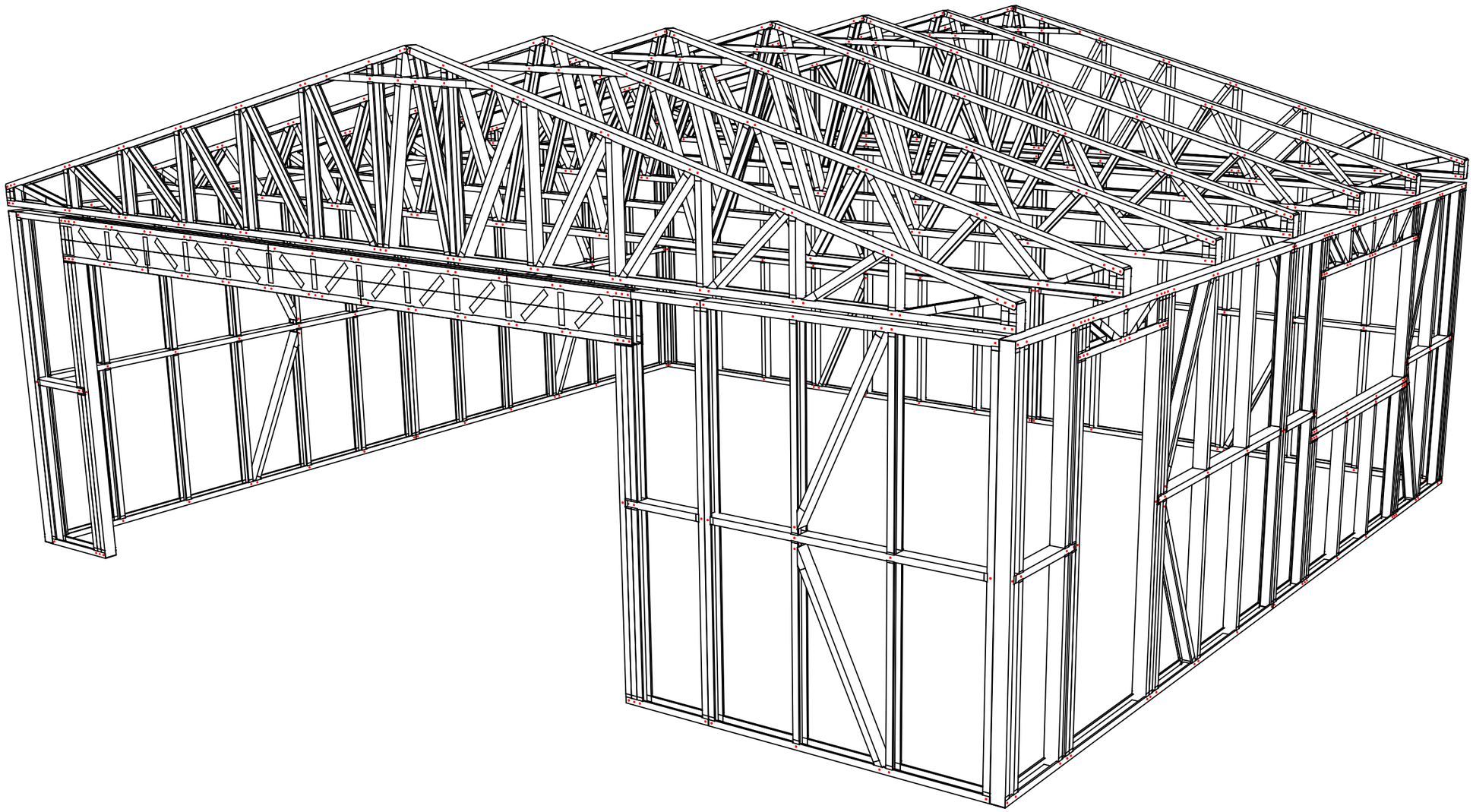


PROPOSED NEW DESIGN FOR
G-7.2x8-A

SITE ADDRESS
TBC
TBC

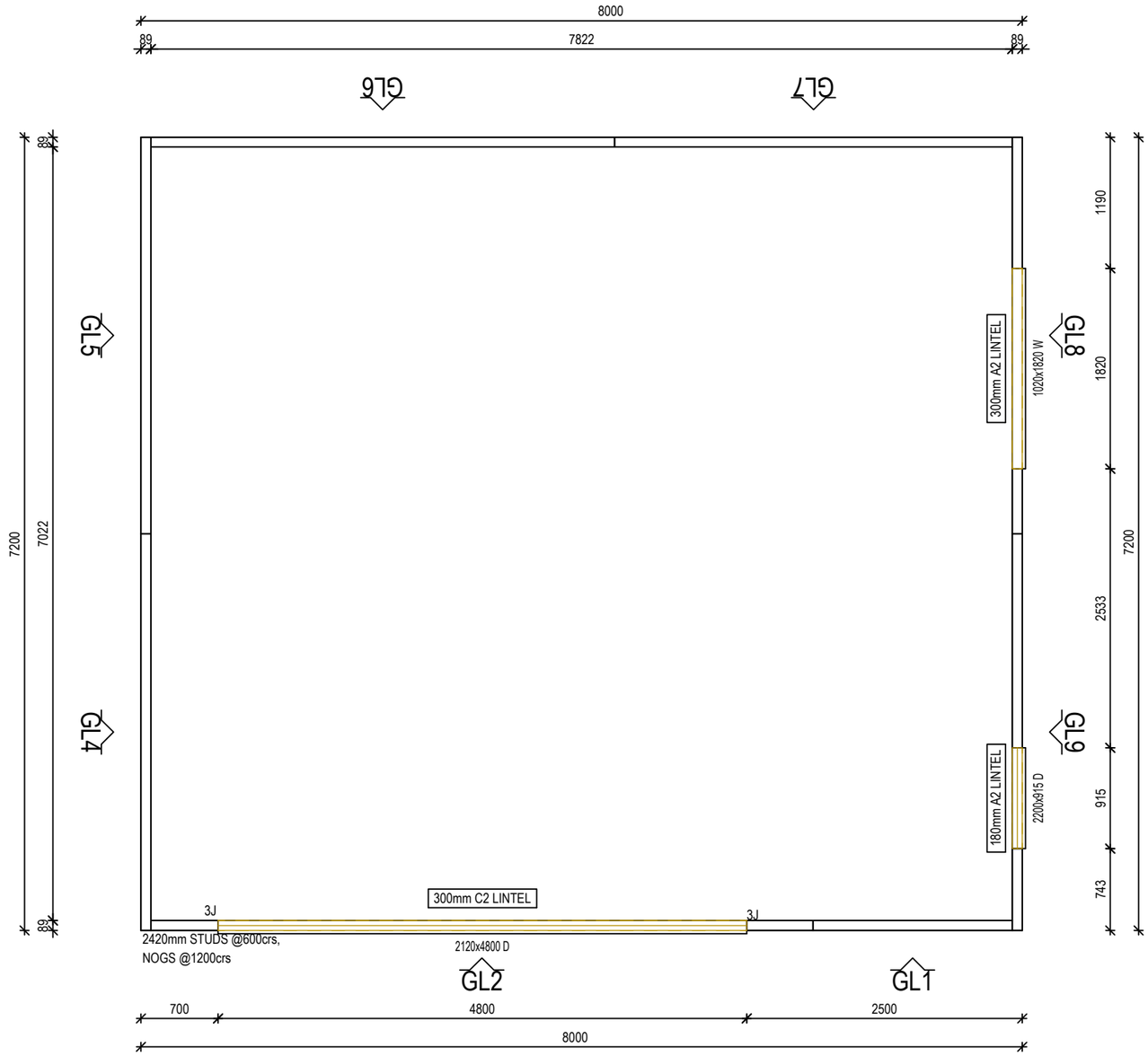
STEEL FRAME CONSTRUCTION PLANS

DESIGN PARAMETERS		COVER SHEET	CONSTRUCTION DRAWING SET	REVISION
WIND ZONE	H			
SNOW ZONE	<1kPa			
EARTHQUAKE ZONE	3	JOB NUMBER	ISSUE DATE	
LOT # -- DP	--	G-7.2x8-A	07.03.2024	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.

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WALL FRAME NOTES

1. WALL DESIGN IN ACCORDANCE WITH NASH STANDARD PART TWO: MAY 2019 UNLESS NOTED OTHERWISE
   - Jamb studs in accordance with table 7.15
     All external openings to have minimum 2 jambs to each side UNO
   - Lintels in accordance with table 7.23 and 7.24
   - Stud spacing and stud to plate connections in accordance with tables 7.4 and 7.5

2. BRACING DESIGN TBC BY ENGINEER

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
G-7.2x8-A

SITE ADDRESS
TBC
TBC

DESIGN PARAMETERS

WIND ZONE	H
SNOW ZONE	<1kPa
EARTHQUAKE ZONE	3
LOT #	--
DP	--

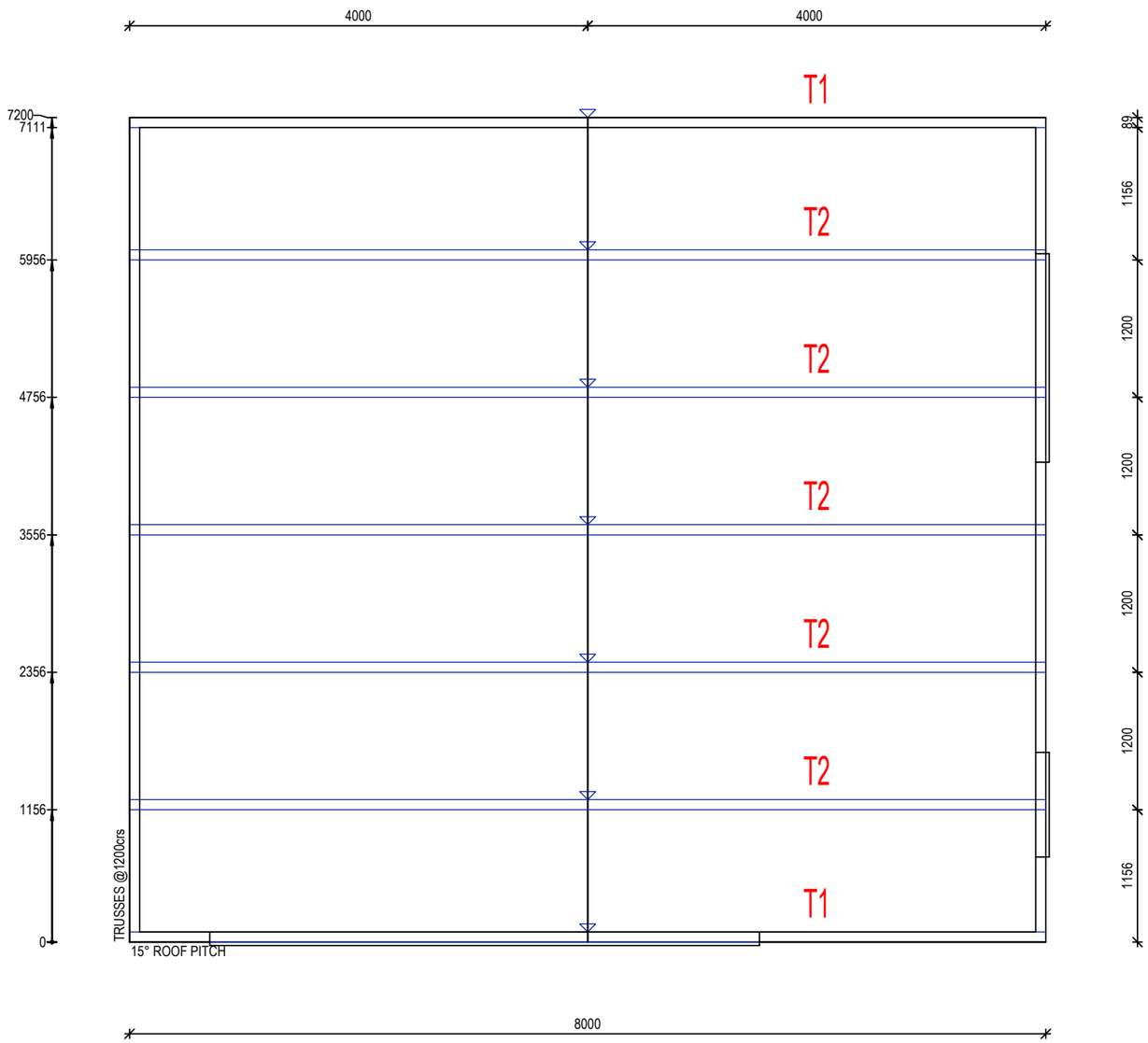
STEEL FRAME CONSTRUCTION PLANS

WALL FRAME LAYOUT

CONSTRUCTION	C01	REVISION
JOB NUMBER G-7.2x8-A	ISSUE DATE 07.03.2024	A
info@steelframeman.co.nz	DETAILER: CT	

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NOTES

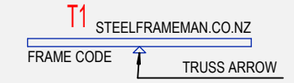
1. TRUSS DESIGN BY ENGINEER

2. TOP HAT PURLINS 40mm 0.75 @900crs MAX
   TO TOP CHORD OF RAFTERS
   BOTTOM CHORD RESTRAINT C89 @1350crs MAX

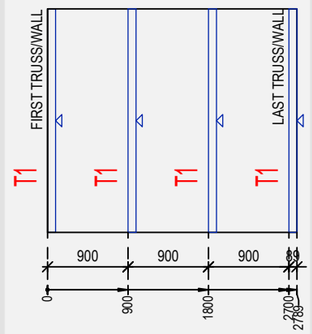
3. RED DASHED LINE INDICATES ROOF STRAP BRACING TO BE INSTALLED AS PER NASH:
   Each roof brace shall consist of the following:
   A diagonally opposing pair of continuous steel straps each having a capacity of 4.0kN in tension, fixed to each top chord or rafter that is intersected and the top plate. The angle shall be between 30 and 60 degrees to the truss top chord or rafter and shall not sag more than 1/500 of the distance between supports. Where tension devices are used to remove excessive sag, care shall be taken not to over-tension the braces.
   At the bottom end the strap shall be carried over the top plate, down a stud by 100 mm, and fixed with a minimum of 4 x 10g screws.
   SUPPLY BY OTHERS

READING THE JOIST FRAME LAYOUT PLAN

TRUSS / RAFTER ORENTATION:
Each truss/ rafter 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 truss arrow pointing to it will be the side with the truss code.



TRUSS / RAFTER DIMENSIONS
Each truss / rafter will have a dimension and each dimension will to the same side of the truss. Refer to detail below



PROPOSED NEW DESIGN FOR
G-7.2x8-A

SITE ADDRESS
TBC
TBC

DESIGN PARAMETERS

WIND ZONE	H
SNOW ZONE	<1kPa
EARTHQUAKE ZONE	3
LOT #	--
DP	--

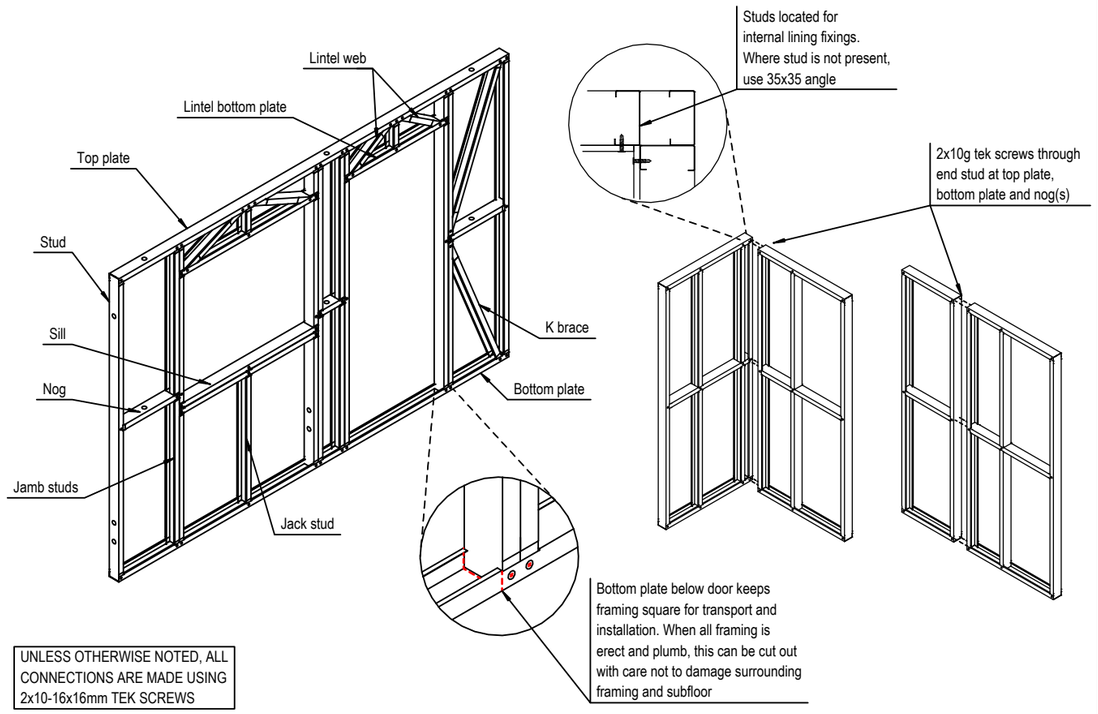
STEEL FRAME CONSTRUCTION PLANS

ROOF FRAME LAYOUT

CONSTRUCTION	C02	REVISION
JOB NUMBER G-7.2x8-A	ISSUE DATE 07.03.2024	A
info@steelframeman.co.nz	DETAILER: CT	

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UNLESS OTHERWISE NOTED, ALL CONNECTIONS ARE MADE USING 2x10-16x16mm TEK SCREWS

WALL FRAME TERMINOLOGY

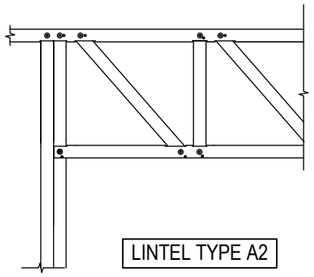
WALL PANEL CONNECTIONS

LINTEL TYPES

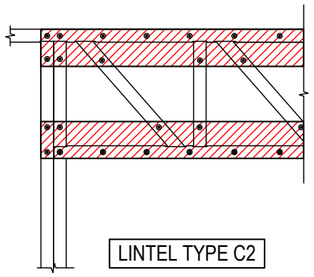
All lintels as per NASH Standard Part Two: May 2019 - Light steel framed Buildings

TYPE A2
- For use in all loadbearing walls unless noted otherwise
- Extra 10g tek screw required to each connection to the first two webs

TYPE C2
- 0.95 150x20 L-plate to top and bottom plate of lintel on both sides fixed with 10g screws @150crs and to each jamb stud @80crs



LINTEL TYPE A2



LINTEL TYPE C2

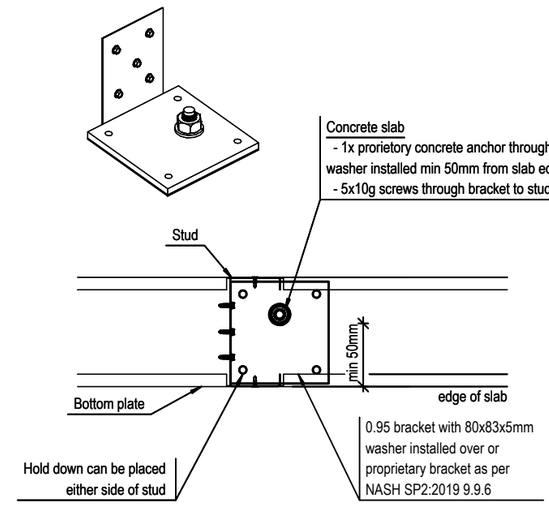
CONNECTION NOTES NASH Part 2 2019

All hold downs max 1200 crs (inclusive of bracing hold downs)
Bracing Hold downs - refer to Bracing system requirements and details
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.

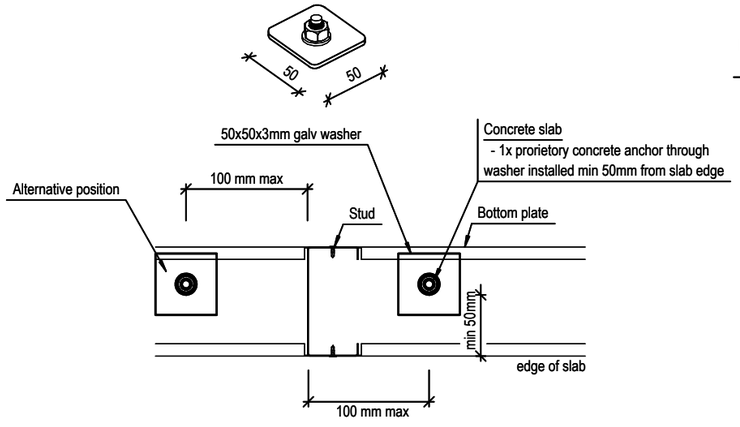
GROUND FLOOR (TO CONCRETE SLAB)

Hold down NASH TYPE E - 10kN
- at each side of openings where 3 or more jamb studs are present
- at each end of each bracing element

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

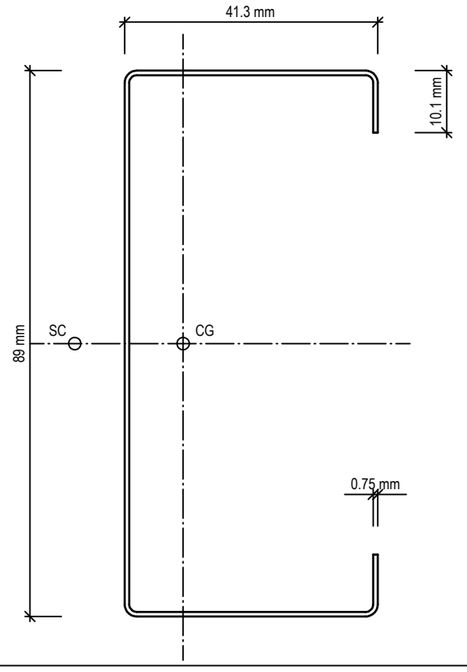


HOLD DOWN TYPE E- slab



HOLD DOWN TYPE D - slab

C89x41.3mm 0.75BMT LIPPED CEE SECTION PROPERTIES



Name			S8975
Grade			G550
Coating			Z250
Feed		mm	182.0
Area		mm2	136.5
Mass		kg	1.072
Yield Stress	fy	Mpa	550
Tensile Strength	fu	Mpa	550
Second Moment of Area	Ix	mm4	174103
Second Moment of Area	Iy	mm4	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	mm4	25.6
Warping Constant	Iw	mm6	48912422
Sectional Modulus	Zxt	mm3	3957
Sectional Modulus	Zxb	mm3	3869
Sectional Modulus	Zyt	mm3	2381
Sectional Modulus	Zyb	mm3	1056

PROPOSED NEW DESIGN FOR
G-7.2x8-A

SITE ADDRESS
TBC
TBC

DESIGN PARAMETERS

WIND ZONE	H
SNOW ZONE	<1kPa
EARTHQUAKE ZONE	3
LOT #	--
DP	--

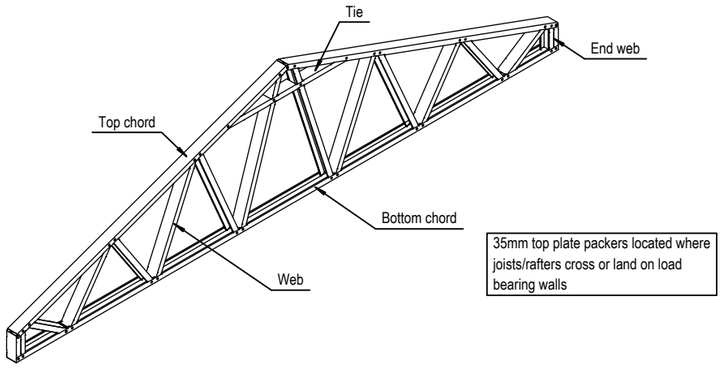
STEEL FRAME CONSTRUCTION PLANS

DETAILS - WALLS

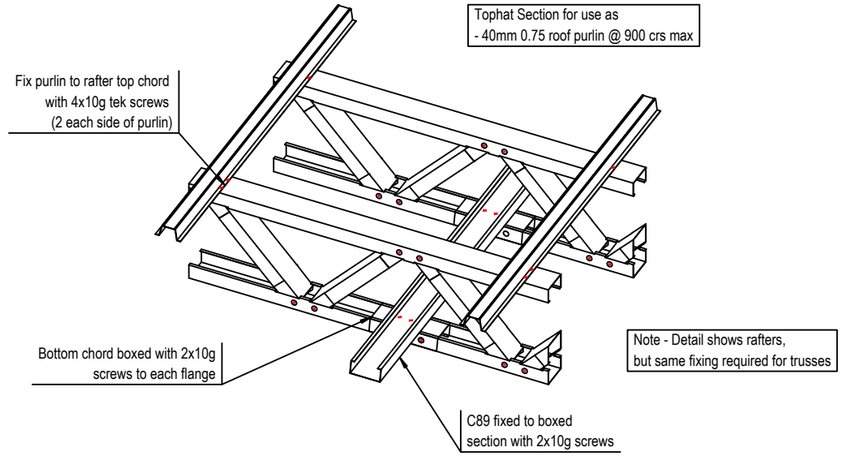
CONSTRUCTION	C03	REVISION
JOB NUMBER G-7.2x8-A	ISSUE DATE 07.03.2024	A
info@steelframeman.co.nz	DETAILER: CT	

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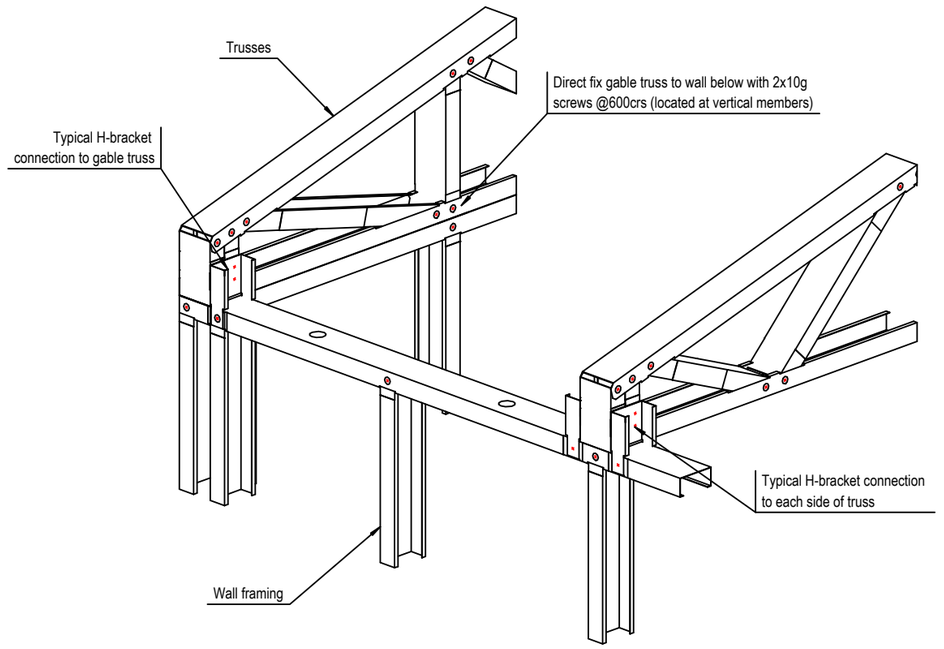
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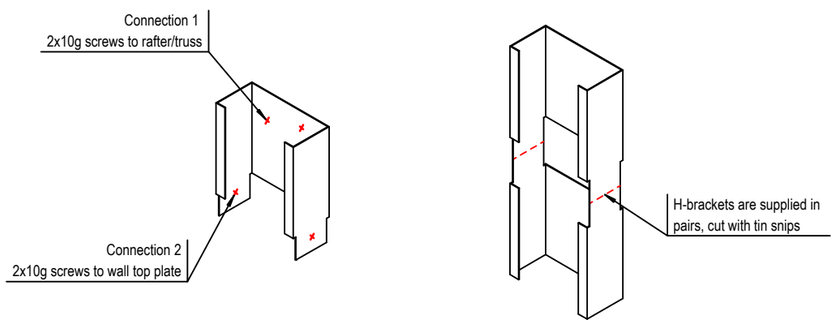
TRUSS FRAME TERMINOLOGY



BOTTOM CHORD RESTRAINT & PURLIN FIXING TYPICAL



TRUSS TO WALL DETAIL



H-BRACKET

PROPOSED NEW DESIGN FOR
G-7.2x8-A

SITE ADDRESS
TBC
TBC

DESIGN PARAMETERS

WIND ZONE	H
SNOW ZONE	<1kPa
EARTHQUAKE ZONE	3
LOT #	--
DP	--

STEEL FRAME CONSTRUCTION PLANS

DETAILS - ROOF

CONSTRUCTION	C04	REVISION
JOB NUMBER G-7.2x8-A	ISSUE DATE 07.03.2024	A
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