

PLAN
CONTINUOUS LAPPED BEARERS

GENERAL NOTES:

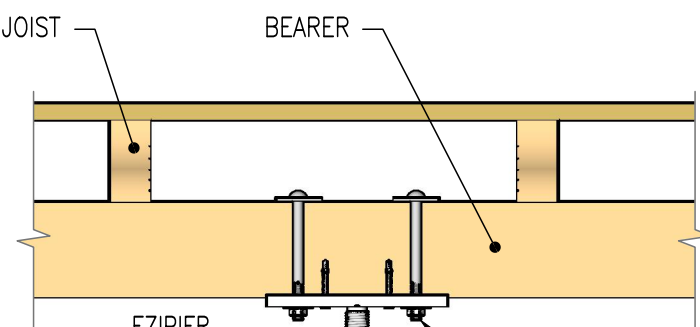
1. THIS DRAWING SHOWS A TIMBER FLOOR FRAME, IT IS ASSUMED THE FLOOR SUPPORTED BY THE PIERS IS FULLY BRACED AND THE LOADS SUPPORTED ARE DEAD LOADS, LIVE LOADS AND WIND UPLIFT ONLY.
2. THIS PIERHEAD IS TO BE INSTALLED TO THE FLOOR BEAM MANUFACTURERS RECOMMENDED BEARING, BLOCKING AND BRACING SPECIFICATIONS.
3. THE UPLIFT LOAD ON THE BEAM/PIERHEAD CONNECTION HAS NOT BEEN TAKEN INTO ACCOUNT AND THIS LOAD MUST BE CALCULATED BY A COMPETANT PERSON TO SUIT THE ACTUAL SITE CONDITIONS.
4. THE PIER/FOOTING CONNECTION DETAIL IS VALID FOR SPANTEC PRODUCTS ONLY. IF OTHER PRODUCTS ARE USED THE LOAD CAPACITIES ARE NOT GUARANTEED. SEEK ADVICE FROM A COMPETANT PERSON FOR YOUR SPECIFIC ARRANGEMENT AND LOADING.
5. THE PIERHEAD IS CAPABLE OF TRANSMITTING 18 kN OF HORIZONTAL WIND FORCE INTO THE SUBFLOOR BRACING.
6. THE ADJUSTABLE HEAD AND BASE PLATE ARE MADE FROM DUCTILE CAST IRON WITH A MINIMUM ULTIMATE TENSILE STRENGTH OF 400MPa CONFORMING TO AS1831-2007 (ISO1083) AND HOT DIPPED GALVANISED TO 450gsm (GRAMS PER SQUARE METER). FOR PROTECTIVE COATING SYSTEMS REFER TO: NCC VOLUME 2, NASH STANDARD RESIDENTIAL AND LOW-RISE STEEL FRAMING PART 2: DESIGN SOLUTIONS, AS/NZS 4680 HOT-DIP ZINC COATINGS ON FABRICATED FERROUS ARTICLES, AS/NZS 4792 HOLLOW SECTIONS PRODUCED BY WELDING PRE-GALVANIZED STEEL STRIP.
7. BASE PLATE MUST BE SELECTED TO SUIT THE APPLIED LOADS, SEE DRAWING P14 FOR THE 2 AND 4 HOLE BASE PLATE CAPACITIES OR VISIT OUR WEBSITE www.spantec.com.au.

TABLE 1: EZIPIER UPLIFT CAPACITY P_{uplift}

TEK "A" QTY	MAX. UP LOAD (kN)
4	17.3
6	26.0
8	34.6

EZIPIER UPLIFT CAPACITY NOTES

1. THE UPLIFT LOAD ON THE BEAM/PIERHEAD CONNECTION HAS NOT BEEN TAKEN INTO ACCOUNT AND THIS LOAD MUST BE CALCULATED BY A COMPETANT PERSON TO SUIT THE ACTUAL SITE CONDITIONS.
2. THE ULTIMATE UPLIFT LOAD CAPACITY FOR THE TWO MASONRY ANCHORS AS SPECIFIED BELOW IS 26.4kN.
3. PIER SHS MIN. STEEL GRADE 350 MPa TO AS1163.
4. THE CAPACITIES IN THE TABLES ARE CALCULATED USING AUSTRALIAN LOADING CODE AS1170 AND AS4600.



NOMINAL PIERHEAD/BEARER CONNECTION

TIMBER MGP10 BEARERS USE 2/M10 G4.6 GALVANISED CUP HEAD BOLTS AND 50x5 GALV. SQ FLAT WASHER EQUATES TO 33kN UPLIFT RESISTANCE. OR 4/14g TEK SCREWS x 50 CLASS S3 (CAN BE USED IF NO UPLIFT). THIS ACTUAL LOAD MUST BE CALCULATED BY A COMPETANT PERSON TO SUIT THE ACTUAL SITE CONDITIONS.

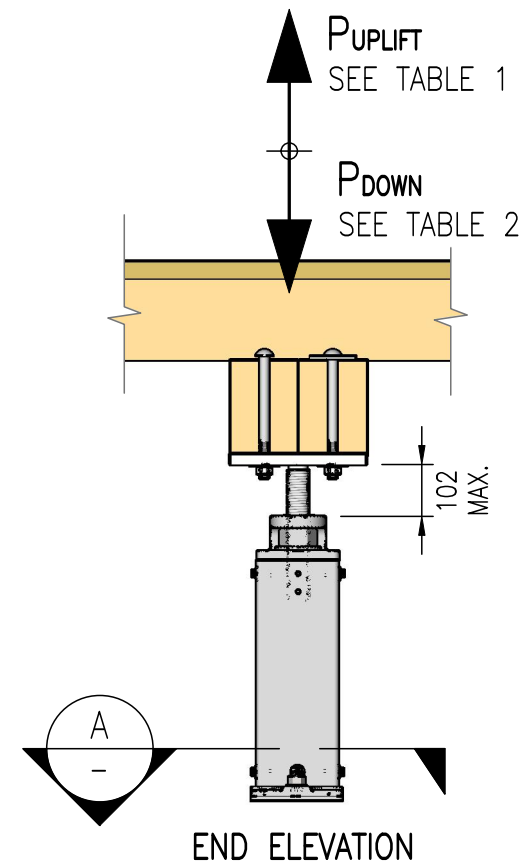


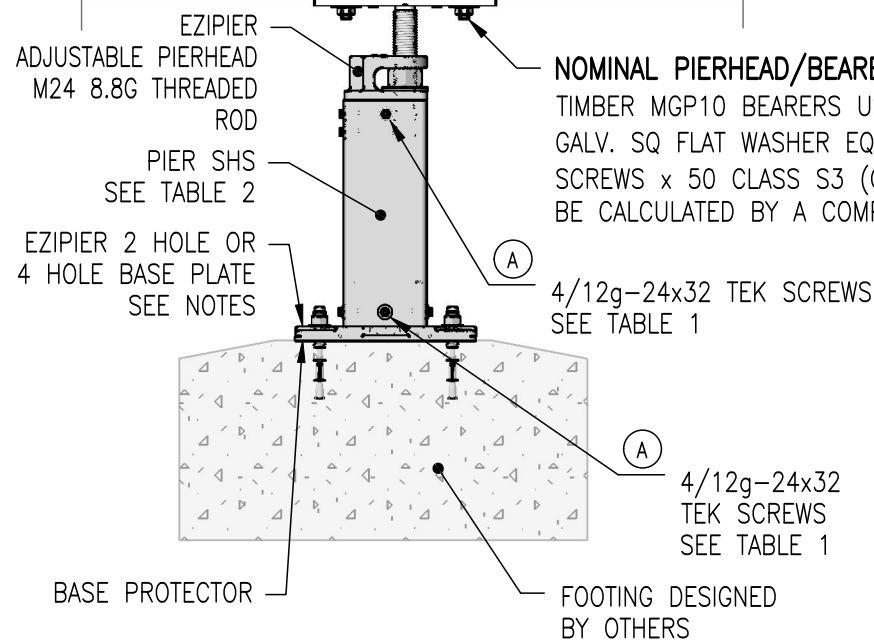
TABLE 2: EZIPIER DOWNWARD CAPACITY P_{down}

(MAX. FFL 2700mm)

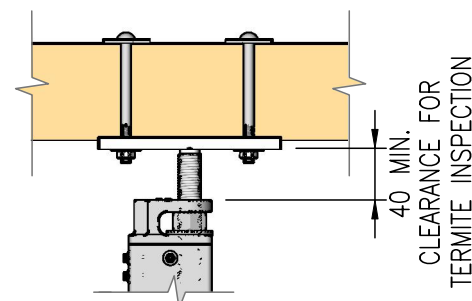
PIER HEAD	PIER SHS SIZE (mm)	MAX. DOWN LOAD (kN)
75LPH	75x75x2.0	45.0
90LPH	90x90x2.0	55.0
89LPH	89x89x3.5	110.0

EZIPIER DOWNWARD CAPACITY NOTES

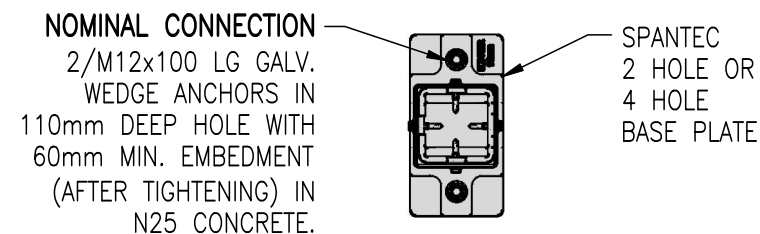
1. THE CAPACITY OF PIERHEAD IS BASED ON THE STRENGTH OF THE WHOLE PIER ASSEMBLY AND IT IS ASSUMED THE PIER IS CENTRICALLY LOADED, IF THE PIER IS ESSENICALLY LOADED THEN REDUCE THE VALUES IN THE TABLE ABOVE BY 25%.
2. THE ULTIMATE DOWNWARD LOAD CAPACITY OF THE PIER IS BASED ON A MAXIMUM FFL 2700 (FINISHED FLOOR LEVEL), FOR FLOOR HEIGHTS ABOVE 2700 THE PIER CAPACITY MUST BE CHECKED BY A COMPETANT PERSON.



DETAIL A
TIMBER BEARER LAPPED JOIN



TERMITE INSPECTION POINT AND PIERHEAD PREFERRED ORIENTATION
TERMITE INSPECTION SATISFIES NCC REQUIREMENTS BY PROVISION OF A CLEAR INSPECTION POINT.



SECTION A

NOTE:
BASE PLATE ORIENTATION IS PARALLEL TO BEARER.

STRUCTURAL DESIGN CERTIFICATION

ACN 639-248-114

REF. # 3333
DATE 23/08/2022

SIGNATURE

HA NGUYEN
BE(Hons) PhD MIEAust CPEng NER 4188792
PE0001349 (VIC), RPEQ24385 (QLD), TAS 727649808

REV.	DESCRIPTION	DRN.	DATE
E	CERTIFICATION STAMP CHANGED	M.R.	19/6/22

DESCRIPTION
EZIPIER ADJUSTABLE "T" PIERHEAD ASSEMBLY TIMBER CONNECTION DETAILS SIZE 150 x 200

DRAWING NUMBER:	REVISION
P11	E
SCALE @ A3 0.5	DATE DRAWN 5/08/19