available in thicknesses ranging from .6mm up including .8mm, 1mm, 1.2mm and above.

## Warranty

- IMPAX Security Board is covered by a warranty covering workmanship and manufacturing defects for a period of six years.
- Full warranty details are available on request.

## Environmental Credentials

- The main components used in the manufacture of Impax Security Board are Fibre Cement Sheets, Zincaneal and a bonding agent.
- A brochure from James Hardie titled "The Smarter Green Book" provides information on the environmental credentials of the Fibre Cement component of IMPAX Board. (A copy of the brochure is available on request). In addition this component is manufactured in Brisbane which helps reduce environmental issues related to long distance transportation.
- The zincaneal used in production of IMPAX Board is recognized as being "chrome free zinc" which is a result of improved production methods to improve its environmental credentials.
- The Bonding adhesive is a water based configuration which amongst other credentials contains less than 1% VOC's.
- Our factory processes utilize practices where we recycle waste water, minimize dust and contaminants through collection and filtration systems and pay close attention to any environmental footprint we may leave.

# IMPAX SECURITY BOARD

## Installation

### **DOUBLE SIDED IMPAX BOARD:**

Where the wall to be sheeted is an external wall of the building, the sheets must be manufactured from a fibre cement sheet bonded to each side to a sheet of Zincanneal of the specified thickness. The sheet will be pressure laminated in a factory environment strictly as per manufacturer's quality controlled process. The purpose of double sided sheets in this application is to provide a stable panel which will not distort under varying ambient surface temperatures on either side of the panel.

### **SINGLE SIDED IMPAX *wp* BOARD:**

For internal wall and ceiling linings, Impax Board manufactured from a single sheet of fibre cement bonded to a sheet of Zincanneal of specified thickness, may be fixed direct to timber or metal framing. In the case of an existing wall or ceiling, sheeted with either fibre cement or plasterboard, single sided Impax Board may be fixed directly over the existing sheeting as detailed below, and providing the existing framing structure will support the additional weight of the new layer.

### **FRAMING:**

Recommended framing components are timber and or 1.2mm thick galvanised metal, however, variation to this requirement may be granted following Engineer approved framing design based on application and system weights per square metre. Wall frame spacing shall be at 600mm maximum centres, ceiling frame spacings at 400mm maximum centres, with additional framing required behind all sheet joints.

### **FIXINGS:**

For timber:- 10 x 30mm CSK head Type 17 screws.

For Steel:- 10 x 30mm CSK head TEK or Drill Point screws.

### **FIXING SPACING:**

All sheets are to be fixed at 200mm centres around sheet perimeter, with minimum 15mm edge clearance, and at 400mm centres through the field of the sheet. All sheets are to be pre-drilled with a pilot hole 1.0mm oversize of the nominated screw.

### **TREATMENT OF SCREW HEADS:**

All screws are to be countersunk and filled with Ciba Geigy 125 Araldite or similar and sanded flush.

### **CUTTING:**

It is recommended that as much cutting as possible be carried out with a diamond blade wet cut saw bench in a factory environment. When sheets are site cut, the edge of the cut Zincanneal be painted with a metal primer.

The blade must cut through the zincanneal first and then through the fibre cement to minimise delamination.

Pre-drilled and cut to size sheets can be supplied ex our factory by arrangement.

### **SITE STORAGE:**

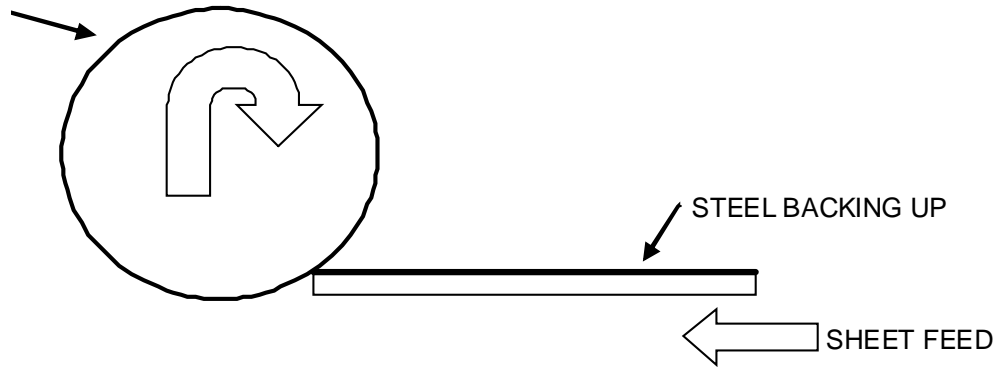
All material delivered to site is to be stored out of the weather in a dry and level location until installation is completed.

# IMPAX SECURITY BOARD

Installation (Cont)

Impax Board Cutting Recommendations

SAW BLADE CUTTING IN A CLOCKWISE DIRECTION



WE ALWAYS CUT AT SLOW SPEED WITH A DIAMOND BLADE ON A WET TABLE SAW AS SHOWN.

BLADE MUST CUT THROUGH THE STEEL SHEET FIRST AND THEN THE FIBRE CEMENT SHEET WHICH IS MUCH SOFTER.

EXPERIENCE HAS PROVEN THAT CUTTING THROUGH THE FIBRE CEMENT SHEET FIRST, THEN THE STEEL SHEET WILL PROMOTE BOND SEPARATION AT THE CUT EDGE DUE TO THE HAMMERING EFFECT OF THE BLADE ON THE SHEET.

**IMPAX SECURITY BOARD**

**AVAILABLE FROM**

**GUARDIAN BUILDING PRODUCTS (QLD) PTY LTD  
UNIT 4 151 ROBINSON ROAD  
GEEBUNG QLD 4034**

**PHONE 07 3865 2993**

**FAX 07 3865 2994**

**EMAIL [sales@guardianqld.com.au](mailto:sales@guardianqld.com.au)**

**STEVE TINWORTH General Manager 0413 444791**

**GARY GREEN Operations Manager 0413 444792**

**POSTAL ADDRESS**

**PO BOX 224**

**VIRGINIA QLD 4014**

**OTHER PRODUCTS**

**OTHER PRODUCTS AVAILABLE FROM GUARDIAN**

**READIPANEL FAÇADE PANELS**

**READIPANEL RESIDENTIAL PANELS**

**READIPANEL BENCHTOPS**

**RESIDENTIAL IMPAX BOARD**

**LIGHTWEIGHT EXTERNAL CLADDING**

**COMPLETE RANGE OF JAMES HARDIE PRODUCTS**

## GUARDIAN BUILDING PRODUCTS (Qld) PTY LTD

Guardian Building Products (Qld) Pty Ltd (Guardian) is a Building Solutions Company.

Guardian has developed a number of services and products, based mainly on quality fibre cement based building boards aimed at providing those involved in the building industry with quality products and services which add value to their business

### HISTORY

The business commenced in March 1991 as Guardian Building Products Pty Ltd. In 1995 the company proudly incorporated (Qld) into it's name to coincide with a change of ownership which saw it become a Queensland owned and operated business. Initially Guardian promoted a single product range (James Hardie Fibre Cement) giving Guardian the opportunity to develop levels of technical knowledge and support services many of our competitors were, and still are, unable to achieve.

During those formative years, it became evident that controlled diversification of both product and services were essential to ensure future growth and progress. As such Guardian has expanded it's core activities whilst retaining our dedicated commitment to impeccable and effective customer service.

### PEOPLE

Guardian's founder and Managing Director, Steve Tinworth, has more than 30 years experience in the Building Product industry. His philosophy of providing building solutions, products and customer service to challenge all previously set benchmarks is the basis on which the company is built.

His previous experience with companies such as CSR, etc provide him with knowledge about the type of customer service the building industry requires and this service philosophy is a key part of the continuing growth of Guardian.

Operations Manager Gary Green joined Guardian in June, 2006. His background is in design and implementation of systems and he has, since joining the company, put in place a number of quality systems designed to allow Guardian to better service our customers and to allow us to continue to provide the level of service required in this increasingly competitive business.

#### Other Key Staff:

Bill Scifleet	Bill is a long term and valued member of our team responsible for the timely and efficient operation of our warehouse and delivery activities. Bill also has a role in servicing hardware stores where products and services we provide can be of assistance to them.
---------------	---



Wayne Anderson Wayne is a qualified tradesman with 20 years experience as a carpenter and 15 years as a general foreman on construction sites. His role is to work with our customers and our sub-contractors to ensure that where we are involved in the installation of washroom systems we meet the expectations of our customers, and indeed their customers. Wayne's role is to follow the project from receipt of order through to completion of the project.

Stephen Frost Stephen has extensive experience in the building industry including qualifications as an electrician. Stephen is employed as an estimator with specific focus on our Waterjet and CNC equipment.

Tracey Sharpe Tracey is our bookkeeper whose role is to ensure we provide our customer with accurate financial information (e.g. Invoices) and to assist with any Customer questions with regard to their financial dealings with Guardian.

## **SERVICES OFFERED**

Fabrication of Fibre Cement and Compressed Fibre Cement Sheets including

- Cut to size including angle cuts
- Cutting of circles and discs
- Chamfer and Bullnose Treatment to panels
- Pre-drilling and countersinking to Compressed Sheets
- Column fabrication including splitting by length, docking to length, fluting and grooving both by length and around columns
- Laminating sheets to required thickness and size
- Eave Slotting of fibre cement soffit sheet (Guardvent)

## **SPECIALITY PRODUCTS**

Guardian has developed a number of speciality products designed to add value to fibre cement products available in the marketplace.

- Readipanel Façade Panels a factory applied painted façade or fascia panel
- Readipanel Washroom Systems
- Readipanel Laboratory Bench Tops
- Guardian IMPAX security boards
- Lead Cored doors, screens and back faced panels
- Fibrecore panels
- Guardvent Slotted Soffit Sheets
- Compressed Fibre Cement Sun Screens and Planter Boxes

## OUR COMMITMENT

Guardian is committed to working with our customers, suppliers and our staff to provide building solutions for our customers which will meet their requirements in an efficient, cost effective and innovative manner. Customer Service is not a part of our business, it is our business.

Guardian is also committed to doing all we can to minimise the effect of what we do on the environment in which we work. We have for a number of years been recycling water used in our manufacturing process and have continually worked to minimise the effect of dust emitted during the process.

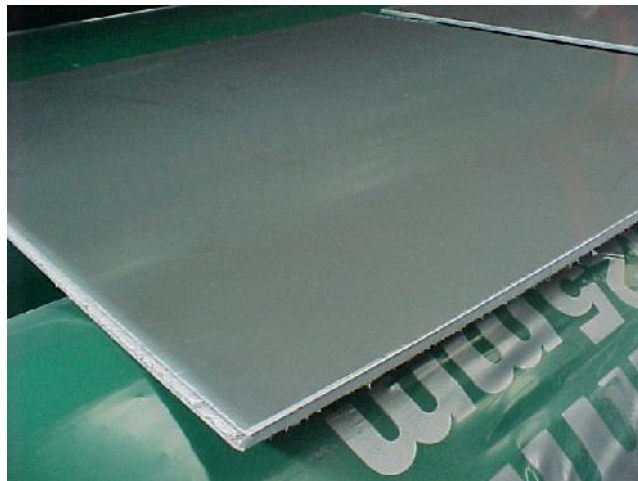
Guardian is also committed to it's staff providing a safe and professional environment in which they can achieve to the best of their ability.

## IMPAX SECURITY BOARD

Typical applications.

IMPAX Security Board is designed to be used in areas where damage from vandals or other impacts are a concern. The majority of board is used as an internal panel on both walls and ceilings.

The board has been used in Correctional Facilities, Police Stations, Schools and other areas where protection is required. It has also been used to create a secure room for storage of valuable items in clubs and other facilities.



# IMPAX SECURITY BOARD