

RODECA LBE MULTI-WALL PANELS

PURPOSE

Rodeca LBE Multi-wall panels (Rodeca LBE) are manufactured from translucent, lightweight polycarbonate (PC). The panels, with associated accessories, are supplied by Jacobsen for use as internal and external wall panels. They are supplied in a range of thickness profiles and colours, all uniquely coded.

EXPLANATION

Polycarbonate is a high-performing thermoplastic. It is lightweight, durable, possesses high optical clarity, and is heat and impact resistant.

Rodeca LBE Multi-wall panels are installed on-site to any size using a self-supporting aluminium wall kit. The kit can be assembled as a one-span system with additional intermediate transverse supports. Alternatively, the panels can be installed first following by the covering aluminium profiles. The covering profile can be thermally separated with an optional plastic insulating bar.

The Rodeca LBE Multi-wall panels are able to contribute to the thermal efficiency of the building to the extent limited by the design and selection of the panel thickness and the covering plastic insulation bar.

Panels are available in the following thicknesses (mm): 40, 50, 60.

Accessory items available for use with installation are:

- › PC connection profile (2600-04-7-U panel only)
- › Aluminium covering profiles
- › Aluminium lift anchors
- › Sealing profiles.

SCOPE AND LIMITATIONS OF USE

Scope	Limitations
Location In wind zones up to and including very high as defined in NZS 3604:2011 or to a wind design pressure (ULS) of 2.0 kPa. In all exposure zones as defined by NZS 3604:2011. On buildings any proximity to a relevant boundary.	<ul style="list-style-type: none"> › Where adverse microclimate conditions apply (see para. 4.2.4, NZS 3604:2011), consult with Jacobsen technical staff. › Within 1 m of the relevant boundary, the design must be subject to specific fire engineering.
Building In conjunction with a primary structure that complies with the NZ Building Code or where the designer or installer have satisfied themselves that the existing structure is suitable for the intended building work. As an internal lining. As an external cladding.	<ul style="list-style-type: none"> › Where material group 1-S or lesser performance is required. › Up to maximum wind design pressure (ULS) of 2.0 kPa. › Where the building height exceeds 10 m the design must be subject to specific fire engineering.



For further assistance please contact:

- ☎ 0800 800 460
- ✉ customer.service@jacobsens.co.nz
- 🌐 www.jacobsens.co.nz



CONDITIONS OF USE

Rodeca LBE Multi-wall panels must be installed using accessory products supplied by Jacobsen; substitution is not permitted.

USEFUL INFORMATION

For information on the design, installation and maintenance of Rodeca LBE Multi-wall panels and for our warranty refer to www.jacobsens.co.nz.

VERSION:

PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all Jacobsen requirements, Rodeca LBE Multi-wall panels will comply with or contribute to compliance with the following performance claims:

NZ Building Code clauses	BASIS OF COMPLIANCE ¹	
	Compliance statement	Demonstrated by
B1 Structure B1.3.1, B1.3.2 B1.3.3 (a, b, e, f, g, h, j, m & q) B1.3.4 (a, b, c, d, e)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> ➤ Manufactured to EN 16153:2013+A1:2015. DIBt. [29/07/2019]. ➤ DIN 18032 part 3. Baden Wurttemberg, Research and Materials testing institute. Report no. N563 [Sept 1983].
B2 Durability B2.3.1 (b), B2.3.2 (a)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> ➤ Manufactured to EN 16153:2013+A1:2015. DIBt. [29/07/2019], ➤ AS 2001.4.21:2006. NZWTA. Test report no. 11/572 [01/03/2012].
C3 Fire affecting areas beyond the fire source C3.4 (a)	ACCEPTABLE SOLUTION C/AS2 1 st edition, June 2019.	<ul style="list-style-type: none"> ➤ Achieves material group number 1-S. ➤ UNI EN 13501-1:2007. ISTITUTO GIORDANO Report no. 232142 [24/10/2007]. ➤ AS/NZS 3837:1998 AWTA Product Testing. Report no. 7-587883-CV [09/11/2012].
E2 External Moisture E2.3.2	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> ➤ AS/NZS 4284:2008. Ian Bennie & Associates. Report no.2010-061-S2 [July & Aug 2010].
F2 Hazardous Building Materials F2.3.1	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> ➤ Manufactured to EN 16153:2013+A1:2015. DIBt. [29/07/2019].
H1 Energy Efficiency H1.3.1 (a, b), H1.3.3 (c, f)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> ➤ Manufactured to EN 16153:2013+A1:2015. DIBt. [29/07/2019].

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

- AWTA Ltd. [09/11/2012] AS/NZS 3837:1998. *Method of Test for Heat and Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter*. Test no. 7-587883-CV.
- Bennie, I & Associates. [June 2011] AS/NZS 4284:2008. *Testing of building facades. Rodeca 2540-4 5 panel wall cladding prototype test*. Test report no. 2010-061-82.
- Istituto Giordano. [24/10/2007] UNI EN 13501-1:2007. *Fire classification of construction products and building elements. Classification of cellular polycarbonate panel*. Classification Report no. 232142.
- ift Rosenheim GmbH. [22/02/2019] DIN EN ISO 14025 EN15804. *Environmental Product Declaration. Translucent building elements*. Declaration Code EPD-RLE-33.0.
- DIBt. [29/07/2019] *European Technical Assessment. Rodeca LBE Self-supporting translucent roof and wall kits*. ETA-19/0452.
- Research and Material testing institute, Baden Wurttemberg. [12/09/1983] DIN 18032 part 3. *Testing of safety against ball throwing*.
- NZ Wool Testing Authority Ltd. [01/03/2012] AS 2001.4.21-2006. *Determination of colour fastness to light using an artificial light source*. Report no. 11/572.
- Comite Europeen de Normalisation. [April 2013] EN 16153:2013+A1:2015. *Light transmitting flat multiwall polycarbonate (PC) sheets for internal and external use in roofs, walls and ceilings. Requirements and test methods*.

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.jacobsens.co.nz/building-systems



VERSION:

DATE:

Note: Uncontrolled in printed format.

NAME:

Andrew French

POSITION:

National Sales Manager

Signed on behalf of Jacobsens:

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.



Jacobsen, 41 Morrin Road, Mt Wellington, Auckland 1072 > customer.service@jacobsens.co.nz > 0800 800 460 > www.jacobsens.co.nz

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