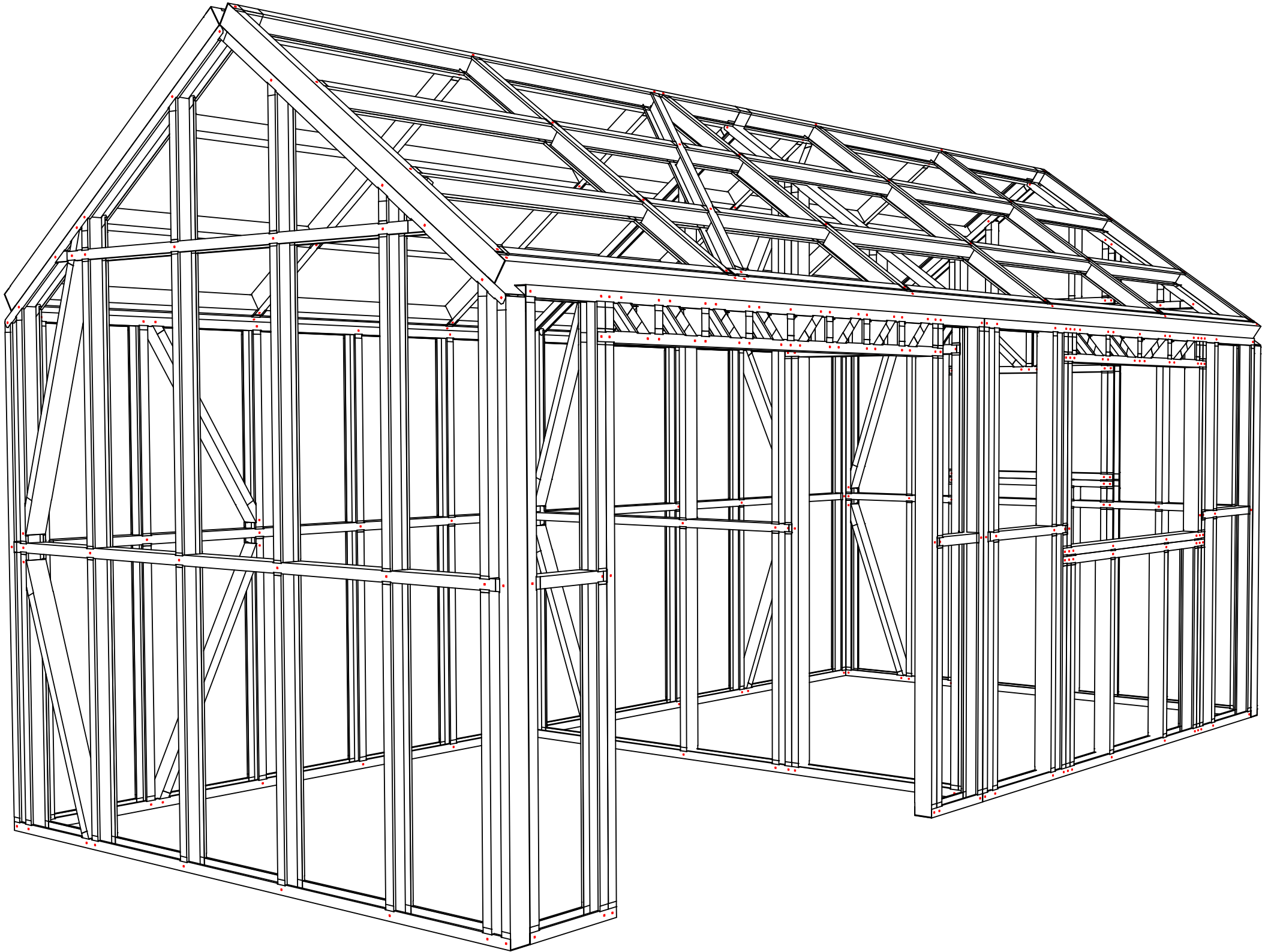




PROPOSED NEW DESIGN FOR
SL-3x6-B

SITE ADDRESS
TBC

STEEL FRAME CONSTRUCTION PLANS

DESIGN PARAMETERS	
WIND ZONE	H
SNOW ZONE	<1.5kPa
EARTHQUAKE ZONE	--
LOT #	-- DP

COVER
SHEET

JOB NUMBER
SL-3x6-B

CONSTRUCTION
DRAWING SET

ISSUE DATE
22.03.2024

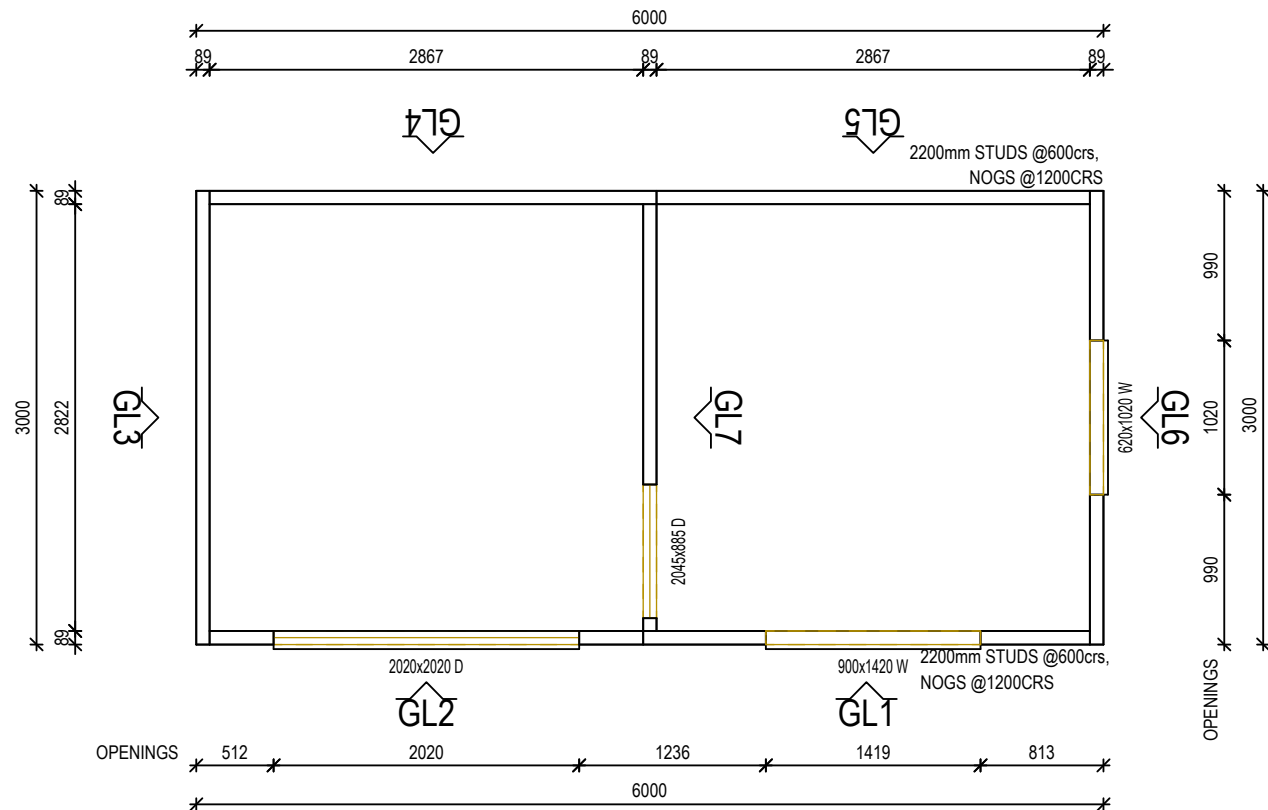
REVISION
A

NOTES ON COLD FORMED STEEL FABRICATION AND ERECTION All cold formed steel structure design is to NZ standards or certified by suitably qualified persons prior to construction. Refer to architectural drawings for dimensions, foundations and any structural steel not shown on framing drawings. FRAMING All framing members to be type SC/PC as classified by 'NASH Standard Part Two: May 2019', Tables E1 & E2, UNO. Framing components are to be pre-assembled into panels prior to erecting and will be square with components attached in a manner to avoid raking. Design, fabrication and erection shall comply with NASH SP2:2019. All screws to be 10g tek screws UNO. Splices in studs of load bearing walls are not permitted. Members shall be held positively in place until properly fastened. ERECTION Erect framing and panels level and square in strict accordance with the approved shop drawings. Handling and lifting of prefabricated panels shall be done in a manner as to not cause distortion in a member. Concrete anchors shall be installed after full concrete compressive strength has been achieved. Do not cut load bearing studs, lintels or trusses to install services in excess of a 35mm diameter hole at the centre of a member, unless studs have been reinforced to maintain structural integrity as per details provided. Ensure continuous DPC between any Concrete, Copper, Brass, CCA treated timber and galvanised steel. Builder to check all trim sizes, braces and cladding fixings on site before enclosing. FIXINGS Screw fixings shall be a minimum of 1.5x the diameter of the screw shank from the closest end and edge of the members being connected except for battens that shall be a minimum of 3x the diameter of the screw shank from the closest end of the batten being connected. Minimum spacing crs between screw fixings shall be 3x the diameter of the screw shank. Screw fixings into timber shall be a minimum of 4x the diameter of the screw shank from any edges and ends of the timber member. Screws shall have a minimum of 3 threads penetration through the connection. Please note Steel Frame Manufacturing Ltd only supplies frame to frame connections unless otherwise agreed.

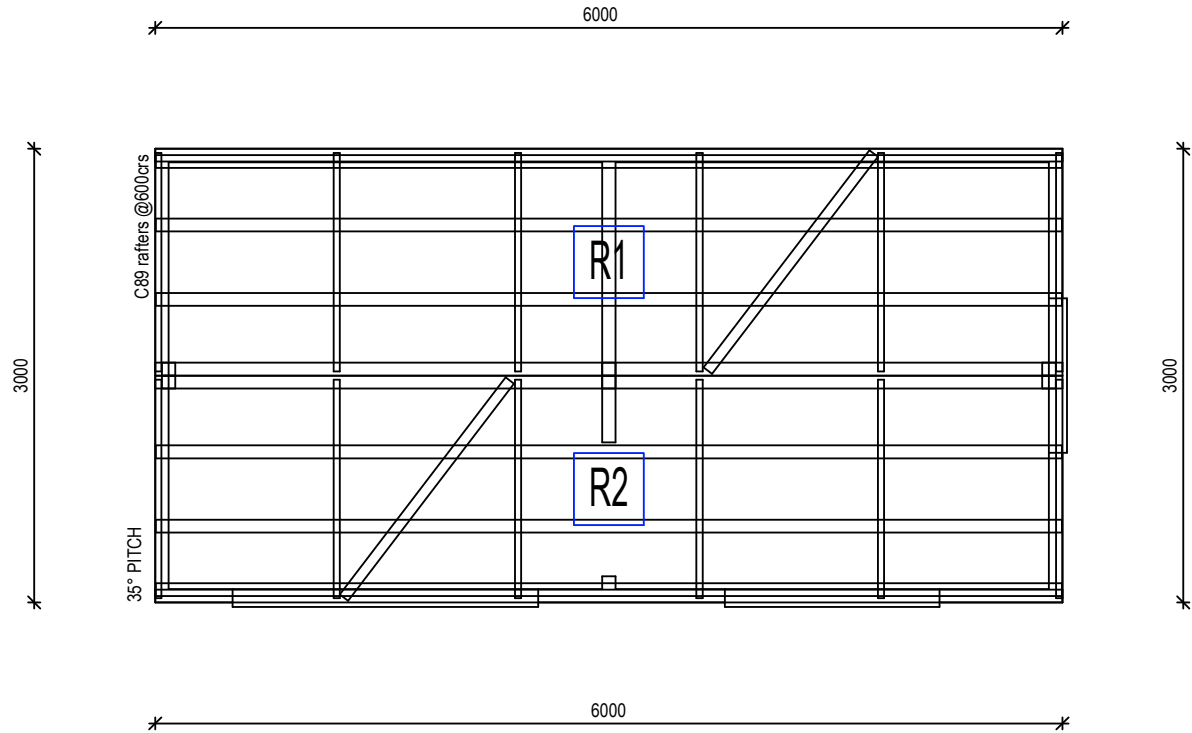


STEEL FRAME MANUFACTURING LIMITED

steelframeman.co.nz | 0800 178 335 | 29 Studholme St, Waimate



WALL FRAME LAYOUT



ROOF FRAME LAYOUT

FRAME DESIGN NOTES

1. WALL DESIGN IN ACCORDANCE WITH NASH STANDARD PART TWO: MAY 2019
 - Loadbearing opengs to have min 2x jamb studs in accordance with table 7.15
 - Loadbearing lintels min 180mm TYPE A2 in accordance with table 11.9
 - Stud spacing and stud to plate connections in accordance with tables 7.4 and 7.5
2. RAFTER DESIGN IN ACCORDANCE WITH NASH STANDARD PART TWO: MAY 2019
 - Rafter spans in accordance with table 11.1
3. BRACING DESIGN EXCLUDED/BY OTHERS

READING THE WALL FRAME LAYOUT PLAN

WALL PANEL ORENTATION:
Each wall panel will have the frame code printed on one side of the frame and the Steel Frame Manufacturing Limited website printed on the other. The side with the frame code is the side that the label points to on the plan.
All external walls should have the frame code facing out.

STEELFRAMEMAN.CO.NZ

FRAME CODE

GL1

PROPOSED NEW DESIGN FOR
SL-3x6-B

SITE ADDRESS
TBC

DESIGN PARAMETERS

WIND ZONE H
SNOW ZONE <1.5kPa
EARTHQUAKE ZONE --
LOT # --
DP --

STEEL FRAME CONSTRUCTION PLANS
FRAME LAYOUT

CONSTRUCTION

C01

JOB NUMBER
SL-3x6-B

ISSUE DATE
22.03.2024

info@steelframeman.co.nz

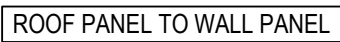
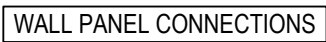
DETAILER: CT

REVISION
A





Bottom chord below door keeps framing square for transport and installation. When all framing is erect and plumb, this can be cut out with care not to damage surrounding framing and subfloor



Name			S8975
Grade			G550
Coating			AZ150
Feed		mm	182.0
Area		mm ²	136.5
Mass		kg	1.072
Yield Stress	fy	Mpa	550
Tensile Strength	fu	Mpa	550
Second Moment of Area	Ix	mm ⁴	174103
Second Moment of Area	Iy	mm ⁴	29996
Radius of Gyration	rx	mm	35.7
Radius of Gyration	ry	mm	14.8
Centroid Position	x	mm	12.6
Centroid Position	y	mm	44.0
Shear Centre	xo	mm	33.2
Shear Centre	yo	mm	0
Polar Radius of Gyration	ro1	mm	43.6
Tortion Constant	J	mm ⁴	25.6
Warping Constant	Iw	mm ⁶	48912422
Sectional Modulus	Zxt	mm ³	3957
Sectional Modulus	Zxb	mm ³	3869
Sectional Modulus	Zyt	mm ³	2381
Sectional Modulus	Zyb	mm ³	1056

CONNECTION NOTES NASH Part 2 2019

DURABILITY

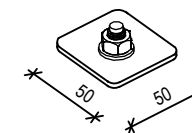
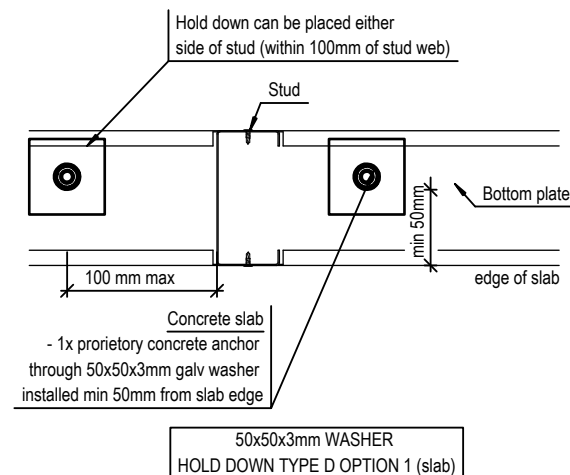
SCREWS
Screws shall conform to AS 3566.2 with a minimum of class 3.

BRACKETS
Brackets shall be either hot-dipped galvanized complying to AS/NZS4680 Table 1 or mechanically galvanized to AS 1397.

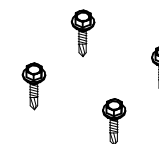
GROUND FLOOR

Hold down NASH TYPE D - 6kN external walls 4kN internal walls

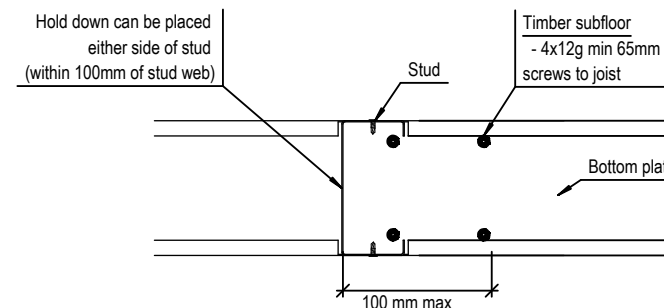
- each side of every opening (unless type 1 applies)
- at the start and end of wall panels
- elsewhere not exceeding 1200mm crs



50x50x3mm WASHER



4x12g TEK SCREWS



4x12g TEK SCREWS
HOLD DOWN TYPE D OPTION 2

SITE ADDRESS
TBC

WIND ZONE	H
SNOW ZONE	<1.5kPa
EARTHQUAKE ZONE	--
LOT #	--
DP	--

DETAILS

C02

info@steelframeman.co.nz

DETAILER: CT

REVISION

