



Class 2

McNaughton NZS 4211 Compliant Timber Joinery

Building Product Information Sheet | Version V1, 26.03.2024

Product name	McNaughton NZS 4211 Compliant Timber Joinery
Product line	McNaughton NZS 4211 Compliant Timber Joinery Series

Product Description

McNaughton NZS 4211 Compliant Timber Joinery comprises of a fully assembled timber window and door joinery units. McNaughton NZS 4211 Compliant Timber Joinery has been designed for, but not limited to, use in timber-framed housing and residential apartments up to three storeys in height, and commercial buildings. McNaughton NZS 4211 Compliant Timber Joinery is custom manufactured to the requirements of each project. Units are glazed with insulated glass units (IGUs) and may include fixed or opening sashes and door panels. Opening sash options include awning, casement, double hung, sliding and bifold styles. Door systems include hinged, bifold and sliding.

Contact details

Manufacture location	Aotearoa New Zealand
Legal and trading name of manufacturer	MJN McNaughton Ltd, trading as McNaughton Windows & Doors
Manufacturer address of service	42 Frost Rd, Mt Roskill, Auckland 1041, New Zealand
Manufacturer website	www.mcnaughton.co.nz
Manufacturer NZBN	9429040739090
Manufacturer email	sales@mcnaughton.co.nz
Manufacturer phone number	+64 9 620 9059

Relevant building code clauses

B1 Structure - B1.3.1, B1.3.2, B1.3.3 (a, b, h, j), B1.3.4
 B2 Durability - B2.3.1 (b, c)
 E2 External moisture - E2.3.7
 F2 Hazardous building materials - F2.3.1
 G4 Ventilation - G4.3.1
 G7 Natural light - G7.3.1, G7.3.2
 H1 Energy efficiency - H1.3.1 (a, b), H1.3.2E

Contributions to compliance

B1.3.1, B1.3.2, B1.3.3 (a, b, h, j), B1.3.4: McNaughton NZS 4211 Compliant Timber Joinery has been tested in accordance with NZS 4211:2008 and is manufactured to the structural requirements of the Wind Zone specified in the project requirements. McNaughton NZS 4211 Compliant Timber joinery is glazed to comply with NZS 4223:2016 where specified in the project requirements because human impact may occur. Refer to Test Reports are available on request.

B2.3.1 (b), B2.3.1 (c): Performance B2.3.1 (b) for 15 years and B2.3.1 (c) for 5 years. Durability is dependent on McNaughton NZS 4211 Compliant Timber Joinery being installed and maintained in accordance with MJN McNaughton Ltd requirements. IGUs comply with the requirements of NZS 4223.3:2016. Test Reports are available on request.

E2.3.7: McNaughton NZS 4211 Compliant Timber Joinery has been tested in accordance with NZS 4211:2008 and is manufactured to the water penetration requirements of the Wind Zone specified in the project requirements. McNaughton NZS 4211 Compliant Timber Joinery is suitable for installation in accordance with Acceptable Solution E2/AS1, Third Edition Amendment 10. Installation details provided by other parties such as architects and cladding system suppliers may also be suitable.

F2.3.1: McNaughton NZS 4211 Compliant Timber Joinery is safe when handled in accordance with installation instructions. McNaughton NZS 4211 Compliant Timber joinery is glazed to comply with NZS 4223:2016 where specified in the project requirements because human impact may occur.

G4.3.1: McNaughton NZS 4211 Compliant Timber joinery is manufactured with opening sashes of type and dimensions specified in the project requirements to help provide building ventilation. Ventilation design may comply with G4/AS1 Fourth Edition, Paragraph 1.2 Natural ventilation, or an alternative ventilation system design which utilises opening window sashes and is provided by other parties such as mechanical services engineers could be suitable.

G7.3.1, G7.3.2: McNaughton NZS 4211 Compliant Timber joinery can be manufactured with the area and Visible Light Transmittance (VLT) of glazing specified by the project requirements to help provide natural light and awareness of the outside. Glazing design may comply with G7/AS1 Second Edition or G7/AS2 first Edition, or an alternative glazing design provided by other parties such as lighting engineers could be suitable.

H1.3.1 (a, b), H1.3.2E: McNaughton NZS 4211 Compliant Timber joinery can be manufactured with IGUs made from a range of possible glass, spacer, and infill gas types, to suit the window insulation (R-value) requirements of the project. Depending on the window or door type, dimensions and IGU type, R-values between R0.44 and R0.85 can be provided, determined in accordance with either McNaughton BRANZ approved H1 Thermal Calculator, H1/AS1 Fifth Edition Amendment 1, Table E1.1.1, or with H1/VM1 Fifth Edition Amendment 1, Paragraph E1.

Relevant standards

McNaughton NZS 4211 Compliant Timber joinery, and/ or its component parts, are tested, manufactured, and specified to comply with the following standards, as relevant to the project specifications:

- NZS 4211:2008 Specification for the performance compliance
- AS 2047: 1999 Windows in building – Selection and installation
- NZS 4223.3:2016 Glazing in buildings - Part 3: Human impact safety requirements.

Limitations of use

McNaughton NZS 4211 Compliant Timber joinery is not fire resisting and cannot provide a fire resistance rating.

McNaughton NZS 4211 Compliant Timber joinery is not suitable for use where recommended maintenance cannot be reasonably achieved, including use in buildings taller than three stories or 10m in height.

Scope of use

McNaughton NZS 4211 Compliant Timber joinery is designed for, but is not limited to, use in projects within the following scope:

- Housing and residential apartment buildings, and their associated ancillary and outbuildings.
- Building height up to three storeys or 10 m.
- Timber framed construction.
- All Wind Zones up to and including Extra High.
- Limitations on the configuration, maximum dimensions, and weights of individual panels also apply, and are dependent on the panel type. Overall door or window size up to (h x w):
 - Awning Window frame 1700mm x 1260mm (per sash),
 - Casement Window frame 2100mm x 1250mm (per sash),
 - Double Hung Window frame 2400mm x 4200mm,
 - Bifold Window frame 1700mm x 7600mm,
 - Sliding Window frame 1700mm x 6400mm,
 - French Doors frame 2700mm x 2460mm,
 - Sliding Door frame 2700mm x 8000mm,
 - Bifold Door frame 2800mm x 7600mm.
- Maximum IGU thickness is 32 mm.
- Design and installation that follows common Acceptable Solutions such as E2/AS1, G4/AS1, G7/AS1 and H1/AS1.
- Exterior Timber Frames: H3.2 Micropro Treated Pine or other durable timbers as specified in consultation with McNaughton Windows & Doors.
- Exterior Timber Sashes/ Door Panels: Western Red or Alaskan Yellow Cedar, or other durable timbers as specified in consultation with McNaughton Windows & Doors.

McNaughton NZS 4211 Compliant Timber joinery may be used in projects outside this scope if other parties such as architects or cladding system suppliers establish appropriate design and installation requirements.

McNaughton NZS 4211 Compliant Timber joinery is custom manufactured to the requirements of each project. Prior to manufacture, the following project selections must be confirmed by the specifier:

- Unit size.
- Opening panel size(s) and type(s), and configuration of fixed and opening panels, including any specific requirements for doors that are on access routes or escape routes.
- Project Wind Zone.
- IGU performance selections, including R-value, solar heat gain (SHGC), VLT, and safety glazing requirements.
- Safety fittings and hardware: restrictors, door closers and swimming pool barrier latches to be fitted where an opening window or door requires features for safety from falling or is within a wall that forms part of a residential pool barrier.
- Finish requirements. Default specification is pre-primed H3.2 Micropro Treated Pine frames and sill with Alaskan Yellow Cedar sashes/door panels, suitable for paint finish.



Conditions of use

McNaughton Windows & Doors to confirm CAD drawings with Architect and/or Builder prior to manufacture of McNaughton NZS 4211 Compliant Timber Joinery.

McNaughton NZS 4211 Compliant Timber Joinery must be tagged or PS3 provided by MJN McNaughton Ltd to confirm the above conditions have been met.

Installation requirements

Installation work must be carried out by qualified, experienced, competent installers familiar with the products being used and correct installation in accordance with McNaughton installation details. Installation to NZS 4211 & E2 requirements. McNaughton warranty could be voided if installation details are changed without approval.

Tolerances – Doors and Sashes:

- Hang to within ± 6 mm of vertical for every rise of 2.4m
- Remain flat to within ± 4 mm per metre vertically and ± 2 mm per metre horizontally
- Faces of double-hinged doors to remain within ± 5 mm of the same plane when closed.

Joinery should be stored safely away from the elements and at similar atmospheric conditions of the ultimate installed environment. Excessive differentials and internal heating may lead to voiding of McNaughton warranty.

Handle, unload and store elements without distortion and avoiding pre-finished surfaces rubbing together, and contact with mud, moisture and other damaging materials.

Doors must be carried on edge and stored in an upright level position to avoid any bending prior to installation.

Store Joinery flat and away from moisture or direct sunlight.

Maintenance requirements

Tracks, rollers and fittings should be protected from dust and dirt, cleaned and used regularly once installed, to ensure smooth operation. Stainless Steel hinges require regular cleaning. 30 Seconds water spot remover is recommended as per product guidelines.

McNaughton NZS 4211 Compliant Timber Joinery must be inspected, cleaned and refreshed annually at a minimum. Refer www.mcnaughton.co.nz for up-to-date full warranty and product care document.

Warnings and bans

Is the building product/ building product line subject to warning or ban under section 26 of the Building Act 2004?

No