

Generic Structural Design Certificate LEVELMASTER – Adjustable Post Heads

01/05/2024

To whom it may concern,

We, **PEER Consulting Engineers** certify that we have designed and reviewed the LevelMaster Adjustable Post Heads as detailed on the listed drawing below, and they have been designed in accordance with widely accepted engineering principles and the referenced codes of practice. This certificate is limited to the structural design only and no responsibility is taken for any loss, damage or failure resulting from the method of construction or wind exceeding the design wind rating nominated.

Referenced Codes of Practice and Manuals:

NCC 2022 Building Code of Australia
AS 1170.0 2002 Structural design action – General principals
AS 1170.1 2002 Permanent, Imposed and Other Actions
AS 1170.2 2021 Structural Design Actions – Wind Actions
AS 4100 2020 Steel Structures

Referenced Design Documents:

PEER Consulting Engineers Pty Ltd – Drawing Set PCE2247.1 – Rev 1, MAY 2024

PEER Consulting Engineers maintains indemnity insurance concordant with the scope of the undertaken works to the satisfaction of its Client; however, our involvement in this shall in no way be construed of relieving other parties of their legal obligations.

If you require any further information, please do not hesitate to contact us at any time.

Sincerely,



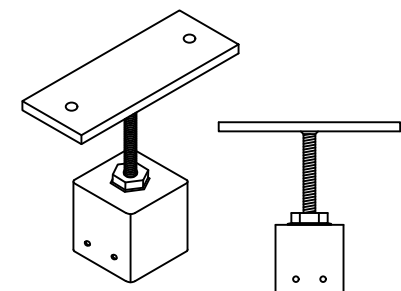
Mengting (Nike) Zhao

B.Eng (1ST Class Hons.) MIEAust, RPEQ, RPEng

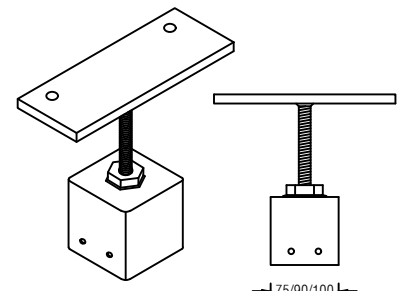
Director/

Principal Civil and Structural Engineer

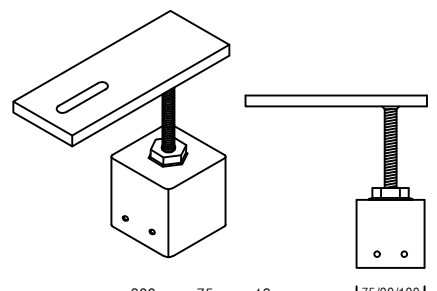
***This certificate expires on 31/07/2024.**



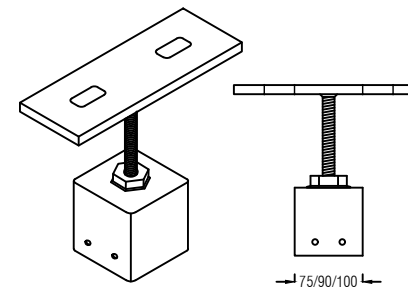
200mm x 75mm x 10mm
STRAIGHT



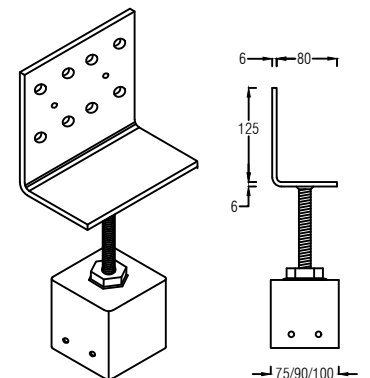
200mm x 75mm x 10mm
STRAIGHT (offset holes)



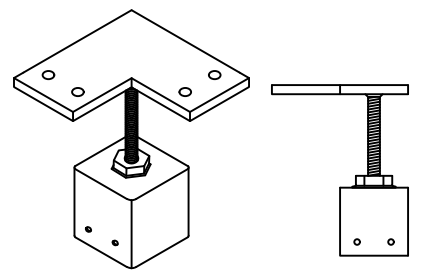
200mm x 75mm x 12mm
END SLOTTED



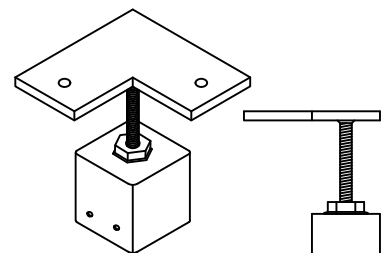
250mm x 90mm x 12mm
STRAIGHT SLOTTED



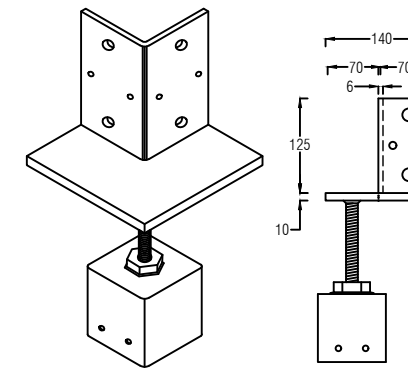
125mm x 140mm x 80mm
VERTICAL PLATE (large)



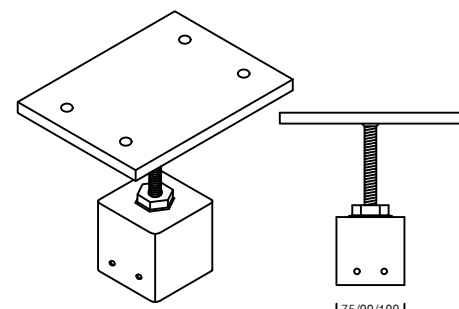
150mm x 150mm x 10mm
CORNER (4 holes)



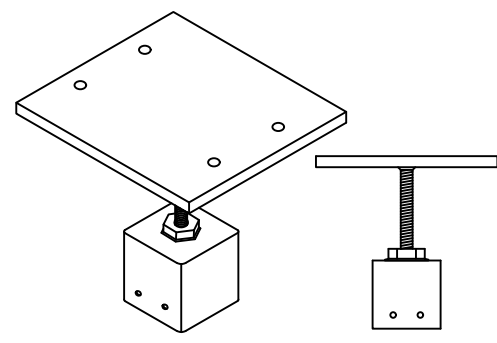
150mm x 150mm x 10mm
CORNER



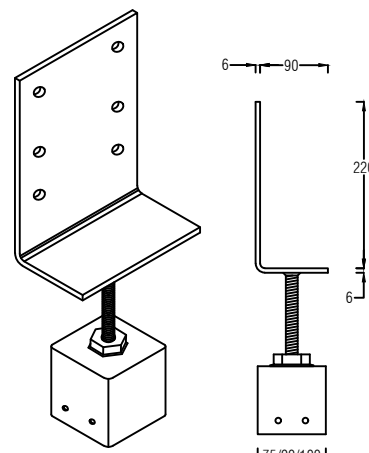
150mm x 150mm x 10mm
VERTICAL LARGE CORNER (8 holes)



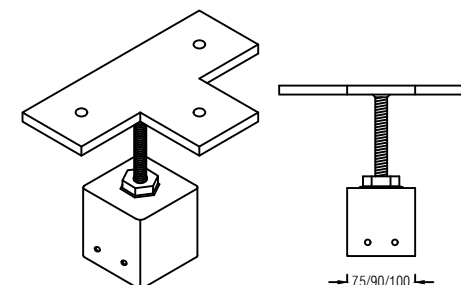
200mm x 150mm x 12mm
STRAIGHT (4 holes)



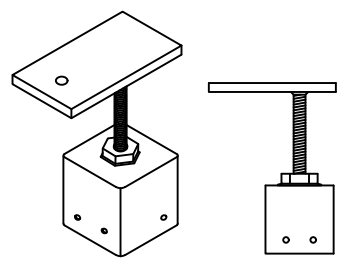
200mm x 220mm x 12mm
LARGE STRAIGHT (4 holes)



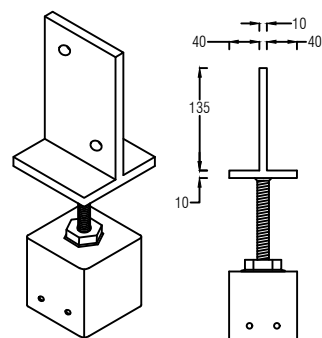
225mm x 180mm x 90mm
VERTICAL PLATE (xlarge)



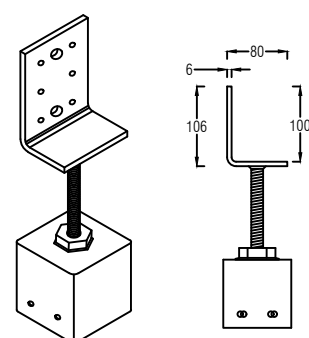
225mm x 150mm x 10mm
TEE



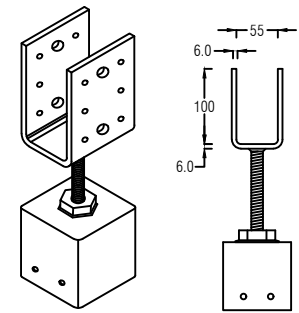
140mm x 75mm x 10mm
END OF BEARER



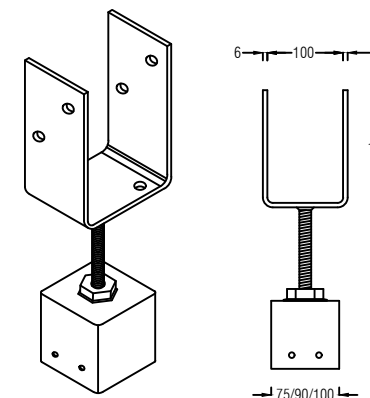
90mm x 90mm x 10mm
VERTICAL PLATE 90



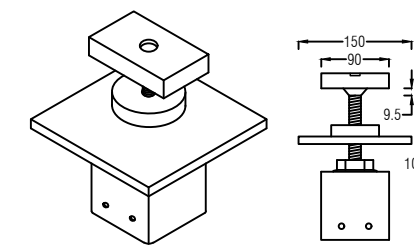
106mm x 80mm x 56mm
VERTICAL PLATE (small)



52mm x 100mm x 80mm
VERTICAL PLATE STIRRUP



101mm x 155mm x 75mm
VERTICAL PLATE STIRRUP



95mm x 57mm x 20mm
CONTAINER LOCK - CL

GENERAL NOTES

- 1 FOR REQUIRED VERTICAL LOAD < 35kN, MIN. 4 SCREWS (2 EACH OPPOSITE FACE) TO BE USED FOR CAP TO COLUMN CONNECTION.
- 2 ALL SCREWS FOR CAP TO COLUMN CONNECTION TO BE MIN. CLASS 4 - 12g - 24TPI SCREWS (ICCONS PTY LTD) OR EQUIVALENT.
- 3 FOR LARGE VERTICAL LOAD, THE PROJECT ENGINEER TO DESIGN CAP TO COLUMN CONNECTION.
- 4 FOR ECCENTRICALLY LOADED CONDITIONS, LIMIT THE COMPRESSION LOAD TO MAX. 10kN; TENSION LOAD TO MAX. 5kN.
- 5 ALL STEEL MATERIALS TO BE (MIN.) G250 (U.N.O.)

PRODUCT CAPACITY

MAX. UPLIFT	15kN
MAX. DOWNWARDS	70kN

SPECIFIED CAPACITIES ARE FOR CONCENTRIC VERTICAL LOAD TRANSFER ONLY.

THE CAPACITIES ARE FOR MAX. 150mm ADJUSTABLE HEIGHT.

THE CAPACITIES ARE FOR THE POST HEAD PRODUCT ITSELF. OTHER ELEMENTS SUCH AS SCREWS AND TIMBER ARE NOT CONSIDERED.

NET UPLIFT PRESSURE AT STUMP (kN/m²)

WIND CLASS	N2	N3	N4	C1	C2	C3
UPWARDS	-	1.01	1.82	1.20	2.10	3.80

*THIS TABLE IS VALID FOR RESIDENTIAL STRUCTURES ONLY.

*THIS TABLE IS FOR REFERENCE ONLY. THE PROJECT ENGINEER TO CONFIRM THE REQUIRED UPLIFT.

TYPICAL LOADS (kN/m²)

DOMESTIC FLOOR	2.85
SHEET ROOF	0.86
CLAD WALLS	0.42

EXAMPLE:-

* LEVEL MASTER STUMP SUPPORTING 9m² OF ROOF LOAD AND 9m² OF FLOOR LOAD 3m OF WALL FRAME 2.4m HIGH IN AN N3 WIND AREA.

EXAMPLE WORKINGS:-

DOWNWARDS = 9m² x 0.86kN/m² (roof) + 9m² x 2.85kN/m² (floor) + 3m wall x 2.4 high x 0.42kN/m² (wall) = 36.4 kN total.

N3 WIND UPLIFT = 9m² x 1.01kN/m² = 9.09 kN total.

* SO USE LEVEL MASTER CENTRE LOADED ADJUSTABLE TOP/POST HEAD BECAUSE: 36.4 kN < 70 kN AND 9.09 kN < 15 kN.

DO NOT SCALE FROM DRAWING
ALL SCALES ARE AS SHOWN (A3)

REV.	DESCRIPTION	DATE	INIT.
A	PRELIMINARY ISSUE	MAY 2023	-
0	FOR CERTIFICATION	MAY 2023	-
1	FOR CERTIFICATION	MAY 2024	-

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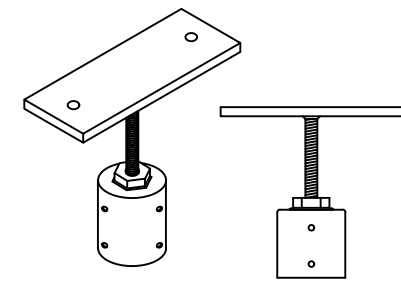
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WEB www.levelmaster.com.au EMAIL info@levelmaster.com.au
PHONE 1300 538 356

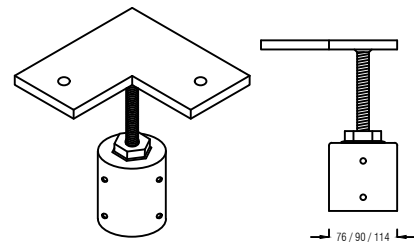
PROJECT
ADJUSTABLE POST HEADS

TITLE
SCREW ON CONNECTORS (SHS)

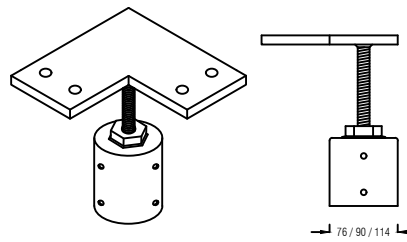
DRAWN	DESIGNED	DATE
-	-	MAY 2024
CHECKED	APPROVED	
N.Z.		
DRAWING No.	REV.	
PCE2247.1-S01	1	



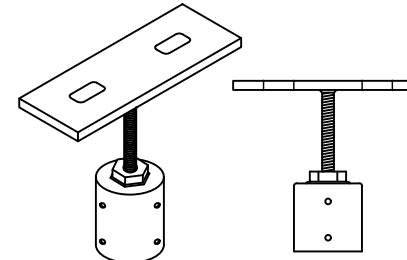
200mm x 75mm x 10mm
STRAIGHT



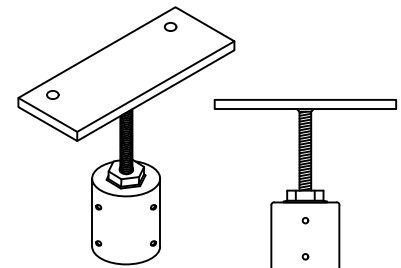
150mm x 150mm x 10mm
CORNER



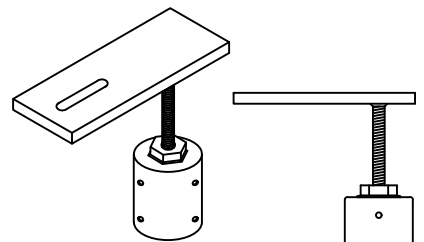
150mm x 150mm x 10mm
CORNER (4 holes)



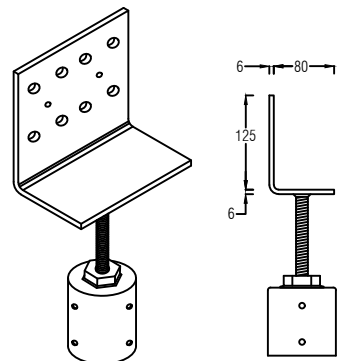
250mm x 90mm x 12mm
STRAIGHT SLOTTED



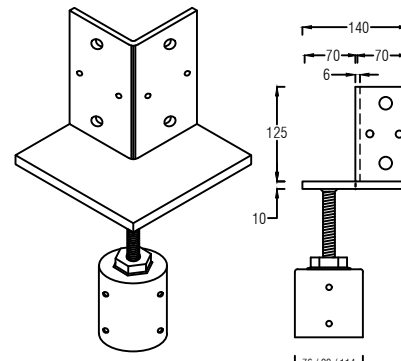
200mm x 75mm x 10mm
STRAIGHT (offset holes)



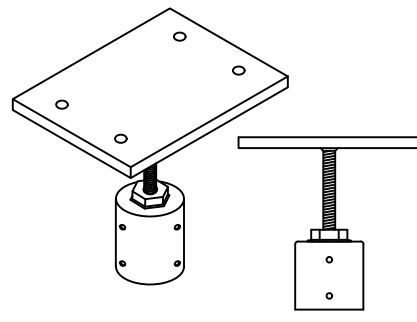
200mm x 75mm x 12mm
END SLOTTED



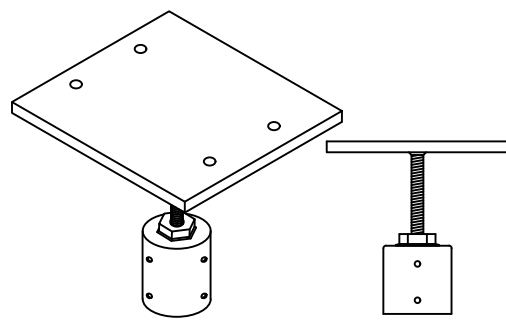
125mm x 140mm x 80mm
VERTICAL PLATE (large)



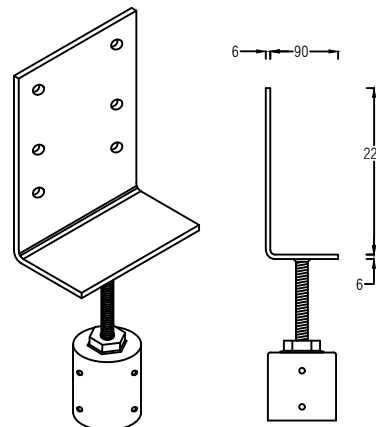
150mm x 150mm x 10mm
VERTICAL LARGE CORNER (8 holes)



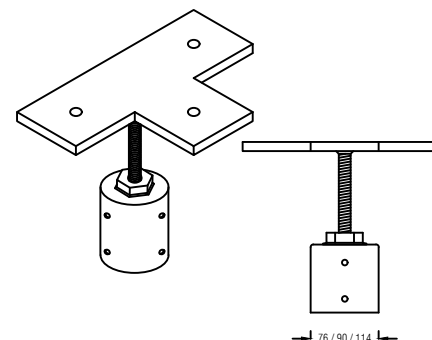
200mm x 150mm x 12mm
STRAIGHT (4 holes)



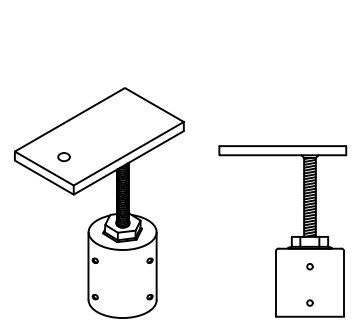
200mm x 220mm x 12mm
LARGE STRAIGHT (4 holes)



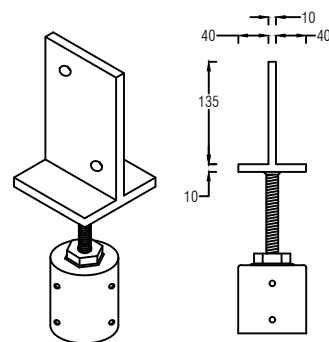
225mm x 180mm x 90mm
VERTICAL PLATE (xlarge)



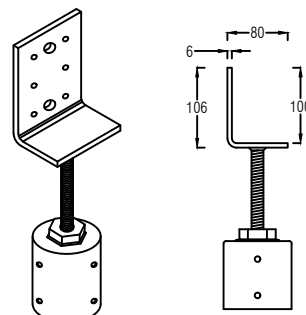
225mm x 150mm x 10mm
TEE



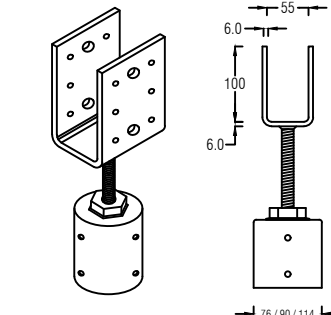
140mm x 75mm x 10mm
END OF BEARER



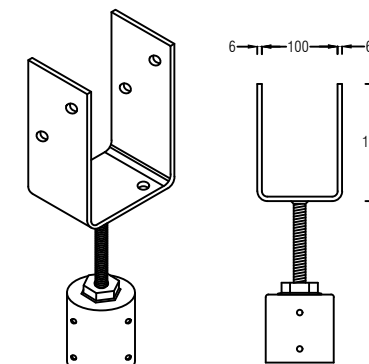
90mm x 90mm x 10mm
VERTICAL PLATE 90



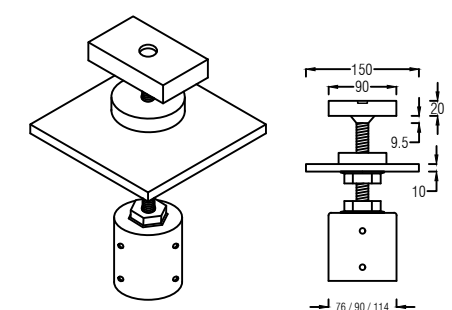
106mm x 80mm x 56mm
VERTICAL PLATE (small)



52mm x 100mm x 80mm
VERTICAL PLATE STIRRUP



101mm x 155mm x 75mm
VERTICAL PLATE STIRRUP



95mm x 57mm x 20mm
CONTAINER LOCK - CL

GENERAL NOTES

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PRODUCT CAPACITY

MAX. UPLIFT	15kN
MAX. DOWNWARDS	70kN
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NET UPLIFT PRESSURE AT STUMP (kN/m²)

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ALL SCALES ARE AS SHOWN (A3)

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PHONE 1300 538 356

PROJECT
ADJUSTABLE POST HEADS

TITLE
SCREW ON CONNECTORS (CHS)

DRAWN	DESIGNED	DATE
-	-	MAY 2024
CHECKED	APPROVED	
N.Z.		
DRAWING No.	REV.	
PCE2247.1-S02	1	

GENERAL NOTES

- 1 FOR ECCENTRICALLY LOADED CONDITIONS, LIMIT THE COMPRESSION LOAD TO MAX. 10kN; TENSION LOAD TO MAX. 5kN.
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***PRODUCT CAPACITY**

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NET UPLIFT PRESSURE AT STUMP (kN/m²)

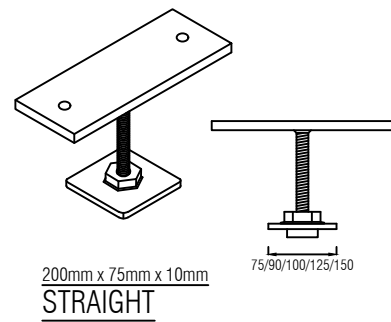
WIND CLASS	N2	N3	N4	C1	C2	C3
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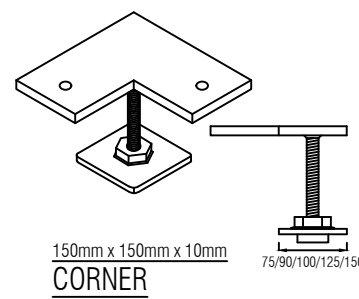
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TYPICAL LOADS (kN/m²)

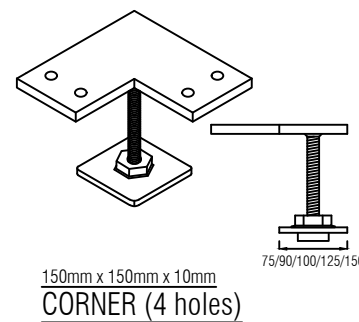
DOMESTIC FLOOR	2.85
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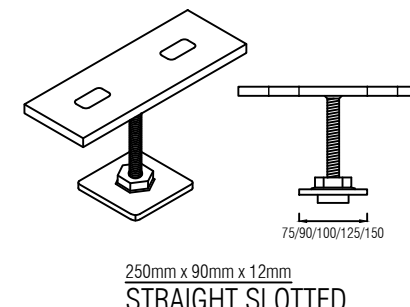
200mm x 75mm x 10mm
STRAIGHT



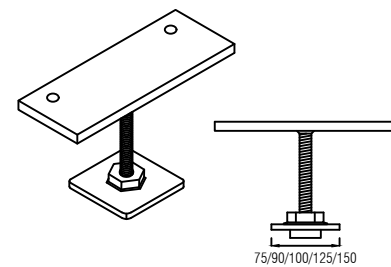
150mm x 150mm x 10mm
CORNER



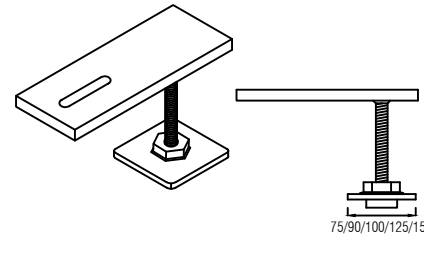
150mm x 150mm x 10mm
CORNER (4 holes)



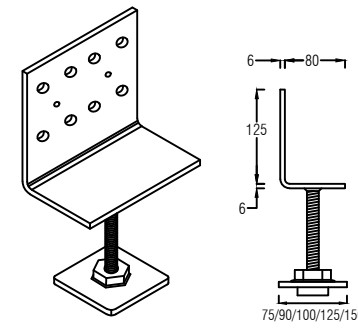
250mm x 90mm x 12mm
STRAIGHT SLOTTED



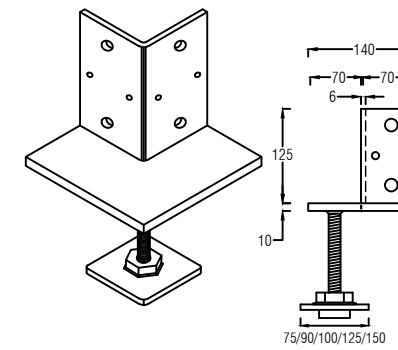
200mm x 75mm x 10mm
STRAIGHT (offset holes)



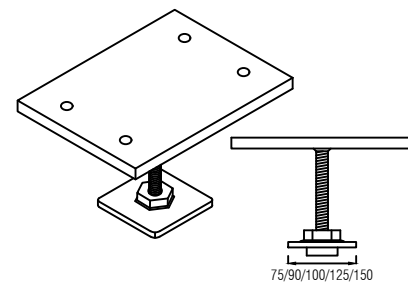
200mm x 75mm x 12mm
END SLOTTED



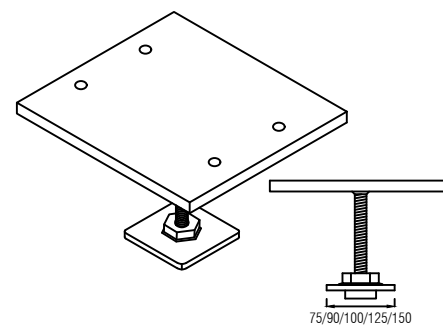
125mm x 140mm x 80mm
VERTICAL PLATE (large)



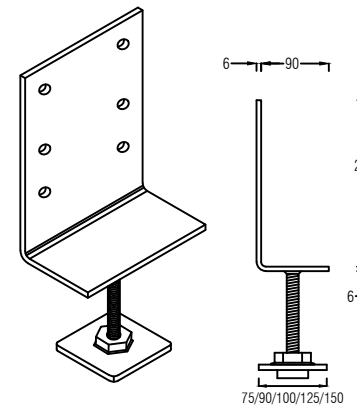
150mm x 150mm x 10mm
VERTICAL LARGE CORNER (8 holes)



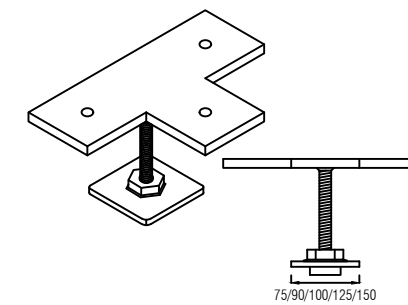
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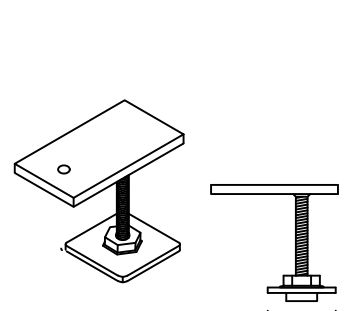
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LARGE STRAIGHT (4 holes)



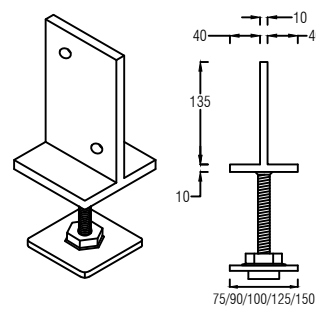
225mm x 180mm x 90mm
VERTICAL PLATE (xlarge)



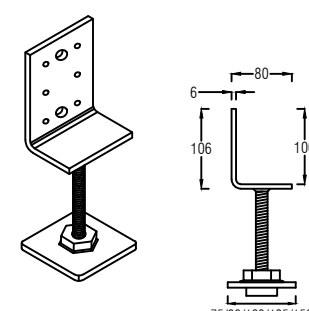
225mm x 150mm x 10mm
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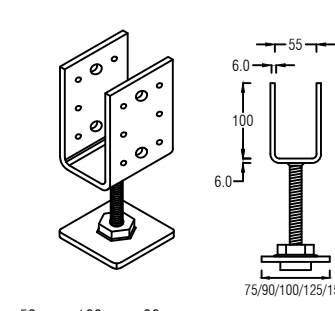
140mm x 75mm x 10mm
END OF BEARER



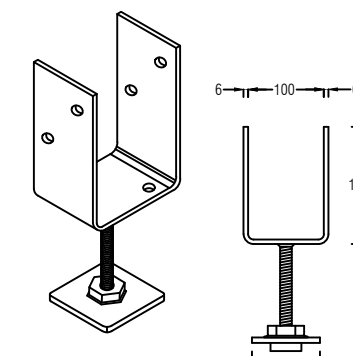
90mm x 90mm x 10mm
VERTICAL PLATE 90



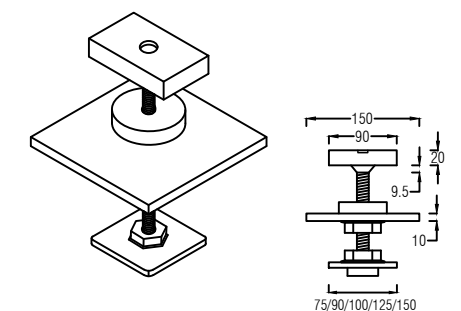
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VERTICAL PLATE (small)



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VERTICAL PLATE STIRRUP



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VERTICAL PLATE STIRRUP



95mm x 57mm x 20mm
CONTAINER LOCK - CL

DO NOT SCALE FROM DRAWING
ALL SCALES ARE AS SHOWN (A3)

REV.	DESCRIPTION	DATE	INIT.
A	PRELIMINARY ISSUE	MAY 2023	-
0	FOR CERTIFICATION	MAY 2023	-
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4B/2404 LOGAN RD,
EIGHT MILE PLAINS QLD 4113



CONTACT DETAILS

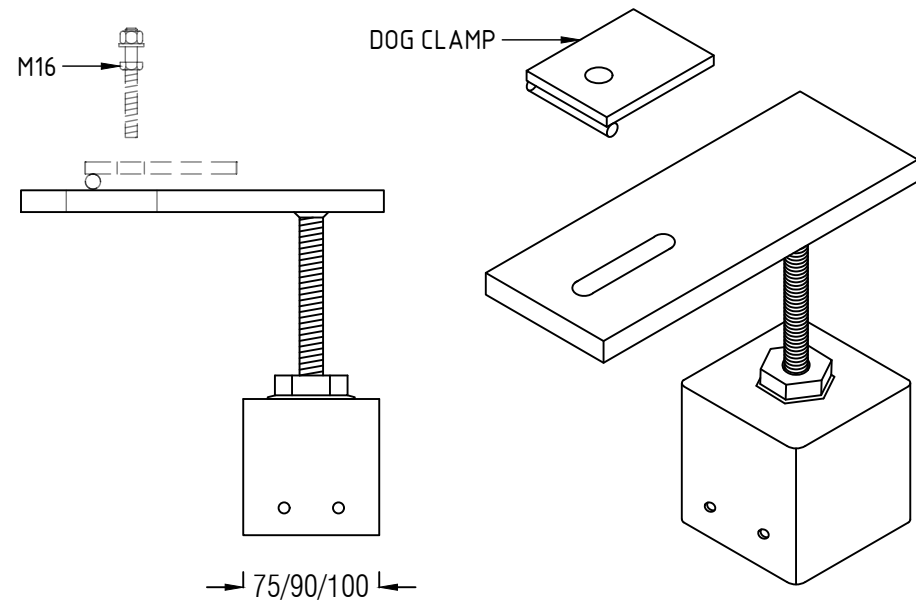
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PHONE 1300 538 356

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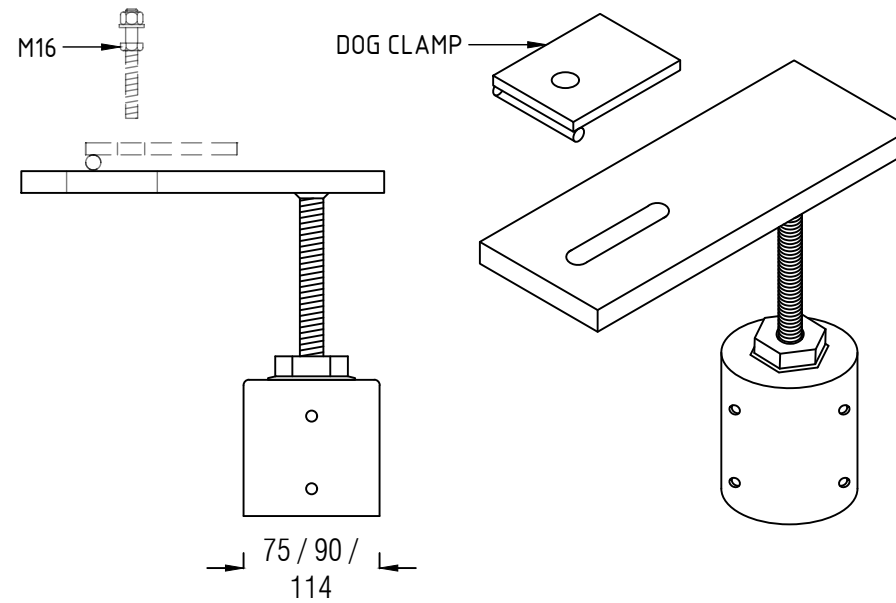
PROJECT
ADJUSTABLE POST HEADS

TITLE
WELD ON CONNECTORS (SHS)

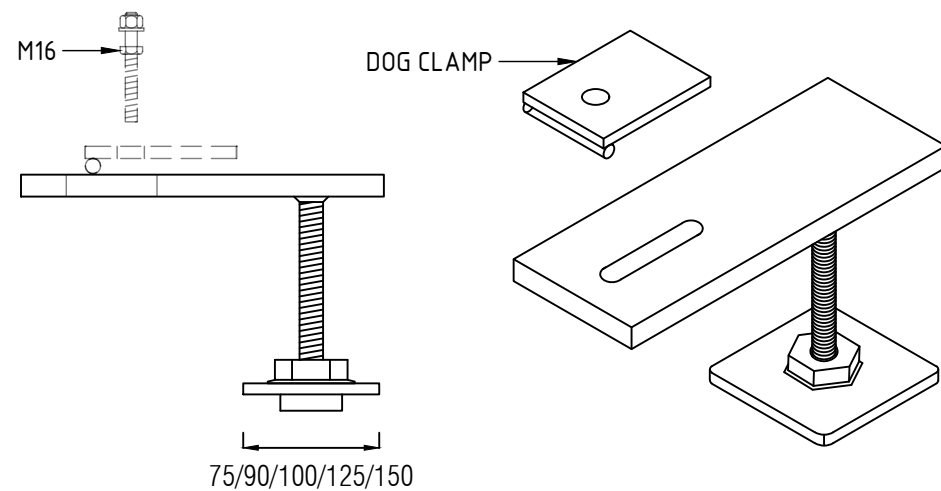
DRAWN	DESIGNED	DATE
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CHECKED	APPROVED	
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PCE2247.1-S03	1	



100mm x 75mm x 8mm
SCREW ON (SHS)



100mm x 75mm x 8mm
SCREW ON (CHS)



100mm x 75mm x 8mm
WELD ON (SHS)

GENERAL NOTES	
1	FOR REQUIRED VERTICAL LOAD < 35kN, MIN. 4 SCREWS (2 EACH OPPOSITE FACE) TO BE USED FOR CAP TO COLUMN CONNECTION.
2	ALL SCREWS FOR CAP TO COLUMN CONNECTION TO BE MIN. CLASS 4 - 12g - 24TPI SCREWS (ICCONS PTY LTD) OR EQUIVALENT.
3	FOR LARGE VERTICAL LOAD, THE PROJECT ENGINEER TO DESIGN CAP TO COLUMN CONNECTION.
4	FOR ECCENTRICALLY LOADED CONDITIONS, LIMIT THE COMPRESSION LOAD TO MAX. 10kN.
5	ALL STEEL BASEPLATES TO BE G250 (U.N.O.). ALL STEEL TUBES TO BE G350. (U.N.O.)

*PRODUCT CAPACITY	
MAX. UPLIFT	4kN
MAX. DOWNWARDS	70kN
CLAMPING CAPACITY	35kN
THE CLAMPING FORCE MAY VARY DEPENDING ON THE APPLIED TORQUE DURING CONSTRUCTION. THE CLAMPING CAPACITY IS ESTIMATED BASED ON THE TYPICAL TIGHTENING TORQUE OF M16 BOLT (GRADE 8.8).	
THE CAPACITIES ARE BASED ON THE ASSUMPTION OF BEING CENTRALLY LOADED ONLY.	
THE CAPACITIES ABOVE COVER ALL PRODUCTS SHOWN IN THIS PAGE OF DRAWING (FOR DOG CLAMP)	
THE CAPACITIES ARE FOR THE POST HEAD PRODUCT ITSELF. OTHER ELEMENTS SUCH AS SCREWS AND TIMBER ARE NOT CONSIDERED.	

NET UPLIFT PRESSURE AT STUMP (kN/m ²)						
WIND CLASS	N2	N3	N4	C1	C2	C3
UPWARDS	-	1.01	1.82	1.20	2.10	3.80
*THIS TABLE IS VALID FOR RESIDENTIAL STRUCTURES ONLY.						
*THIS TABLE IS FOR REFERENCE ONLY. THE PROJECT ENGINEER TO CONFIRM THE REQUIRED UPLIFT.						

TYPICAL LOADS (kN/m ²)	
DOMESTIC FLOOR	2.85
SHEET ROOF	0.86
CLAD WALLS	0.42

DO NOT SCALE FROM DRAWING
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REV.	DESCRIPTION	DATE	INIT.
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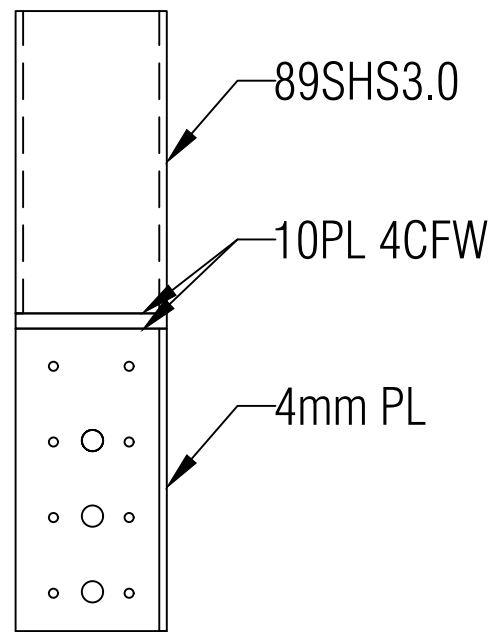
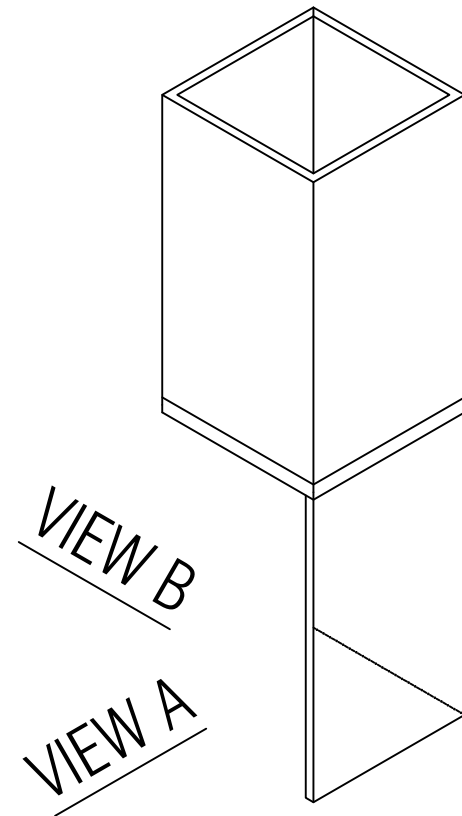


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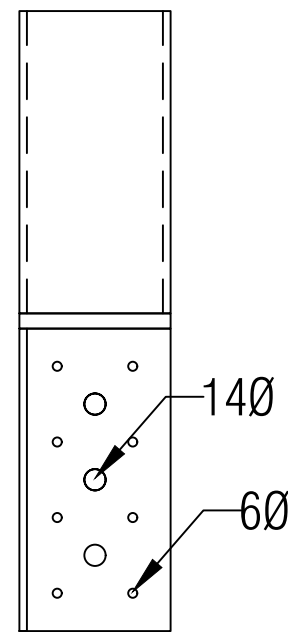
PROJECT
ADJUSTABLE POST HEADS

TITLE
DOG CLAMP CONNECTORS

DRAWN	DESIGNED	DATE
-	-	MAY 2024
CHECKED	APPROVED	
N.Z.		
DRAWING No.	REV.	
PCE2247.1 - S04	1	



VIEW A



VIEW B

LEVELMASTER POST HEADS MAY BE USED TO RETROFIT EXISTING COLUMNS AND ARE AVAILABLE WITH ONE SIDE REMOVED.

*EXISTING COLUMNS & FIXINGS		
STEEL (SHS) 3.0mm THICK (min)	TIMBER	CONCRETE
9/14g TEK SCREWS	15/TYPE 17 #14 SCREWS, 35mm long.	3/M10-50 CONCRETE SCREWS

*LEVELMASTER RETROFIT BRACKET CAPACITIES (kN)	
6 / M12-100 ANCHOR SCREWS TO CONCRETE	36
8 / 14g SCREWS (22mm) TO 3mm STEEL COLUMN (min)	36
12 / 14g SCREWS (22mm) TO 3mm STEEL COLUMN (min)	42
12 / #14 TYPE 17 SCREWS (40mm) TO HWD COLUMN	36
16 / #14 TYPE 17 SCREWS (40mm) TO HWD COLUMN	42

ENSURE ALL SCREWS ARE DIVIDED EQUALLY TO BOTH SIDE CLEATS. (EG - 12/SCREWS REQUIRED, PROVIDE 6/SCREWS EACH CLEAT)

*THIS TABLE BASED ON THE ASSUMPTION THAT ALL CARE HAS BEEN TAKEN WITH ITS PREPARATION.

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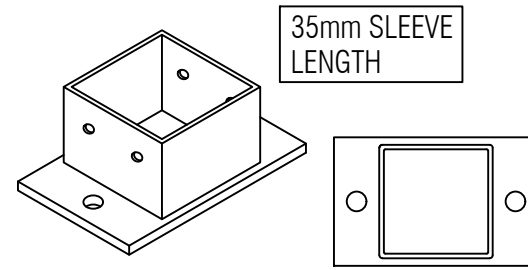
PROJECT

ADJUSTABLE POST HEADS

TITLE

BASE PLATE (SHS)

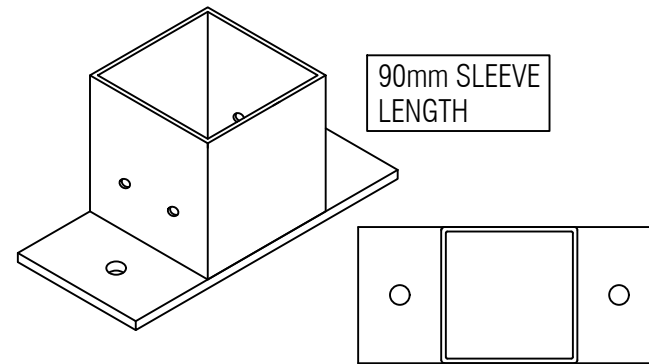
DRAWN	DESIGNED	DATE
-	-	MAY 2024
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DRAWING No.	REV.	
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35mm SLEEVE LENGTH

SUIT 75mm & 89mm POST
**CAST IN BASEPLATE
 TO CONCRETE**

MAX UPLIFT = 36.0 kN

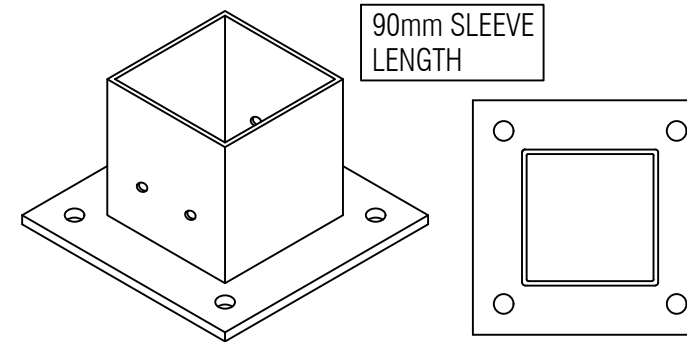


90mm SLEEVE LENGTH

SUIT 75mm, 89mm & 100mm POST
**BOLT DOWN BASEPLATE
 (2 HOLES)**

MAX UPLIFT = 36.0 kN

BOLT DOWN OPTIONS (2 HOLES) - 20MPa concrete (min) - 90mm edge distance (min)	
RAMSET CHEMSET '101'	2 x M12-200 CHEMSETS (1 x each side)
WERCS ANKASCREW	2 x M12-90 WERCS ANKASCREWS (1 x each side)



90mm SLEEVE LENGTH

SUIT 75mm, 89mm & 100mm POST - 4 holes
**BOLT DOWN BASEPLATE
 (4 HOLES)**

MAX UPLIFT = 36.0 kN

BOLT DOWN OPTIONS (4 HOLES) - 20MPa concrete (min) - 90mm edge distance (min)	
RAMSET CHEMSET '101'	4 x M12-100 CHEMSETS (1 x each corner)
WERCS ANKASCREW	4 x M12-60 WERCS ANKASCREWS (1 x each corner)

GENERAL NOTES

- FOR REQUIRED VERTICAL LOAD < 35kN, MIN. 4 SCREWS (2 EACH OPPOSITE FACE) TO BE USED FOR CAP TO COLUMN CONNECTION.
- ALL SCREWS FOR CAP TO COLUMN CONNECTION TO BE MIN. CLASS 4 - 12g - 24TPI SCREWS (ICCONS PTY LTD) OR EQUIVALENT.
- FOR LARGE VERTICAL LOAD, THE PROJECT ENGINEER TO DESIGN CAP TO COLUMN CONNECTION.
- FOR ECCENTRICALLY LOADED CONDITIONS, LIMIT THE COMPRESSION LOAD TO MAX. 10kN; TENSION LOAD TO MAX. 5kN.
- ALL STEEL BASEPLATES TO BE G250 (U.N.O.). ALL STEEL TUBES TO BE G350 (U.N.O.)

***REFERENCE COLUMN HEIGHTS**

COLUMN TYPE	MAX. COMPRESSION (kN)	MAX. HEIGHT (mm)
100SHS4.0	150	4500
89SHS5.0	150	4000
75SHS4.0	150	3000

ALL OTHER COLUMNS/HEIGHTS TO BE SITE SPECIFIC DESIGNED.

NET UPLIFT PRESSURE AT STUMP (kN/m²)

WIND CLASS	N2	N3	N4	C1	C2	C3
UPWARDS	-	1.01	1.82	1.20	2.10	3.80

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TYPICAL LOADS (kN/m²)

DOMESTIC FLOOR	2.85
SHEET ROOF	0.86
CLAD WALLS	0.42

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PROJECT
ADJUSTABLE POST HEADS

TITLE
RETROFIT JOINER

DRAWN	DESIGNED	DATE
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