pryda

PRODUCT DATA SHEET

LINTEL FIXING SCHEDULE

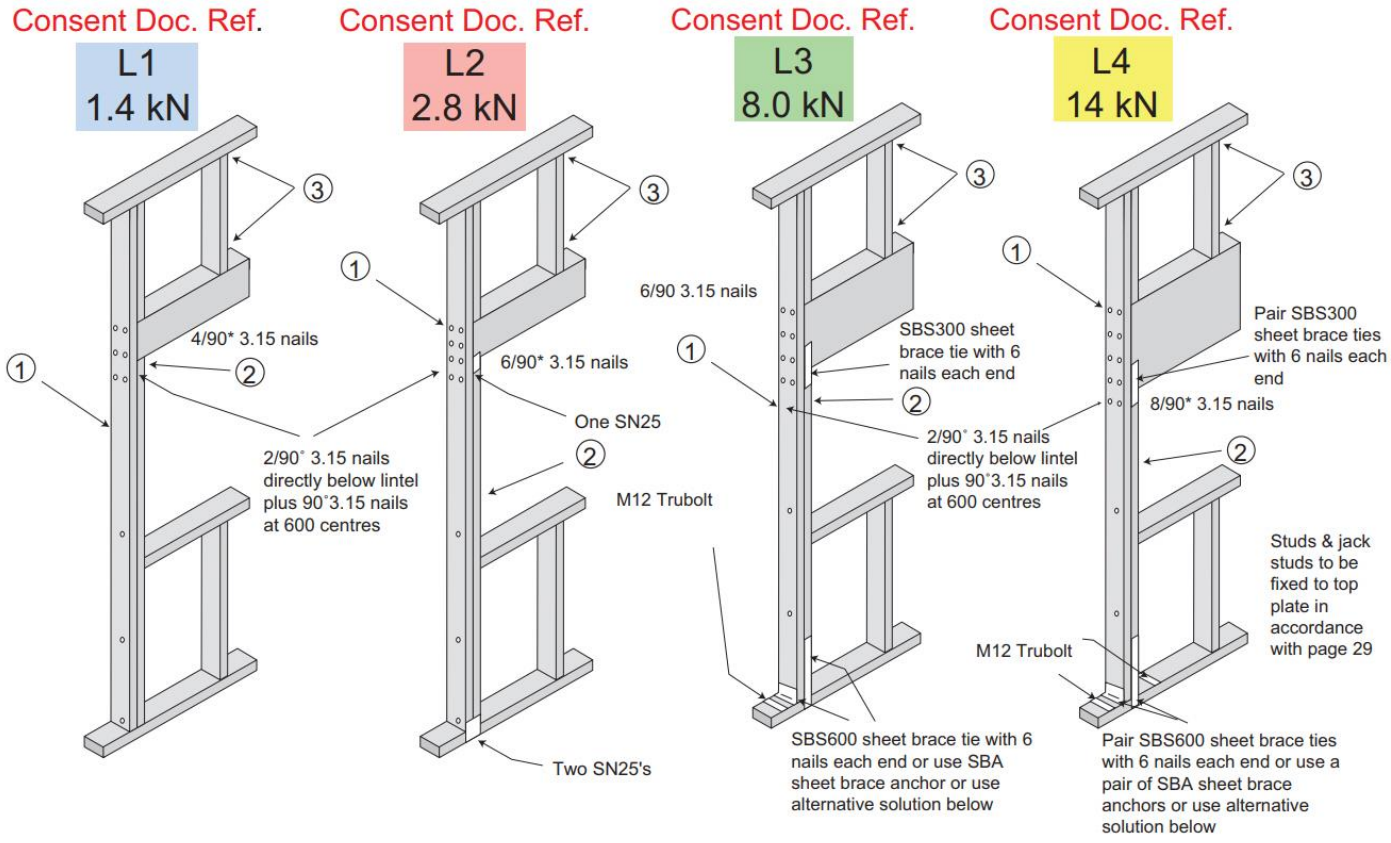
ACCEPTABLE SOLUTIONS IN CONJUNCTION WITH TABLES 8:14 & FIG 8:12 OF NZS3604:2011

Span Meters	Wind Zone	**LIGHT ROOF** Loaded Dimensions Meters					**HEAVY ROOF** Loaded Dimensions Meters				
		2	**3**	**4**	**5**	**6**	**2**	**3**	**4**	**5**	**6**
0.6	L	L1	L1	L1	L1	L1	L1	L1	L1	L1	L1
	M	L1	L1	L1	L1	L1	L1	L1	L1	L1	L1
	H	L1	L1	L1	L2	L2	L1	L1	L1	L1	L1
	VH	L1	L1	L2	L2	L2	L1	L1	L1	L2	L2
	EH	L1	L2	L2	L2	L3	L1	L1	L2	L2	L2
0.9	L	L1	L1	L1	L1	L1	L1	L1	L1	L1	L1
	M	L1	L1	L1	L1	L2	L1	L1	L1	L1	L1
	H	L1	L1	L2	L2	L2	L1	L1	L1	L2	L2
	VH	L1	L2	L2	L3	L3	L1	L2	L2	L2	L2
	EH	L2	L2	L3	L3	L3	L2	L2	L2	L3	L3
1.2	L	L1	L1	L1	L1	L1	L1	L1	L1	L1	L1
	M	L1	L1	L2	L2	L2	L1	L1	L1	L1	L1
	H	L1	L2	L2	L3	L3	L1	L1	L2	L2	L2
	VH	L2	L2	L3	L3	L3	L1	L2	L2	L3	L3
	EH	L2	L3	L3	L3	L3	L2	L2	L3	L3	L3
1.8	L	L1	L1	L1	L2	L2	L1	L1	L1	L1	L1
	M	L1	L2	L2	L2	L3	L1	L1	L1	L1	L2
	H	L2	L3	L3	L3	L3	L1	L2	L2	L3	L3
	VH	L3	L3	L3	L3	L4	L2	L3	L3	L3	L3
	EH	L3	L3	L3	L4	L4	L3	L3	L3	L3	L4
2.1	L	L1	L1	L2	L2	L2	L1	L1	L1	L1	L1
	M	L2	L2	L2	L3	L3	L1	L1	L1	L2	L2
	H	L2	L3	L3	L3	L3	L2	L2	L3	L3	L3
	VH	L3	L3	L3	L4	L4	L2	L3	L3	L3	L3
	EH	L3	L3	L4	L4	L4	L3	L3	L3	L4	L4
2.4	L	L1	L1	L2	L2	L2	L1	L1	L1	L1	L1
	M	L2	L2	L3	L3	L3	L1	L1	L1	L2	L2
	H	L2	L3	L3	L3	L4	L2	L2	L3	L3	L3
	VH	L3	L3	L4	L4	L4	L3	L3	L3	L3	L4
	EH	L3	L4	L4	L4	SED	L3	L3	L4	L4	L4
3	L	L1	L2	L2	L3	L3	L1	L1	L1	L1	L1
	M	L2	L3	L3	L3	L3	L1	L1	L2	L2	L2
	H	L3	L3	L3	L4	L4	L2	L3	L3	L3	L3
	VH	L3	L4	L4	L4	SED	L3	L3	L3	L4	L4
	EH	L3	L4	L4	SED	SED	L3	L4	L4	L4	SED
3.6	L	L2	L2	L2	L3	L3	L1	L1	L1	L1	L1
	M	L2	L3	L3	L3	L3	L1	L2	L2	L2	L3
	H	L3	L3	L4	L4	L4	L2	L3	L3	L3	L4
	VH	L3	L4	L4	SED	SED	L3	L3	L4	L4	L4
	EH	L4	L4	SED	SED	SED	L3	L4	L4	SED	SED
4.2	L	L2	L2	L3	L3	L3	L1	L1	L1	L1	L1
	M	L3	L3	L3	L3	L4	L1	L2	L2	L3	L3
	H	L3	L4	L4	L4	SED	L3	L3	L3	L4	L4
	VH	L4	L4	L4	SED	SED	L3	L4	L4	L4	SED
	EH	L4	L4	SED	SED	SED	L4	L4	L4	SED	SED
4.8	L	L2	L3	L3	L3	L3	L1	L1	L1	L1	L1
	M	L3	L3	L3	L4	L4	L1	L2	L2	L3	L3
	H	L3	L4	L4	L4	SED	L3	L3	L3	L4	L4
	VH	L4	L4	SED	SED	SED	L3	L4	L4	SED	SED
	EH	L4	SED	SED	SED	SED	L4	L4	SED	SED	SED

Notes:

1. Lintel spans and loaded dimensions measured in metres.
2. All frame nailing not indicated, refer to table 8.19 of NZS 3604:2011. In all cases a 90mm thick external wall is assumed.
3. For girder truss loads use a minimum of: L3 where girder carries more than 10sq.m. of roof and L4 where girder carries more than 18sq.m. of roof.
4. **SED (Seek Engineering Design) designates** that a Specific Design is required.
5. All capacities are limit state design values and not characteristic strength therefore these may be compared directly to Pryda design software. Output capacities assume a minimum timber grade of SG8.

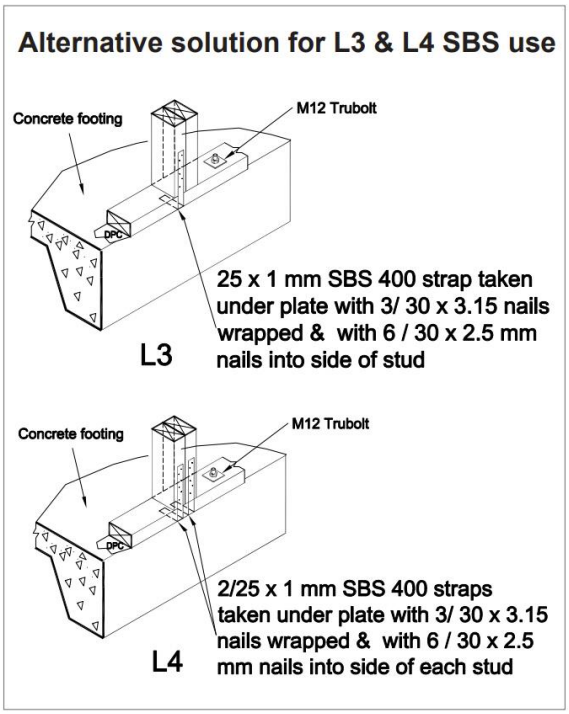
ACCEPTABLE SOLUTIONS IN CONJUNCTION WITH TABLES 8:14 & FIG 8:12 OF NZS3604:2011



1. For trimming stud thickness refer to Table 8.5 NZS 3604:2011. Additional studs to that shown to have a minimum stud to stud fixing of 11/90*3.15 nails.

2. Where a double stud which provides support for a lintel is shorter by 400mm or more than the full stud height, its thickness shall not be included as contributing to the thickness of trimming studs.

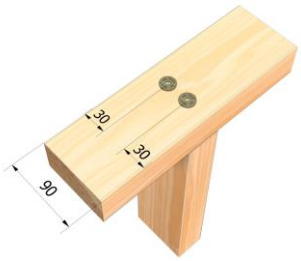
3. Studs & jacks to be fixed to top plate in accordance with the Top Plate to Stud Fixing Guide. Same fixing is required for jack stud to lintel.



TOP PLATE TO STUD FIXING GUIDE

ALTERNATIVE SOLUTION TO NZS3604:2011 TABLE 8.18

It is proposed that Pryda Strap nails and Pryda Concealed Cleats be preferred as opposed to Pryda Z and U nails for ease of fixing and to lessen interference with the cladding.

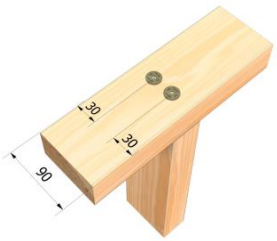


TP3*

6.0kN

TP3

4.7kN



TP3*

6.0kN

TPO

0.7kN

TP1

1.7kN

TP2

2.5kN

TP3*

6.0kN

TP3

4.7kN

TP3*

6.0kN

Minimum Top Plate to Stud Joint Fixing Table for roof member 600, 900 & 1200 Centres										
Loaded Dimension (m)	Light Weight Roof Wind Zone					Heavy Weight Roof Wind Zones				
	L	M	H	VH	EH	L	M	H	VH	EH
2.0	TPO	TPO	TP1	TP2	TP3	TPO	TPO	TPO	TP1	TP2
3.0	TPO	TP1	TP2	TP3	TP3	TPO	TPO	TP1	TP2	TP3
4.0	TPO	TP2	TP3	TP3	TP3	TPO	TPO	TP2	TP3	TP3
5.0	TP1	TP2	TP3	TP3	TP3	TPO	TPO	TP2	TP3	TP3
6.0	TP2	TP3	TP3	TP3	TP3	TPO	TPO	TP3	TP3	TP3

Consent Doc Ref.	Fixing Capacity	Fixing Detail
TP0	0.7kN	2 x End Nails
TP1	1.7kN	2 x End Nails + MP2R4 Knuckle Plate
TP2	2.5kN	2 x End Nails + MPSN2 Strap nail OR 1 x WM8100PS OR 1 x WM8135PS
TP3	4.7kN	2 x End Nails + SN50L Strap nail OR 1 x WM8150PS OR 1 x WM8175PS
TP3*	6.0kN	2 x End Nails + NPPC8 with 4 x T17 14G x 75mm hex head screws OR 2 x WM8150PS OR 2 x WM8175PS
TP3*	6.0kN	2 x End Nails + SST OR 2 x WM8150PS OR 2 x WM8175PS

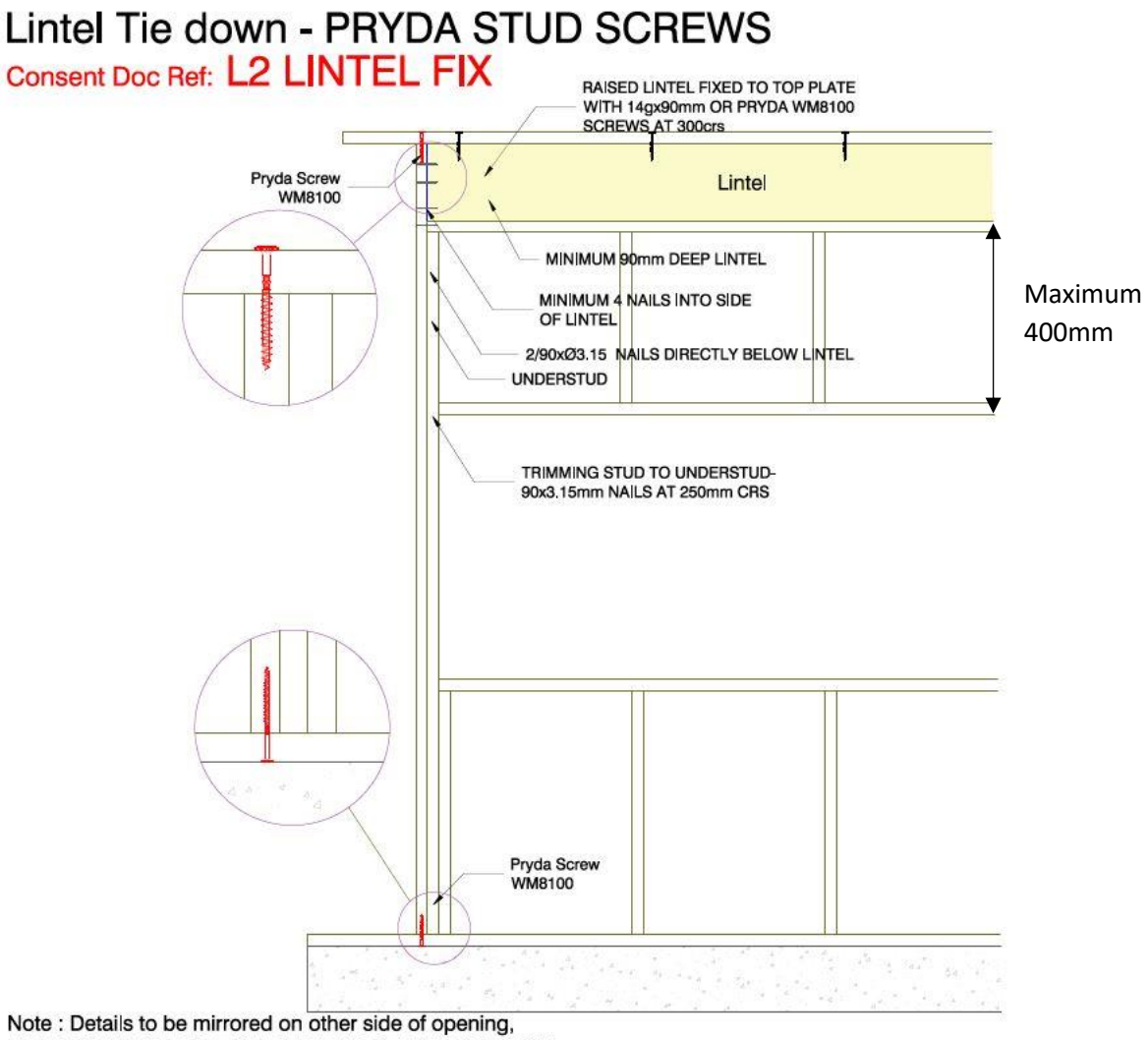
Notes:

- Refer to NZS3604:2011 Table 8.19 and 8.18.
- All truss to top plates to be fixed as per truss manufacturer's fixing schedule and details.
- SG8 min. dry wall framing with moisture content <18%.
- Studs at 600mm centres. For 400mm stud centres divide loaded dimension by 1.5.
- Nails specified are 90 x 3.15mm power driven or 100 x 3.75mm hand driven.
- Assumed that the top plate is 45mm.
- Ceiling Plate must be fixed to the top plate with a connection meeting and exceeding the capacity of the stud and top plate connection.
- Screw fix options using WM8100PS and WM8150PS can be replaced by 135mm (WM8135PS) & 175mm (WM8175PS) FastFix™ screws on-site, respectively.
- Screw fix options using 2 x WM8 screws or 1 x WM8 screw combined with 2 nails are only suitable for top plates with width 90mm or greater.
- TP3* - Replicate the top plate to stud connection on to stud to bottom plate connection.
- For all double top plates, use WM8150PS.

ALTERNATIVE LINTEL FIXING

ACCEPTABLE SOLUTIONS IN CONJUNCTION WITH TABLES 8:14 & FIG 8:12 OF NZS 3604:2011 USING PRYDA FASTFIX™ SCREWS.

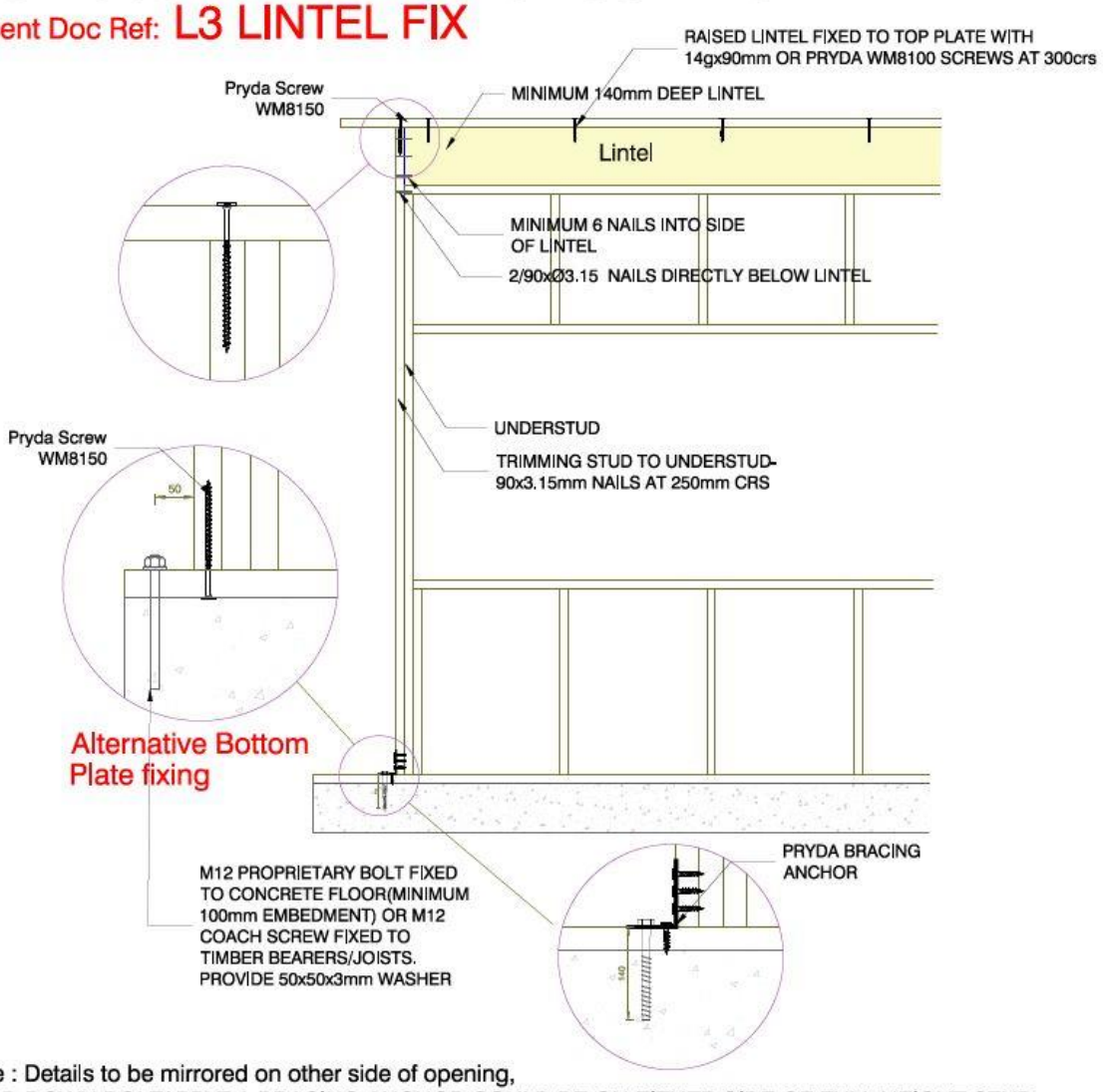
RAISED HEADER FIXING DETAILS FOR CONSENT DOC REF L2, L3, AND L4.



- The maximum height of the frame infill above opening shall not be more than 400mm.
- The drawing shall be read in conjunction with Table 8.14 and Fig. 8.12 of NZS 3604:2011.
- Opening span shall be either defined and designed by Pryda Build Software or as per Table 8.14 of NZS 3604:2011
- WM8100PS and WM8150PS can be replaced with 135mm (WM8135PS) and 175mm (WM8175PS) on-site FastFix™ screws, respectively.

Lintel Tie down - PRYDA STUD SCREWS

Consent Doc Ref: L3 LINTEL FIX

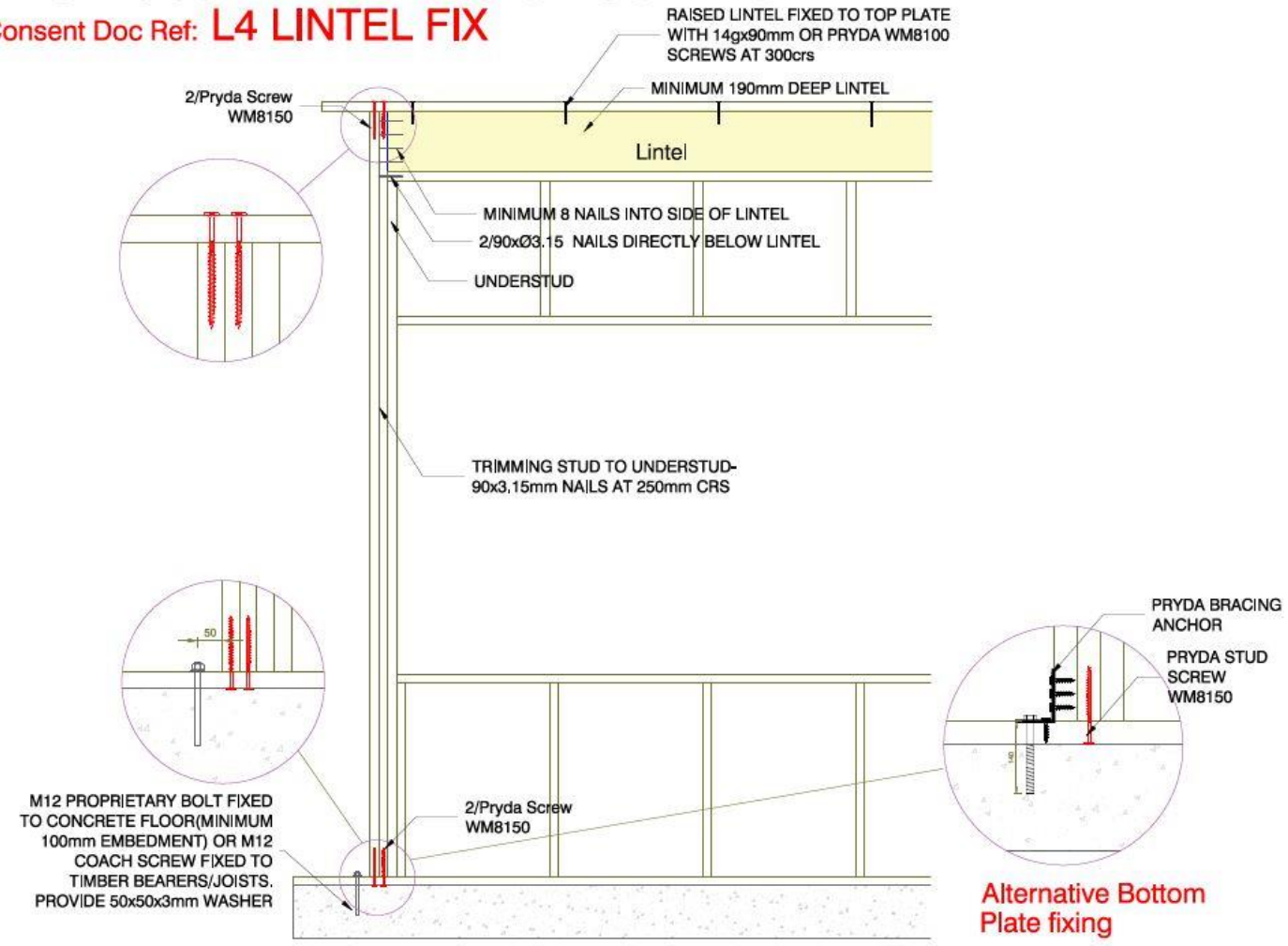


Note : Details to be mirrored on other side of opening,
HOLD DOWN BOLT/ PRYDA BRACING ANCHOR COULD BE ON EITHER SIDE OF FULL HEIGHT STUD.

- The maximum height of the frame infill above opening shall not be more than 400mm.
- The drawing shall be read in conjunction with Table 8.14 and Fig. 8.12 of NZS 3604:2011.
- Opening span shall be either defined and designed by Pryda Build Software or as per Table 8.14 of NZS 3604:2011
- WM8100PS and WM8150PS can be replaced with 135mm (WM8135PS) and 175mm (WM8175PS) on-site FastFix™ screws, respectively.

Lintel Tie down - PRYDA STUD SCREWS

Consent Doc Ref: L4 LINTEL FIX



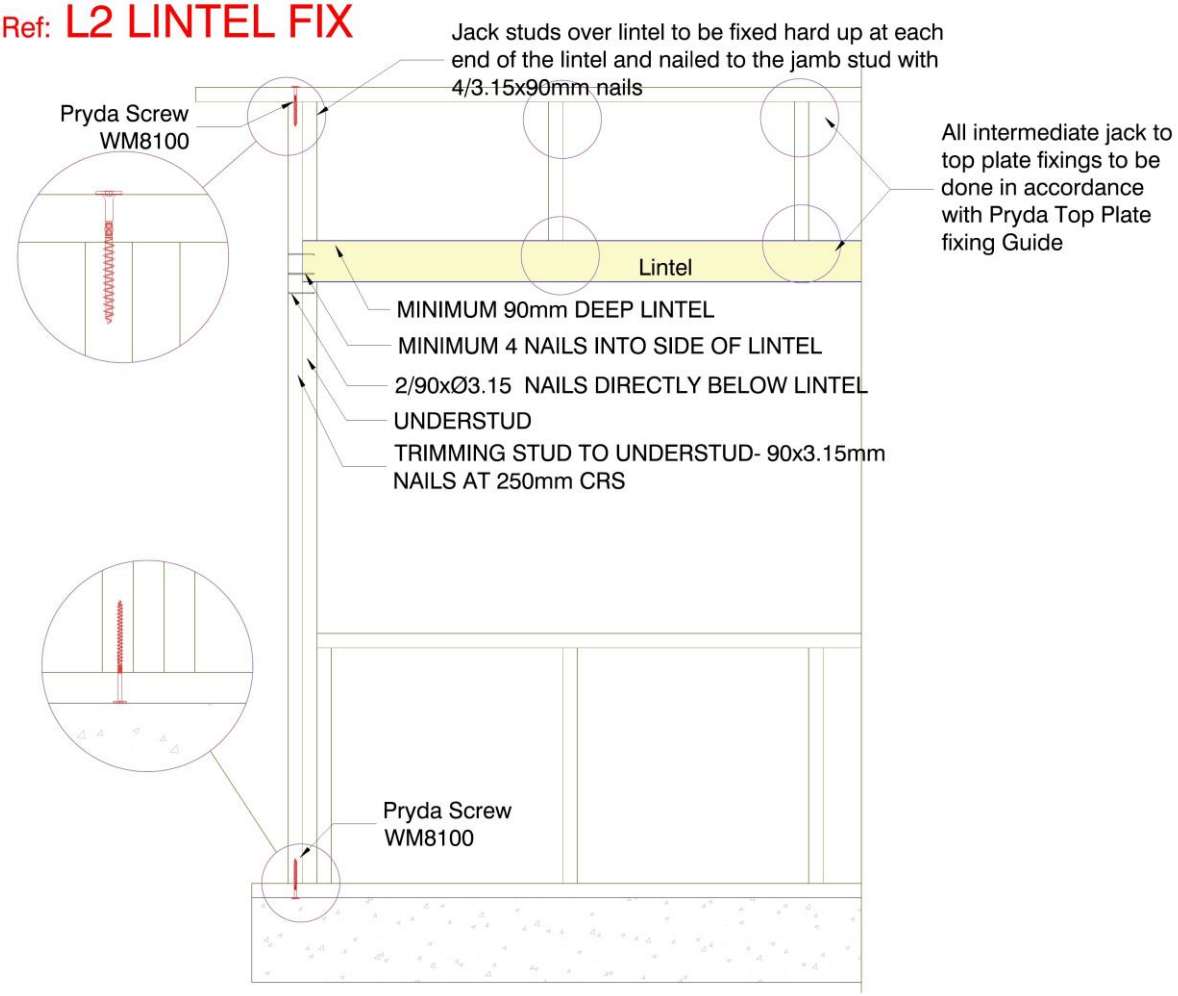
Note : Details to be mirrored on other side of opening,
HOLD DOWN BOLT/ PRYDA BRACING ANCHOR COULD BE ON EITHER SIDE OF FULL HEIGHT STUD.

- The maximum height of the frame infill above opening shall not be more than 400mm.
- The drawing shall be read in conjunction with Table 8.14 and Fig. 8.12 of NZS 3604:2011.
- Opening span shall be either defined and designed by Pryda Build Software or as per Table 8.14 of NZS 3604:2011
- WM8100PS and WM8150PS can be replaced with 135mm (WM8135PS) and 175mm (WM8175PS) on-site FastFix™ screws, respectively.

STANDARD HEADER FIXING DETAILS FOR CONSENT DOC REF L2, L3, AND L4.

Lintel Tie down - PRYDA STUD SCREWS

Consent Doc Ref: L2 LINTEL FIX

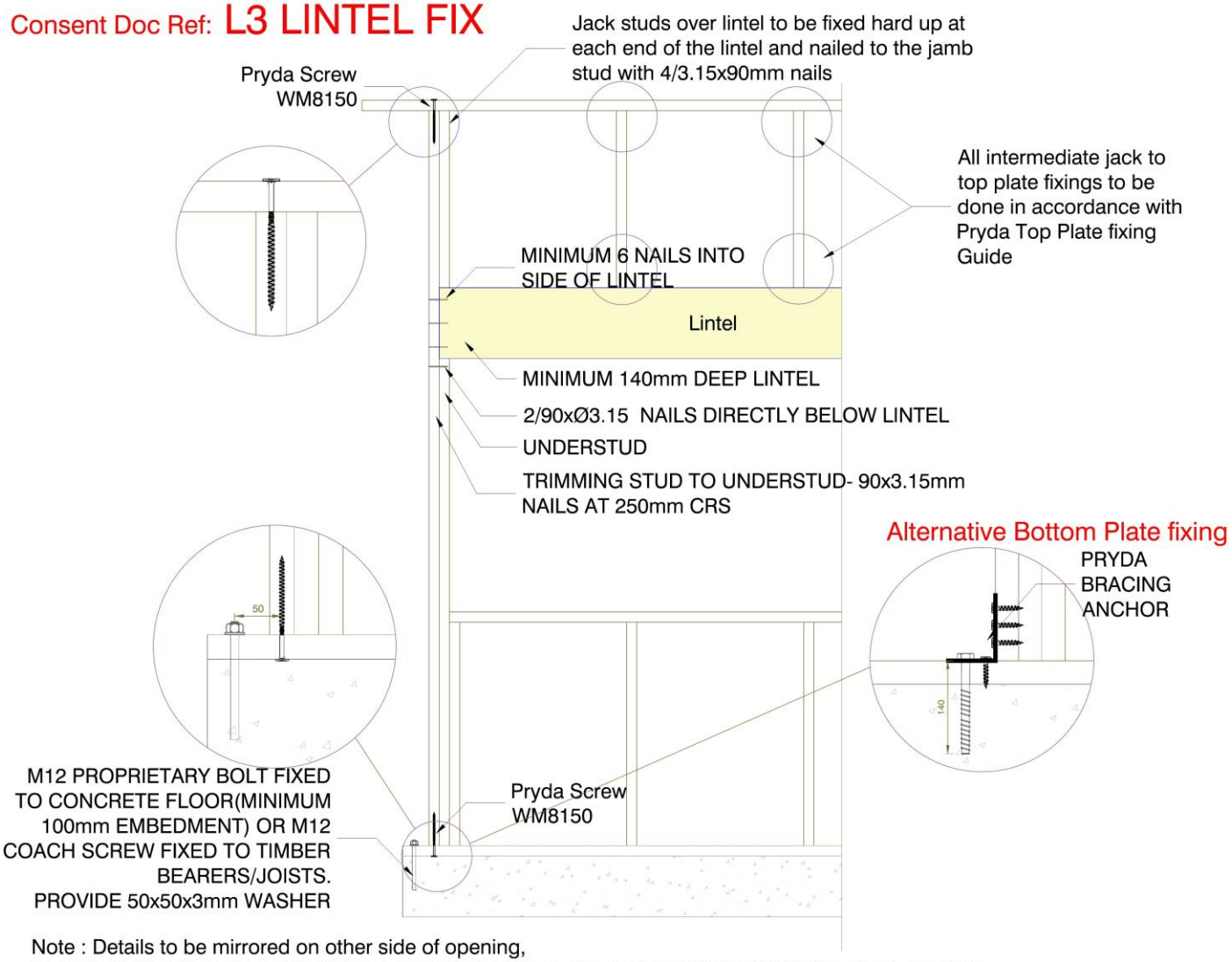


Note : Details to be mirrored on other side of opening,
HOLD DOWN OF BOTTOM PLATE AS PER NZS3604:2011

- WM8100PS and WM8150PS can be replaced with 135mm (WM8135PS) and 175mm (WM8175PS) on-site FastFix™ screws, respectively.

Lintel Tie down - PRYDA STUD SCREWS

Consent Doc Ref: L3 LINTEL FIX

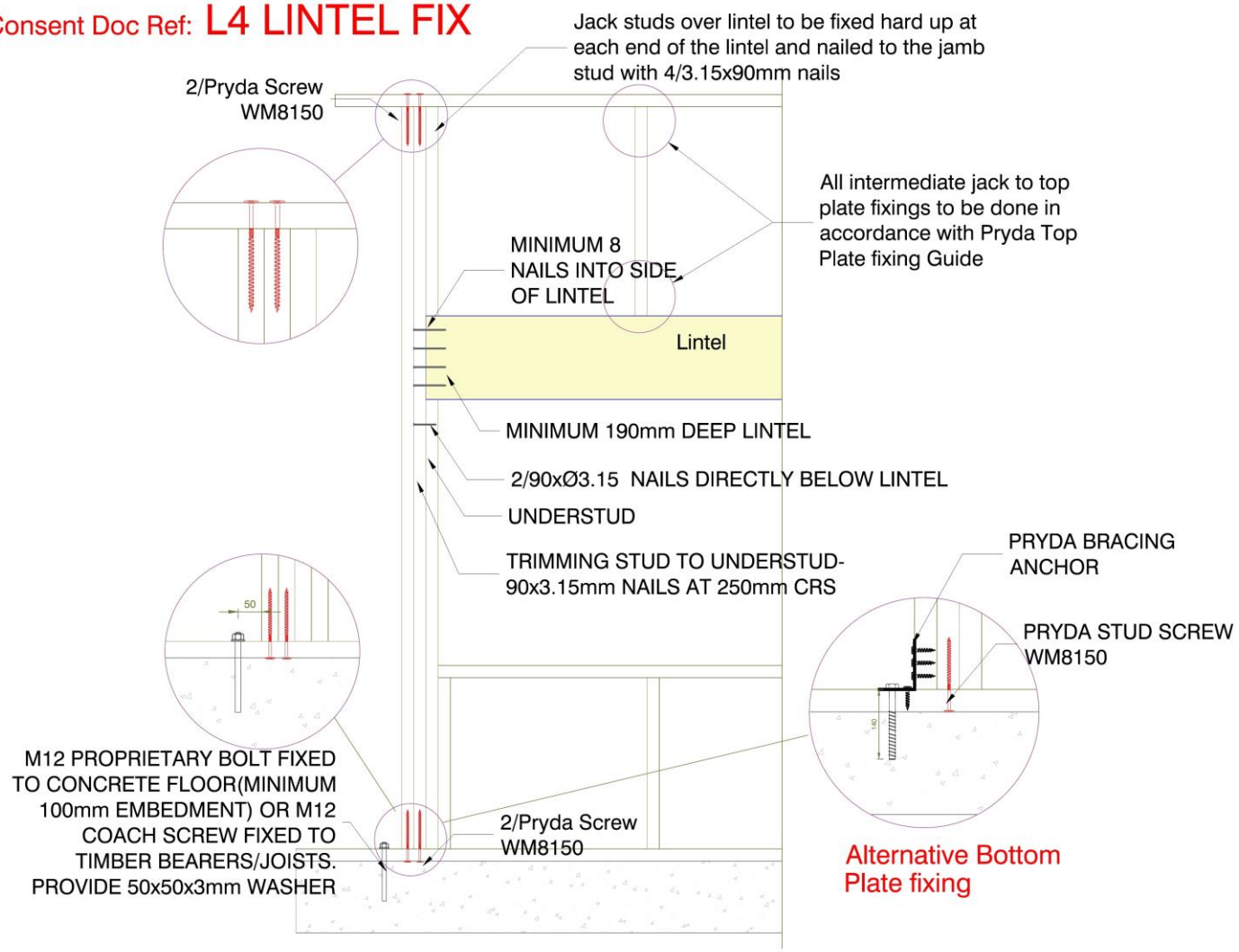


Note : Details to be mirrored on other side of opening,
HOLD DOWN BOLT/ PRYDA BRACING ANCHOR COULD BE ON EITHER SIDE OF FULL HEIGHT STUD.

- WM8100PS and WM8150PS can be replaced with 135mm (WM8135PS) and 175mm (WM8175PS) on-site FastFix™ screws, respectively.

Lintel Tie down - PRYDA STUD SCREWS

Consent Doc Ref: L4 LINTEL FIX



Note : Details to be mirrored on other side of opening,
HOLD DOWN BOLT/ PRYDA BRACING ANCHOR COULD BE ON EITHER SIDE OF FULL HEIGHT STUD.

- WM8100PS and WM8150PS can be replaced with 135mm (WM8135PS) and 175mm (WM8175PS) on-site FastFix™ screws, respectively.