



Product Technical Statement

DensGlass® Sheathing Panels

Version Details:

Version: V1 – 11225

Original Issue Date: 24 February 2025

Version Date: 11225

The Building Agency Limited,

L1, 14A Link Drive, Wairau Park, Auckland
P 09 415 2669, www.thebuildingagency.co.nz

Product Technical Statement

This Product Technical Statement has been produced with the understanding that the product will be utilised in accordance with the manufacturer's details in the application described below.

Description of Product: DensGlass® Sheathing gypsum panel functions as a high-performance rigid air barrier (RAB), offering a secondary layer of protection against water penetration into the building envelope. DensGlass® is a fiberglass mat-face gypsum panel which provides superb protection from the elements and is resistant to delamination and deterioration due to weather exposure, even during construction delays that last as long as 12 months after installation and adds performance and durability to a wide range of fire-rated and non-fired building assemblies.

Type and/or use of product: DensGlass® Sheathing can be installed as a substrate under brick, stone, siding, stucco, aluminium and exterior insulation and finishing systems (EIFS). DensGlass® Sheathing panels are deemed non-combustible and are moisture and mold Resistant. The panels can be installed vertically or horizontally over a structural frame.

General Dimensions: The 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 indent.

Supporting Information: When specifying or installing any of The Building Agency products, please ensure that you have all the current literature. If you're not sure or need more information, visit www.thebuildingagency.co.nz or email infor@buildingagency.co.nz

Documents: Specific applications, design guidelines, and installation instructions are detailed in the following technical literature.

- DensGlass® Sheathing Technical Guide
- DensGlass® Sheathing Environmental Product Declaration
- DensGlass® Sheathing BPIR – Building Products Information Requirements
- DensGlass® Sheathing PTS – Product Technical Statement V1-11225

Related documents

- NZS3604:2011 Timber framed buildings
- NASH Design Standard 2019 Parts 1 and 2

Scope of Use

- Suitable for wind zones up to and including extra high, as defined in NZS 3604:2011, or for wind design pressures (ULS) up to 2.1 kPa.
- Suitable for all exposure zones as defined in NZS 3604:2011. Fixing materials must be selected in accordance with Section 4 of NZS 3604:2011.
- On buildings located any proximity to a relevant boundary. Within 1 m of a relevant boundary, the external wall assembly must comply with the relevant fire provisions of the New Zealand Building Code.



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- Suitable for buildings where the structure complies with the NZ Building Code or where the designer and installer have confirmed the existing structure is suitable for the intended work.
- Suitable for installation on timber or lightweight steel framing. When installed over steel framing, a thermal break is required.
- As a rigid air barrier, it must be installed in accordance with E2/AS1 or a tested assembly requiring a rigid air barrier.

Basis of Compliance – New Zealand Building Code

When designed, installed, and maintained according to all of The Building Agency requirements, DensGlass® Sheathing Panels will comply with or contribute to compliance with the following performance claims:

B1 Structure B1.3.1, B1.3.2, B1.3.3 (a, h, j, m, q), B1.3.4

- 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).
- Exceeded ASTM C1396 standards for humidified deflections.

B2 Durability B2.3.1 (b)

- Manufactured in accordance with ASTM C1396, which sets 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)

- The product is non-combustible and manufactured to ASTM C1396. It is cited in NFPA 285-2019 and 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

- Complies as a rigid underlay and secondary rainscreen, manufactured to ASTM C1177 and ASTM C1396, which set standard requirements for gypsum products, including use as sheathing on external walls (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).

F2 Hazardous Building Materials F2.3.1

- Manufactured to ASTM C1177 and ASTM C1396, which set standard requirements for gypsum products (Georgia-Pacific Gypsum LLC, 2020).
- Code Compliance Research Report CCRR-0377 (Intertek 21/12/2017).



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Sources of Information:

- DensGlass® Sheathing Environmental Product Declaration according to ISO 14025 and ISO 21930 Declaration Number EPD10279.
- Georgia-Pacific Gypsum LLC. [2020] Georgia Pacific DensGlass® Sheathing Technical Guide Sheathing.
- 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 Legacy Report NER-574.

Updates and Current Information: The information in this document may change without notice. Visit our website at www.thebuildingagency.co.nz or buildgp.com for updates and current information.