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01. GENERAL

01.01 SCOPE

Provide materials and labour, equipment and services and perform operations necessary to complete the carpentry as indicated and specified. Include nailers, blocking, furring, grounds, hardware, framing, shoring, bracing, scaffolding and barriers required by the drawings and construction.

01.02 RELATED WORK

Cooperate and coordinate with the following trades:

- Concrete
- Termite management
- Structural steel
- Services trades
- Windows
- Doors and door frames
- Roof trusses
- Lining
- Cladding
- Masonry
- Insulation

01.03 REFERENCES

Comply with applicable portions of the following Australian Standards:

CODE	REFERENCE
AS 1428.1	Design for access and mobility – General requirements for access - New building work.
AS 1684	Residential timber-framed construction. <i>There are many parts and Supplements, 1999 - 2010.</i>
1684.2 2010	Non-cyclonic areas. <i>Numerous supplements, 2 Amdts 2012 and 2013.</i>
1684.3 2010	Cyclonic areas. <i>Numerous supplements, Amdt 2012.</i>
1684.4 2010	Simplified - Non-cyclonic areas. <i>Special reprint with Amdt 1 2012 included.</i>
AS 1720	Timber structures.
1720.1 2010	Design methods. <i>Plus 3 Amdts, 2010 - 2015.</i>
1720.2 2006	Timber properties. <i>Plus 1 Amdt, 2006.</i>
1720.4 2006	Fire-resistance for structural adequacy of timber members.
1720.5 2015	Nailplated timber roof trusses.
AS/NZS 1859	Reconstituted wood-based panels - Specifications
1859.1 2004	Particleboard. <i>Plus 2 Amdts, 2006 - 2011.</i>
1859.2 2004	Dry processed fibreboard. <i>Plus 2 Amdts, 2006.</i>
1859.3 2005	Decorative overlaid wood panels. <i>Plus 1 Amdt, 2009. There is 1 other part, 2004.</i>

AS 1860.2 2006	Particleboard flooring – Installation. <i>Plus 1 Amdt, 2010.</i>
AS/NZS 2904 1995	Damp-proof courses and flashings. <i>2 Amdts, 1998, 2013</i>
AS 3959 2009	Construction of buildings in bushfire-prone areas. <i>Plus 3 Amdts, 2009 - 2011.</i>
AS 4055 2012	Wind loads for housing. <i>1 Amdt 2015</i>
AS 4226 2008	Guidelines for safe housing design.
AS/NZS 4364 2010	Timber – Bond performance of structural adhesives.
AS 4786.2 2005	Timber flooring - Sanding and finishing.
HB 44 1993	Guide to AS 1684 1992, The National Timber Framing Code.

Further advice and changes in specifications of timber are needed frequently. For latest information visit www.timber.net.au

01.04 SUBMISSIONS

Where timber is used in external locations ensure that correct timber species are used and confirm at the submissions stage of the works.

Submit the following prior to ordering materials:

Product literature on hardware items proposed.

01.05 DELIVERY, HANDLING AND STORAGE

Deliver, handle and store products so that damage, deterioration and loss will be prevented. Control delivery schedules to minimise long-term storage at site.

Store timber on site indoors, or above ground and cover with secure impervious material.

02. MATERIALS

02.01 TIMBER AND RELATED ITEMS TABLE

CODE	ITEM	SIZE	TREATMENT	FINISH
	Wall framing generally: Top/bottom plates Studs Nogging	Refer to structural engineers drawings – which take precedence over those stated below 90x45 MGP10/12 90x45 MGP10/12 at 450 cts. 90x45 MGP10/12 at 1200 cts. 140x35 MPG10/12 AT 450 cts	H2 H2 H2 H2	- - -
	Staggered stud walls: Top/bottom plates Studs Nogging battens	90x45 MGP10/12 70x45 MGP10/12 at 600 cts. Nil 50x38 MGP10/12	H2 H2 - H2	- - -
	Bracing	Refer engineering drawings	H2 (timber) Galvanised (Steel)	-
SF (timber)	Lintels/beams/post/rafters	LVL'S CLT Refer engineering drawings - Vistek		Intergrain Ultraclear
SF (steel)	External beams only	Refer engineering drawings – Belvoir Consulting Engineers		Clear satin finish
TWC 1	Timber linings - internal	Supawood – supaline veneer Tasmanian Oak		Clear satin finish
TWC 2	Timber cladding - internal	Supawood – supaline veneer - mdf black panel routed for feature signage – PC sum for signage Tasmanian Oak ¼ cut		Clear satin finish
TIM	Hard wood flooring Platform	Tongue and groove flooring 80x19 Secrete nailed Tasmanian Oak, with timber riser and nosing 50x19		Refer to paint finishes
Timber reveals	Timber reveals doors – refer to drawings	Refer to drawings for details 133x25 KDHW and 130x35 LVL		Clear satin finish
Timber pelmet	Timber pelmet to sliding doors and services refer to drawings	LVL – 35 x300		Clear satin finish
Auditorium (TIM1 TRIMS)	Terraced seating and stairs– refer to drawings	20mm particleboard base with applied Marmoluem finish Nosing –42x12m with double bevelled edge mitred at junctions Tasmanian Oak		Clear satin finish to nosing
TIM 1 Trims	Trims to Pin and upholstery	12 x 42 KDHW trim to exposed edges of upholstery and pinboard		Clear satin finish

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02.02 FASTENING TABLE

ITEM	DETAILS	MATERIAL/FINISH
Bolts	Refer AS 1684 for requirements	Galvanized steel
Metal Connectors		Internal: Gold passivated steel External or treated timber: Galvanized steel.
Nails		
Screws		
Nailing Strips		Galvanized steel
Holding-down	Co-ordinate with truss and/or structural steel fabricator	Galvanized steel
Other	Refer structural engineering drawings	Galvanized steel unless directed otherwise
Expressed fixings	pelmet	Counter sunk stainless steel bungle screw 14g x 65mm -evenly spaced

02.03 INSULATION MATERIALS

Refer INSULATION Section and INSULATION AND GLAZING Schedule.

02.04 MASS STRUCTURAL TIMBER

02.05 DURING TENDERING

The supplier to provide samples for approval as part of their submission
Provide finished samples of the proposed lamination method (i.e glue and screw etc.)
Provide certification of the chain of custody (i.e PEFC or FSC timber).

02.06 FINISHES

Refer to PAINTING trade section for finishes – factory applied to protect timber from weather initially and re painted as required

Architectural Appearance Classification

An appearance classification normally suitable for applications where appearance is an important, but not overriding consideration. Specific characteristics of this classification are as follows:

In exposed surfaces, all knot holes and voids measuring over 19 mm are filled with a wood-tone filler or clear wood inserts selected for similarity with the grain and colour of the adjacent wood

The face layers exposed to view are free of loose knots and open knot holes are filled. Knot holes do not exceed 19 mm when measured in the direction of the lamination length with the exception that a void may be longer than 19 mm if its area is not greater than 320 mm Voids greater than 2.0 mm wide created by edge joints appearing on the face layers exposed to view are filled.

Exposed surfaces are surfaced smooth with no misses permitted.

Industrial Appearance Classification

An appearance classification normally suitable for use in concealed applications where appearance is not of primary concern. Specific characteristics of this grade are as follows:

Voids appearing on the edges of laminations need not be filled.

Loose knots and knot holes appearing on the face layers exposed to view are not filled. Members are surfaced on face layers only and the appearance requirements apply only to these layers.

Occasional misses, low laminations or wane (limited to the lumber grade) are permitted on the surface layers and are not limited in length.

02.07 SITE MANAGEMENT & SITE STORAGE

All reasonable measures are to be taken to ensure that the timber is not exposed to elevated levels of moisture for prolonged periods of time

Refer to the timber manufacturers specification for appropriate materials handling.

Submission of a management plan to be issued to the architect for approval prior to accepting delivery

- The minimum, shall be adopted:
- Timber to come to site wrapped in a protective, breathable membrane (this can be done individually or in packs)
- Stored elevated off the ground, separate layers with dunnage and loosely wrap in a continuous breathable tarp, open at the underside
- Avoid leaving wrapped in plastic for an extended period of time
- End grain sealer to be pre-applied to all end grain and to all openings and drillings and cuts
- Any damage, not limited to sun damage or water damage, rust marks, scuffs and scratches are to be made good
- Lifting shall be by soft slings only

03. EXECUTION

03.01 EXAMINATION

Visit site and inspect conditions, comparing conditions to drawings before delivery of materials to site. Start of work means total acceptance of conditions.

03.02 INSTALLATION GENERAL

Comply with: AS 1684 Residential timber-framed construction, and other relevant Standards.

03.03 INSTALLATION PARTICULARS

Perform operations including grooving, rebating, framing, housing, beading, mitring, scribing, nailing, screwing and gluing as necessary to carry out the works. Use timber in single lengths whenever possible. If joints are necessary, make them over supports unless otherwise shown or specified.

Arris visible edges in sawn work and in dressed work arris with sandpaper to 1.5mm radius unless otherwise shown or specified.

Back plough boards liable to warping (for example, if exposed on one face). Make the width, depth number and distribution of ploughs appropriate to the dimensions of the board and the degree of its exposure.

Provide necessary templates, linings, blocks, stops, ironwork and hardware, screws, bolts, plugs and fixings generally.

Trim framing where necessary for openings, including those required by other trades. Unless otherwise noted, construct framing so that floors are horizontal, i.e. no more than 3mm slope in 3000mm.

Construct wall framing vertical, so that no more than 3mm out of vertical in 3000mm of wall height.

03.04 COMPLETION

Complete contracted work in accordance with contract documents and written variation orders issued by the Architect.