Installation & Handling Guide for F8 Structural Plywood.

Pre-Installation Inspection.

Examine the plywood for any visible defects such as warping, cracks, or delamination. Ensure the surface is smooth and free of significant knots or holes. Panel surfaces should be free from dirt and loose wood fibres.

Storage & Handling.

bbi plywood should be handled and stored with care. In order for you to get the finish and end result that you are looking for:
The product should be stored until used in a dry area protected from the sun, rain, wind or snow. The product should not be placed directly on the ground and should be supported with at least three but preferably four supports.

bbi plywood should always be stored flat and not on the edge. If possible, store in the room for at least 24 hours prior to installation when using bbi plywood inside, this will give it time to reach equilibrium moisture content and reduce the potential for movement after installation.

For further information about storage and handling recommendations, please refer to standard AS/NZS 2269. Additionally, a Material Safety Data Sheet is available on our website www.bbi.net.nz.

Wall Framing.

Wall framing must comply with the New Zealand building code requirements. Nogs are not required to achieve the bracing unit loadings.

Fixings & Adhesives.

For Bracing Rated Plywood:
50 x 2.8 flat head galvanised nails at 150mm centres around the perimeter of the sheet with fixings at 300 centres on the internal stud.

Installation.



Timber

90 x 45 H3.1 Timber Frame

Plywood

To achieve a bracing rating, sheets must be fixed with 50 x 2.8 Galvanized nails at 150mm centers around the perimeter, and 300mm centers on the internal stud.

Frame Connections.

GIB Handibrac® with M12 hold-down bolts to achieve bracing ratings. Except 7mm & 9mm F8 200mm wall which uses 1 M12 hold down bolt with 50 x 50 x 3 square washer centered in the frame.

Installation Requirements.

bbi® F8 Structural Plywood can be installed prior to the building being fully enclosed if H3.2 treated. The building must be fully enclosed within 60 days of installation.

Mould on Plywood Disclaimer.

Moulds and algae can develop on both treated and untreated plywood products. This growth is influenced by environmental factors such as temperature, humidity, moisture, and the presence of airborne mould spores.

Mould growth often appears as unsightly black or green patches, spreading quickly under favorable conditions, such as warm and humid weather. While moulds affect the surface, they do not penetrate the structure of the plywood. However, decay fungi are capable of penetrating and growing within the wood.

Moulds can develop on untreated plywood, as well as on treated plywood such as H3.1 LOSP and H3.2. If the plywood becomes damp, whether in storage or in the field, and environmental conditions are ideal, mould growth may occur. Plywood exposed to the elements can also develop mould in wet and warm conditions.

PREVENTION AND TERMINATION:
To prevent mould growth, it's essential to control the moisture content. Mould growth ceases when the plywood's moisture content falls below approximately 18%. For plywood flooring, allowing it to dry out will halt mould development, though some discolouration may remain. Brush off any visible mould, and similarly, surface algae will disappear when dried.

RECOMMENDED ACTION:
If mould appears on treated plywood, no specific action is needed during the building process. However, it is advisable to cut out bottom plates near doors and windows early and ensure proper drainage for floors exposed to wet weather. Swiftly closing in the structure is also important to prevent prolonged exposure. Should the plywood remain exposed for an extended period due to construction delays, further investigation may be necessary. Depending on local conditions, an extended exposure may necessitate specialist assessments to check for decay fungi.

REMEDIATION OPTIONS:
While mould does not affect the structural integrity of plywood, cleaning products such as '30 Seconds Outdoor Cleaner' can restore the appearance of the surface.

Prevention of Fire Occurring.

Separation or protection must be provided to bbi® F8 Structural plywood from heat sources such as stoves, heaters, flues and chimneys. Part 7 of NZBC Acceptable Solutions C/AS1 to C/AS6 and NZBC Verification Method C/VM1 provide methods for separation and protection of combustible materials from heat sources.

bbi wood products