



Product Bulletin:

Product Description: Guardian Impax Security Boards "Pressure Laminated"

Dear Sir / Madam,

Thank you for your inquiry regarding what has become the standard in vandal and impact resistant security panels throughout Australia. Whilst over the past several years, a limited number of "look alike" products have emerged onto the market, we are encouraged by the fact that specifications for the original product are being upheld due to it's tested and proven track record and unique manufacturing process.

We have recently added the term "pressure laminated" to the product's description for a number of practical and beneficial reasons. The first being that it is the laminating process of this product that provides it's inherent strength. The second reason for this inclusion has been to ensure that future specifiers do in fact receive both the product and performance that they are seeking. In a price driven market, specifications can and are being interpreted often quite differently from original intention to completed project. We have seen in the past, where contractors have firstly applied a layer of steel sheet to their framing members, and then applied a layer of fibre cement over the face of the steel, resulting in a product application that cannot possibly perform to it's expectation. The strength and integrity of a vandal and impact resistant panel lies in the materials and process of it's lamination. Without this process, performance and integrity are reduced dramatically.

The product is available in two configurations as directed by the application. These configurations include both single sided and double sided sheets to best cater for a wide range of intended applications.

Typically, single sided applications continue to outstrip the demand for double sided requirements. From our viewpoint, 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 most internal applications, where surrounding temperatures can be controlled to less dramatic differences, the single sided product has proven to be very satisfactory both from a stability and performance point of view. In relation to specific thickness specifications, we offer a range of steel thickness from 0.6mm to 1.6mm Zincaneal.

The fibre cement sheet used may vary from Villaboard or Versilux to Hardiflex, and is 6.0mm in thickness to best accommodate our recommended 30mm x 10 gauge CSK screw fixing requirement.

Tests have proven that the use of compressed sheet in lieu of the above mentioned, offer no advantage, and in fact, due to it's more brittle nature, could be considered less effective.

Applications here in Australia for the product, range considerably and are growing, with the major consumption going to school "safe rooms", Police Stations, Courthouses and of course Prisons.

Prison ceilings, both medium and high security, are consistently specified in single sided configuration being generally 6.0mm Versilux and 1.0mm Zincanneal steel backed.

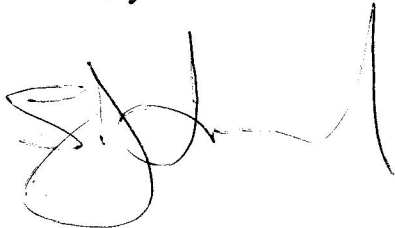
Q Build and Corrective Services specifiers have established whilst any increase in steel thickness would undoubtedly improve the penetration resistance, be it marginally, that the 1.0mm steel thickness meets their performance criteria and assists in containing construction costs.

Whilst we have been manufacturing and providing Guardian Impax Security Boards specifically for these applications for over 10 years, we now at the request of the Corrective Services Department have recently completed a prototype mock-up propriety ceiling framing system to accommodate the boards. This situation has arisen to standardize the framing system chosen by the installing contractor, which within reason is his option. The proposed ceiling system will address a number of associated issues which whilst currently accepted, are viewed as being able to be improved.

Guardian Impax Security Boards have been shipped to most states in Australia as well as New Guinea for an Embassy application for a New Zealand builder. I enclose our recommended sheet fixing instructions for your information in addition to our standard product warranty.

In a world where little is the way it used to be, whether your application is residential, commercial or industrial, Guardian Impax Security Boards are your silent sentinel offering vandal and intruder resistance unparalleled by many other building systems.

Yours faithfully.

A handwritten signature in black ink, appearing to read 'S. Tinworth', written over a light blue horizontal line.

Steve Tinworth
Managing Director
Guardian Building Products (Qld) Pty Ltd