

DENSGLOSS® SHEATHING PANELS

PURPOSE

DensGlass® sheathing panels are available as DensGlass® Sheathing and DensGlass® Fireguard Sheathing. The panels are supplied by MaxClad for use as a rigid substrate for a wide variety of air or water-resistive barrier systems. They can also be used under a wide range of cladding including brick, stone, stucco, siding and EIFS, and as part of fire-rated and non-fire rated assemblies. 5/8" (15.9 mm) DensGlass® Fireguard is included in UL and ULC fire design listings.

EXPLANATION

DensGlass® sheathing panels are gold-coloured gypsum board with fibreglass mat facings instead of traditional paper facings. The panels are non-combustible, with a gypsum core that is mould and moisture-resistant.

The panels can be installed either vertically or horizontally over a structural frame.

The DensGlass® Sheathing panels are 13 mm thick, 1200 mm wide and available in a length of 2400 mm; 2700 mm and 3000 mm lengths are available on request.

DensGlass® Fireguard is 15.9 mm thick, 1219 mm wide and 2438 mm in length.



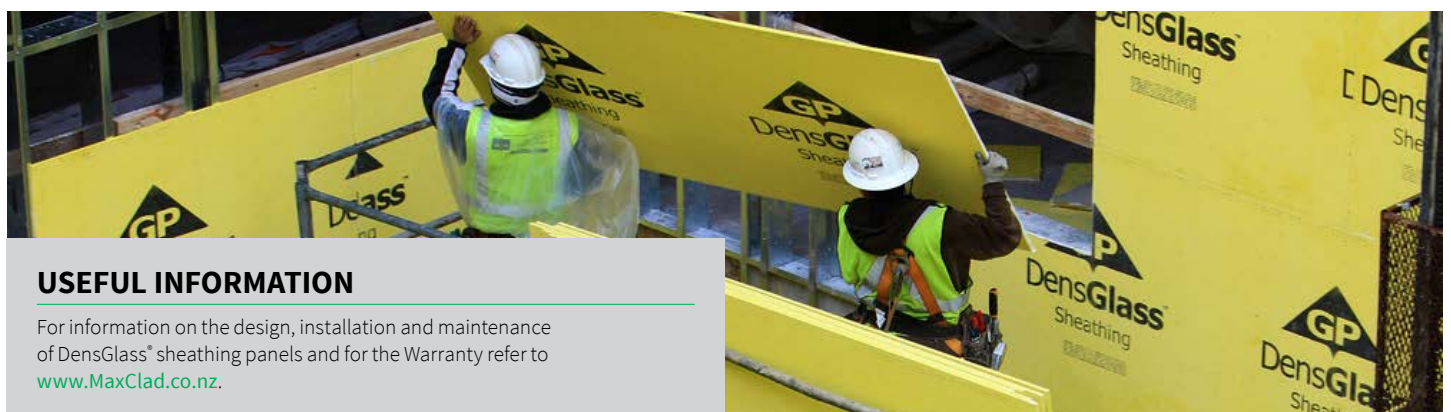
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SCOPE AND LIMITATIONS OF USE

Scope	Limitations
<h3>Location</h3> <p>In wind zones up to and including extra high as defined in NZS 3604:2011 or to a wind design pressure (ULS) of 2.1 kPa.</p> <p>In all exposure zones as defined in NZS 3604:2011.</p> <p>On buildings located any proximity to a relevant boundary.</p>	<ul style="list-style-type: none"> ➤ Fixing material selection to be in accordance with section 4, NZS 3604:2011. ➤ Within 1 m of a relevant boundary, DensGlass® Fireguard must be used and the balance of the external wall must comply with the relevant fire provisions of the NZ Building Code.
<h3>Building</h3> <p>In buildings where the relevant structure complies with the NZ Building Code or where the designer and installer have satisfied themselves that the existing structure is suitable for the intended building work.</p> <p>On timber or lightweight steel framing.</p> <p>On all building uses.</p> <p>As a rigid air barrier.</p> <p>As a Fire-rated and acoustic assembly.</p>	<ul style="list-style-type: none"> ➤ Where installed over steel framing, a thermal break is required. ➤ DensGlass® Fireguard may be used where a Group Classification Material Group 1S or less is required. ➤ Must be installed in accordance with E2/AS1 or a tested assembly that calls for a rigid air barrier. ➤ Must be in conjunction with an external cladding system and joinery that complies with the NZ Building Code through an acceptable solution, verification method, current CodeMark certificate providing all conditions are met, or a Determination where relevant. ➤ DensGlass® Fireguard must be used and it must be in accordance with the DensGlass® Sheathing Technical Guide on a timber or lightweight steel, structural frame that complies with the relevant provisions of the NZ Building Code.



USEFUL INFORMATION

For information on the design, installation and maintenance of DensGlass® sheathing panels and for the Warranty refer to www.MaxClad.co.nz.

PERFORMANCE CLAIMS

If designed, installed, and maintained in accordance with all MaxClad requirements, the DensGlass® sheathing panels will comply with or contribute to compliance with the following performance claims:

NZ Building Code clauses	Compliance statement	BASIS OF COMPLIANCE ¹ Demonstrated by
B1 Structure B1.3.1, B1.3.2, B1.3.3 (a, h, j, m, q), B1.3.4	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> Structural design report confirming expert assessment based on AS/NZS 1170 (Constructure Structural Engineering, 3/4/2019). Wind testing assembly test to ASTM E330 (Hurricane Test Laboratory LLC, 2/11/2007). Load testing to ASTM E330-84 (Timber Products Inspection, 12/01/1990). Code Compliance Research Report CCRR-0377 (Intertek 21/12/2017).
B2 Durability B2.3.1 (b)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> Manufactured in accordance with ASTM C1396, which contains standard requirements for gypsum products (Georgia-Pacific Gypsum LLC, 2020). Mould growth resistance testing to ASTM D3273 (Georgia-Pacific Gypsum LLC, 2020). Code Compliance Research Report CCRR-0377 (Intertek 21/12/2017).
C3 Fire affecting areas beyond the fire source C3.4 (a), C3.7 (a)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> Product is non-combustible. Manufactured to ASTM C1396, cited in NFPA 285-2019, cited in C/AS2 (Georgia-Pacific Gypsum LLC, 2020). Code Compliance Research Report CCRR-0377 (Intertek 21/12/2017).
E2 External moisture E2.3.2, E2.3.5	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> Complies as a rigid underlay and secondary rainscreen as manufactured to ASTM C1177 and C1396 which contain standard requirements for gypsum products, including as sheathing on external walls (Georgia-Pacific Gypsum LLC, 2020). Tested for mould growth resistance to ASTM D3273 and for humidified deflection to ASTM C 1396 (Georgia-Pacific Gypsum LLC, 2020). Code Compliance Research Report CCRR-0377 (Intertek 21/12/2017).
F2 Hazardous Building Materials F2.3.1	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> Manufactured to ASTM C117 and C1396 which contain standard requirements for gypsum products (Georgia-Pacific Gypsum LLC, 2020). Code Compliance Research Report CCRR-0377 (Intertek 21/12/2017).

1. The Compliance Statement is the pass holder's statement that they have met their obligations under s14G(2) of the Building Act 2004.

SOURCES OF INFORMATION

- Constructure Structural Engineering. [3/04/2019] *Design assessment of Georgia Pacific (GP) 'Densglass' Sheathing panels, 12.7 mm (1/2") thickness under wind loading only.* Ref 10204.
- Georgia-Pacific Gypsum LLC. [2020] *Georgia Pacific DensGlass Sheathing Technical Guide Sheathing.* Retrieved from <https://buildgp.com/wp-content/uploads/2018/11/DensGlass-Technical-Guide.pdf>. [Accessed on 31/03/2021].
- Hurricane Test Laboratory LLC. [2/11/2007] *HTL Test Report # G488-1001-07.*
- ICC Evaluation Service. [1/11/2003] *DensGlass Gold Sheathing: 1/2 inch (12.7 mm) thick Dens-Glass Gold Sheathing and 5/8 inch (15.9 mm) thick DensGlass Gold Fireguard® Type X Sheathing* Legacy Report NER-574.
- Timber Products Inspection. [12/01/1990] *Georgia Pacific Corporation Gypsum and Roofing Division ASTM E330-84 Negative Uniform Lateral Loading on 1/2" Dens-Glass® Gold And 5/8" Dens-Glass® Gold Firestop® Type X;* Timber Products Project No. 89-047.
- Intertek. [21/12/2017] *Code Compliance Research Report CCRR-0377.*



Scan or click this QR code for a full download of Compliance Documentation for this pass™.
www.MaxClad.co.nz



2. Sources of information also include the Building Act 2004 and its regulations, including the Building Code (Schedule 1 of the Building Regulations 1992), Acceptable Solutions and Verification Methods, and relevant cited standards.

NAME: John Gibbons
POSITION: Managing Director
DATE OF FIRST ISSUE:
DATE OF CURRENT ISSUE:

Signed on behalf of MaxClad: NZBN 9429041158999

By signing this pass™ the signatory confirms that, in respect of the subject of this pass™, the company has met their s14G obligations under the Building Act 2004.

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