

# DENSDECK® PRIME ROOF COVER BOARDS

## PURPOSE

DensDeck® Prime roof deck cover boards are supplied by MaxClad, for installation over a substrate to increase moisture management; impact resistance; fire resistance or acoustic performance of the roof assembly. The boards can be used with a wide variety of roofing systems, including direct membrane application.

## EXPLANATION

DensDeck® Prime cover boards, with EONIC™ Technology, have a gypsum core with pre-coated fibreglass mat facings and wrapped edges. The board is non-combustible and is mould and moisture-resistant. Manufacturing specifications include maximum 5 % total water absorption by weight.

The boards are 1219 mm wide and 2438 mm long and available in thicknesses of 6.4, 12.7 and 15.9 mm.



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## SCOPE AND LIMITATIONS OF USE

Scope	Limitations
<b>Location</b> 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. In all exposure zones as defined in NZS 3604:2011. In all seismic zones. Any distance to a relevant boundary.	> Fixing material selection to be in accordance with section 4, NZS 3604:2011.
<b>Building</b> 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. As part of a roofing system, installed over a plywood, OSB or metal tray structural substrate and under a waterproofing system. As part of a roofing system, installed over lightweight concrete and re-roofing over existing concrete deck. As part of a fire-rated and/or acoustic assembly.	> A vapor retarder or vapor retarder must be installed where installed over a metal tray. > A vapor retarder must be installed to limit the migration of water from the concrete. > The assembly must be in accordance with the Georgia Pacific DensDeck® Prime Roof Board Technical Guide – Roof Board [2020] or subject to specific design for fire or acoustic performance.



## USEFUL INFORMATION

For information on the design, installation, and maintenance of DensDeck® Prime Roof Cover Boards and for the warranty refer to [www.MaxClad.co.nz](http://www.MaxClad.co.nz).

## OTHER CERTIFICATIONS AND APPROVALS HELD BY NAME

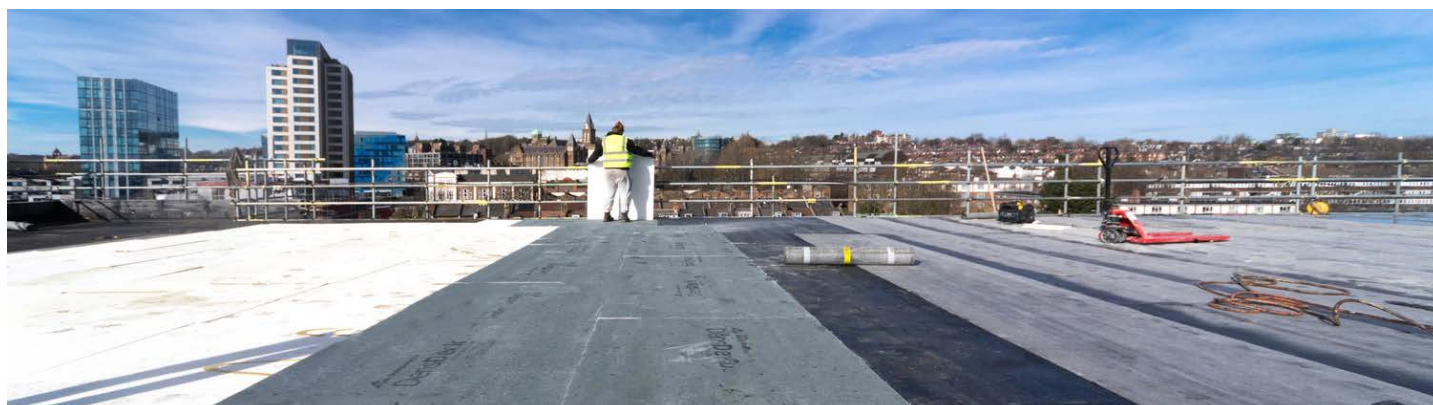
> FM Approvals [2007] for DensDeck® Prime 225, 285 and 315 PSF listings typical and non-combustible deck roof assemblies.

## PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all MaxClad requirements, the DensDeck® Prime roof board will comply with or contribute to compliance with the following performance claims:

NZ Building Code clauses	Compliance statement	BASIS OF COMPLIANCE <sup>1</sup> Demonstrated by
<b>B1 Structure</b> B1.3.1, B1.3.2, B1.3.3 (a, h, j, m, q), B1.3.4 (a, b, c, d, e)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>Tested to ASTM C473 and ASTM E661 for flexural strength and static and impact loads.</li> <li>Manufactured to ASTM C1177, which contains standard specifications for gypsum products (Georgia-Pacific Gypsum LLC, 2020).</li> </ul>
<b>B2 Durability</b> B2.3.1 (b)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>Manufactured in accordance with ASTM C1177, which contains standard requirements for gypsum products (Georgia-Pacific Gypsum LLC, 2020).</li> <li>Tested for mould growth resistance to ASTM D3273 (Georgia-Pacific Gypsum LLC, 2020).</li> <li>FM approval Uplift resistance (FM 4470 and ANSI/UL 1897 testing).</li> </ul>
<b>C3 Fire affecting areas beyond the fire source</b> C3.7 (a)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>FM approval Class 1 (tested to FM Calorimeter Standard 4450) (Georgia-Pacific Gypsum LLC, 2020).</li> </ul>
<b>F2 Hazardous Building Materials</b> F2.3.1	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>Manufactured to ASTM C1177, which contains standard requirements for gypsum products (Georgia-Pacific Gypsum LLC, 2020).</li> </ul>

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

- Georgia-Pacific Gypsum LLC. [2020] *DensDeck® Technical Guide Roof Board*. Retrieved from [https://buildgp.com/wp-content/uploads/2019/01/100120A\\_DensDeck-Technical-Guide\\_WEB.pdf](https://buildgp.com/wp-content/uploads/2019/01/100120A_DensDeck-Technical-Guide_WEB.pdf). [Accessed 31/03/2021].
- Georgia-Pacific Gypsum. [2015] *DensDeck® Code Approvals, Classifications and Standards*. Retrieved from [https://buildgp.com/wp-content/uploads/2019/01/DensDeck\\_Prime\\_Code\\_Approvals.pdf](https://buildgp.com/wp-content/uploads/2019/01/DensDeck_Prime_Code_Approvals.pdf). [Accessed 10/05/2021].

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.

Scan or click this QR code for a full download of Compliance Documentation for this pass™.  
[www.MaxClad.co.nz](http://www.MaxClad.co.nz)



**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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