

Position and fix all necessary members for the fixing of all services, fittings, fixtures, edges of linings or claddings, and to provide lateral support to load carrying framing.

3.15 FORM NAILED JOINTS

Fully drive nails in all structural joints with the number and location for each particular joint, to the requirements of the nailing schedules of [NZS 3604](#). Where splitting could occur, pre-drill to 80% of nail diameter.

3.16 FORM BOLTED JOINTS

Drill for and set bolts to ensure full bearing and development of the joint strength, with tension to just set the washers into timber or to engineering specific design.

3.17 FIT CONNECTORS AND FIXINGS

Fit connectors and fixings to obtain full bearing over all contact surfaces and full development of the required loading capacity for that particular joint and in accordance with the manufacturer's requirements or to engineering specific design.

3.18 FIT JAMB BATTENS

For walls with direct fix cladding, fit 20mm (nominal) jamb battens over the wall underlay, to the jambs of window and door rough openings, to [NZBC E2/AS1](#), fig 72A. Cut around sill flashings. Fix with 60 x 2.8 flat head galvanized nails at 300mm centres.

3.19 FIT BRACING

Fit and fix subfloor, wall and roof bracing elements to the requirements of the manufacturer or to [NZS 3604](#), to develop the full number of bracing units required.

3.20 DPC TO LOSP TREATED TIMBER

Refer to 4161 UNDERLAYS, FOIL AND DPC section

3.21 DPC TO TIMBER

Refer to 4161 UNDERLAYS, FOIL AND DPC section

Completion

3.22 CLEAN UP

Clean up timber framing as the work proceeds so no offcuts, chips, sawdust or any other matter or items remain behind the claddings or linings.

3.23 LEAVE

Leave work to the standard required by following procedures.

3.24 REMOVE

Remove debris, unused materials and elements from the site.

4 SELECTIONS

4.1 SUB-FLOOR FRAMING - RADIATA PINE

Member	Species	Grade	Treatment
Bearers:	Radiata pine	SG8	H3.2
Ground floor joists:	Radiata pine	SG8	H3.2

4.2 SUB-FLOOR FRAMING - DOUGLAS FIR

Member	Species	Grade	Treatment
Bearers:	Douglas fir	Structural	H3.2
Ground floor joists:	Douglas fir	Structural	H3.2

4.3 FLOOR FRAMING - RADIATA PINE

Member	Species	Grade	Treatment
Mid floor joists:	Radiata pine	SG8	H3.2
Boundary joists:	Radiata pine	SG8	H3.2

4.4 FLOOR FRAMING - DOUGLAS FIR

Member	Species	Grade	Treatment
Mid floor joists:	Douglas fir	Structural	H3.2
Boundary joists:	Douglas fir	Structural	H3.2

4.5 EXTERIOR WALL FRAMING - RADIATA PINE

Member	Species	Grade	Treatment
Exterior walls:	Radiata pine	SG8	H1.2 enclosed H3.2 exposed
Parapets:	Radiata pine	SG8	H3.2
Enclosed decks and balconies:	Radiata pine	SG8	H1.2
Cantilevered joists enclosed decks and balconies:	Radiata pine	SG8	H3.2
Wall battens (not cavity):	Radiata pine	Merch	H3.1 minimum
Jamb battens	Radiata pine	Merch	H3.1 minimum

4.6 EXTERIOR WALL FRAMING - DOUGLAS FIR

Member	Species	Grade	Treatment
Exterior walls:	Douglas fir	SG8	H1.2 enclosed H3.2 exposed
Parapets:	Douglas fir	SG8	H3.2
Enclosed decks and balconies:	Douglas fir	SG8	H1.2
Cantilevered joists enclosed decks and balconies:	Douglas fir	SG8	H3.2
Wall battens (not cavity):	Douglas fir	Merch	H3.1 minimum
Jamb battens	Douglas fir	Merch	H3.1 minimum

4.7 ROOF FRAMING - RADIATA PINE

Member	Species	Grade	Treatment
Rafters:	Radiata pine	SG10	H1.2
Trusses:	Radiata pine	SG10	H1.2
Purlins:	Radiata pine	SG8	H1.2
Valley boards:	Radiata pine	Merch	H1.2
Sarking:	Radiata pine	Merch	H1.2
Skillion roof framing:	Radiata pine	SG10	H1.2
Enclosed flat roof framing:	Radiata pine	SG10	H1.2

4.8 ROOF FRAMING - DOUGLAS FIR

Member	Species	Grade	Treatment
Rafters:	Douglas fir	SG10	H1.2
Trusses:	Douglas fir	SG10	H1.2
Purlins:	Douglas fir	SG8	H1.2
Valley boards:	Douglas fir	Merch	H1.2
Sarking:	Douglas fir	Merch	H1.2
Skillion roof framing:	Douglas fir	SG10	H1.2
Enclosed flat roof framing:	Douglas fir	SG10	H1.2

4.9 INTERIOR WALL FRAMING - RADIATA PINE

Member	Species	Grade	Treatment
Non structural walls:	Radiata pine	SG8	H1.2
Structural and braced walls:	Radiata pine	SG8	H1.2

4.10 INTERIOR WALL FRAMING - DOUGLAS FIR

Member	Species	Grade	Treatment
Non structural walls:	Douglas fir	SG8	H1.2
Structural and braced walls:	Douglas fir	SG8	H1.2

4.11 CEILING FRAMING - RADIATA PINE

Member	Species	Grade	Treatment
Ceiling joists:	Radiata pine	SG8	H1.2
Timber ceiling battens:	Radiata pine	SG8	H1.2
Proprietary ceiling battens:	Laserframe®	Type 8	H1.2

4.12 CEILING FRAMING - DOUGLAS FIR

Member	Species	Grade	Treatment
Ceiling joists:	Douglas fir	SG8	H1.2
Timber ceiling battens:	Douglas fir	SG8	H1.2
Proprietary ceiling battens:	CCH Laserframe®	SG8	H1.2

4.13 EXTERIOR EXPOSED TIMBER

Member	Species	Grade	Treatment
Posts:	Radiata pine	SG8	H3.2 CCA
Joists:	Radiata pine	SG8	H3.2 CCA
Exterior stairs and steps:	Radiata pine	SG8	H3.2 CCA
Pergola:	Radiata pine	SG8	H3.2 CCA
Ground contact members	Radiata pine	SG8	H5 CCA

Note: All CCA preservative code 01 or 02

4.14 SPECIAL FRAMING ELEMENTS

Member	Species	Grade	Treatment
N/A	N/A	N/A	N/A

4.15 DPC

Refer to 4161 UNDERLAYS, FOIL AND DPC section

4.16 NAILS

Location	Type	Material	Finish
Throughout		316 Stainless Steel	

4.17 BOLTS AND SCREWS

Location	Type	Material	Finish
Throughout		316 Stainless Steel	

4.18 NAIL PLATES

Location	Type	Material	Finish
Throughout		316 Stainless Steel	

4.19 CONNECTORS

Location	Type	Material	Finish
Throughout		316 Stainless Steel	