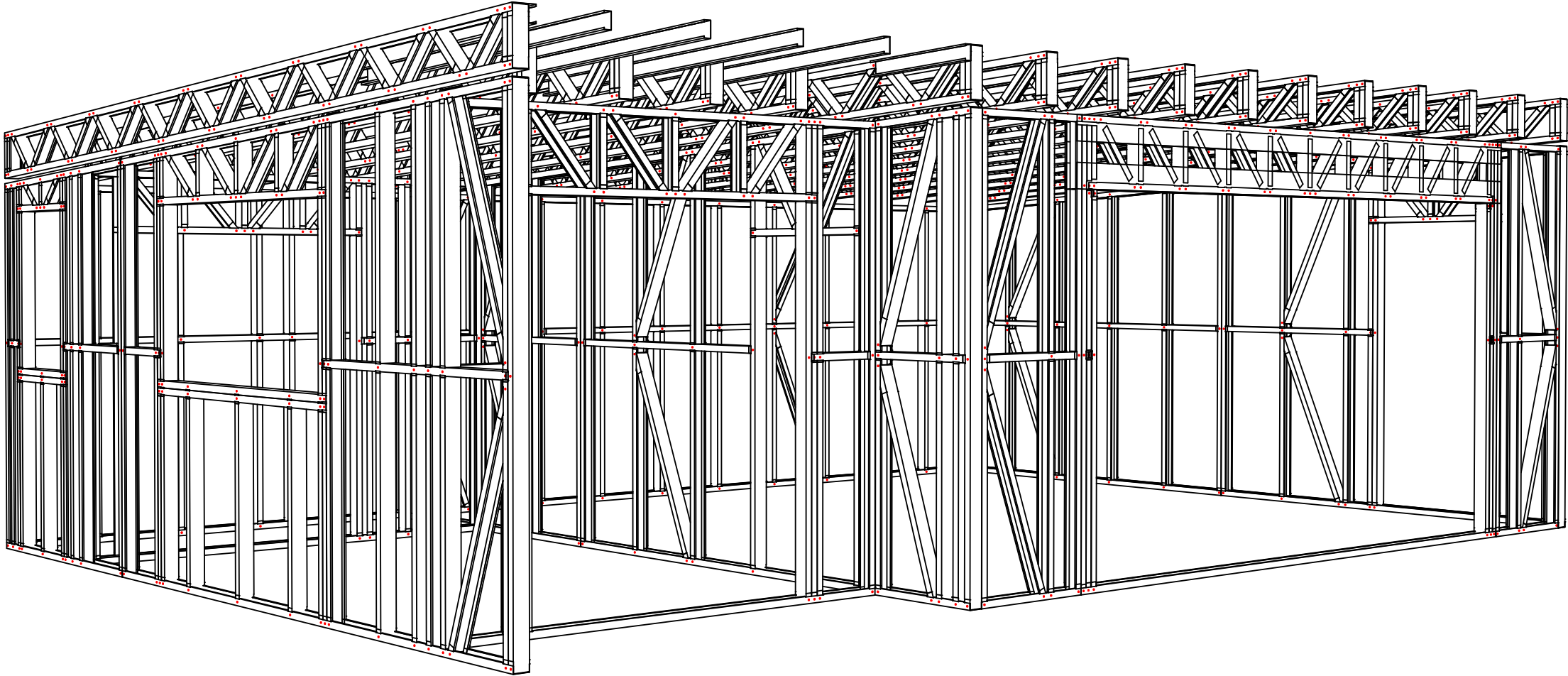
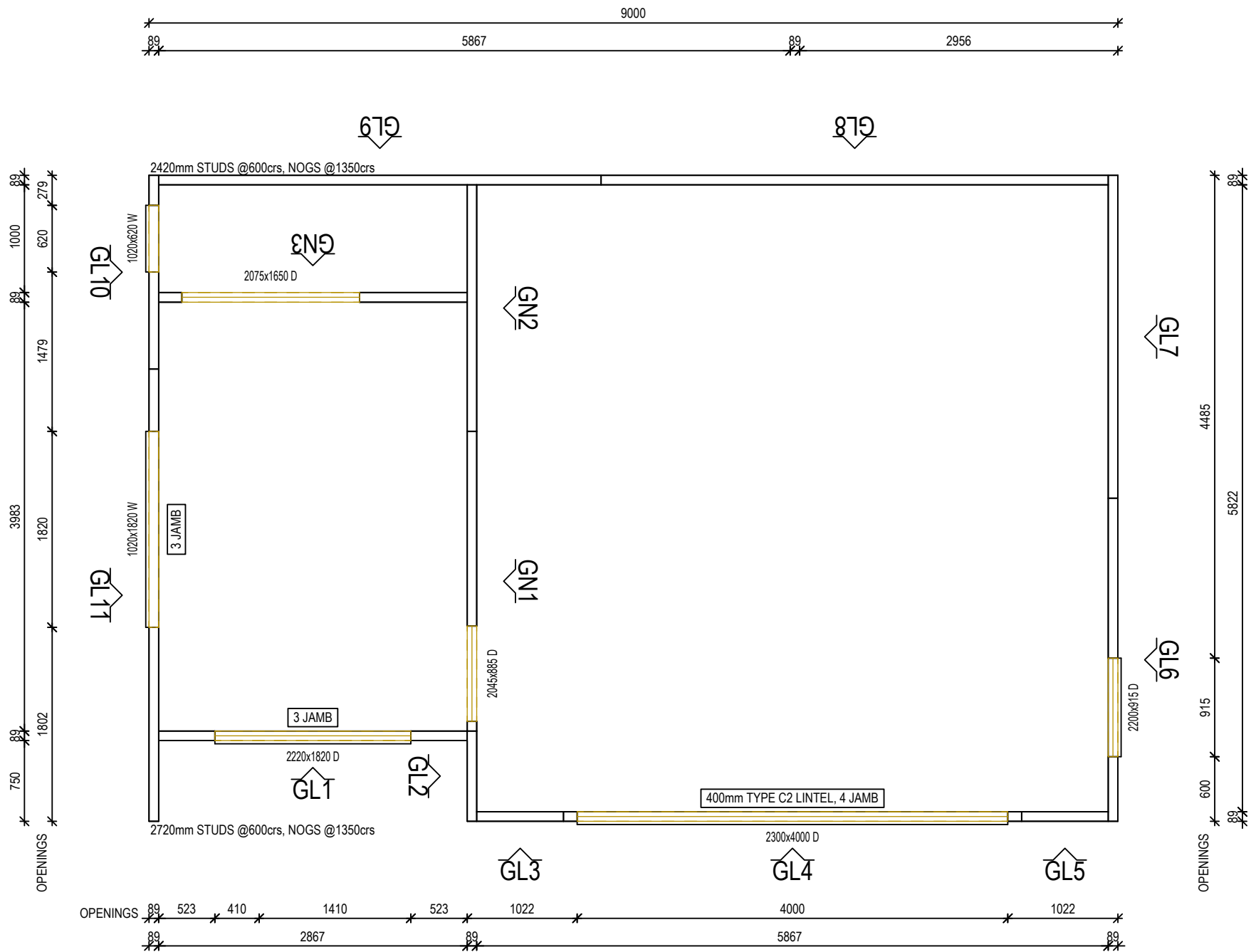






WALL FRAME NOTES

1. LOAD BEARING AND NON-LOAD BEARING WALLS INDICATED BY LABELS L AND N RESPECTIVELY

2. 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 11.11 and 11.13
All loadbearing lintels to be minimum 180mm Type A2 UNO
- Stud spacing and stud to plate connections in accordance with tables 7.4 and 7.5

3. TOP PLATE PACKERS NOT REQUIRED OVER NON LOADBEARING WALLS

READING THE WALL FRAME LAYOUT PLAN

WALL PANEL ORENTATION:

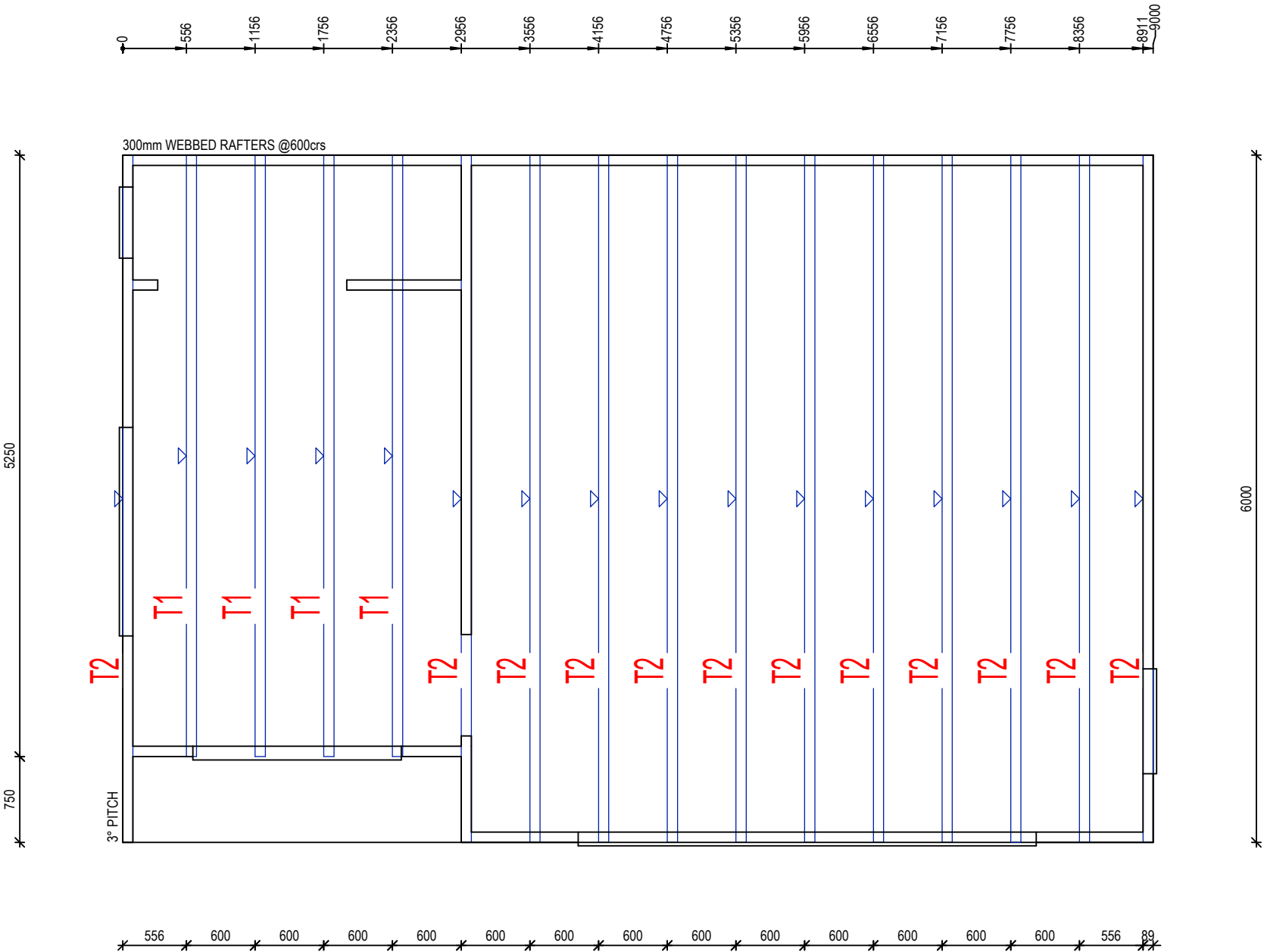
Each wall panel will have the frame code printed on one side of the frame and the Steel Frame Manufacturing Limited website printed on the other. The side with the frame code is the side that the label points to on the plan.

All external walls should have the frame code facing out.

STEELFRAMEMAN.CO.NZ

FRAME CODE

GL1



NOTES

1. RAFTER DESIGN IN ACCORDANCE WITH NASH STANDARD PART TWO: MAY 2019 UNLESS NOTED OTHERWISE
 - Rafters in accordance with table 11.3
2. TOP HAT PURLINS 40mm 0.75 @900crs MAX TO TOP CHORD OF RAFTERS
 - TOP HAT BATTENS 30mm 0.55 @600crs MAX TO BOTTOM CHORD OF RAFTERS
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.

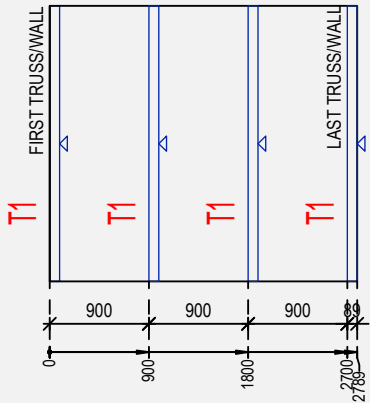
SUPPLY BY OTHERS

READING THE RAFTER 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
TBC

SITE ADDRESS
TBC
TBC

DESIGN PARAMETERS

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

STEEL FRAME CONSTRUCTION PLANS
ROOF FRAME LAYOUT

CONSTRUCTION

C02

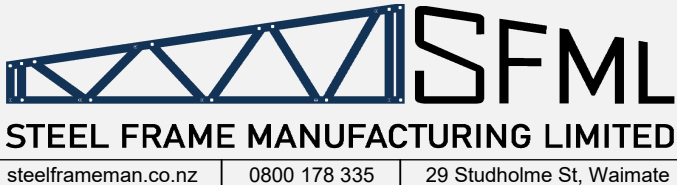
JOB NUMBER
G-6x9-A mirrored

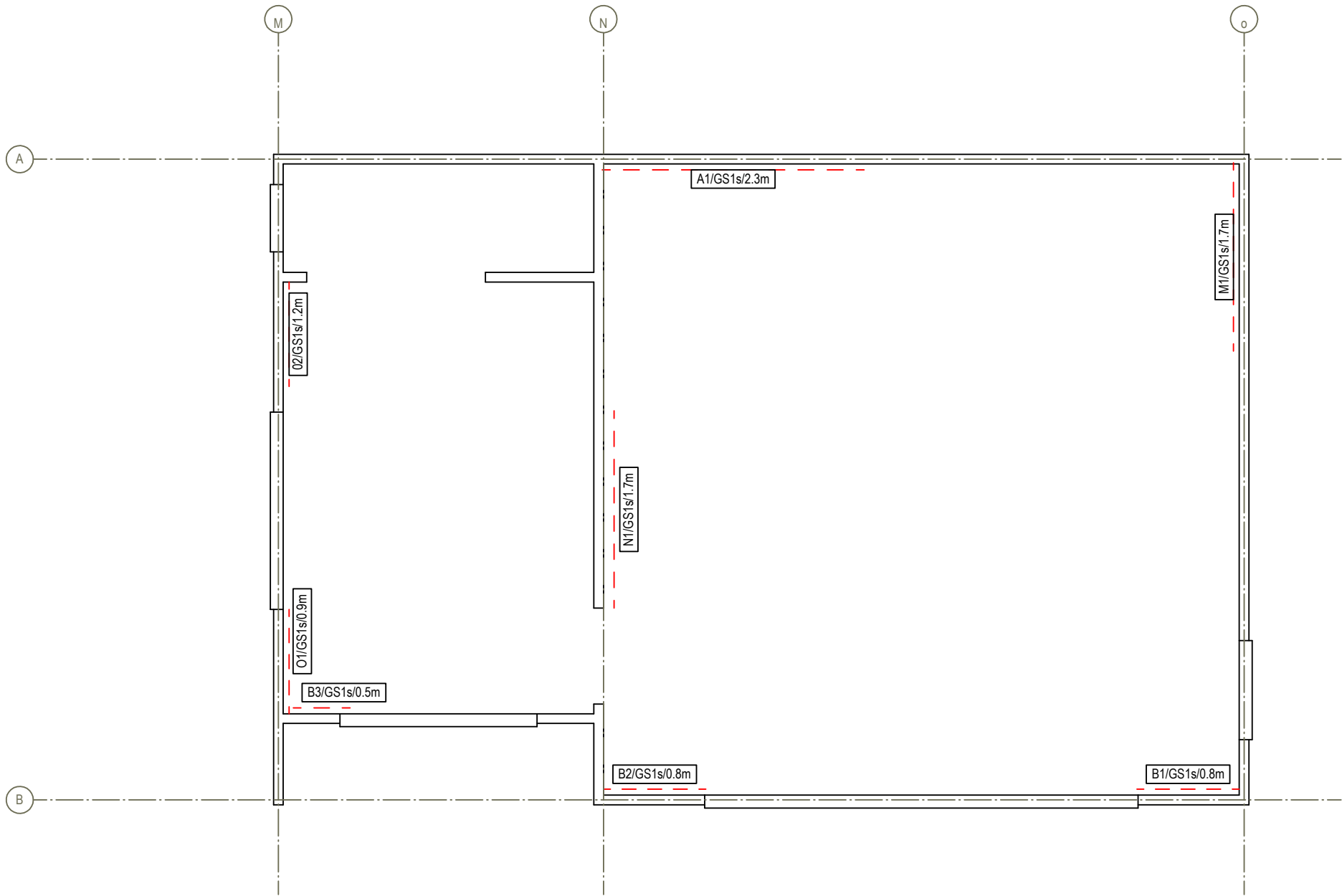
ISSUE DATE
16.09.2024

info@steelframeman.co.nz

DETAILER: CT

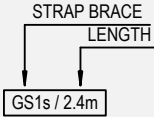
REVISION
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BRACING KEY

1. WALL BRACING ELEMENTS READ AS



INSTALL AS PER GIB EZYBRACE FOR LIGHT
STEEL FRAME SYSTEMS MARCH 2017
PRODUCT SUPPLY BY OTHERS

Line	Element	Length (m)	Stud Ht. (M)	Type
A	1	1.7	2.4	GS1s
B	1	0.5	2.7	GS1s
	2	0.8	2.7	GS1s
	3	0.8	2.7	GS1s

Line	Element	Length (m)	Stud Ht. (M)	Type
M	1	1.2	2.7	GS1s
	2	0.9	2.7	GS1s
N	1	1.7	2.7	GS1s
O	1	1.7	2.7	GS1s

PROPOSED NEW DESIGN FOR
TBC

SITE ADDRESS
TBC
TBC

DESIGN PARAMETERS

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

STEEL FRAME CONSTRUCTION PLANS

BRACING PLAN

CONSTRUCTION

C03

JOB NUMBER
G-6x9-A mirrored

ISSUE DATE
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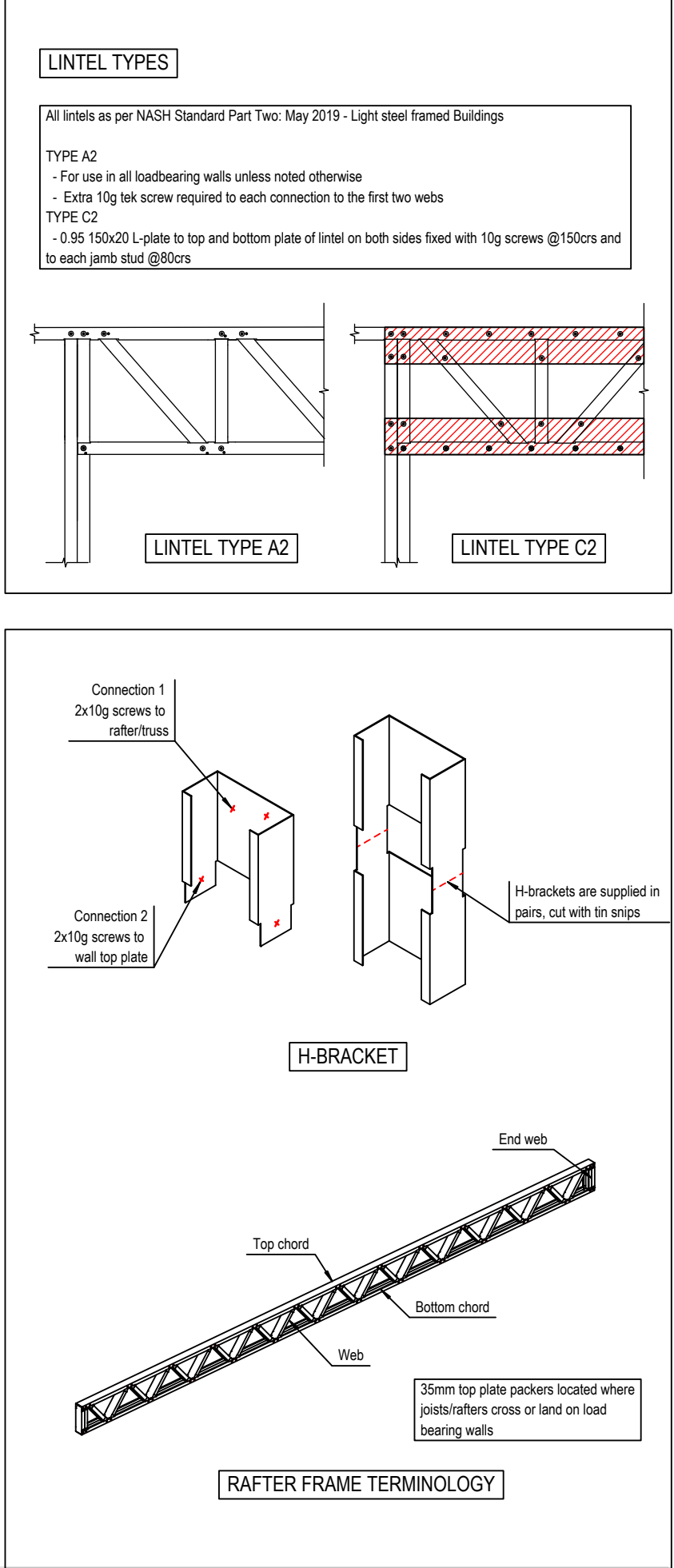
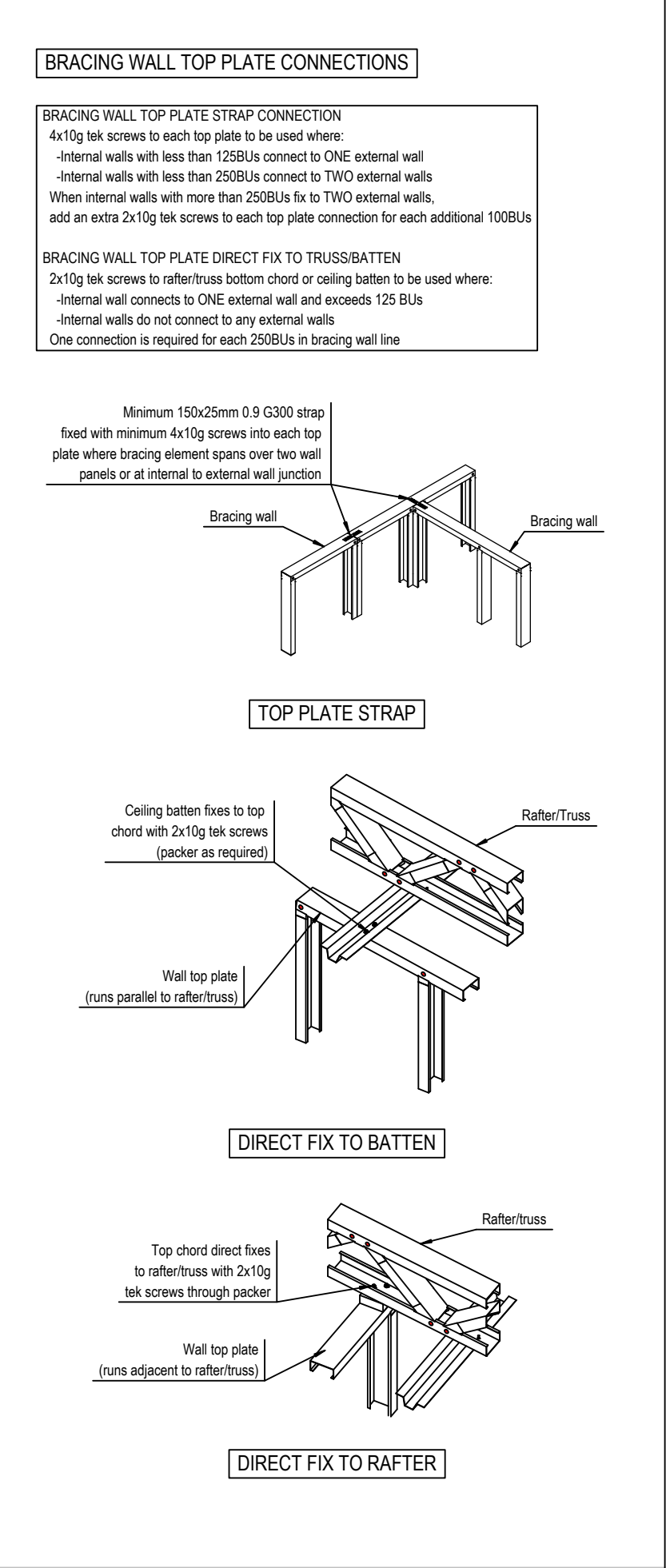
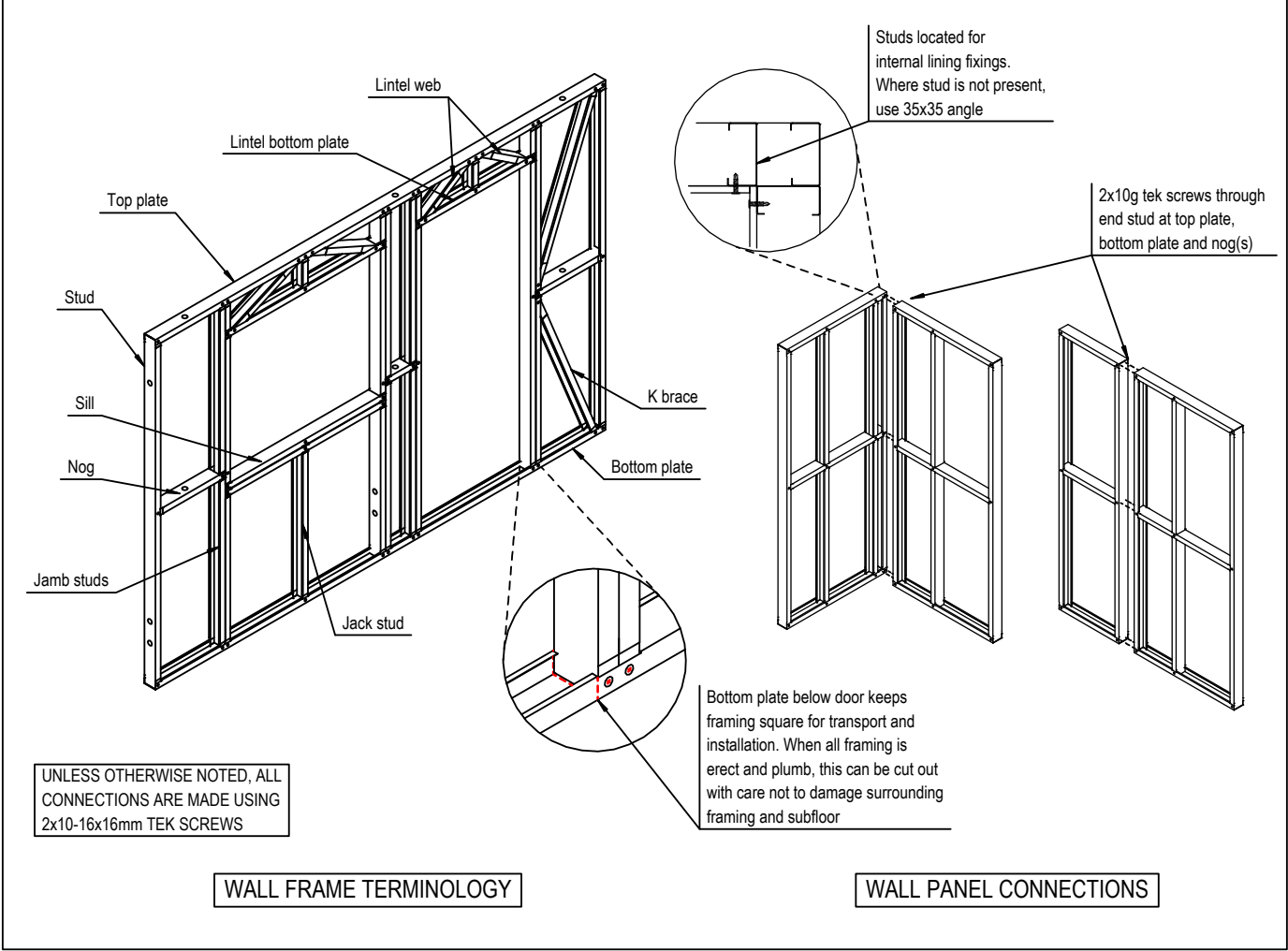
info@steelframeman.co.nz

DETAILER: CT

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SFML
STEEL FRAME MANUFACTURING LIMITED
steelframeman.co.nz | 0800 178 335 | 29 Studholme St, Waimate

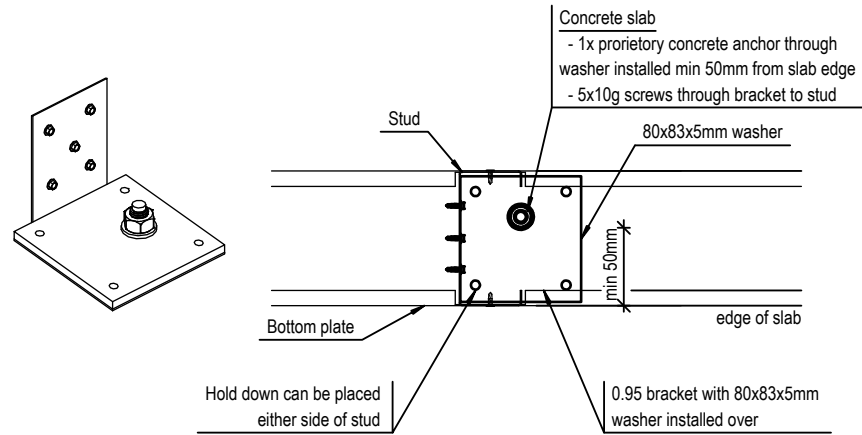


C89x41.3mm 0.75BMT LIPPED CEE SECTION PROPERTIES

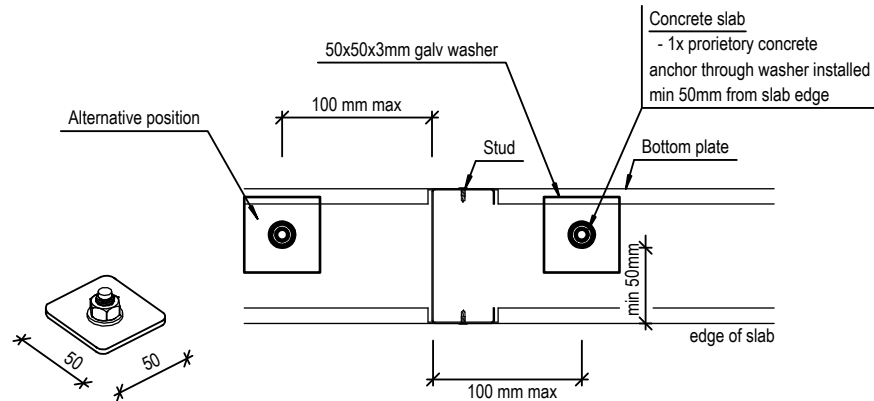
Name	S8975		
Grade	G550		
Coating	Z250		
Feed	mm	182.0	
Area	mm ²	136.5	
Mass	kg	1.072	
Yield Stress	fy	Mpa	550
Tensile Strength	fu	Mpa	550
Second Moment of Area	Ix	mm ⁴	174103
Second Moment of Area	Iy	mm ⁴	29996
Radius of Gyration	rx	mm	35.7
Radius of Gyration	ry	mm	14.8
Centroid Position	x	mm	12.6
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
Torsion 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

GROUND FLOOR (TO CONCRETE SLAB)
Hold down NASH TYPE E - 10kN - at each side of openings where 3 or more jamb studs are present - where four jamb studs are present, use 2x hold downs to each side of opening
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

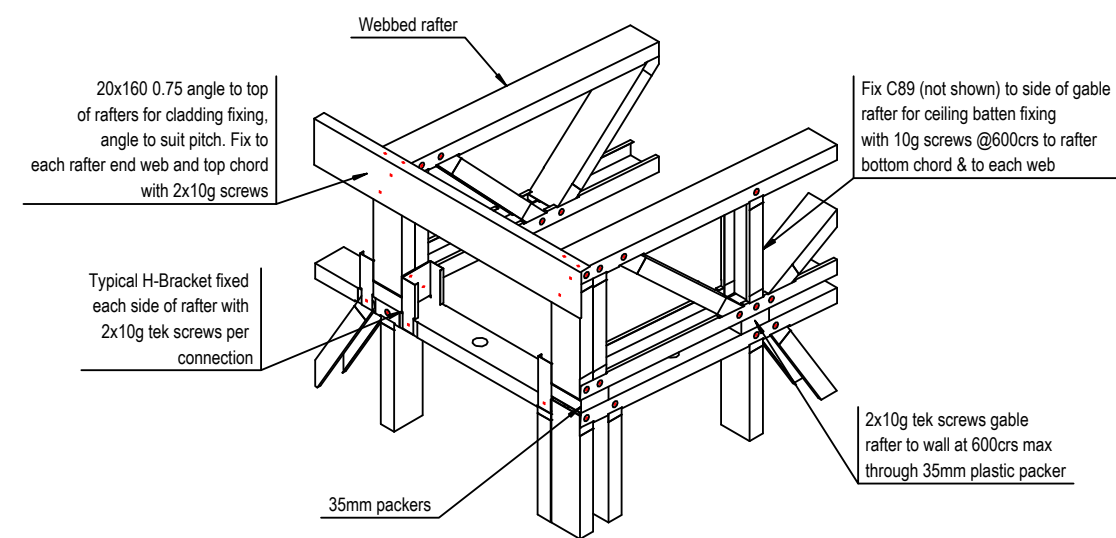
CONNECTION NOTES NASH Part 2 2019
All hold downs max 1200 crs (inclusive of bracing hold downs)
Bracing Hold downs - refer to Bracing system requirements and details
DURABILITY
SCREWS
Screws shall conform to AS 3566.2 with a minimum of class 3.
BRACKETS
Brackets shall be either hot-dipped galvanized complying to AS/NZS4680 Table 1 or mechanically galvanized to AS 1397.



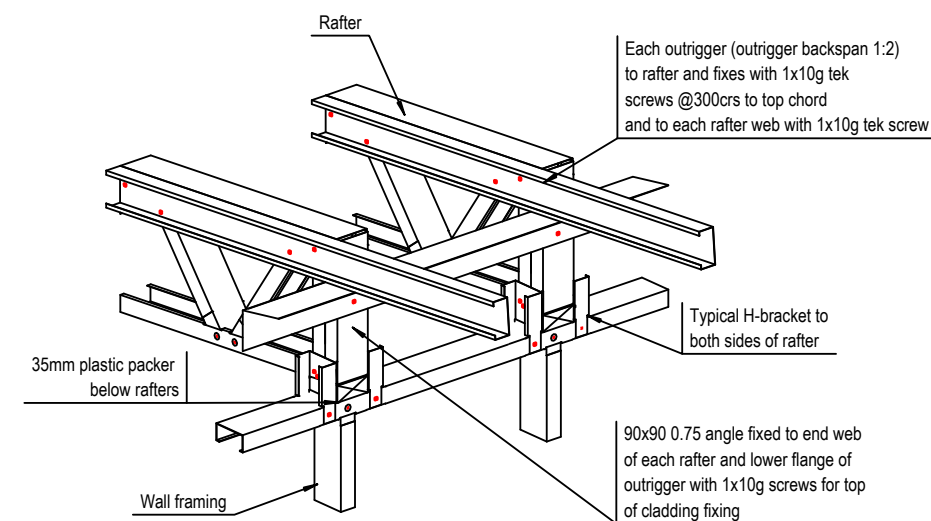
HOLD DOWN TYPE E- slab



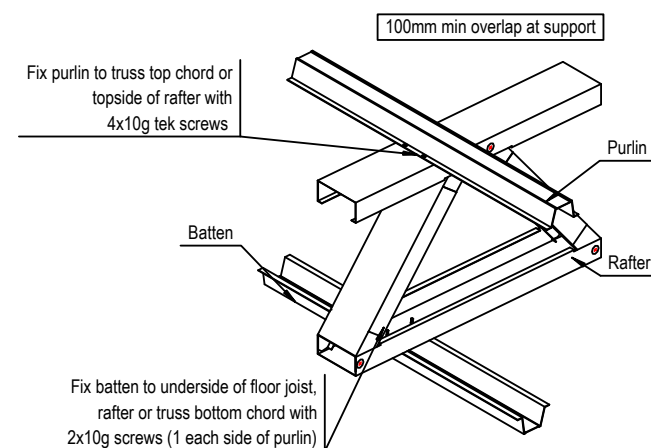
HOLD DOWN TYPE D - slab



RAFTER TO WALL



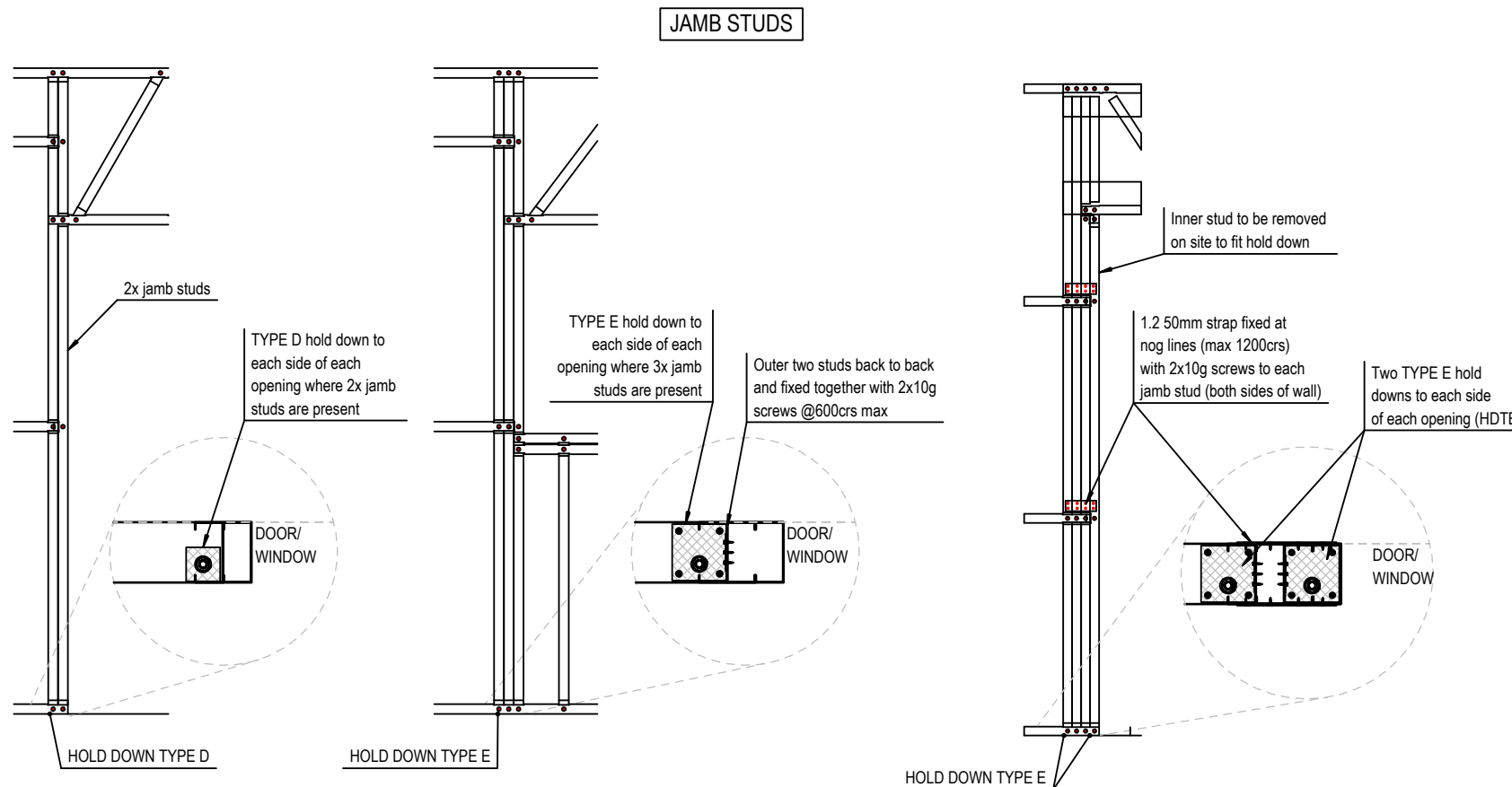
RAFTER TO WALL



PURLIN & BATTEN FIXING

Tophat Section for use as
- 40mm 0.55 roof purlin @ 900 crs max*
- 35mm 0.55 ceiling batten @ 600 crs max*
(to suit 13mm linings)

*Above are maximum spacings required for lateral restraint as per NASHSP2/2019. Refer to architectural product specifications for further spacing/fixing requirements for roof claddings and ceiling linings



TWO JAMB STUDS

THREE JAMB STUDS

FOUR JAMB STUDS

PROPOSED NEW DESIGN FOR
TBC

SITE ADDRESS
TBC
TBC

DESIGN PARAMETERS

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

STEEL FRAME CONSTRUCTION PLANS DETAILS - HOLD DOWNS

CONSTRUCTION

C05

JOB NUMBER
G-6x9-A

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