



IBS OS'Brace® RAP



IBS Product Specification

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1. GENERAL NOTES

1.1 OSB EXPLAINED

OSB (oriented strand board) is a moisture resistant, structural wood panel. Engineered in Germany from environmentally sustainable sourced softwood, it consists of three layers of wood strands bonded together with heat-cured adhesives. Each layer is orientated at right angles to the adjacent layer creating a strong, dimensionally stable panel that resists delamination and warping. The absence of natural imperfections such as knots provides certainty of performance.

1.2 GENERAL

IBS OS'Brace®RAP panels are distributed in NZ by IBS (Independent Building Supplies). Compliance with the relevant provisions of the NZ Building Code are established through **Product Certification (CodeMark)** and the **IBS OS'Brace® RAP pass™ (Product Assurance Supplier Statement)**.

This section relates to the supply and installation of IBS OS'Brace® RAP.



1.3 DOCUMENTS

The following documents are specifically referenced in this section:

- **CodeMark Certificate AQ-000115-CMNZ (Rev.5, Dec 2017)**
- AS/NZS1604.2 Specification for preservative treatment (Reconstituted wood-based products)
- NZS3604: 2011 Timber Framed Buildings
- AS/NZS 1170 (parts 2 & 5)
- NZS 3603:1993 timber structures standard

1.4 IBS DOCUMENTS

- IBS OS'Brace® RAP technical documentation

1.5 WARRANTY

The IBS warranty for IBS OS'Brace® RAP is available at www.ibs.co.nz

1.6 NO SUBSTITUTIONS

IBS OS'Brace® RAP may not be substituted with any alternative rigid air barrier or bracing panel.

1.7 QUALIFICATIONS

Preparation and installation of IBS OS'Brace® RAP shall be carried out by persons with the appropriate skills who have access to current IBS technical documentation.

Where Restricted Building Work (RBW) applies, the installer shall be a Licensed Building Practitioner (LBP) or supervised by a LBP.

2. PRODUCT

2.1 IBS OS'BRACE® RAP

IBS OS'Brace® RAP is supplied for use as a bracing element and/or rigid air barrier. As an OSB/3 panel, manufactured in accordance with EN13986:2004, it is suitable for use in humid conditions. It is supplied treated to hazard class H3.1.

IBS OS'Brace® RAP is supplied in the following panel sizes:

- 2440 mm x 1198 mm x 6 mm
- 2745 mm x 1198 mm x 6 mm
- 3050 mm x 1198 mm x 6 mm

2.2 ANCILLARY COMPONENTS

IBS OS'Brace® RAP system has been assessed with the following ancillary components:

- A self adhesive joint tape that is a minimum of 50mm wide. The tape must be compatible with IBS OS'Brace®RAP and the specification must support the product is fit for purpose.
- IBS OS'Brace® RAP is used as a RAP (structural or non-structural) to be fixed with the appropriate screws or gun and hand driven nails and staples. (refer IBS Design & Installation Guide).
- Able to be used in conjunction with GIB-HandiBrac®, Simpson Strong-Tie, MiTek® angle brackets and standard metal 25 mm x 1.0 mm fixings as specified in Sec 8, NZS3604: 2011.

3. DESIGN CONSIDERATIONS

3.1 GRANTING OF BUILDING CONSENT

IBS have available the following in support of building consent:

- **IBS OS'Brace® RAP Design & Installation Guide**
- **IBS Warranty**
- **IBS OS'Brace® RAP CodeMark Certificate of Conformity (AQ-000115-CMNZ (Rev.5, Dec 2017))**

3.2 DESIGNER CONSIDERATIONS

When specifying IBS OS'Brace®RAP the designer must consider the specific project including:

Site:

- The structural design loads
- Durability requirements of all fastenings
- Wind zone / climate zone

The building work:

- Structural timber framing requirements
- Preparation of substrate
- Ventilated and drainage cavities
- Other materials likely to affect the products performance
- Wall bracing table for wind and EQ demand





4. EXECUTION

4.1 INSTALLING PRODUCTS AND MATERIALS

All construction and installation of the IBS OS'Brace® RAP shall be in accordance with the IBS OS'Brace® RAP Design & Installation Guide. Installers are to be familiar with the required structural framing requirements and IBS OS'Brace® RAP specified preparation, fixing and finish techniques.

4.2 TOLERANCES

All tolerances including site equilibrium moisture content (EMC), specified clearances, penetration locations as detailed in IBS OS'Brace® RAP Design & Installation Guide must be observed.

It is the responsibility of the IBS OS'Brace® RAP installer to ensure that the structural timber framing has been constructed in accordance with the consented plans and/or NZS3604: 2011 (Clause 2.1 & 2.2). Tolerances and the timber moisture content does not exceed 18% moisture content prior to installation.

Refer to LVL specific design details systems #6a, 6b, 7a and 7b in the IBS OS'Brace® RAP Design & Installation Guide.

Note: Maximum exposure to weather not to exceed three months.

4.3 QUALITY ASSURANCE

Carry out and record regular checks of material quality and accuracy. Where any material, quality or dimension falls outside the specified or required tolerances obtain written direction from the designer and IBS. Where building consent approval is affected, confirm remedial action with the Building Consent Authority.

SUPPORTING DOCUMENTS

For compliance information of IBS OS'Brace® RAP refer to:

- **IBS pass™**
(Product Assurance Supplier Statement)

Information to help with the design and specification of IBS OS'Brace® RAP refer to:

- **IBS Product Specification**
- **IBS Design & Installation Guide**
- **IBS CAD drawings**

Information to help with the installation of IBS OS'Brace® RAP refer to:

- **IBS Design & Installation Guide**

For the DIYer refer to:

- **IBS Home Builder Info Sheet**

Information to help with the maintenance of IBS OS'Brace® RAP refer to:

- **IBS Maintenance**

Our warranty for IBS OS'Brace® RAP refer to:

- **IBS Warranty**



ABOUT IBS

Independent Building Supplies (IBS) has been distributing panel products around New Zealand since 1993. Our focus is on sourcing the best panel products available from around the world from sustainable renewable resources. IBS products are supported by full technical literature and support providing our customers with the **Best Products**, the **Best Service**, and the **Best Experience**.



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