



METFRAME  
AUSTRALIA

# METFRAME AUST. PTY LTD - LIGHT GAUGE STEEL FRAME SPECIFICATION

PROPOSED RESIDENCE  
STREET ADDRESS  
SUBURB

NOT FOR CONSTRUCTION

REV	BY	ISSUE / REVISION DESCRIPTION	DATE	TITLE	PROJECT No.	CLIENT	<b>informed</b> engineering
0	RW	NOT FOR CONSTRUCTION	XX.XX.23	COVER PAGE	XXXXXX	METFRAME AUST. PTY LTD	
				APPROVED BY RUSSELL WHITE MIE Aust CPEng NER RPEQ RBP BPB	001 A3	PROJECT XXXXXX	
INFORMED ENGINEERING PTY LTD ABN 72641093656 PO BOX 4055, BALWYN EAST, VIC 3103							

**A. GENERAL NOTES:**

- THE DETAILING, BUILDABILITY AND PURPOSE OF THESE DRAWINGS SHALL BE CHECKED BY THE CLIENT AND THEIR BUILDER IN ORDER TO VERIFY AND DETERMINE THE PRACTICALITY OF THE DESIGN HEREIN. ANY ITEMS NOT CONFORMING WITH THE PROJECT ARCHITECTURAL PLAN SHALL BE REFERRED BACK TO THIS OFFICE PRIOR TO CONSTRUCTION
- USE OF THESE DRAWINGS CONFIRMS THAT THE CLIENT UNDERSTANDS THE DETAILS AND HAS THE RESPONSIBILITY TO PERFORM THE EXECUTION OF THE WORKS INVOLVED.
- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL PLANS AND OTHER CONSULTANTS WORKS AND/OR SPECIFICATIONS. ANY SUCH OTHER WRITTEN INSTRUCTIONS THAT MAY BE ISSUED DURING THE DEVELOPMENT OF THE PROJECT, SHALL REFER ALL DISCREPANCIES TO THE RELEVANT CONSULTANT FOR DECISION PRIOR TO PROCEEDING WITH THE WORK.
- DO NOT SCALE DIMENSIONS FROM THE STRUCTURAL DRAWINGS. DIMENSIONS SHOWN ON ALL DRAWINGS SHALL BE CHECKED AND VERIFIED ON SITE BY THE CLIENT.
- ALL REFERENCED STANDARDS TO BE THE CURRENT VERSION AT TIME OF CONSTRUCTION.
- ALL WORKS AND MATERIALS TO CONFORM WITH THE PROVISIONS OF THE NATIONAL CONSTRUCTION CODE AND IN ACCORDANCE WITH RELEVANT BUILDING STATE AUTHORITIES..
- DURING CONSTRUCTION, THE STRUCTURE SHALL BE MAINTAINED IN A SAFE AND STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED. TEMPORARY BRACING AND WORKS ARE TO BE AS PER BUILDERS DETAIL.
- THE ENGINEER MUST BE NOTIFIED IN WRITING OF ANY CHANGES TO THE PROPOSED CONSTRUCTION OR SITE PREPARATION IN ORDER TO MAKE NECESSARY CHANGES AS WARRANTED IN THE DESIGN. SUFFICIENT TIME SHALL BE AWARDED TO PROCESS ANY CLIENT SUPPLIED INFORMATION FOR VARIATION TO THE CONTRACT.

**B. FOOTINGS:**

- ALL WORKS & MATERIALS SHALL BE IN ACCORDANCE WITH AS 2870 AND CONFORM WITH THE NATIONAL CONSTRUCTION CODE.
- SUITABLE FOR CLASS A, S, M OR H SITES TO AS2870.
- ANY EXCAVATIONS NOT TO UNDERMINE FOOTINGS. IF UNDERMINING IS LIKELY TO OCCUR, CONTACT THE ENGINEER.
- FOOTINGS SHALL BE PLACED CENTRALLY UNDER COLUMNS UNLESS OTHERWISE NOTED.
- DRAINAGE SHALL BE CONSTRUCTED TO AVOID WATER PONDING AGAINST OR NEAR THE FOOTING, ROOF AND SURFACE WATER TO BE TAKEN AWAY FROM FOUNDATION AREA.
- IF ANY FOOTING IS LOCATED SUCH THAT A 45 DEGREE LINE (FOR CLAY AND 30 DEGREES FOR SAND) FROM ITS BASE INTERSECTS ANY UNDERGROUND SERVICE, THEN PIERS ARE REQUIRED TO BE EXTENDED.

**C. CONCRETE:**

- ALL WORKS AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600.
- REFER TO CONCRETE TABLE BELOW FOR TYPICAL VALUES.

LOCATION	CONCRETE	MIN COVER U.N.O (mm)
GROUND SLAB	N25/20/100	30 TYPICAL
		40 TOP (EXT.)
FOOTINGS	N25/20/100	50 TYPICAL
SUSPENDED SLAB	N32/20/80	30 TYPICAL
		20 BTM.

- ALL CONCRETE SHALL BE ADEQUATELY COMPACTED WHEN PLACED IN ACCORDANCE WITH AS3600.
- ALL CONCRETE SHALL BE CURED IN ACCORDANCE WITH AS3600. ALL CONCRETE SHALL BE CURED CONTINUOUSLY BY APPROVED METHODS AFTER PLACING.
- CONSTRUCTION JOINTS IN CONCRETE SHALL ONLY BE MADE WITH THE APPROVAL OF THE ENGINEER.
- ALL FORMWORK SHALL BE DESIGNED TO WITHSTAND ALL POSSIBLE LOAD COMBINATIONS DURING CONSTRUCTION.
- ALL GALVANIZED ITEMS WHICH ARE CAST INTO CONCRETE SHALL BE PASSIVATED IN ACCORDANCE WITH NCC.
- SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN POSITIONS SHOWN OR OTHERWISE TO THE APPROVAL OF THE ENGINEER.
- WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED, OTHER THAN TACK WELDING FOR PURPOSE OF MAINTAINING BARS IN CORRECT POSITIONS, UNLESS SPECIFICALLY NOMINATED ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER.
- REINFORCEMENT SYMBOLS:  
 N - DENOTES GRADE D500 HIGH STRENGTH DEFORMED BARS TO AS 4671.  
 R - DENOTES GRADE R250 HOT ROLLED PLAIN BARS TO AS 4671.  
 SL - DENOTES HARD-DRAWN WIRE SQUARE REINFORCING FABRIC TO AS 4671.  
 RL - DENOTES HARD-DRAWN WIRE RECTANGULAR REINFORCING FABRIC TO AS 4671.  
 L - DENOTES HARD-DRAWN WIRE TRENCH MESH TO AS 4671.  
 TM - DENOTES HARD-DRAWN WIRE TRENCH MESH TO AS 4671.  
 THE NUMBER IMMEDIATELY FOLLOWING THESE SYMBOLS IS THE BAR DIAMETER IN MILLIMETRES.
- MESH REINFORCEMENT TO BE LAPPED AT LEAST 2 PARALLEL WIRES PLUS 25mm. REINFORCEMENT SHALL BE PLACED WITH ACCURATE COVER AS NOTED.
- ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON PLASTIC CHAIRS GENERALLY AT NOT GREATER THAN 800 CENTRES IN ORDER TO MAINTAIN THE NOMINATED POSITION AND COVER. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS WITH WIRE TIES.

**D. STRUCTURAL STEELWORK:**

- ALL WORKS AND MATERIALS TO CONFORM WITH AS 4100 - STEEL STRUCTURES AS/NZS 4600 - COLD-FORMED STEEL STRUCTURES. ALL ALUMINIUM WORK TO AS1664. ALL WORK GENERALLY IN ACCORDANCE WITH THE NATIONAL CONSTRUCTION CODE AND ALL RELEVANT BUILDING STANDARDS AND CODES. ALL WORK ON THIS PROJECT SHALL BE UNDERTAKEN BY COMPETENT PERSONNEL. STEELWORK SHALL BE FABRICATED BY FABRICATORS CERTIFIED UNDER THE ASI 'NATIONAL STRUCTURAL STEELWORK COMPLIANCE SCHEME' (NSSCS) (see <http://www.sscacompliance.com.au/>).
- ALL STEELWORK SHALL BE TEMPORARILY BUT SECURELY BRACED, TO MAINTAIN THE STRUCTURE IN A SAFE AND STABLE CONDITION DURING CONSTRUCTION.
- MATERIALS USED FOR GROUTING UNDER STEEL BASE PLATES AND BEARING PLATES SHALL MEET THE REQUIREMENTS DEFINED IN AS/NZS 5131. MINIMUM GROUT STRENGTH (f'c) SHALL BE 30 MPa AND SHALL BE DRY PACK MORTAR RAMMED IN, APPROVED NON-SHRINK GROUT ARE ACCEPTABLE.
- ALL STRUCTURAL STEEL MATERIAL SHALL CONFORM TO THE FOLLOWING TABLE UNO:

COMPONENT	TO CONFORM TO AUST. STANDARDS	MIN GRADE
HOT ROLLED STEEL SECTIONS	AS/NZS 3679.1 TS102	300
PLATE	AS/NZS 3678 TS102	250
FLATS	AS/NZS 1594 TS102	300
HOLLOW SECTIONS	AS/NZS 1163 TS102	
CIRCULAR CHS		C350L0
SQUARE SHS		C350L0
RECTANGULAR RHS		C350L0
WELDED BEAMS & COLUMNS	AS/NZS 3679.2 TS102	300
SHEAR STUDS	AS/NZS 1554.2	380
QUENCHED/TEMPERED PLATE	AS/NZS 3597	690
PURLINS & GIRTS	AS/NZS 1397	450

- WELDING SHALL BE CARRIED OUT BY AN EXPERIENCED OPERATOR IN ACCORDANCE WITH THE PROVISIONS OF AS/NZS 1554.1. NON DESTRUCTIVE WELD EXAMINATION IS REQUIRED AND SHALL INCLUDE 100% VISUAL INSPECTION AND FURTHER ADDITIONAL TESTING AS STIPULATED IN AS/NZS 1554. ALL WELDS SHALL BE 6mm CFW SP CATEGORY U.N.O.
- MIN BOLTS SIZE SHALL BE M20 DIAMETER U.N.O. BOLT CATEGORY IS TO BE 8.8/S COMPLYING WITH AS 4100, AS/NZS 1252 & AS/NZS 4291.1. U.N.O. EVIDENCE OF COMPLIANCE WITH THESE CODES SHALL BE NOTED. ALL BOLTS, NUTS AND WASHERS SHALL BE HOT DIP GALVANISED TO AS/NZS 1214. ALL BOLTS, NUTS AND WASHERS, INCLUDING HOLD DOWN BOLTS, CAST-IN FERRULES AND MASONRY ANCHORS ARE TO BE HOT-DIP GALVANIZED UNLESS NOTED OTHERWISE. ALL GALVANISED COMPONENTS TO BE CAST INTO CONCRETE MUST BE PASSIVATED. A MINIMUM OF TWO THREADS SHALL EXTEND PAST THE NUT
- ALL DETAILING WHERE NOT SPECIFICALLY SHOWN SHALL BE IN ACCORDANCE WITH THE AUSTRALIAN STEEL INSTITUTE CURRENT EDITIONS OF THE 'DESIGN CAPACITY TABLES FOR STRUCTURAL STEEL' AND THE ASI STANDARDISED STRUCTURAL CONNECTION DETAILS CONTAINED THEREIN. PLATES ARE TO BE 12mm THICK, CUT FROM STANDARD FLAT BARS U.N.O. THE ENDS OF HOLLOW SECTION MEMBERS SHALL BE SEALED WITH NOMINAL THICKNESS PLATES AND CONTINUOUS SEAL WELDED UNLESS NOTED OTHERWISE. IF HOLLOW SECTIONS ARE TO BE HOT-DIP GALVANIZED, VENT AND DRAINAGE HOLES SHALL BE PROVIDED CONFORMING TO THE REQUIREMENTS.
- THE STEEL FABRICATOR SHALL PROVIDE THE ENGINEER WITH A COPY OF WORKSHOP DRAWINGS FOR CERTIFICATION AT LEAST 7 DAYS BEFORE FABRICATION IS STARTED. STEELWORK IS NOT TO BE FABRICATED UNTIL WORKSHOP DRAWINGS ARE APPROVED.
- ALL DIMENSIONS ARE MILLIMETRES U.N.O.
- UNLESS NOTED OTHERWISE, PROTECTIVE COATINGS FOR STEELWORK SHALL BE TREATED IN ACCORDANCE WITH NCC VOL. 2 TABLE 3.4.4.2 'PROTECTIVE COATINGS FOR STEELWORK'.
- ALL STRUCTURAL STEELWORK MEMBERS SHALL BE SUPPLIED IN A SINGLE LENGTH, EXCEPT WHERE OTHERWISE INDICATED WITH SPLICE LOCATIONS SHOWN ON THE STRUCTURAL DRAWING. SPLICES AT OTHER LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO FABRICATION COMMENCING.
- ALL MEMBERS HAVING A NATURAL CAMBER WITHIN THE STRAIGHTNESS TOLERANCE SHALL BE ERECTED WITH THE NATURAL CAMBER UP.
- ALL SITE TESTING OF POST-INSTALLED ANCHORS SHALL BE UNDERTAKEN ACCORDING TO THE REQUIREMENTS OF AEFAC TECHNICAL NOTE - SITE TESTING GUIDELINES VOLUMES 1 TO 4 (available at [www.aefac.org.au/resources](http://www.aefac.org.au/resources)).
- PROPRIETARY ITEMS (E.G. PURLINS, ROOF/WALL SHEETING, FERRULES) SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
- ALL CUTTING, HOLING AND SHAPING OF STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF AS/NZS 5131. PENETRATIONS OR CUT-OUTS OTHER THAN THOSE SHOWN ON THE DRAWINGS SHALL NOT BE MADE WITHOUT PRIOR APPROVAL
- ALL STRUCTURAL STEEL SHALL BE SOURCED FROM MILLS WITH A RELEVANT JAS ANZ ACCREDITED THIRD PARTY CERTIFICATION SCHEME SUCH AS THE ACRS SCHEME (see <http://steelcertification.com/>). ALTERNATIVE SOURCING OF THIRD PARTY CERTIFIED STRUCTURAL STEEL SHALL BE SUBMITTED FOR REVIEW AND MUST BE APPROVED PRIOR TO THE COMMENCEMENT OF PROCUREMENT.
- SITE TESTING SHALL BE PERFORMED ON MECHANICAL AND CHEMICAL ANCHORS TO VALIDATE CORRECT INSTALLATION (PROOF TESTING). A MINIMUM TEST SAMPLE POPULATION SHALL BE THREE SPECIMENS OR 2.5% OF THE TOTAL RELEVANT ANCHOR POPULATION, WHICHEVER IS GREATER. IF A SINGLE FAILURE IS RECORDED, THE MINIMUM TEST SAMPLE POPULATION SHALL BE INCREASED TO SIX TEST SPECIMENS OR 5% OF THE TOTAL RELEVANT ANCHOR POPULATION, WHICHEVER IS GREATER. IF TWO OR MORE TEST SAMPLES FAIL, ALL ANCHORS IN THE RELEVANT ANCHOR POPULATION SHALL BE TESTED.

**E. GENERAL DESIGN CRITERIA:**

- THE DESIGN SPECIFICATION IS ONLY SUITABLE FOR THE ADDRESS SHOWN IN THE TITLEBLOCK. THIS DESIGN SPECIFICATION IS SUITABLE FOR ONE BUILDING ONLY UNO. PLEASE CONFIRM WITH INFORMED ENGINEERING THAT THESE DRAWINGS HAVE BEEN APPROVED. THE NOTES MAY BE LIMITED IN NATURE AND THE STRUCTURES SUITABILITY MUST BE CONFIRMED AS THE LIMITATIONS CAN BE EXCEEDED. THIS DESIGN SPECIFICATION IS ADDRESS SPECIFIC AND IS NOT AUTHORISED TO BE USED AT ANY TIME FOR ANY LOCATION OTHER THAN THE STRUCTURE SPECIFIED ON THE CERTIFICATE OF COMPLIANCE. IF THE STRUCTURE IS MOVED OR THE GEOMETRICAL CONFIGURATION IS CHANGED THEN A NEW CERTIFICATION IS TO BE ISSUED. IF ANY OF THE SPECIFIED LIMITS ARE EXCEEDED THE ENGINEER IS TO BE CONTACTED BEFORE PROCEEDING.
- DESIGN LOAD ACTIONS (PERMANENT, LIVE, WIND) INCLUDED IN THE DESIGN OF THE STRUCTURE ARE DEFINED IN ACCORDANCE WITH THE FOLLOWING:  
 AS1170 PART 0 & 1 DEAD AND LIVE LOADS  
 AS1170 PART 2 WIND LOADS  
 AS1170 PART 4 EARTHQUAKE LOADS  
 AS4055 WIND LOADS FOR HOUSING
- 50 YEAR STRUCTURE DESIGN WORKING LIFE  
 WIND REGION A TERRAIN CATEGORY 2 IMPORTANCE LEVEL 2  
 ULT. LIMIT STATE WIND SPEED OF 45m/s  
 SERVICEABILITY LIMIT STATE WIND SPEED OF 37m/s

DESIGN COMPONENT	DESIGNATION	NOTES
WIND CLASS	N2 ASSUMED	IN ACCORDANCE WITH AS4055
ULT. LIMIT STATE WIND SPEED	40m/s	IN ACCORDANCE WITH AS4055
SERV. LIMIT STATE WIND SPEED	26m/s	IN ACCORDANCE WITH AS4055
AVERAGE STRUCTURE HEIGHT	6.5m MAX.	
ROOF CLADDING	STEEL SHEET	
WALL CLADDING	LIGHTWEIGHT SHEET	
EARTHQUAKE HAZARD FACTOR	0.08	IN ACCORDANCE WITH AS1170.4
LIVE LOAD - GROUND FLOOR	1.5kPa (GENERAL)	IN ACCORDANCE WITH AS1170.1
LIVE LOAD - SUSPENDED FLOORS	1.5kPa, 2.0kPa (BALCONY)	IN ACCORDANCE WITH AS1170.1
LIVE LOAD - ROOFS	0.25kPa UNO	IN ACCORDANCE WITH AS1170.1
DESIGNATION CONFIRMS THE MINIMUM DESIGN EFFECTS AND MAY DIFFER SUBJECT TO ENGINEERING REQUIREMENT		

**F. SPECIFICATION NOTES**

- COLD FORMED STEEL FRAMING WORKS (INCL. ROOF/WALL/FLOOR TRUSS FRAMING SYSTEMS)  
  
 ALL FRAMING SECTIONS TO BE MANUFACTURED FROM CONTINUOUS GALVANISED SHEET STEEL CONFORMING TO AS1397. ANY WELDING OF FRAMES SHALL BE BY THE METAL INERT GAS TECHNIQUE (MIG), CONFORMING TO AS 1554. CARE SHALL BE TAKEN AT ALL TIMES THAT FRAMES ARE NOT DAMAGED IN ANY WAY. ANY DAMAGE TO THE FRAMES' GALVANIZED COATING SHALL BE REPAIRED BY USING COLD GALVANIZING PRIMER. ALL FRAMES SHALL BE CHECKED ON SITE FOR COMPLIANCE WITH MANUFACTURER'S SPECIFICATION. CUTTING OR DRILLING INTO FRAMES OR MODIFICATION IN ANY WAY OTHER THAN AS SHOWN ON THESE PLANS SHALL ONLY BE DONE WITH THE EXPRESS AUTHORITY OF THE ENGINEER. HOLES FOR PLUMBING OR ELECTRICAL SERVICES MAY BE EITHER PLAIN HOLES OR FLANGED HOLES TO A MAXIMUM OF 50mm DIAMETER PROVIDED NOT MORE THAN 2 HOLES ARE EMPLOYED. THE HOLES CANNOT BE ADJACENT TO ONE ANOTHER AND MUST BE LOCATED WITHIN 100mm OFF END AND MIDSPAN POINTS OF THE STUD. SEATING FOR TRUSSES SHALL BE TRUE TO LINE AND LEVEL BEFORE ERECTION COMMENCES TO ENSURE EVEN, UNIFORM BEARING AND SUCH SEATINGS SHALL NOT BE LESS THAN 70mm MIN. IN LENGTH AND THAN THAT SHOWN ON THE DRAWINGS, WHICHEVER GREATER. WHERE SCREWS PROTRUDE BELOW BOTTOM OF TRUSSES, WAFFER HEAD TEKS ARE TO BE USED INSTEAD OF HEX HEAD TEKS. DIRECT FIX CEILING CLADDING TO TRUSSES SPACED AT 600CRS MAX. IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS. WINDOWS OR DOORS ARE NOT TO BE ATTACHED OR APPLY WIND LOADS TO HEADER SILL. ALL SIGNED DRAWINGS INDICATE THAT DRAWINGS ARE TO BE BUILT TO THE CORRESPONDING CERTIFIED SPECIFICATION PROVIDED. STUD HEIGHT IS MEASURED FROM FLOOR LEVEL TO CEILING RESTRAINT LEVEL. (U.N.O.). IF ANY OF THESE CRITERIA ARE EXCEEDED AND NOT MARKED ON THE ENGINEERS PLAN, REFER BACK TO THE ENGINEER FOR ADVICE PRIOR TO PROCEEDING
- ALL FABRICATION AND ERECTION OF STEELWORK TO BE IN ACCORDANCE WITH AS4100, AS4600 AND AS1664 FOR ALUMINIUM. REFER NASH STANDARD - DESIGN SOLUTIONS PART 2 FOR GUIDELINES FOR INSTALLATION (MANUALS). REPAIR ALL WELDS WITH COLD GALVANIZING PAINT. ALL COATINGS AND HARDWARE, BOLTS, SCREWS TO SUIT EXPOSURE CLASSIFICATION. ALL TIMBER WORKS AND MATERIALS ARE TO COMPLY WITH THE PROVISIONS OF AS 584 AND AS1720. IT IS THE RESPONSIBILITY OF THE CLIENT TO INFORM THE OWNER OF THE IMPORTANCE OF MAINTAINING EXTERNAL STRUCTURAL TIMBERS BY WAY OF PAINTING OR SIMILAR PROTECTION..
- SEAL ALL OPEN ENDS OF HOLLOW SECTIONS WITH 3PL SEAL CAP PLATES OR TO BUILDERS DETAILS. PROVIDE Ø5 DRAIN HOLE IN SEAL PLATES AS REQUIRED. REMOVE ALL SHARP EDGES AND BURRS.
- ALL DISSIMILAR METALS TO BE ISOLATED WITH LOAD-BEARING PLASTIC WASHERS, SPACERS AND SLEEVES TO BUILDER'S DETAILS.
- A COMPLIANCE INSPECTION OF THE AS-CONSTRUCTED PROJECT SHALL BE PERFORMED BY A REPRESENTATIVE OF THIS OFFICE, SHOULD A CERTIFICATE OF INSPECTION BE REQUIRED. ALL STRUCTURAL WORK MUST BE INSPECTED AND APPROVED IN WRITING. THE CLIENT IS FULLY RESPONSIBLE FOR ENSURING THAT SUCH INSPECTIONS ARE ARRANGED WITH AND CONDUCTED BY THE ENGINEER.
- ALL SHS/RHS/CHS HOLLOW SECTIONS TO BE G350 MIN UNO.
- THE DESIGN IS TO BE ERECTED STRICTLY IN ACCORDANCE WITH THE CERTIFIED SITE PLAN AND STANDARD DRAWINGS SUPPLIED BY THIS OFFICE. CONFORMITY WITH ALL STATUTORY OR LOCAL BUILDING AUTHORITY REGULATIONS IS THE BUILDER'S RESPONSIBILITY.
- CONTACT THE STRUCTURAL ENGINEER FOR PROPER ADVICE WHEN SURCHARGING OR UNDERMINING OF EXISTING STRUCTURES/SERVICES OCCURS ON THIS SITE (OR ADJACENT SITES).
- ANY EXISTING STRUCTURE IS TO BE BY OTHERS. ALL EXISTING ELEMENTS ARE TO BE DETERMINED AS STRUCTURALLY ADEQUATE IN ORDER TO CARRY THE IMPOSED LOADING OF THE PROPOSED STRUCTURES, BY A CERTIFIED PRACTICING ENGINEER. THIS DESIGN CERTIFICATION DOES NOT EXTEND TO CERTIFICATION OF EXISTING STRUCTURES.
- THE MEMBER SIZES SHOWN ON THIS DESIGN ARE THE MINIMUM SIZES DEEMED NECESSARY TO FULFILL THE INTENT OF THE STRUCTURAL DESIGN. REFER BACK TO THIS OFFICE SHOULD ANY ITEMS BE DEVIATED FROM DURING THE COURSE OF FABRICATION, ERECTION AND INSTALLATION.

REV	BY	ISSUE / REVISION DESCRIPTION	DATE
0	RW	NOT FOR CONSTRUCTION	XX.XX.23
INFORMED ENGINEERING PTY LTD ABN 72641093656 PO BOX 4055, BALWYN EAST, VIC 3103			

TITLE	PROJECT No.	CLIENT
SPECIFICATION	XXXXXX	METFRAME AUST. PTY LTD
APPROVED BY		PROJECT
RUSSELL WHITE	NTS 101 A3	XXXXXX
MIE Aust CPEng NER RPEQ RBP BPP		



# WALL FRAME FIXING CRITERIA AND SPECIFICATION

THE WALLFRAME SPECIFICATION IS BASED ON WIND REGION A, TC3 AND ROOF LOAD WIDTH (RLW) = 4.5m

SECTION	FASTENER (UNO)	SPACING	TIE DOWN AND ADDITIONAL NOTES
<b>1. BOTTOM PLATE</b>			
EXTERNAL	90x0.75 G550 STUD	NA	AND TO SUIT MANUFACTURER SPECIFICATION
INT. LOAD BEARING	90x0.75 G550 STUD	NA	
INT. NON LOAD BEARING	90x0.55 G550 STUD	NA	
<b>2. TOP PLATE</b>			
EXTERNAL	90x0.75 G550 STUD	NA	AND TO SUIT MANUFACTURER SPECIFICATION
INT. LOAD BEARING	90x0.75 G550 STUD	NA	
INT. NON LOAD BEARING	90x0.75 G550 STUD	NA	
<b>3. VERTICAL (STUDS) UP TO 2.75m STUD HEIGHT</b>			
EXTERNAL	90x0.75 G550 STUD	2/M6 Framing screws (each stud each end)	600cts MAX.
INT. LOAD BEARING	90x0.75 G550 STUD	2/M6 Framing screws (each stud each end)	600cts MAX.
INT. NON LOAD BEARING	90x0.75 G550 STUD	2/M6 Framing screws (each stud each end)	600cts MAX.
EACH STUD AT END OF K-BRACE (EXT.)	90x0.75 G550 STUD	2/M6 Framing screws (each stud each end)	600cts MAX.
EACH STUD AT END OF K-BRACE (INT.)	90x0.75 G550 STUD	2/M6 Framing screws (each stud each end)	600cts MAX.
EACH STUD AT END OF SINGLE STRAP BRACE (INT.)	90x0.75 G550 STUD	2/M6 Framing screws (each stud each end)	600cts MAX.
EACH STUD AT END OF SINGLE STRAP BRACE (EXT.)	90x0.75 G550 STUD	2/M6 Framing screws (each stud each end)	600cts MAX.
EACH STUD AT END OF DOUBLE STRAP BRACE (INT.)	90x0.75 G550 STUD	2/M6 Framing screws (each stud each end)	600cts MAX.
EACH STUD AT END OF DOUBLE STRAP BRACE (EXT.)	90x0.75 G550 STUD	2/M6 Framing screws (each stud each end)	600cts MAX.
<b>4. VERTICAL (STUDS) TO SIDES OF OPENINGS UP TO 2.75m STUD HEIGHT</b>			
1.3m MAX. WIDTH	90x0.75 G550 STUD	2/M6 Framing screws (each stud each end)	NA
3.3m MAX. WIDTH	2/90x0.75 G550 STUD	2/M6 Framing screws (each stud each end)	NA
4.8m MAX. WIDTH	3/90x0.75 G550 STUD	2/M6 Framing screws (each stud each end)	NA
4.8m MAX. WIDTH	89 x 3.5mm SHS	FULLY WELD EACH END	NA
<b>5. WINDOW SILL MEMBER</b>			
SILL MEMBER	90x0.75 G550 STUD	2/M6 Framing screws (each stud each end)	NA
<b>6. WINDOW HEAD WEBS AND VERTICALS (MIN 35° DIAGONAL SLOPE)</b>			
WEB MEMBER	90x0.75 G550 STUD	2/M6 Framing screws (each stud each end)	600cts MAX.
* HEAD DEPTH LESS THAN 250mm REQUIRES STEEL BEAM OR LINTEL PLATE SPECIFIED & FIXED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATION.			
<b>7. STUDS UNDER SILLS</b>	90x0.75 G550 STUD	2/M6 Framing screws (each stud each end)	600cts MAX.
<b>8. NOGGIN</b>	90x0.75 G550 STUD	2/M6 Framing screws (each stud each end)	1350cts MAX.
<b>9. BRACE</b>	90x0.75 G550 STUD	2/M6 Framing screws (each stud each end)	NA

## 10. FIXING TO MIN. 25MPa CONCRETE SLAB IN ACCORDANCE WITH AS3600, BOLTS TO BE MAX. 50mm FROM FACE OF STUD WEB.

PLACE ALL BOLTS IN DESIGNATED LOCATIONS PRIOR TO PROVIDING 1200mm SPACED BOLTS TYP.  
85mm CONCRETE SLAB WITH MIN 300mm DEEP THICKENING UNDER LOAD BEARING EXT. WALL IS THE MIN. ASSUMED THICKNESS

LOCATION	TIE DOWN UNO	ADDITIONAL NOTES
END OF FRAMES	1M10 RAMSET ANKASCREW, 50mm MIN EMBEDMENT.	FOOTING REQUIRED TO SUIT
LARGER OPENINGS CONTACT ENGINEER		BASEPLATE REQUIRED
STUDS UNDER TRUSS POINT LOADS	1M10 RAMSET ANKASCREW, 50mm MIN EMBEDMENT.	
ADJACENT SHS/RHS SECTIONS	2M12 RAMSET CHEMSET REO 502 PLUS TYP 8.8 GRADE THREADED ROD, 90mm MIN EMBEDMENT.	
OTHERWISE MAX. 1200mm SPACINGS *	1M10 RAMSET ANKASCREW, 50mm MIN EMBEDMENT.	

\* NO WASHER IS REQUIRED FOR FIXING OF INTERNAL NON LOAD BEARING WALLS. WASHERS ARE ALWAYS REQUIRED AT BOTH ENDS OF A BRACE OR ADJACENT TO AN OPENING.  
\*\* Ø14mm HOLE TYP. IN 50x3mm G300+ WASHER, MIN 50mm CONCRETE EDGE DISTANCE TO ALL BOLTS UNO.

## 11. FIXING TO STEEL FLOOR, UNO TEKS 50mm MAX. FROM FACE OF WEB, SPACED EVENLY ACROSS PLATE

TEKS TO BE PLACED MIN 15mm FROM ANY EDGE AND ADJACENT TEKS.  
STEEL JOIST MEMBER THICKNESS, 1.6mm BMT G450. STEEL TRUSS JOIST MEMBER THICKNESS, 0.95mm BMT G550  
PROVIDE TRIMMERS TO MATCH JOIST SIZE, BETWEEN JOIST MEMBERS, TO SUIT WALL BRACING WHEN FIXING REQUIRED BETWEEN JOIST SUPPORTS. REFER DETAILS FOR BRACE LOCATIONS, FIXING TO MANUFACTURERS SPECIFICATION

Location	TIE DOWN UNO	ADDITIONAL NOTES
END OF FRAMES	2x No 12-14 teks	600cts MAX. SPACING
<b>VERTICAL (STUDS) UP TO 2.75m STUD HEIGHT</b>		
EXTERNAL	2x No 12-14 teks	600cts MAX. SPACING
INT. LOAD BEARING	2x No 12-14 teks	600cts MAX. SPACING
INT. NON LOAD BEARING	2x No 12-14 teks	1200cts MAX. SPACING

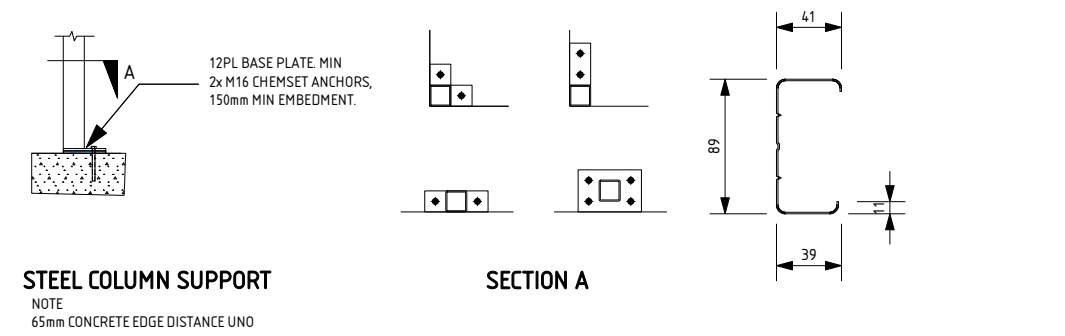
\* ADDITIONAL 30x0.8 PGI STRAP AND 6N\*12 TEK SCREWS. ENSURE MIN 3N\*12 TEKS IS THROUGH STRAP AND INTO THE UPPER FLOOR STUD.  
\* ADDITIONAL 30x0.8 PGI STRAP AND 6N\*12 TEK SCREWS. ENSURE MIN 3N\*12 TEKS IS THROUGH STRAP AND INTO THE UPPER FLOOR STUD.  
\* ADDITIONAL 30x0.8 PGI STRAP AND 6N\*12 TEK SCREWS. ENSURE MIN 3N\*12 TEKS IS THROUGH STRAP AND INTO THE UPPER FLOOR STUD.  
TEKS MAY BE SUBSTITUTED WITH No12 SERIES 500 TEKS FOR FIXING TO STEEL GREATER THAN 3mm THICKNESS  
NOTE LARGER OPENINGS REQUIRE SPECIFIC DETAILS, CONTACT ENGINEER

## 12. WALLFRAME JUNCTIONS

FIX FRAMES TOGETHER USING 2No 12-14 TEKS AT TOP, BOTTOM AND ALL NOGGIN PLATE LOCATIONS.  
ALT. AT TOP PROVIDE 150mm x 75mm x 1mm BMT PLATE. FIX WITH 4 No 12 TEKS.

## 12. LINTEL PLATE - MIN 1mm BMT G550 x 180mm MIN DEPTH.

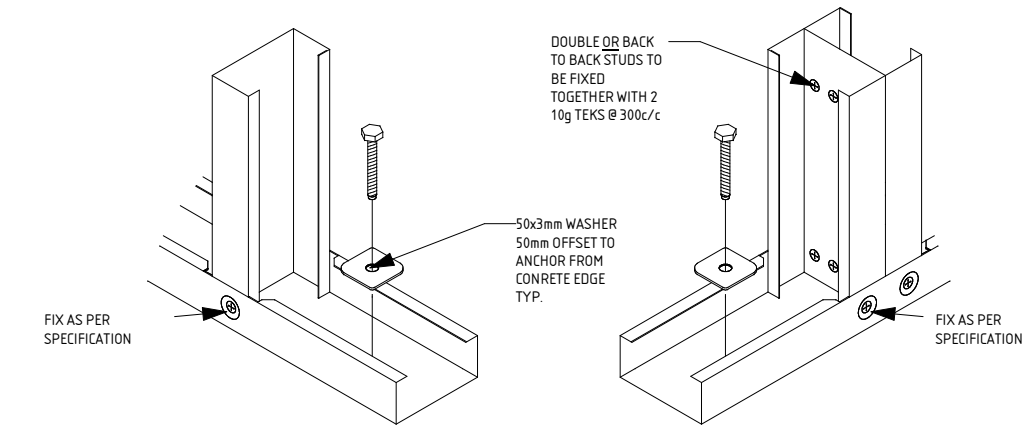
FIX LINTEL PLATE USING M6 TEK SCREW (PAN HEAD) OR No 10-16 TEK SCREW OR 2359NG GRIPSHANK SUPERSHARP NAILS AT 200mm MAX SPACINGS TO TOP PLATE LOCATIONS. ADDITIONAL 4x FASTENERS EVENLY SPACED PER VERTICAL AND WEB MEMBER.



STEEL COLUMN SUPPORT  
NOTE  
65mm CONCRETE EDGE DISTANCE UNO

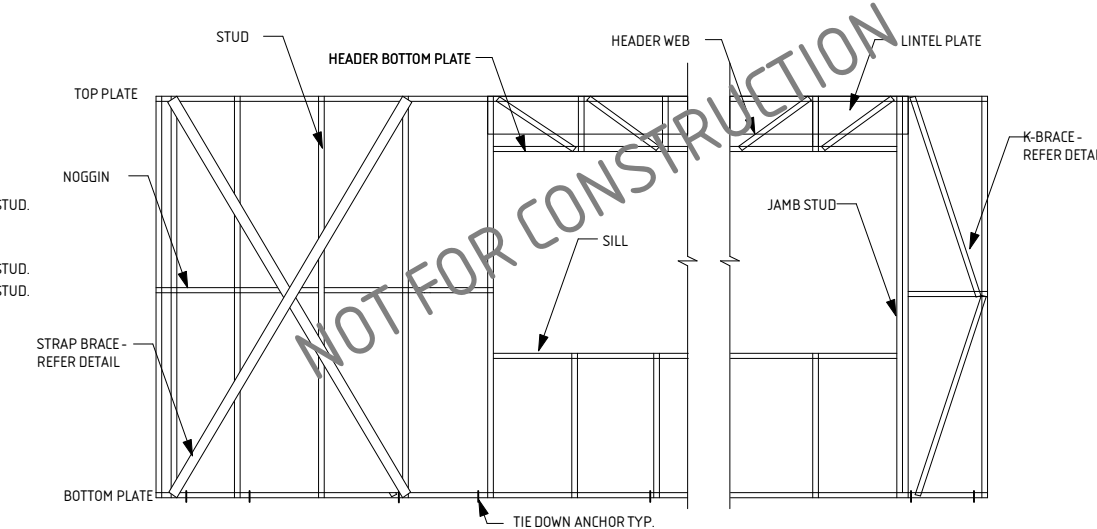
## 90mm WALL-FRAME MEMBER

NOTE: 0.55/0.75/0.95 BMT TO MANUFACTURERS SPECS



TYPICAL STUD

TYPICAL DOUBLE STUD



TYPICAL WALL FRAME DETAILS

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0	RW	NOT FOR CONSTRUCTION	XX.XX.23	WALL FRAME DETAILS	XXXXXX	METFRAME AUST. PTY LTD
				APPROVED BY	NTS 201 A3	PROJECT XXXXXX
				RUSSELL WHITE		
				MIE Aust CPEng NER RPEQ RBP BPB		
INFORMED ENGINEERING PTY LTD		ABN 72641093656	PO BOX 4055, BALWYN EAST, VIC 3103			



REFER TO AS 1684 AS A GUIDE TO SPACING REQUIREMENTS OF BRACE WALLS. BUILDING WIDTH/LENGTH TO BE CONFIRMED FROM WALLS THAT ARE FROM FULL WIDTH OF THE BUILDING BEING CONSIDERED. SPACING OF BRACE WALLS > 9000mm REQUIRES STRAP CEILING BRACING TO SUIT. EVEN DISTRIBUTION OF BRACING FORCES MUST BE MAINTAINED ACROSS THE BUILDING.

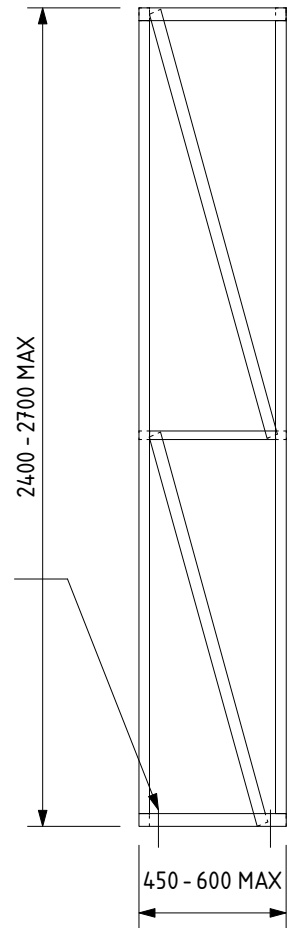
FOR A K BRACE REFER TO A WALL BRACE THAT EXTENDS ACROSS MINIMUM OF 1BAY, AVERAGE WALL FRAME HEIGHT 2.75m. MINIMUM MEMBER SIZE TO BE 90x0.75 STUD. REFER TO K BRACE DETAIL AND TABLE BELOW FOR NOMINAL BRACING CAPACITY.

FOR A STRAP BRACE REFER TO A WALL BRACE THAT EXTENDS ACROSS A MINIMUM OF 1200mm TO A MAXIMUM OF 3000mm, AVERAGE WALL FRAME HEIGHT 2.45m TO 2.75m. MINIMUM MEMBER SIZE TO BE 90x0.75 STUD. REFER TO STRAP BRACE DETAIL AND TABLE BELOW FOR NOMINAL BRACING CAPACITY. APPLY STRAP TENSIONER IN ACCORDANCE WITH MANUFACTURER'S SPECS.

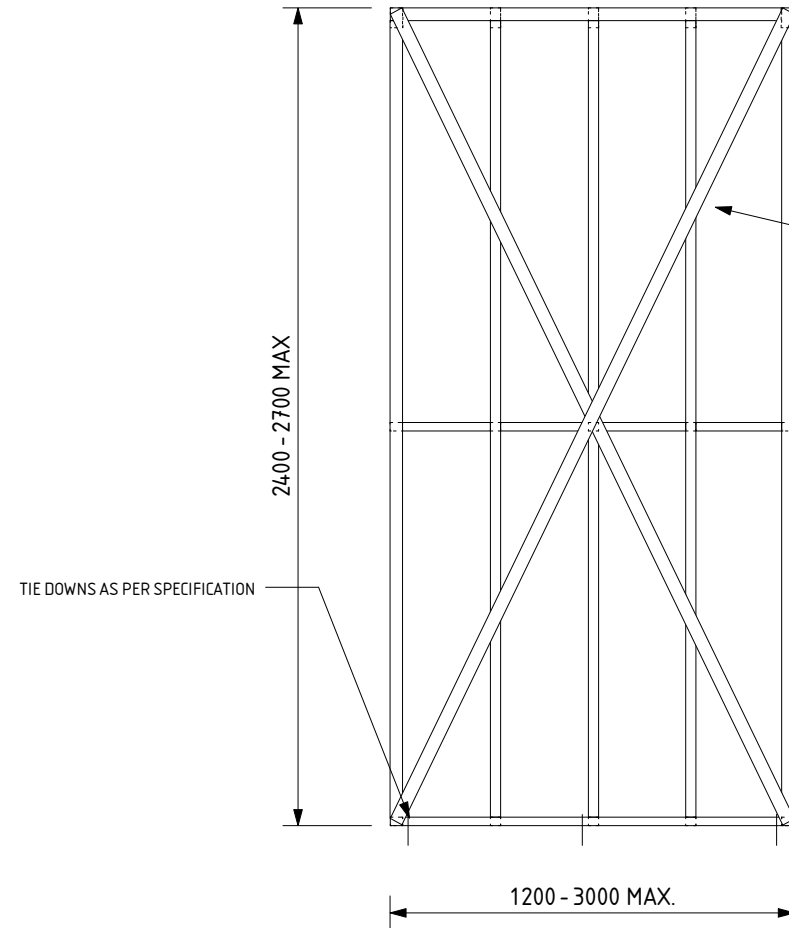
ALL VALUES ARE BASED ON CONNECTION CAPACITY INTO 25MPa CONCRETE (REFER TO WALL FRAMES SPECIFICATION). BUT VARIES TO SUIT LENGTH OF BRACE. SMALLER SPACING MAY BE ACCEPTABLE WHEN LOCATION IS MARKED ON THE ENDORSED PLANS. EDGE DISTANCE OFFSET FOR ANCHOR BOLTS MAY AFFECT TABULATED VALUES BELOW.

STUDS AT ENDS CAN BE USED AS JAMB STUDS.

PROVIDE BRACE WALL/CEILING CONNECTION DETAIL TO TRANSFER LOADS TO BRACE.



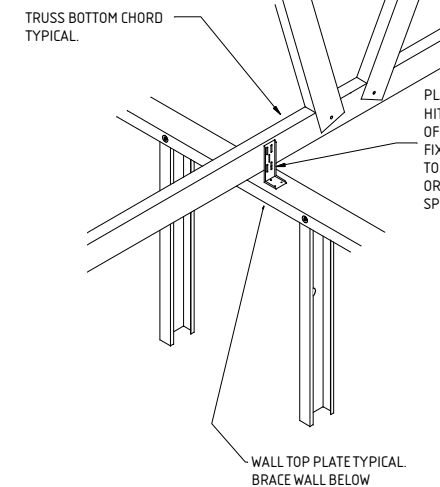
**K-BRACE DETAIL**



**STRAP BRACE DETAIL**

SINGLE STRAP OPTION COMPRISES 2x STRAPS TO ONE SIDE FACE OF WALL FRAME ONLY (2 TOTAL). DOUBLE STRAP OPTION COMPRISES 2x STRAPS TO EACH SIDE FACE OF WALL FRAME (4 TOTAL).

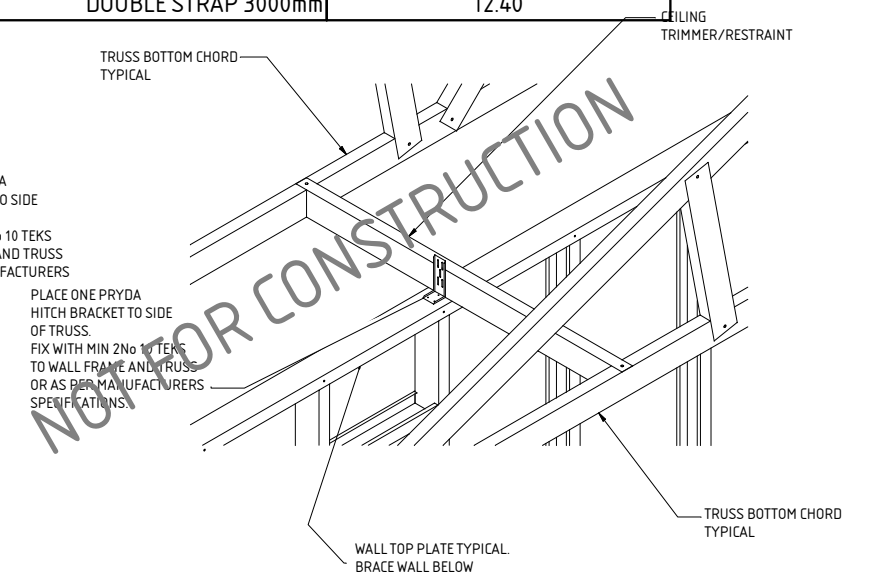
FIX EACH STRAP AT ENDS WITH 4No12 TEKS TO TOP/BOTTOM PLATE. PROVIDE 2No12 TEKS INTO SIDE OF WALL PLATE, BEND OVER AND FIX WITH 2No12 TEKS TO OTHER SIDE. ENSURE TAUT AFTER FIXING.



**BRACE WALL/CEILING DETAIL B**

NOTE  
PROVIDE 1 OF THESE CONNECTIONS PER K-BRACING WALL.  
PROVIDE 1 PER METRE AT ALL STRAP BRACE LOCATIONS.  
FOR TRUSSES PERPENDICULAR WITH BRACE WALLS BELOW.

TYPICAL BRACING VALUES (0.75mm BMT STUD)	
	Bracing Value (kN)
<b>2400mm HEIGHT</b>	
450mm BAY K-BRACE	1.85
600mm BAY K-BRACE	2.35
<b>2700mm HEIGHT</b>	
450mm BAY K-BRACE	1.65
600mm BAY K-BRACE	2.10
<b>2400mm HEIGHT</b>	
SINGLE STRAP 1200mm	4.10
SINGLE STRAP 3000mm	7.15
DOUBLE STRAP 1200mm	7.50
DOUBLE STRAP 3000mm	12.40
<b>2700mm HEIGHT</b>	
SINGLE STRAP 1200mm	3.70
SINGLE STRAP 3000mm	7.15
DOUBLE STRAP 1200mm	6.70
DOUBLE STRAP 3000mm	12.40



**BRACE WALL/CEILING DETAIL A**

NOTE  
PROVIDE 1 OF THESE CONNECTIONS PER K-BRACING WALL.  
PROVIDE 1 PER METRE AT ALL STRAP BRACE LOCATIONS.  
FOR TRUSSES PARALLEL WITH BRACE WALLS BELOW.

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BRACE WALL DETAILS	XXXXXX	METFRAME AUST. PTY LTD
APPROVED BY	PROJECT	
RUSSELL WHITE MIE Aust CPEng NER RPEQ RBP BPB	XXXXXX	

NTS	202	A3
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**informed**  
engineering

# ROOF TRUSS FIXING CRITERIA AND SPECIFICATION

THE SPECIFICATION IS BASED ON WIND REGION A, TC3 AND MAX. ROOF TRUSS SPACING OF 1200mm (SHEETED) & 900mm (TILED)

## TRUSSES

1. BOTTOM CHORD
2. TOP CHORD
3. WEBS AND VERTICAL WEBS

### SECTION

90x0.75 G550 STUD  
90x0.75 G550 STUD  
90x0.75 G550 STUD

### FASTENER (UNO)

2/M6 Framing screws (each stud each end)

### TIE DOWN AND ADDITIONAL NOTES

AND TO SUIT MANUFACTURER SPECIFICATION  
AND TO SUIT MANUFACTURER SPECIFICATION  
AND TO SUIT MANUFACTURER SPECIFICATION

- \* TRUSSES TO HAVE NODE POINT WITHIN 100mm OF EXTERNAL AND INTERNAL LOAD BEARING SUPPORT POINTS, MIN 70mm SEATING FOR ALL ROOF TRUSS MEMBERS.
- \* ALL FIXINGS, TEKS AND ANCHORS TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER SPECIFICATIONS
- \* ROOF BATTENS TO BE SPACED AT MAX. 900mm CTS FOR SHEETED ROOFS AND MAX. 330mm CTS FOR TILED ROOFS, AND TO SUIT MANUFACTURERS RECOMMENDATIONS.
- \* CEILING BATTENS TO BE SPACED AT MAX. 600mm CTS INTERNALLY AND MAX. 450mm CTS EXTERNALLY, AND TO SUIT MANUFACTURERS RECOMMENDATIONS. ALT. DIRECT FIX CEILING CLADDING TO TRUSSES SPACED AT 600CRS.
- \* GENERALLY, FIX 20/25mm x 0.42mm TOP HAT CEILING BATTENS TO TRUSS BOTTOM CHORD WITH MIN 2No10 TEKS, AND TO SUIT MANUFACTURERS RECOMMENDATIONS.
- \* GENERALLY, FIX 40mm x 0.55mm TOP HAT ROOF BATTENS TO TRUSS TOP CHORD WITH MIN 2No12 TEKS, AND TO SUIT MANUFACTURERS RECOMMENDATIONS. NO GREATER THAN 600mm CTS UNDER ANY ROOF MOUNTED HWJ.
- \* SEATING FOR TRUSSES SHALL BE TRUE TO LINE AND LEVEL BEFORE ERECTION COMMENCES TO ENSURE EVEN, UNIFORM BEARING
- \* MAX 25mm GAP BETWEEN WEBS.
- \* CUTTING OF TRUSSES OR MODIFICATION OF TRUSSES IN ANY WAY SHALL ONLY BE DONE WITH THE EXPRESS AUTHORITY OF THE ENGINEER.
- \* ALL TRUSSES SHALL BE CHECKED ON SITE FOR COMPLIANCE WITH MANUFACTURER'S SPECIFICATION.

## 4. FIXING TO ADJACENT MEMBERS

### LOCATION

JACK TRUSS TO GIRDER  
TRUSS TO WALL FRAME/BEAM SUPPORT  
RAFTER TO WALL FRAME/BEAM SUPPORT  
CEILING PANEL TO WALL FRAME/BEAM SUPPORT  
ROOF PANEL TO WALL FRAME/BEAM SUPPORT

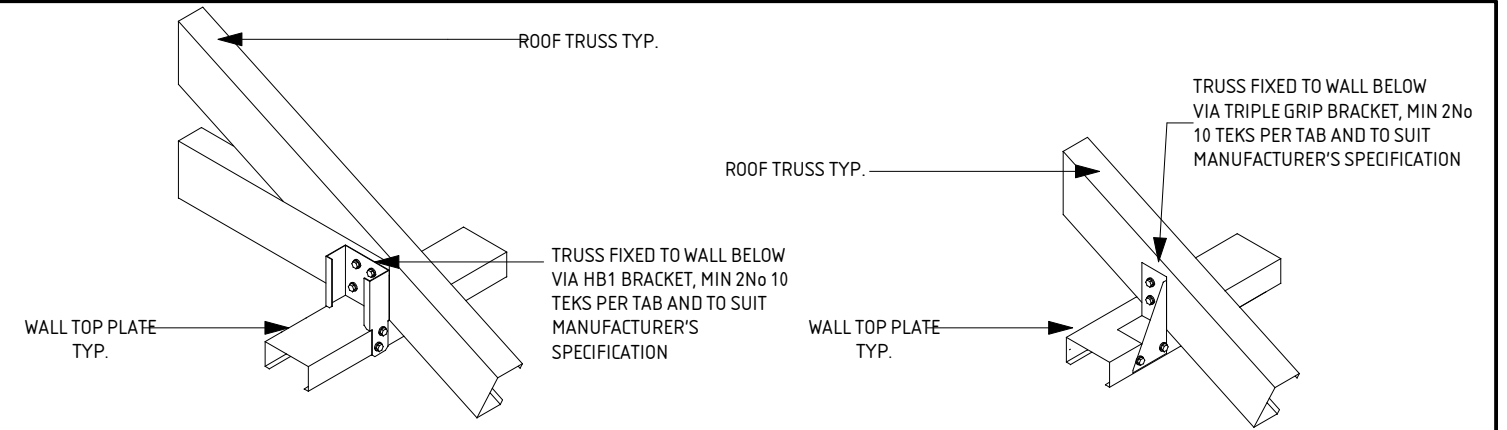
### FIXING UNO

MIN 4 No12 TEKS TO VERTICAL WEB, MAX 200mm CTS  
USE TRIPLEGRIP CONNECTOR OR EQUIVALENT, MIN 2 No12 TEKS PER TAB  
USE MULTIGRIP CONNECTOR, OR EQUIVALENT. 2 No12 TEKS PER TAB  
USE TWIST TIE CONNECTOR, OR EQUIVALENT. 4 No10 TEKS PER TAB  
USE TWIST TIE CONNECTOR, OR EQUIVALENT. 4 No12 TEKS PER TAB

- \* MIN EDGE DISTANCE FOR TEK SCREWS SHALL BE GREATER OF 3xDIAM OF SCREW AND 15mm.
- \* MIN CLEAR SPACINGS FOR TEK SCREWS SHALL BE GREATER OF 3xDIAM OF SCREW AND 15mm.

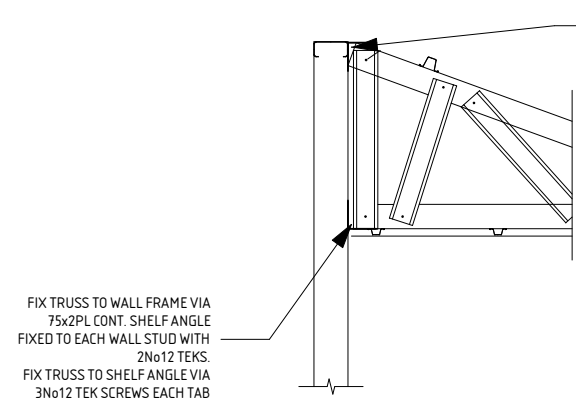
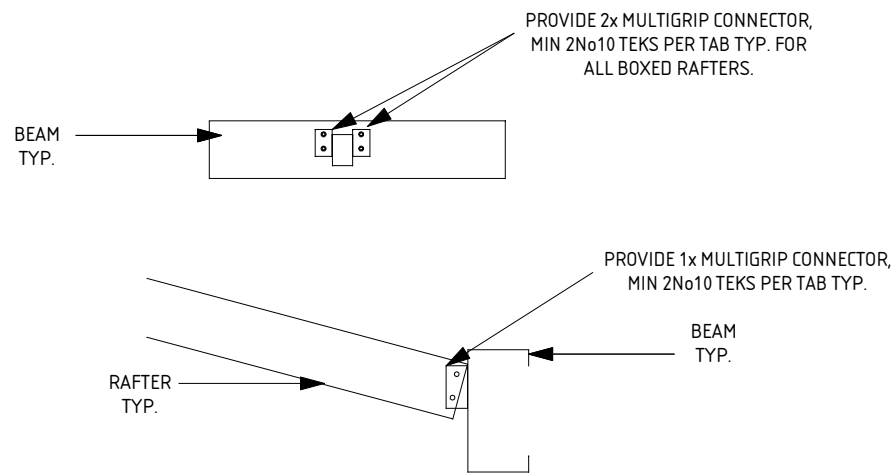
### ADDITIONAL NOTES

JACK TRUSS TO GIRDER 90°  
AND TO SUIT MANUFACTURER SPECIFICATION  
PROVIDE 2x MULTIGRIP CONNECTORS AT BOXED RAFTER  
MAX. 600CTS SPACING  
MAX. 600CTS SPACING

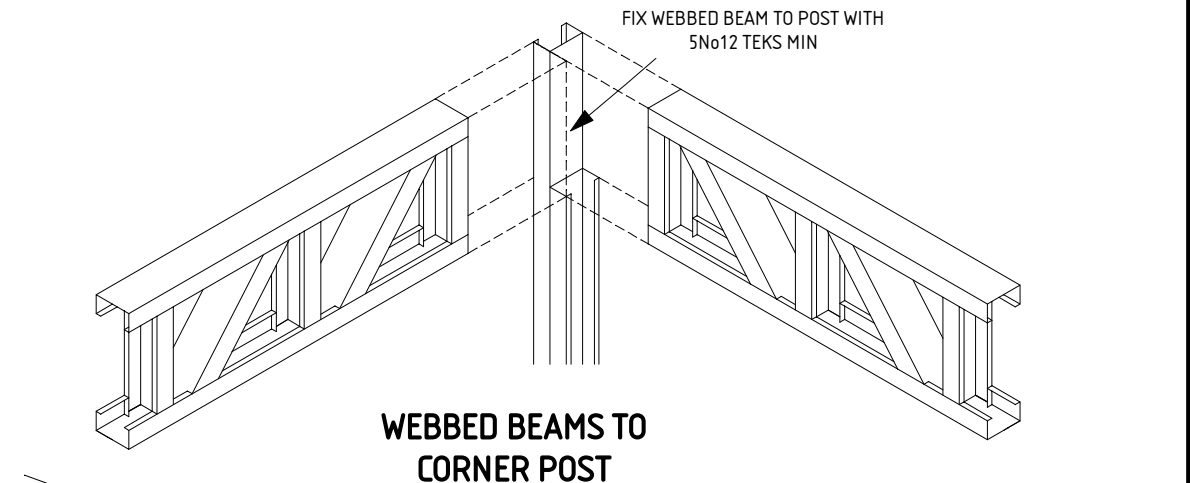


TRUSS TO WALL SUPPORT

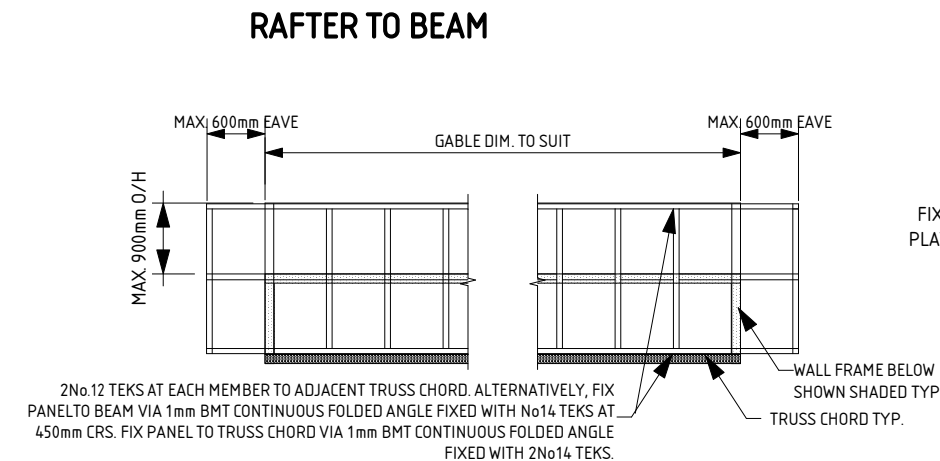
TRUSS/RAFTER TO WALL SUPPORT



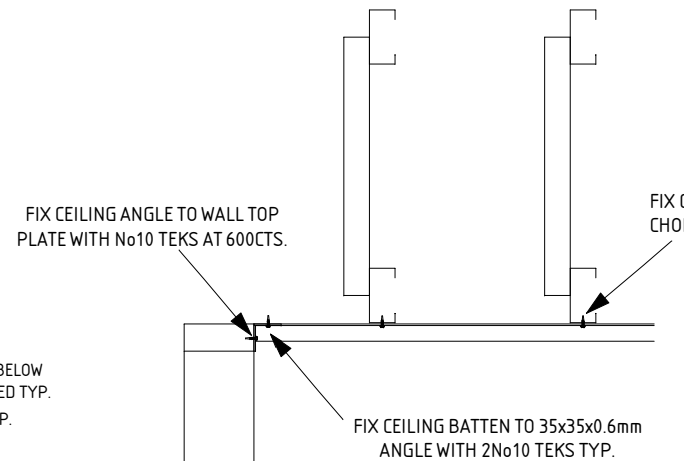
TRUSS TO WALL SUPPORT



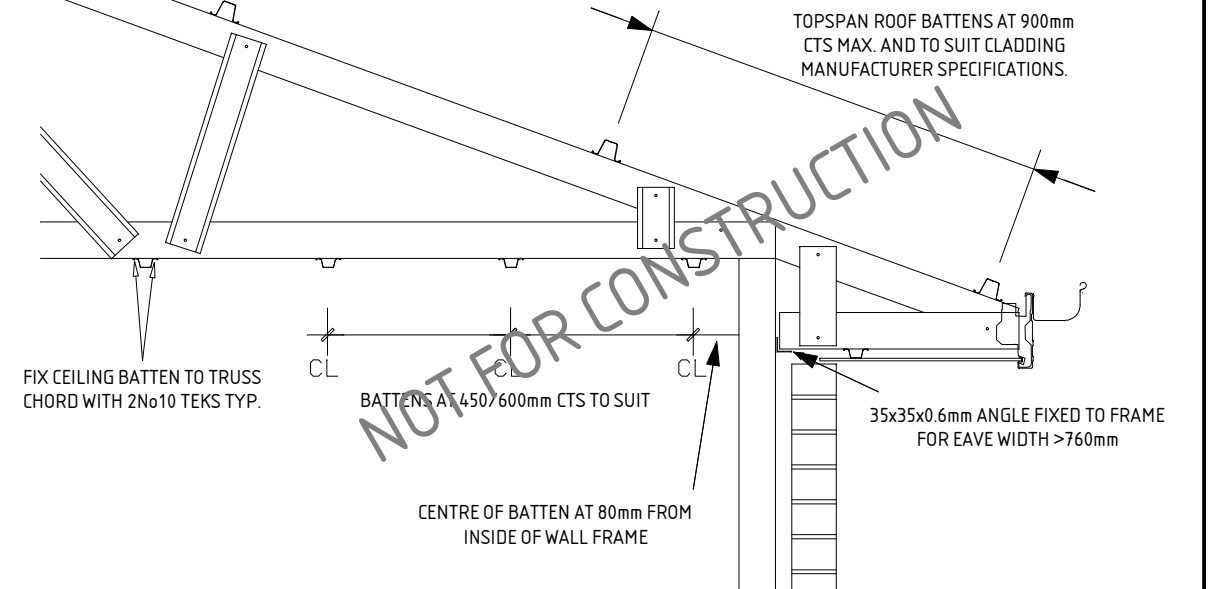
WEBBED BEAMS TO CORNER POST



RAFTER TO BEAM



CEILING BATTEN DETAILS



CEILING/ROOF BATTEN DETAILS

2No12 TEKS AT EACH MEMBER TO ADJACENT TRUSS CHORD. ALTERNATIVELY, FIX PANEL TO BEAM VIA 1mm BMT CONTINUOUS FOLDED ANGLE FIXED WITH No14 TEKS AT 450mm CRS. FIX PANEL TO TRUSS CHORD VIA 1mm BMT CONTINUOUS FOLDED ANGLE FIXED WITH 2No14 TEKS.

## TYPICAL GABLE OVERHANG FRAME

NOTE: STUD AT 450C/C MAX, OTHERWISE TO CLADDING MANUFACTURER'S REQUIREMENT.  
NOGGINGS AT 900CTS MAX.  
1800mm MAX PANEL WIDTH (TO SUIT MAX 900mm OVERHANG)  
MAX. 600mm EAVE WIDTH

LATERAL TRUSS CHORD RESTRAINTS PLACED AT 3000mm CTS.  
FIX OVER TRUSS BOTTOM CHORD WITH 2No10 TEK SCREWS.

LATERAL TRUSS CHORD RESTRAINTS PLACED AT 3000mm CTS.  
FIX OVER TRUSS BOTTOM CHORD WITH 2No10 TEK SCREWS.

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ROOF DETAILS	XXXXXX	METFRAME AUST. PTY LTD
APPROVED BY	PROJECT	
RUSSELL WHITE	XXXXXX	
MIE Aust CPEng NER RPEQ RBP BPB		





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# FLOOR TRUSS FIXING CRITERIA AND SPECIFICATION

THE SPECIFICATION IS BASED ON WIND REGION A, TC3 AND FLOOR TRUSS SPACING OF 600mm MAX

## TRUSSES

SECTION	FASTENER (UNO)	TIE DOWN AND ADDITIONAL NOTES
1. BOTTOM CHORD	MIN 90x0.95 G550 STUD	AND TO SUIT MANUFACTURER SPECIFICATION AND TO SUIT MANUFACTURER SPECIFICATION AND TO SUIT MANUFACTURER SPECIFICATION
2. TOP CHORD	MIN 90x0.95 G550 STUD	
3. WEBS AND VERTICAL WEBS	MIN 90x0.95 G550 STUD	

2/M6 Framing screws+ 2 No10 Tek Screws to Support Webs (each stud each end)

- \* TRUSSES TO HAVE NODE POINT WITHIN 100mm OF EXTERNAL AND INTERNAL LOAD BEARING SUPPORT POINTS, MIN 70mm SEATING FOR ALL FLOOR TRUSS MEMBERS.
- \* ALL FIXINGS, TEKS AND ANCHORS TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER SPECIFICATIONS
- \* FLOORING SHEETS TO BE FIXED TO TOP OF FLOOR TRUSS, TO SUIT MANUFACTURERS RECOMMENDATIONS.
- \* CEILING BATTENS TO BE SPACED AT MAX. 600mm CTS INTERNALLY AND MAX. 450mm CTS EXTERNALLY, AND TO SUIT MANUFACTURERS RECOMMENDATIONS. ALT. DIRECT FIX CEILING CLADDING TO TRUSSES SPACED AT 600CRS.
- \* GENERALLY, FIX 20/25mm x 0.42mm TOP HAT CEILING BATTENS TO TRUSS BOTTOM CHORD WITH MIN 2No10 TEKS, AND TO SUIT MANUFACTURERS RECOMMENDATIONS.
- \* SEATING FOR TRUSSES SHALL BE TRUE TO LINE AND LEVEL BEFORE ERECTION COMMENCES TO ENSURE EVEN, UNIFORM BEARING
- \* ENSURE JOIST TRUSS LOCATED DIRECTLY UNDER ALL PARALLEL WALLS OVER FOR FULL LENGTH OF WALL.
- \* MAX 25mm GAP BETWEEN WEBS.
- \* CUTTING OF TRUSSES OR MODIFICATION OF TRUSSES IN ANY WAY SHALL ONLY BE DONE WITH THE EXPRESS AUTHORITY OF THE ENGINEER.
- \* ALL TRUSSES SHALL BE CHECKED ON SITE FOR COMPLIANCE WITH MANUFACTURER'S SPECIFICATION.

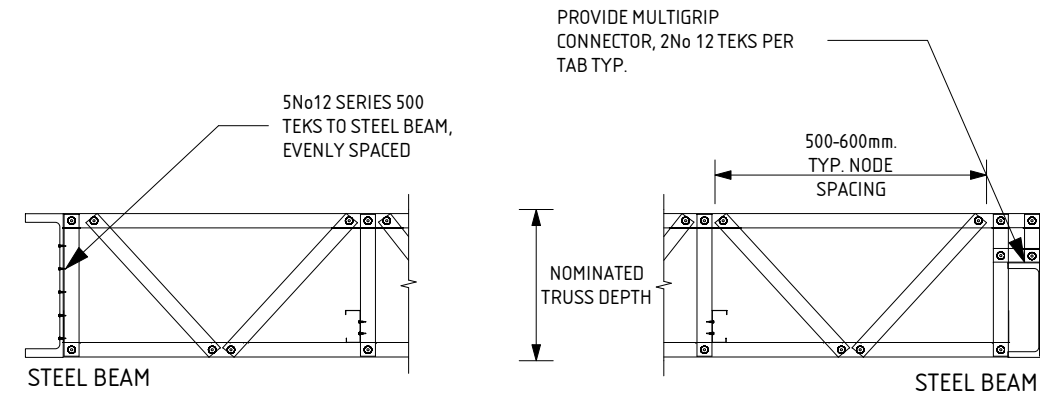
## 4. FIXING TO ADJACENT MEMBERS

LOCATION	FIXING UNO	ADDITIONAL NOTES
FLOOR TRUSS TO SUPPORT WALL/BEAM	USE TRIPLE GRIP OR MULTIGRIP CONNECTOR, OR EQUIVALENT. 2 No12 TEKS PER TAB	AND TO SUIT MANUFACTURER SPECIFICATION
FLOOR TRUSS TO FLOOR TRUSS	USE MIN 4 No12 TEKS VIA 35x1mm ANGLE FULL HEIGHT OF TRUSS	

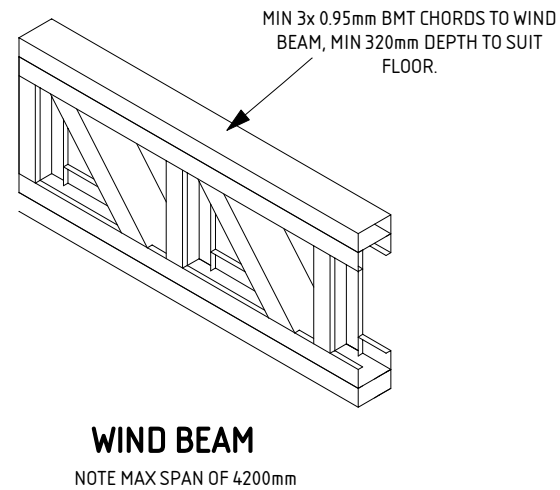
- \* MIN EDGE DISTANCE FOR TEK SCREWS SHALL BE GREATER OF 3xDIAM OF SCREW AND 15mm.
- \* MIN CLEAR SPACINGS FOR TEK SCREWS SHALL BE GREATER OF 3xDIAM OF SCREW AND 15mm.

## 5. LIVE LOADS (RESIDENTIAL DWELLING TYP.)

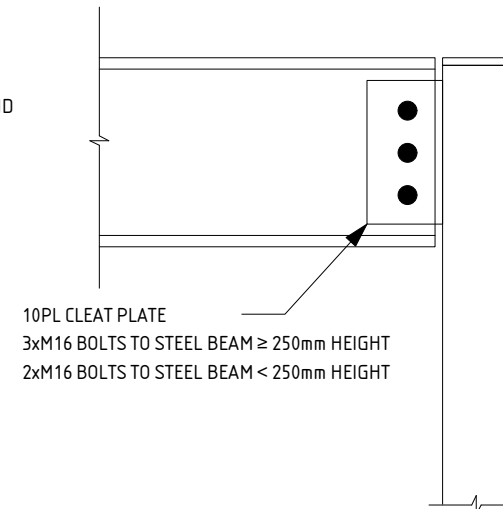
LOCATION	LOADING UNO
SUSPENDED RESIDENTIAL FLOOR	1.5kPa, 1.8kN
STAIRS/LANDINGS	2.0kPa, 2.7kN
BALCONIES > 1.5m ABOVE GROUND	2.0kPa, 1.8kN



TYPICAL TRUSS TO STEEL BEAM CONNECTION



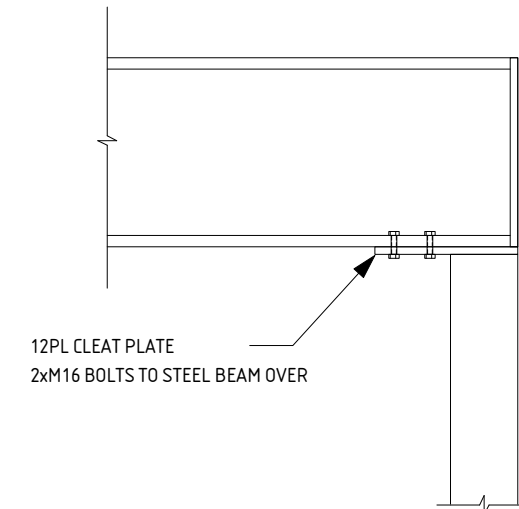
TYPICAL TRUSS TO WALL TOP PLATE CONNECTION



STEEL TO STEEL COLUMN SUPPORT

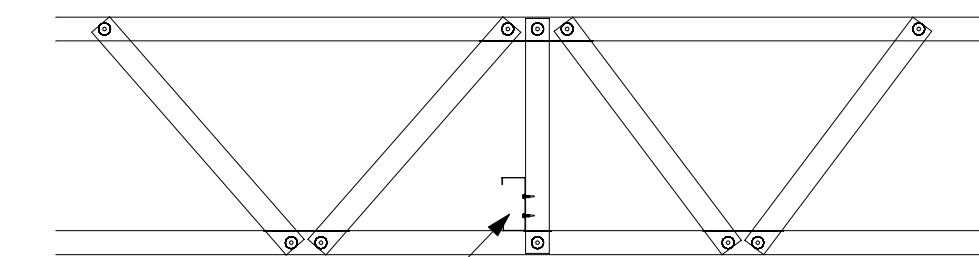
NOTE 10PL CAP PLATE TYP.

ALT. TYPICAL TRUSS TO WALL TOP PLATE CONNECTION



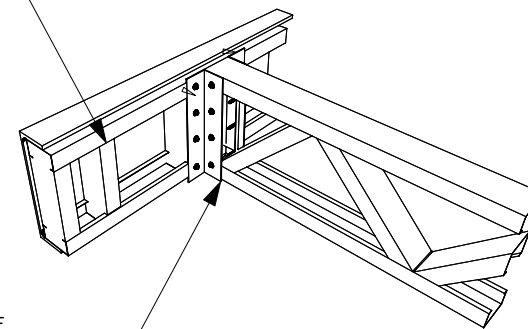
STEEL TO STEEL COLUMN SUPPORT

NOTE 10PL CAP PLATE TYP.



TYPICAL TRUSS TO STRONGBACK CONNECTION

TRUSS INSTALLED INSIDE C-BEAM TYP.



TYPICAL FLOOR TRUSS TO TRUSS/BEAM CONNECTION

PROVIDE 75x0.75mm ANGLE SUPPORT, FIX WITH 2No 10 TEKS TO EACH TRUSS TOP CHORD

TYPICAL ANGLE SUPPORT TO TRUSS CONNECTION

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TITLE	PROJECT No.	CLIENT
FLOOR DETAILS	XXXXXX	METFRAME AUST. PTY LTD

APPROVED BY  
RUSSELL WHITE  
MIE Aust CPEng NER RPEQ RBP BPB

PROJECT No.	CLIENT
XXXXXX	METFRAME AUST. PTY LTD

PROJECT
XXXXXX



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