

CERTIFICATE OF THE RESPONSIBLE DESIGNER

Section 94
Section 106
Section 129
Section 155

Form **35**

To: Owner name
 Address
 Suburb/postcode

Designer details:

Name: Category:
 Business name: Phone No:
 Business address:
 Fax No:
 Licence No: Email address:

Details of the proposed work:

Owner/Applicant Designer's project reference No.
 Address:
 Lot No:

Type of work: Building work Plumbing work (X all applicable)

Description of work:

(new building / alteration / addition / repair / removal / re-erection / water / sewerage / stormwater / on-site wastewater management system / backflow prevention / other)

Description of the Design Work (Scope, limitations or exclusions): (X all applicable certificates)

Certificate Type:	Certificate	Responsible Practitioner
	<input type="checkbox"/> Building design	Architect or Building Designer
	<input checked="" type="checkbox"/> Structural design	Engineer or Civil Designer
	<input type="checkbox"/> Fire Safety design	Fire Engineer
	<input type="checkbox"/> Civil design	Civil Engineer or Civil Designer
	<input type="checkbox"/> Hydraulic design	Building Services Designer
	<input type="checkbox"/> Fire service design	Building Services Designer
	<input type="checkbox"/> Electrical design	Building Services Designer
	<input type="checkbox"/> Mechanical design	Building Service Designer
	<input type="checkbox"/> Plumbing design	Plumber-Certifier; Architect, Building Designer or Engineer
	<input type="checkbox"/> Other (specify)	

Deemed-to-Satisfy: Performance Solution: (X the appropriate box)

Other details:

LevelMaster Adjustable Post Heads system for the State of Tasmania

Design documents provided:	
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The following documents are provided with this Certificate –

Document description:

Drawing numbers:	Prepared by:	Date:
PCE2247.1 – Rev 1	PEERCE	MAY 2024
Schedules:	Prepared by:	Date:
Specifications:	Prepared by:	Date:
Design Certification - LEVELMASTER – Post Heads	PEERCE	01/05/2024
Computations:	Prepared by:	Date:
Performance solution proposals:	Prepared by:	Date:
Test reports:	Prepared by:	Date:

Standards, codes or guidelines relied on in design process:	
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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

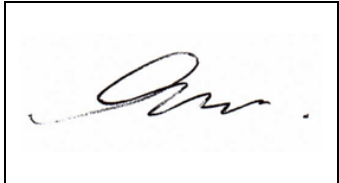
Any other relevant documentation:	
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Attribution as designer:	
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I, Mengting Zhao, am responsible for the design of that part of the work as described in this certificate;

The documentation relating to the design includes sufficient information for the assessment of the work in accordance with the *Building Act 2016* and sufficient detail for the builder or plumber to carry out the work in accordance with the documents and the Act;

This certificate confirms compliance and is evidence of suitability of this design with the requirements of the National Construction Code.

	<i>Name: (print)</i>	<i>Signed</i>	<i>Date</i>
Designer:	Mengting ZHAO		01/05/2024 *This certificate expires on 31/07/2024
Licence No:	PE0005236		

Assessment of Certifiable Works: (TasWater)

Note: single residential dwellings and outbuildings on a lot with an existing sewer connection are not considered to increase demand and are not certifiable.
If you cannot check ALL of these boxes, LEAVE THIS SECTION BLANK.
TasWater must then be contacted to determine if the proposed works are Certifiable Works.

I confirm that the proposed works are not Certifiable Works, in accordance with the Guidelines for TasWater CCW Assessments, by virtue that all of the following are satisfied:

- The works will not increase the demand for water supplied by TasWater
- The works will not increase or decrease the amount of sewage or toxins that is to be removed by, or discharged into, TasWater's sewerage infrastructure
- The works will not require a new connection, or a modification to an existing connection, to be made to TasWater's infrastructure
- The works will not damage or interfere with TasWater's works
- The works will not adversely affect TasWater's operations
- The work are not within 2m of TasWater's infrastructure and are outside any TasWater easement
- I have checked the LISTMap to confirm the location of TasWater infrastructure
- If the property is connected to TasWater's water system, a water meter is in place, or has been applied for to TasWater.

Certification:

I being responsible for the proposed work, am satisfied that the works described above are not Certifiable Works, as defined within the *Water and Sewerage Industry Act 2008*, that I have answered the above questions with all due diligence and have read and understood the Guidelines for TasWater CCW Assessments.

Note: the Guidelines for TasWater Certification of Certifiable Works Assessments are available at: www.taswater.com.au

	<i>Name: (print)</i>	<i>Signed</i>	<i>Date</i>
Designer:	<input type="text"/>	<input type="text"/>	<input type="text"/>

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,



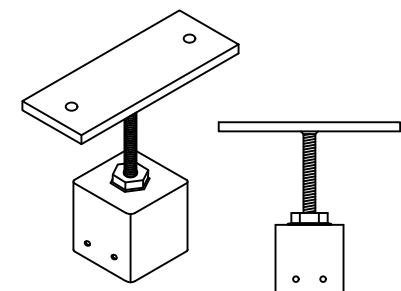
Mengting (Nike) Zhao

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

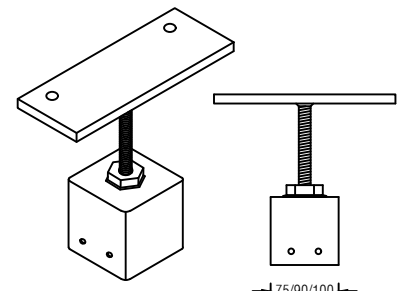
Director/

Principal Civil and Structural Engineer

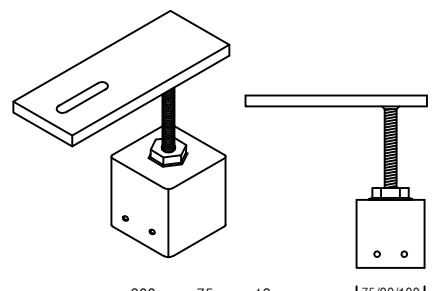
***This certificate expires on 31/07/2024.**



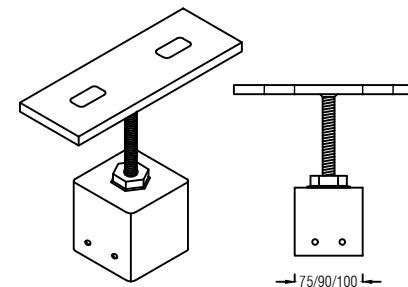
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STRAIGHT



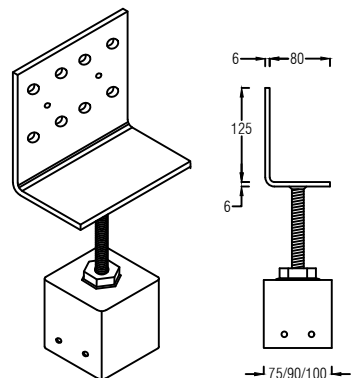
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STRAIGHT (offset holes)



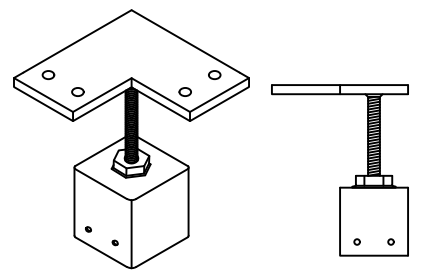
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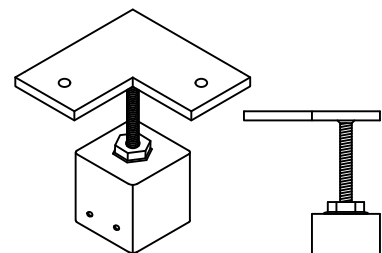
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STRAIGHT SLOTTED



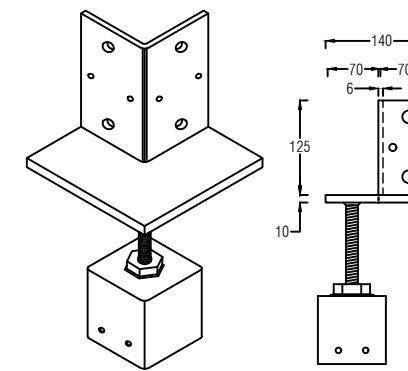
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VERTICAL PLATE (large)



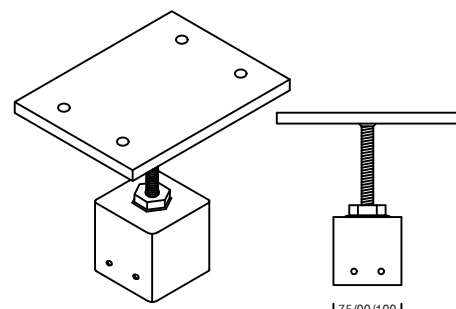
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CORNER (4 holes)



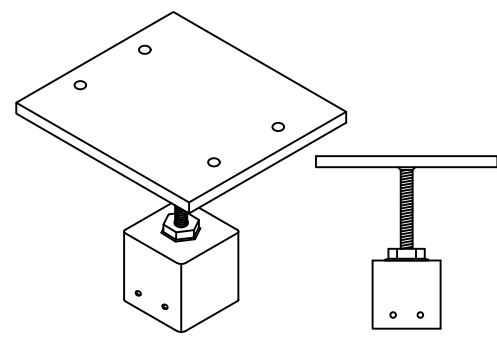
150mm x 150mm x 10mm
CORNER



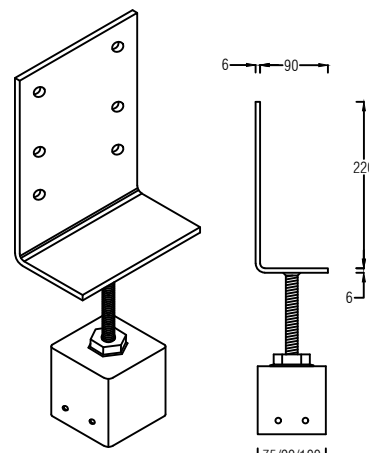
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VERTICAL LARGE CORNER (8 holes)



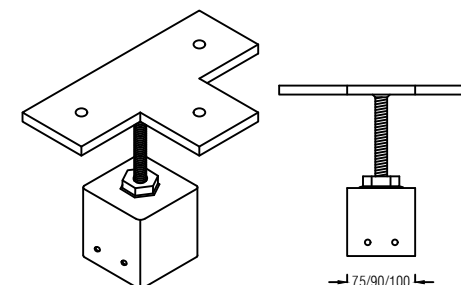
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STRAIGHT (4 holes)



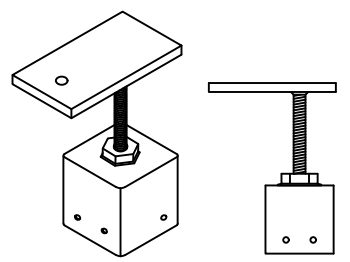
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LARGE STRAIGHT (4 holes)



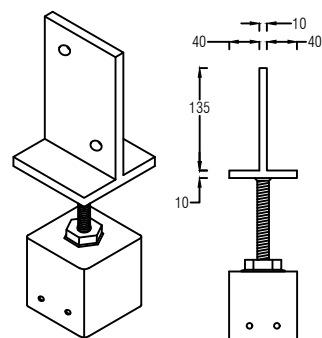
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VERTICAL PLATE (xlarge)



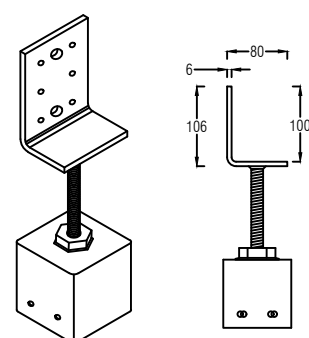
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TEE



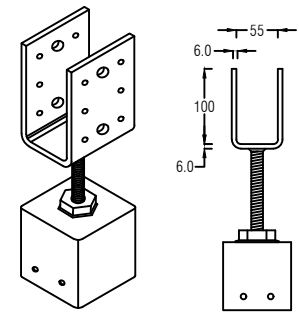
140mm x 75mm x 10mm
END OF BEARER



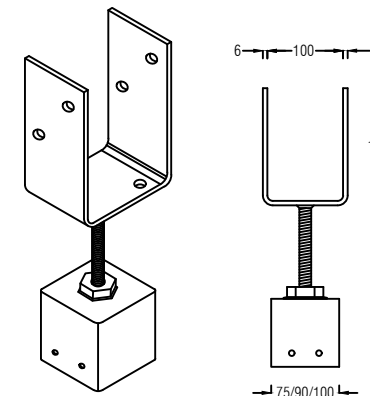
90mm x 90mm x 10mm
VERTICAL PLATE 90



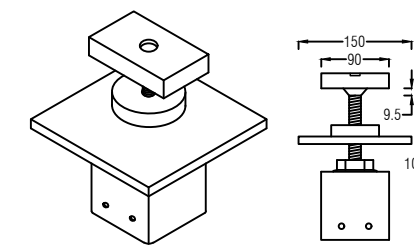
106mm x 80mm x 56mm
VERTICAL PLATE (small)



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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EIGHT MILE PLAINS QLD 4113

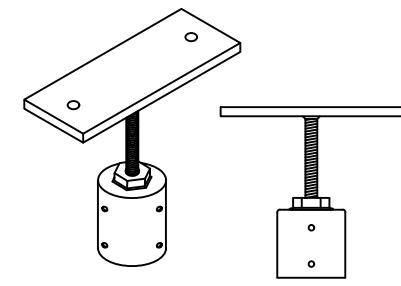
LevelMaster
Stronger. Easier. Faster. ADJUSTABLE HOUSE STUMPS

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

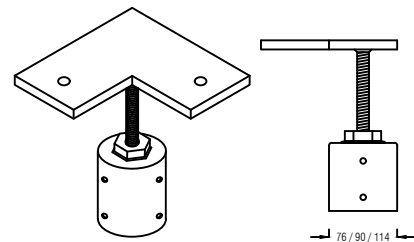
PROJECT
ADJUSTABLE POST HEADS

TITLE
SCREW ON CONNECTORS (SHS)

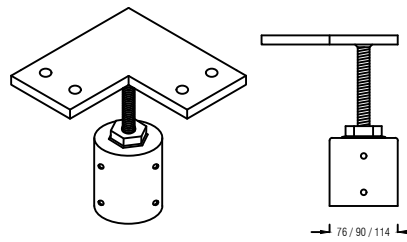
DRAWN	DESIGNED	DATE
-	-	MAY 2024
CHECKED	APPROVED	
N.Z.		
DRAWING No.	REV.	
PCE2247.1-S01	1	



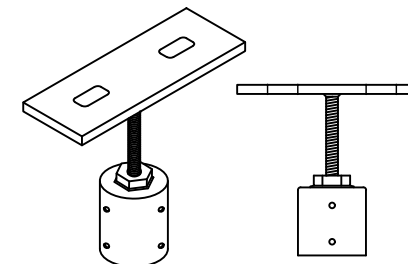
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STRAIGHT



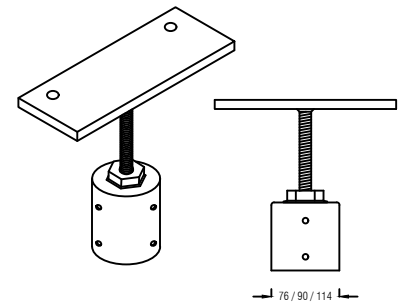
150mm x 150mm x 10mm
CORNER



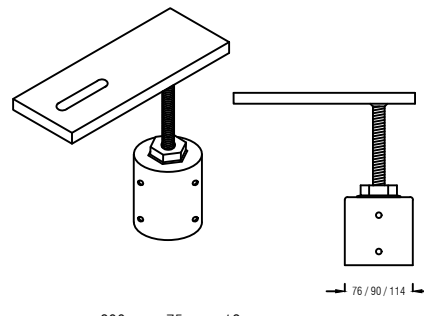
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CORNER (4 holes)



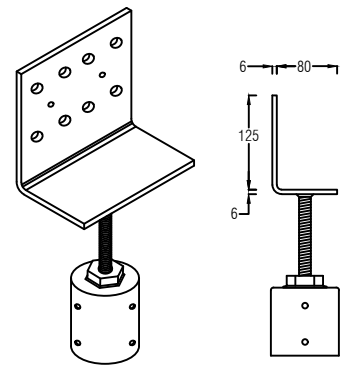
250mm x 90mm x 12mm
STRAIGHT SLOTTED



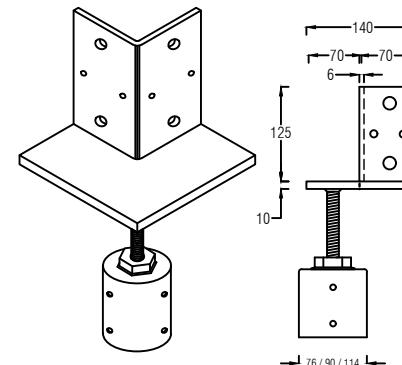
200mm x 75mm x 10mm
STRAIGHT (offset holes)



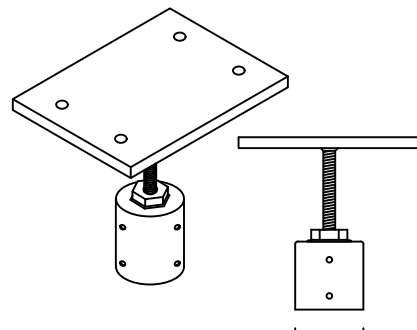
200mm x 75mm x 12mm
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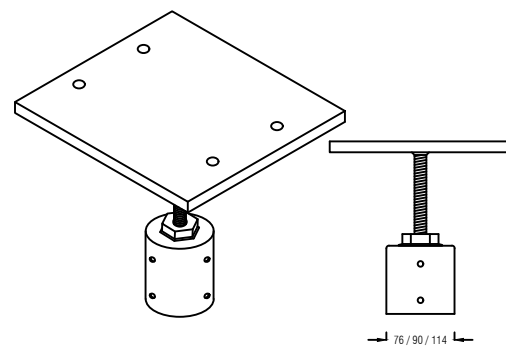
125mm x 140mm x 80mm
VERTICAL PLATE (large)



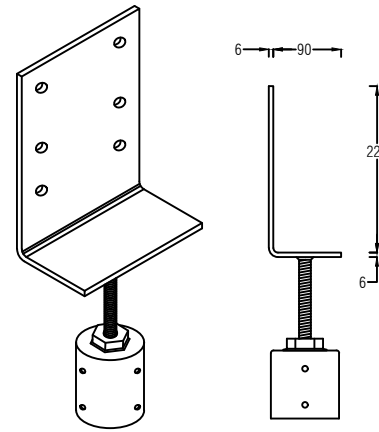
150mm x 150mm x 10mm
VERTICAL LARGE CORNER (8 holes)



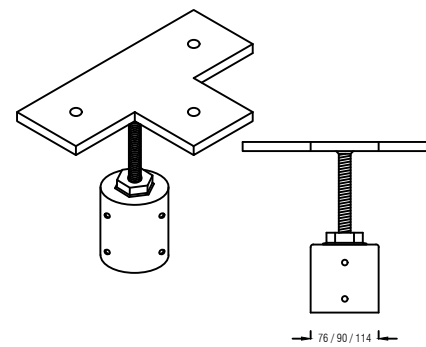
200mm x 150mm x 12mm
STRAIGHT (4 holes)



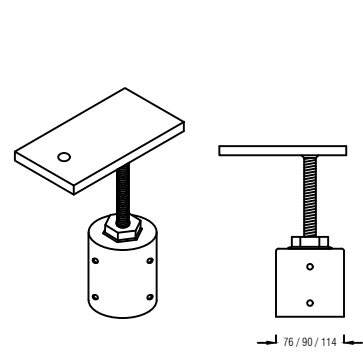
200mm x 220mm x 12mm
LARGE STRAIGHT (4 holes)



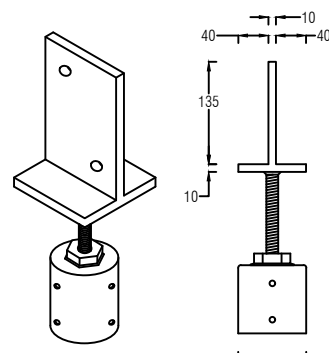
225mm x 180mm x 90mm
VERTICAL PLATE (xlarge)



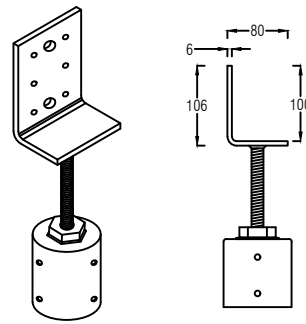
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TEE



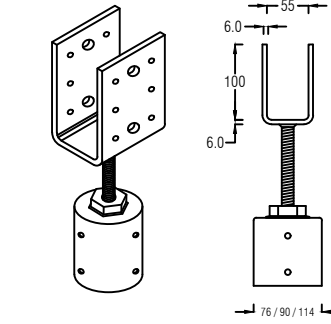
140mm x 75mm x 10mm
END OF BEARER



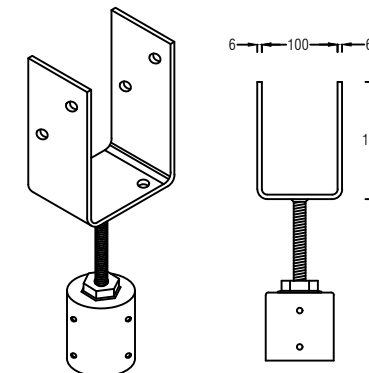
90mm x 90mm x 10mm
VERTICAL PLATE 90



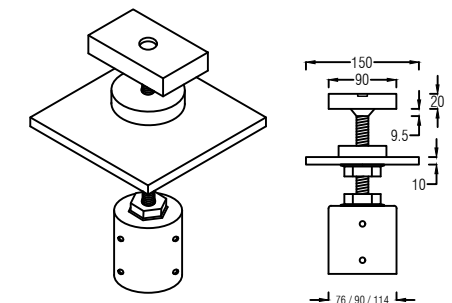
106mm x 80mm x 56mm
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VERTICAL PLATE STIRRUP



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95mm x 57mm x 20mm
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NET UPLIFT PRESSURE AT STUMP (kN/m²)

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TYPICAL LOADS (kN/m²)

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

REV.	DESCRIPTION	DATE	INIT.
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CONTACT DETAILS
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PHONE 1300 538 356

EMAIL info@levelmaster.com.au

PROJECT
ADJUSTABLE POST HEADS

TITLE
SCREW ON CONNECTORS (CHS)

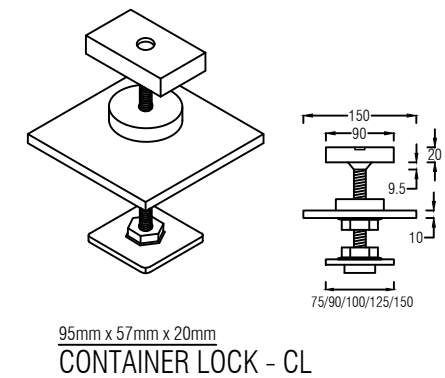
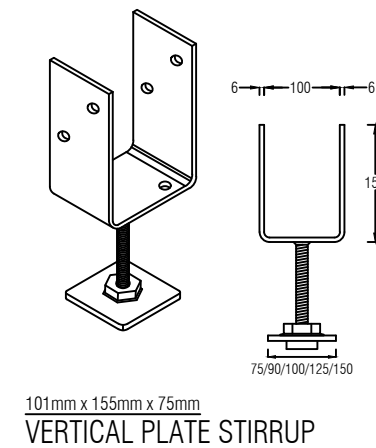
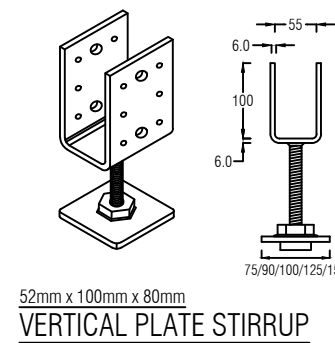
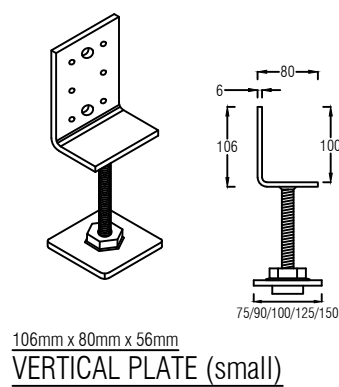
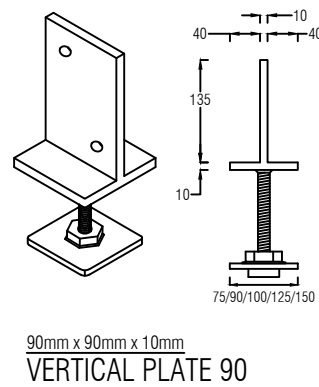
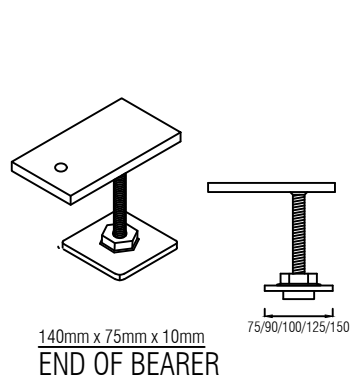
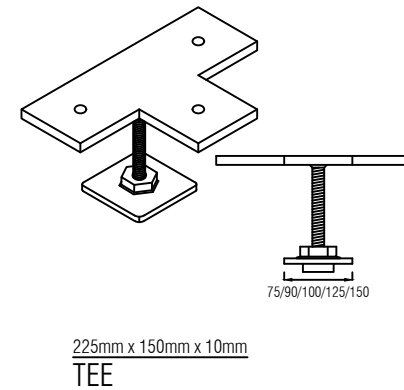
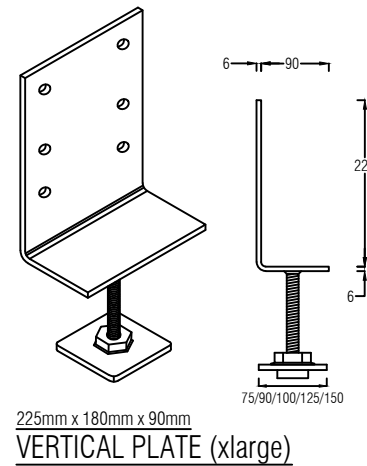
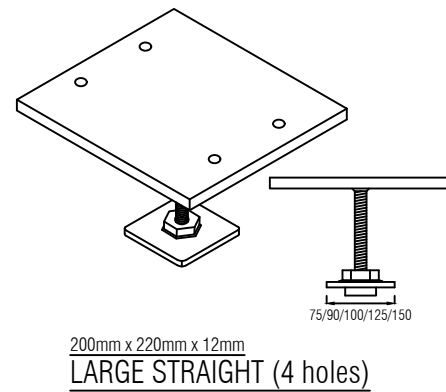
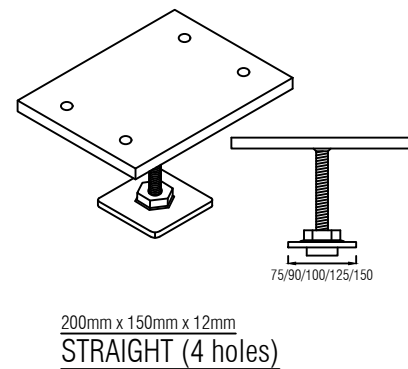
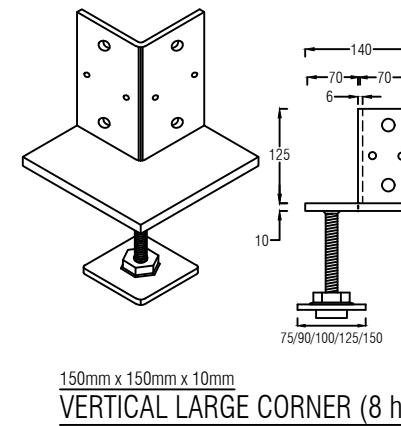
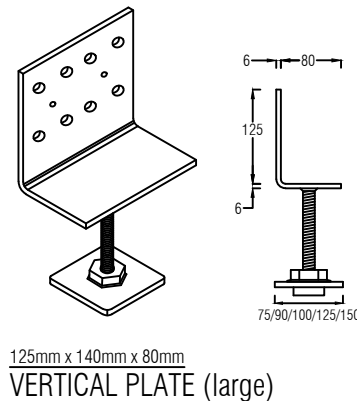
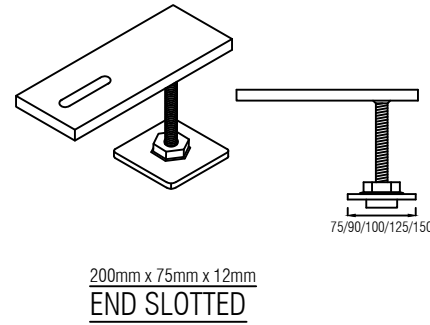
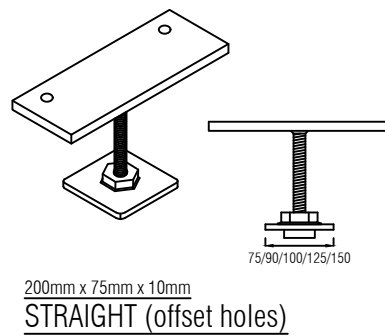
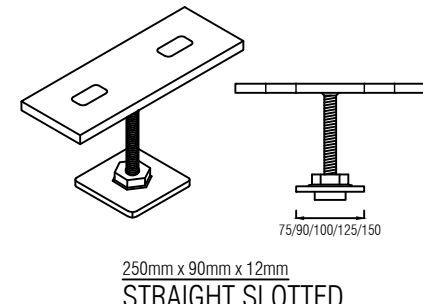
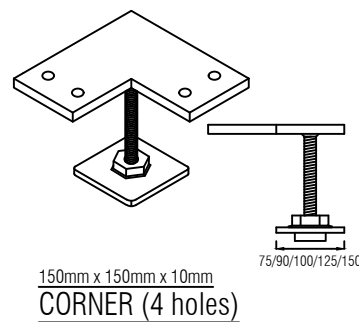
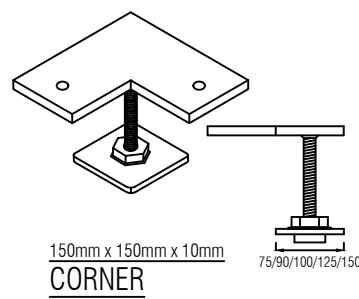
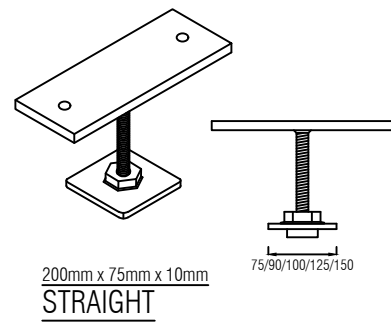
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PCE2247.1-S02	1	

GENERAL NOTES	
1	FOR ECCENTRICALLY LOADED CONDITIONS, LIMIT THE COMPRESSION LOAD TO MAX. 10kN; TENSION LOAD TO MAX. 5kN.
2	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/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
ALL SCALES ARE AS SHOWN (A3)

REV.	DESCRIPTION	DATE	INIT.
A	PRELIMINARY ISSUE	MAY 2023	-
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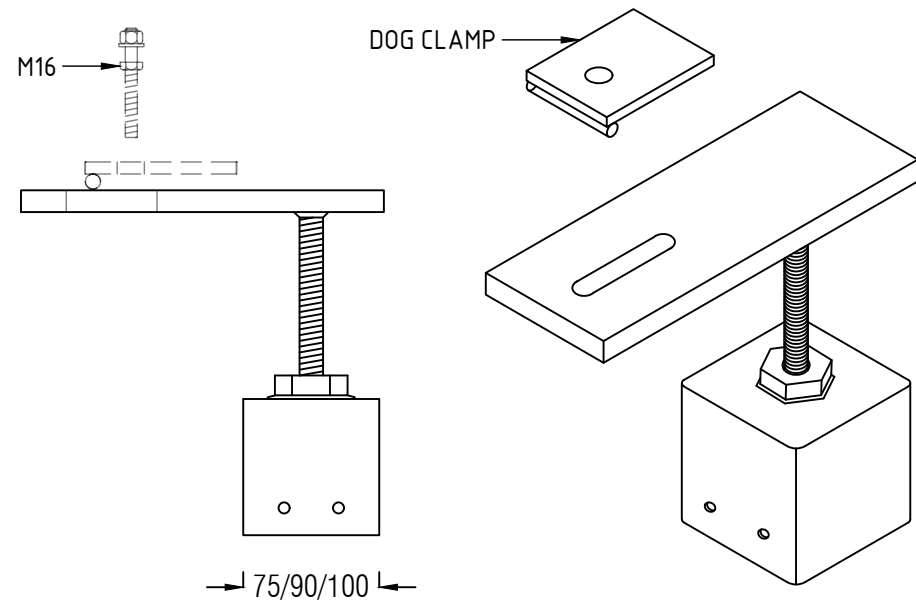


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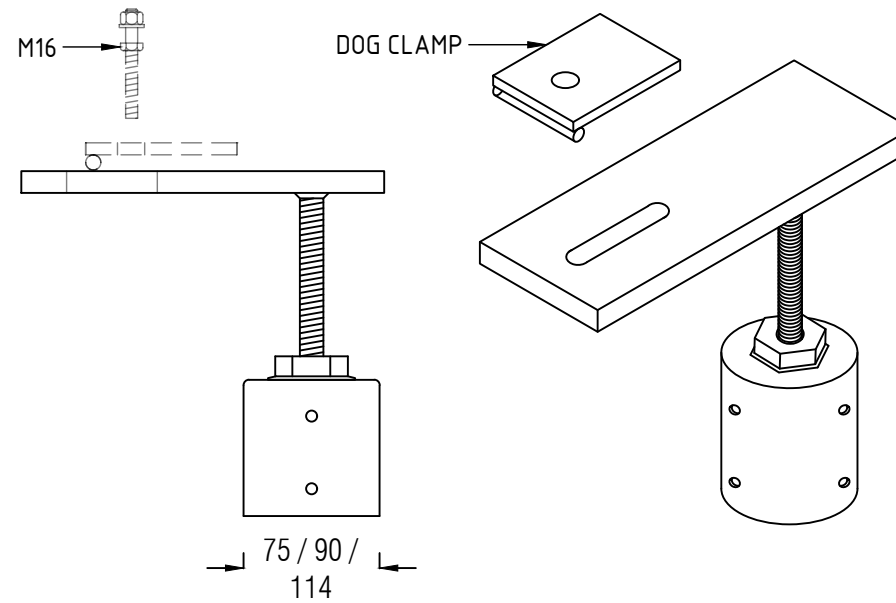
PROJECT
ADJUSTABLE POST HEADS

TITLE
WELD ON CONNECTORS (SHS)

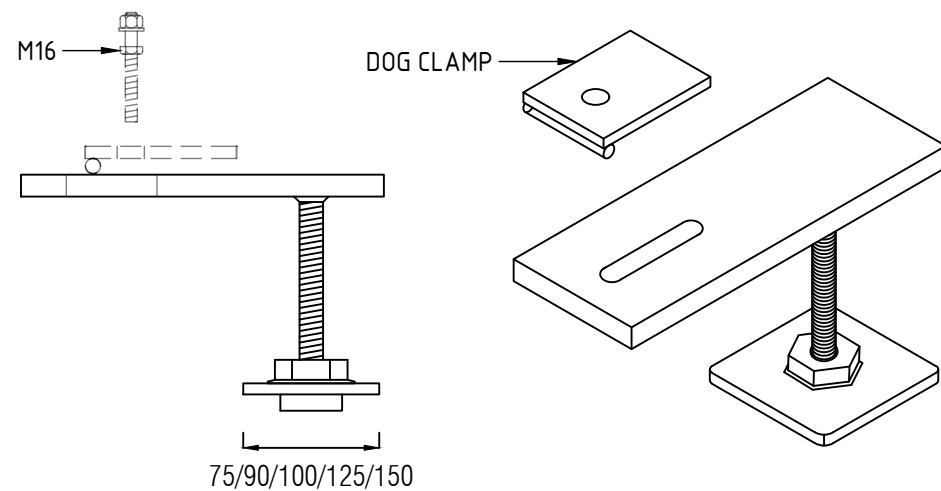
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PCE2247.1-S03	1	



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
ALL SCALES ARE AS SHOWN (A3)

REV.	DESCRIPTION	DATE	INIT.
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PROJECT
ADJUSTABLE POST HEADS

TITLE
DOG CLAMP CONNECTORS

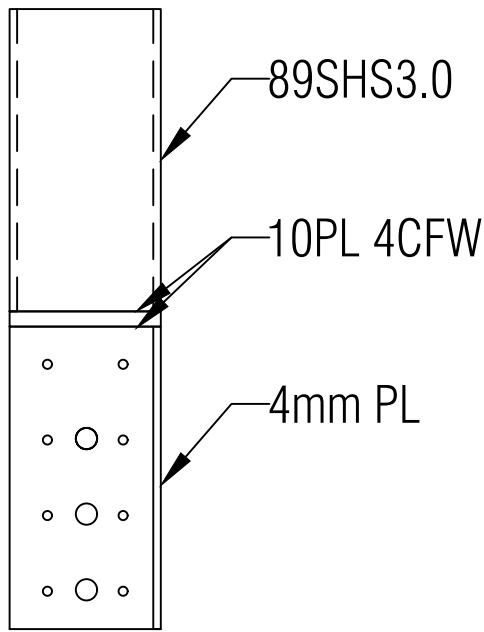
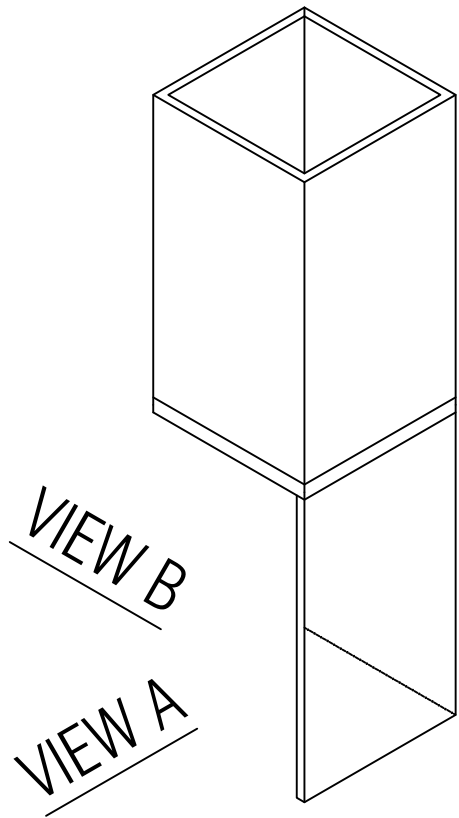
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PCE2247.1 - S04	1	

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

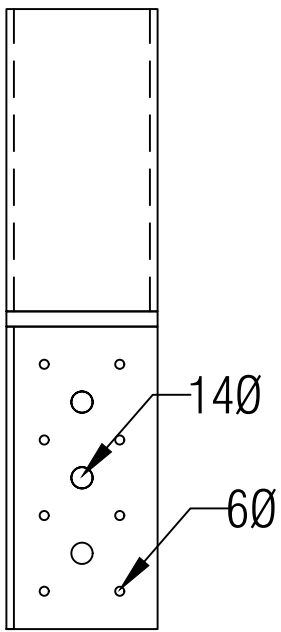
*LEVELMASTER RETROFIT BRACKET CAPACITIES (kN)	
6 / M12-100 ANCHOR SCREWS TO CONCRETE	36
8 / 14g SCREWS (22mm) TO 3mm STEEL COLUMN (min)	36
12 / 14g SCREWS (22mm) TO 3mm STEEL COLUMN (min)	42
12 / #14 TYPE 17 SCREWS (40mm) TO HWD COLUMN	36
16 / #14 TYPE 17 SCREWS (40mm) TO HWD COLUMN	42

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.





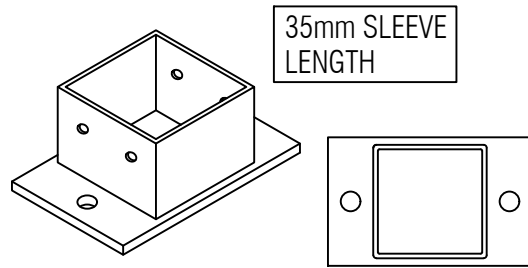
VIEW A



VIEW B

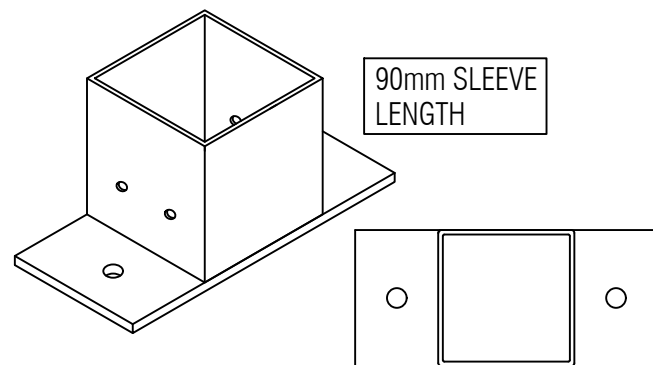
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REV.	DESCRIPTION	DATE	INIT.	 www.pearce.com.au 4B/2404 LOGAN RD, info@pearce.com.au EIGHT MILE PLAINS QLD 4113	 Stronger. Easier. Faster. ADJUSTABLE HOUSE STUMPS	CONTACT DETAILS WEB www.levelmaster.com.au EMAIL info@levelmaster.com.au PHONE 1300 538 356	PROJECT	TITLE	DRAWN	DESIGNED	DATE
A	PRELIMINARY ISSUE	MAY2023	-				ADJUSTABLE POST HEADS	BASE PLATE (SHS)	-	-	MAY 2024
0	FOR CERTIFICATION	MAY2023	-						CHECKED	APPROVED	
1	FOR CERTIFICATION	MAY2024	-						N.Z.		
								DRAWING No.	REV.		
								PCE2247.1 - S05	1		



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

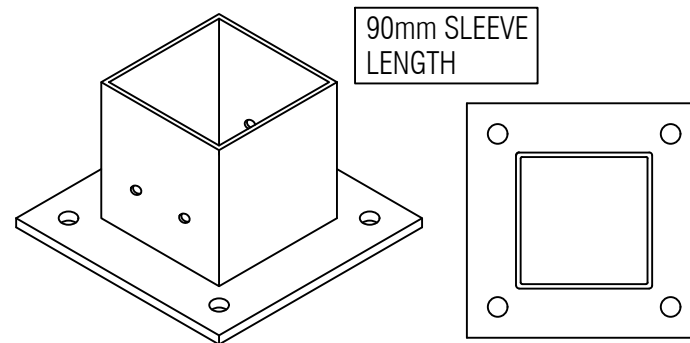
MAX UPLIFT = 36.0 kN



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)



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

- 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 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

*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

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

REV.	DESCRIPTION	DATE	INIT.
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PROJECT

ADJUSTABLE POST
 HEADS

TITLE

RETROFIT JOINER

DRAWN	DESIGNED	DATE
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N.Z.		
DRAWING No.	REV.	
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