PEER Consulting Engineers

More than just engineers!
PEER Consulting Engineers Pty Ltd
PROJECT MANAGEMENT • CIVIL • STRUCTURAL
info@peerce.com.au
www.peerce.com.au
07 3841 2046
4B/2404 Logan Road, Eight Mile Plains QLD 4113

Building Act 1993
Section 238(1)(a)
Building Regulations 2018
Regulation 126

GENERIC CERTIFICATE OF COMPLIANCE FOR PROPOSED BUILDING WORK

This certificate is issued to

This certificate is issued in relation to the building work at: The State of Victoria

Nature of building work

Construction of LevelMaster Post Heads

Building classification

BCA Classification: 1 & 10a

Prescribed classes of building work for which this certificate is issued:

Design or part of the design of building work relating to Structural matter.

Documents setting out the design that is certified by this certificate:

- Drawing Set – PCE2247.1 - Rev 0. MAY 2023 – Adjustable Post Heads
- Design Certification – LEVELMASTER – Post Heads

The design certified by the certificate complies with the following provisions:

- 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

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I prepared the design, or part of the design, set out in the documents listed above.

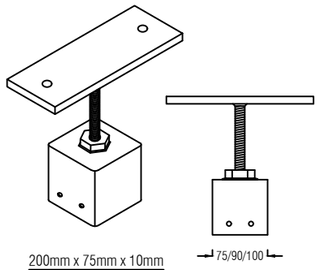
I certify that the design set out in the documents listed above complies with the provisions set out above.

I believe that I hold the required skills, experience and knowledge to issue this certificate and can demonstrate this if requested to do so.

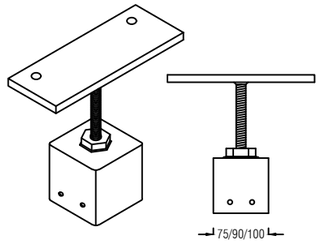
This document in no way reduces the responsibilities of the architect, builder or installer in the design and construction of this building.

Endorsed building engineer

Full Name	Mengting Zhao
Address	PEER Consulting Engineers 4B/2404 Logan Road, Eight Mile Plains QLD 4113
Email	info@peerce.com.au
Endorsed building engineer area of engineering	Structural
Endorsed building engineer registration number	PE0005236
Date of issue of certificate	01/05/2023 This certificate expires on 30/04/2024
Signature	



200mm x 75mm x 10mm
STRAIGHT



200mm x 75mm x 10mm
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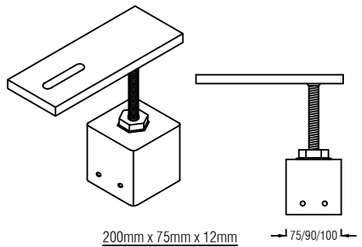

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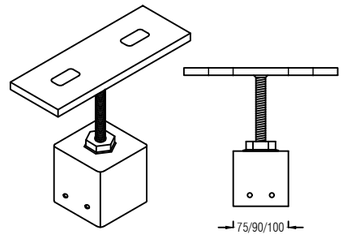

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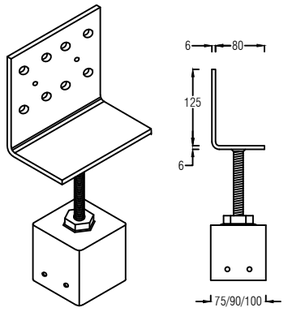
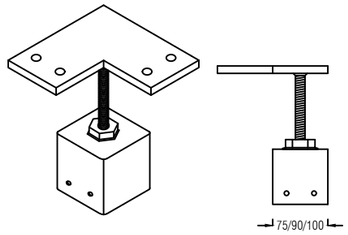
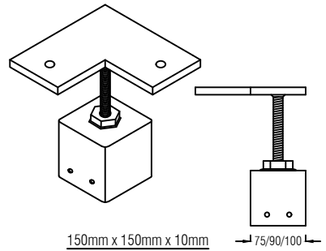
STRAIGHT SLOTTED



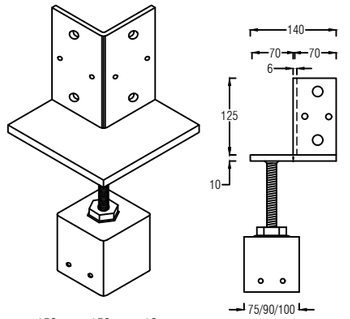
125mm x 140mm x 80mm
VERTICAL PLATE (large)



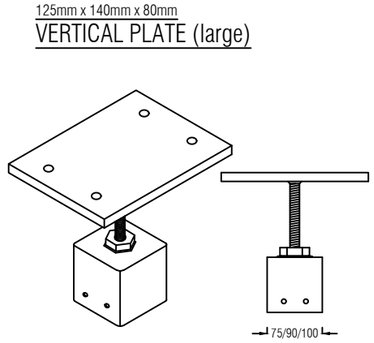
150mm x 150mm x 10mm
CORNER (4 holes)



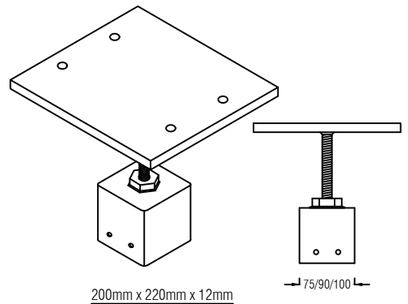
150mm x 150mm x 10mm
CORNER



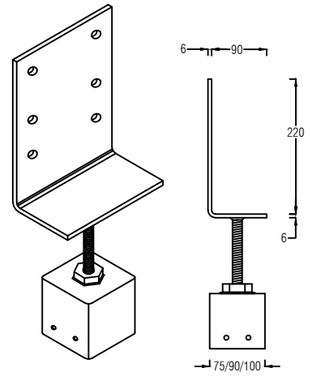
150mm x 150mm x 10mm
VERTICAL LARGE CORNER (8 holes)



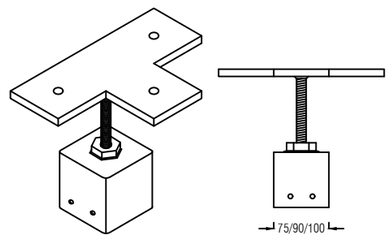
200mm x 150mm x 12mm
STRAIGHT (4 holes)



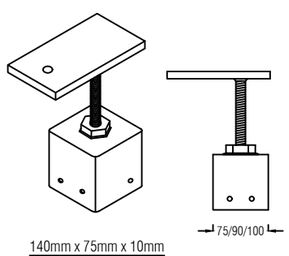
200mm x 220mm x 12mm
LARGE STRAIGHT (4 holes)



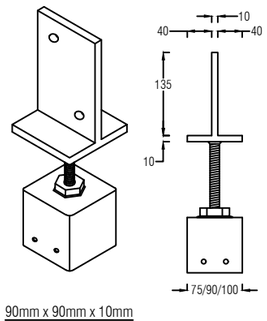
225mm x 180mm x 90mm
VERTICAL PLATE (xlarge)



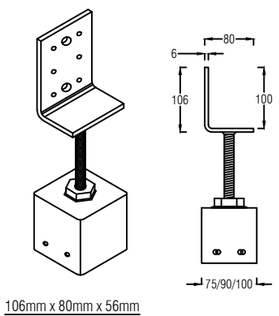
225mm x 150mm x 10mm
TEE



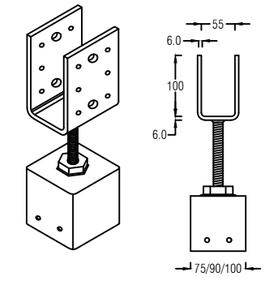
140mm x 75mm x 10mm
END OF BEARER



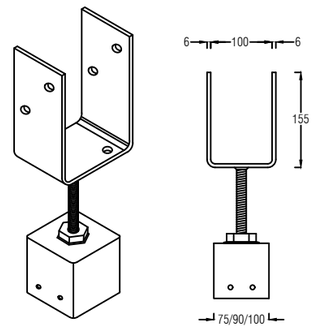
90mm x 90mm x 10mm
VERTICAL PLATE 90



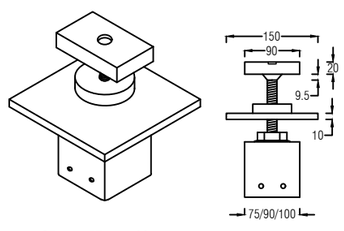
106mm x 80mm x 56mm
VERTICAL PLATE (small)



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. 4 SCREWS (2 EACH OPPOSITE FACE) TO BE USED FOR CAP TO COLUMN CONNECTION. UNLESS FIXING TO EXISTING COLUMNS AS PER EXISTING COLUMN TABLE.
2. ALL SCREWS FOR CAP TO COLUMN CONNECTION TO BE CLASS 4 – 12g – 24TPI SCREWS FROM ICCONS PTY LTD.
3. *IF NOT CENTRALLY LOADED, ALL UPLIFT & DOWNWARDS CAPACITIES TO BE 13.0 kN.
4. ALL STEEL MATERIALS TO BE (MIN.) G250 (U.N.O.)

*PRODUCT CAPACITY

MAX. UPLIFT	36kN
MAX. DOWNWARDS	125kN

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 SCREW-ON SHS)

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

*NET WIND 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
DOWNWARDS	0.41	0.64	1.15	0.76	1.32	2.39

TYPICAL LOADS (kN/m^2)

DOMESTIC FLOOR	2.85
SHEET ROOF	0.86
CLAD WALLS	0.42

EXAMPLE:-

* LEVEL MASTER STUMP SUPPORTING 9m^2 OF ROOF LOAD AND 9m^2 OF FLOOR LOAD 3m OF WALL FRAME 2.4m HIGH IN AN N3 WIND AREA.

EXAMPLE WORKINGS:-

DOWNWARDS = 9m^2 x 0.86kN/m^2 (roof) +
9m^2 x 2.85kN/m^2 (floor) +
3m wall x 2.4 high x 0.42kN/m^2 (wall)
= 36.4 kN total.

N3 WIND UPLIFT = 9m^2 x 1.01kN/m^2
= 9.09 kN total.

* SO USE LEVEL MASTER CENTRE LOADED ADJUSTABLE TOP/POST HEAD
BECAUSE: 36.4 kN < 150 kN
AND 9.09 kN < 13 kN.

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

*ORIGINAL DATA PROVIDED BY SUMMERMORE Pty Ltd.

REV.	DESCRIPTION	DATE	INIT.
A	PRELIMINARY ISSUE	MAY2023	-
0	FOR CERTIFICATION	MAY2023	-

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Professional Economical Efficient Reputable

CONTACT DETAILS
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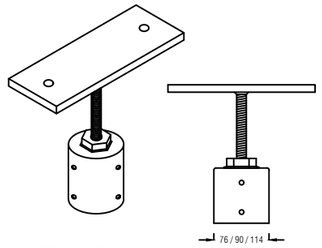
PHONE 07 3841 2046
POST 4B/2404 LOGAN RD, EIGHT MILE PLAINS QLD 4113

CLIENT: LEVEL MASTER

PROJECT: ADJUSTABLE POST HEADS

TITLE: SCREW ON CONNECTORS (SHS)

DRAWN	DESIGNED	DATE
-	-	MAY 2023
CHECKED: N.Z.	APPROVED:	
DRAWING No.: PCE2247.1 – S01		REV.: 0



200mm x 75mm x 10mm
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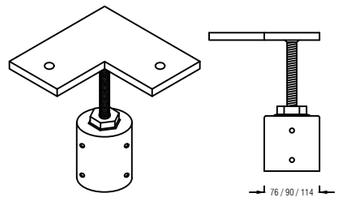
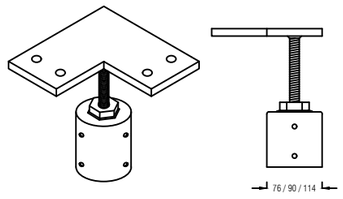
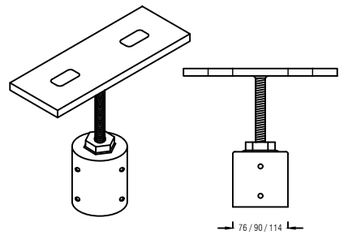


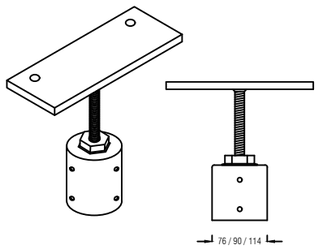
150mm x 150mm x 10mm
CORNER



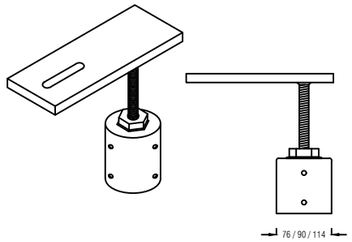
150mm x 150mm x 10mm
CORNER (4 holes)



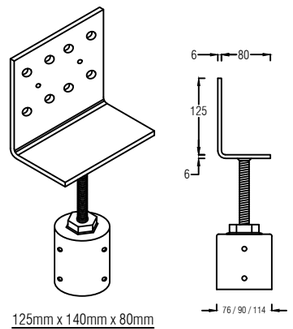
250mm x 90mm x 12mm
STRAIGHT SLOTTED



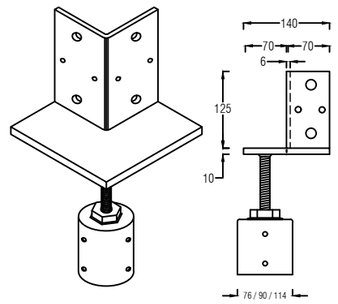
200mm x 75mm x 10mm
STRAIGHT (offset holes)



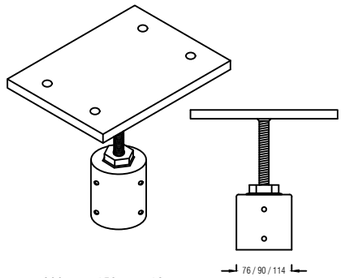
200mm x 75mm x 12mm
END SLOTTED



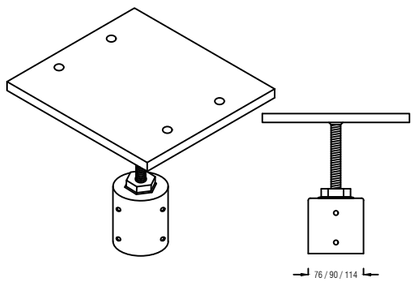
125mm x 140mm x 80mm
VERTICAL PLATE (large)



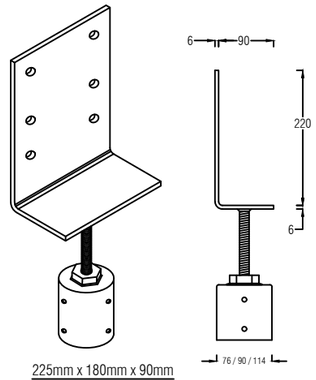
150mm x 150mm x 10mm
VERTICAL LARGE CORNER (8 holes)



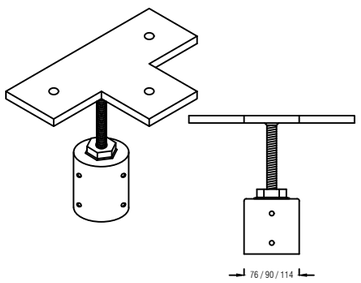
200mm x 150mm x 12mm
STRAIGHT (4 holes)



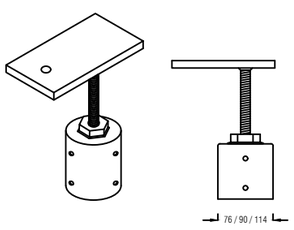
200mm x 220mm x 12mm
LARGE STRAIGHT (4 holes)



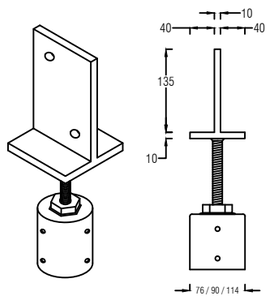
225mm x 180mm x 90mm
VERTICAL PLATE (xlarge)



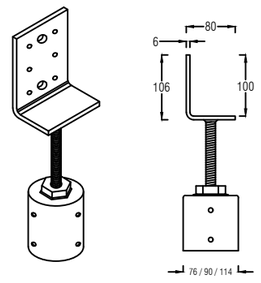
225mm x 150mm x 10mm
TEE



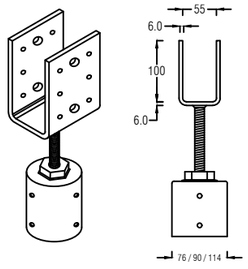
140mm x 75mm x 10mm
END OF BEARER



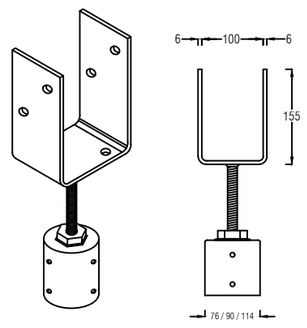
90mm x 90mm x 10mm
VERTICAL PLATE 90



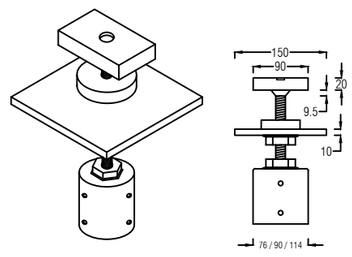
106mm x 80mm x 56mm
VERTICAL PLATE (small)



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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4. ALL STEEL MATERIALS TO BE (MIN.) G250 (U.N.O.)

*PRODUCT CAPACITY	
MAX. UPLIFT	72kN
MAX. DOWNWARDS	125kN
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 SCREW-ON SHS)	
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*NET WIND PRESSURE AT STUMP (kN/m^2)						
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SHEET ROOF	0.86
CLAD WALLS	0.42

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= 36.4 kN total.

N3 WIND UPLIFT = 9m^2 x 1.01kN/m^2
= 9.09 kN total.

* SO USE LEVEL MASTER CENTRE LOADED ADJUSTABLE TOP/POST HEAD
BECAUSE: 36.4 kN < 150 kN
AND 9.09 kN < 13 kN.

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

*ORIGINAL DATA PROVIDED BY SUMMERMORE Pty Ltd.

REV.	DESCRIPTION	DATE	INIT.
A	PRELIMINARY ISSUE	MAY2023	–
0	FOR CERTIFICATION	MAY2023	–

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Professional Economical Efficient Reputable

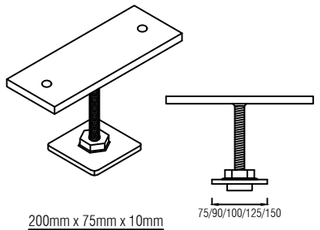
CONTACT DETAILS
EMAIL info@peerce.com.au
WEB www.peerce.com.au
PHONE 07 3841 2046
POST 4B/2404 LOGAN RD, EIGHT MILE PLAINS QLD 4113

CLIENT: LEVEL MASTER

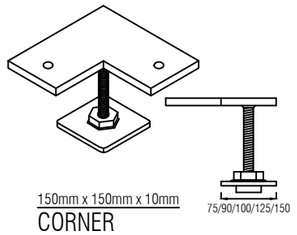
PROJECT: ADJUSTABLE POST HEADS

TITLE: SCREW ON CONNECTORS (CHS)

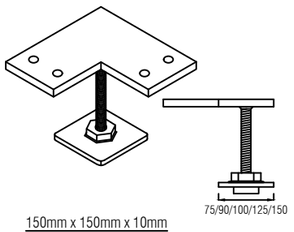
DRAWN	DESIGNED	DATE
–	–	MAY 2023
CHECKED: N.Z.	APPROVED:	
DRAWING No.: PCE2247.1 – S02		REV.: 0



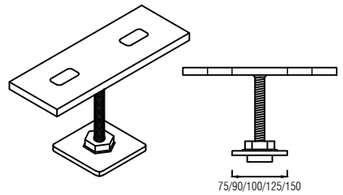
200mm x 75mm x 10mm
STRAIGHT



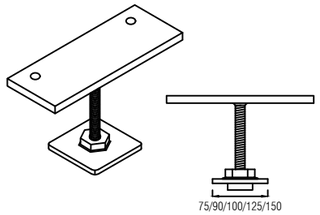
150mm x 150mm x 10mm
CORNER



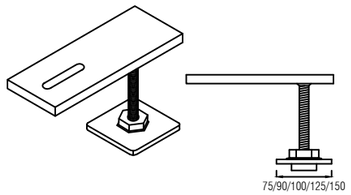
150mm x 150mm x 10mm
CORNER (4 holes)



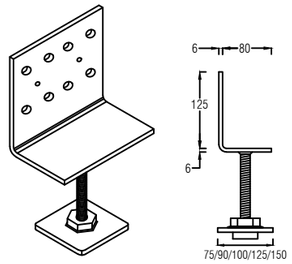
250mm x 90mm x 12mm
STRAIGHT SLOTTED



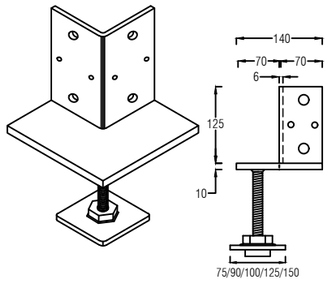
200mm x 75mm x 10mm
STRAIGHT (offset holes)



200mm x 75mm x 12mm
END SLOTTED



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



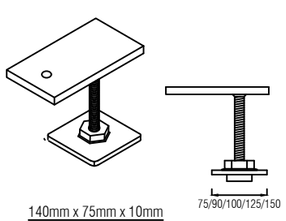
150mm x 150mm x 10mm
VERTICAL LARGE CORNER (8 holes)

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

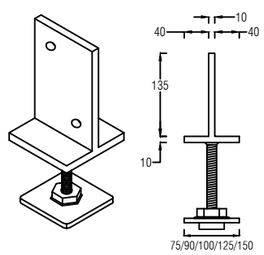
200mm x 220mm x 12mm
LARGE STRAIGHT (4 holes)

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

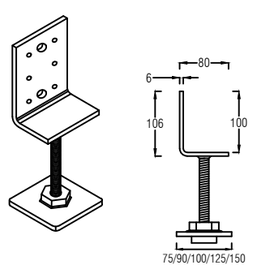
225mm x 150mm x 10mm
TEE



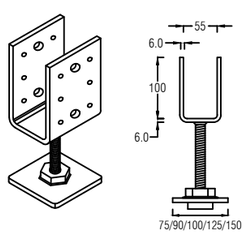
140mm x 75mm x 10mm
END OF BEARER



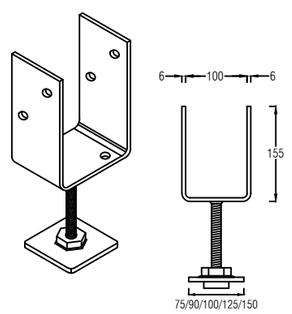
90mm x 90mm x 10mm
VERTICAL PLATE 90



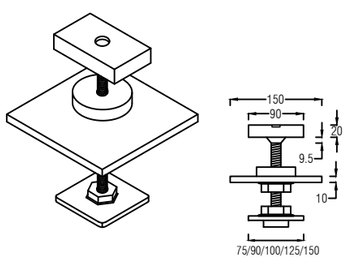
106mm x 80mm x 56mm
VERTICAL PLATE (small)



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

1. 4 SCREWS (2 EACH OPPOSITE FACE) TO BE USED FOR CAP TO COLUMN CONNECTION. UNLESS FIXING TO EXISTING COLUMNS AS PER EXISTING COLUMN TABLE.
2. ALL SCREWS FOR CAP TO COLUMN CONNECTION TO BE CLASS 4 – 12g – 24TPI SCREWS FROM ICCONS PTY LTD.
3. *IF NOT CENTRALLY LOADED, ALL UPLIFT & DOWNWARDS CAPACITIES TO BE 13.0 kN.
4. ALL STEEL MATERIALS TO BE (MIN.) G250 (U.N.O.)

*PRODUCT CAPACITY	
MAX. UPLIFT	125kN
MAX. DOWNWARDS	125kN
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 SCREW-ON SHS)	
THE CAPACITIES ARE FOR THE POST HEAD PRODUCT ITSELF. OTHER ELEMENTS SUCH AS SCREWS AND TIMBER ARE NOT CONSIDERED.	

*NET WIND 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
DOWNWARDS	0.41	0.64	1.15	0.76	1.32	2.39

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)

*ORIGINAL DATA PROVIDED BY SUMMERMORE Pty Ltd.

REV.	DESCRIPTION	DATE	INIT.
A	PRELIMINARY ISSUE	MAY2023	–
0	FOR CERTIFICATION	MAY2023	–

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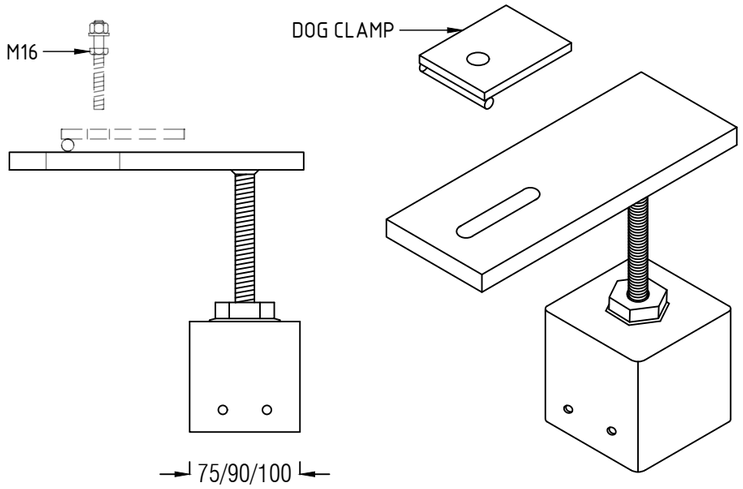
PHONE 07 3841 2046
POST 4B/2404 LOGAN RD, EIGHT MILE PLAINS QLD 4113

CLIENT: LEVEL MASTER

PROJECT: ADJUSTABLE POST HEADS

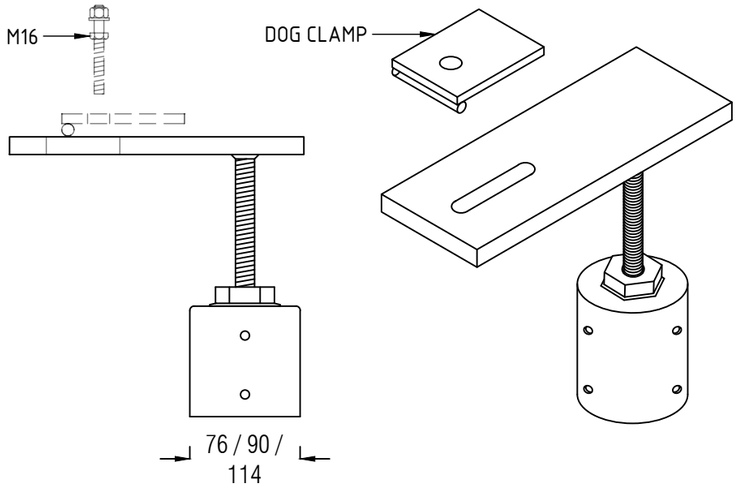
TITLE: WELD ON CONNECTORS (SHS)

DRAWN	DESIGNED	DATE
–	–	MAY 2023
CHECKED: N.Z.	APPROVED:	
DRAWING No.: PCE2247.1 – S03		REV.: 0



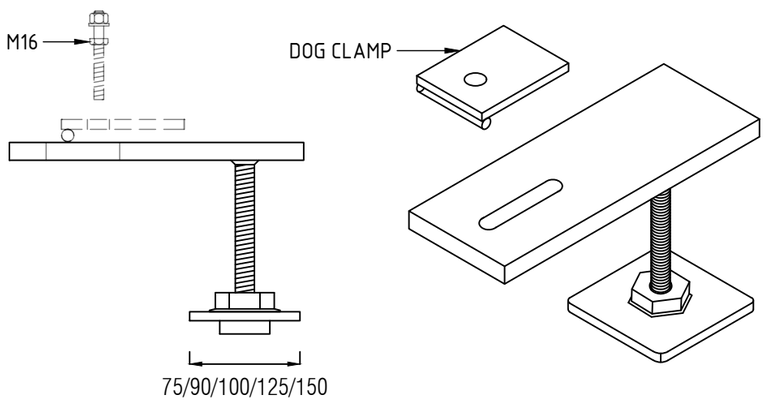
100mm x 75mm x 8mm

SCREW ON (SHS)



100mm x 75mm x 8mm

SCREW ON (CHS)



100mm x 75mm x 8mm

WELD ON (SHS)

GENERAL NOTES

1. 4 SCREWS (2 EACH OPPOSITE FACE) TO BE USED FOR COLUMN TO BASEPLATE CONNECTION.
2. ALL SCREWS FOR CAP TO COLUMN CONNECTION TO BE CLASS 4 - 12g - 24TPI SCREWS FROM ICCONS PTY LTD.
3. *IF NOT CENTRALLY LOADED, ALL DOWNWARDS CAPACITIES TO BE 13.0 kN.
4. 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	125kN
CLAMPING CAPACITY	38kN
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 WIND 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
DOWNWARDS	0.41	0.64	1.15	0.76	1.32	2.39

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

EXAMPLE:-

* LEVEL MASTER STUMP SUPPORTING 9m^2 OF ROOF LOAD AND 9m^2 OF FLOOR LOAD 3m OF WALL FRAME 2.4m HIGH IN AN N3 WIND AREA.

EXAMPLE WORKINGS:-

DOWNWARDS=9m^2 x 0.86kN/m^2 (roof) +
9m^2 x 2.85kN/m^2 (floor) +
3m wall x 2.4 high x 0.42kN/m^2 (wall)
= 36.4 kN total.

N3 WIND UPLIFT= 9m^2 x 1.01kN/m^2
= 9.09 kN total.

* SO USE LEVEL MASTER CENTRE LOADED ADJUSTABLE TOP/POST HEAD
BECAUSE: 36.4 kN < 150 kN
AND 9.09 kN < 13 kN.

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

*BASED ON THE ORIGINAL DATA PROVIDED BY SUMMERMORE Pty Ltd.

REV.	DESCRIPTION	DATE	INIT.
A	PRELIMINARY ISSUE	MAY2023	-
0	FOR CERTIFICATION	MAY2023	-

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PHONE 07 3841 2046
POST 4B/2404 LOGAN RD, EIGHT MILE PLAINS QLD 4113

CLIENT: LEVEL MASTER

PROJECT: ADJUSTABLE POST HEADS

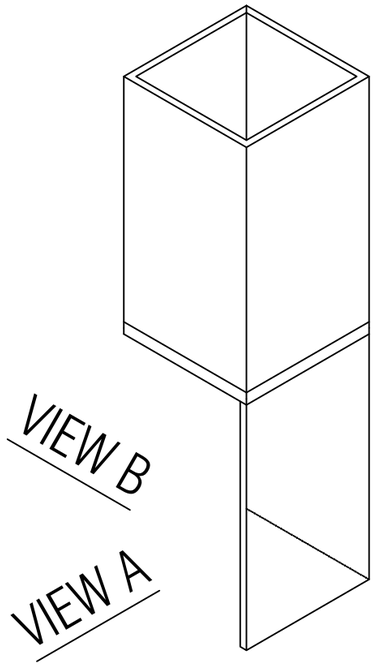
TITLE: DOG CLAMP CONNECTORS

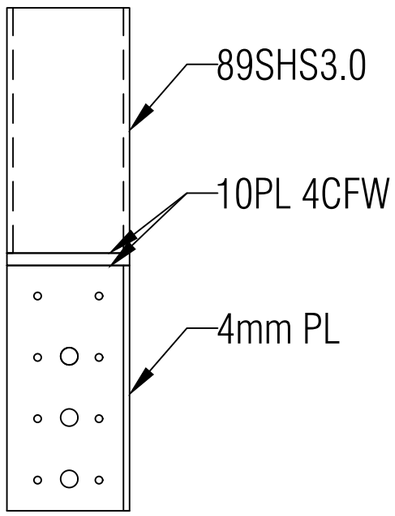
DRAWN	DESIGNED	DATE
-	-	MAY 2023
CHECKED: N.Z.	APPROVED:	
DRAWING No.: PCE2247.1 – S04		REV.: 0

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 (offset)

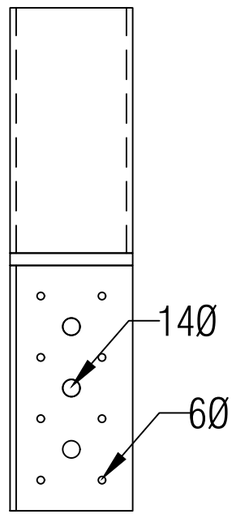
*LEVELMASTER RETROFIT BRACKET CAPACITIES (kN)	
6 / M12-100 ANCHOR SCREWS TO CONCRETE	43.8
8 / 14g SCREWS (22mm) TO 3mm STEEL COLUMN (min)	39.6
12 / 14g SCREWS (22mm) TO 3mm STEEL COLUMN (min)	43.8
12 / #14 TYPE 17 SCREWS (40mm) TO HWD COLUMN	36.4
16 / #14 TYPE 17 SCREWS (40mm) TO HWD COLUMN	43.8

ENSURE ALL SCREWS ARE DIVIDED EQUALLY TO BOTH 4mm SIDE CLEATS.
(EG - 12/SCREWS REQUIRED, PROVIDE 6/SCREWS EACH CLEAT)





VIEW A



VIEW B

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

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REV.	DESCRIPTION	DATE	INIT.
A	PRELIMINARY ISSUE	MAY2023	-
0	FOR CERTIFICATION	MAY2023	-

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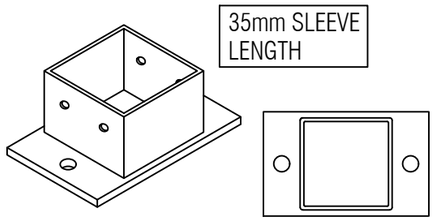
PHONE 07 3841 2046
POST 4B/2404 LOGAN RD, EIGHT MILE PLAINS QLD 4113

CLIENT: LEVEL MASTER

PROJECT: ADJUSTABLE POST HEADS

TITLE: BASE PLATE (SHS)

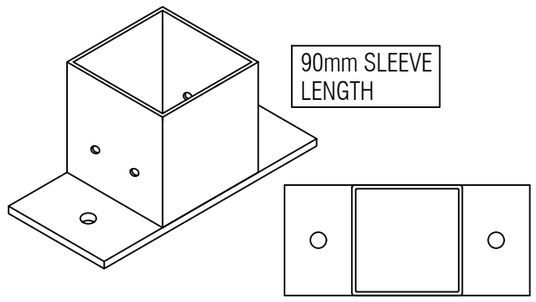
DRAWN	DESIGNED	DATE
-	-	MAY 2023
CHECKED: N.Z.	APPROVED:	
DRAWING No.: PCE2247.1 – S05		REV.: 0



SUIT 75mm & 89mm POST

CAST IN BASEPLATE TO CONCRETE

MAX UPLIFT = 36.0 kN

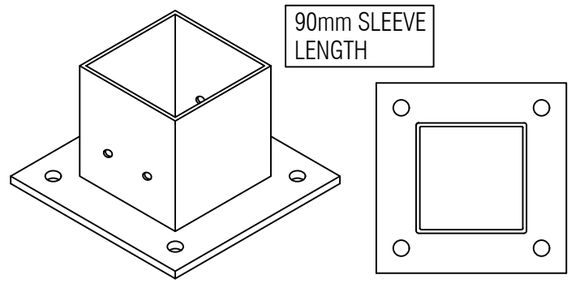


SUIT 75mm, 89mm & 100mm POST

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. 4 SCREWS (2 EACH OPPOSITE FACE) TO BE USED FOR COLUMN TO BASEPLATE CONNECTION.
2. ALL SCREWS FOR CAP TO COLUMN CONNECTION TO BE CLASS 4 - 12g - 24TPI SCREWS FROM ICCONS PTY LTD.
3. *IF NOT CENTRALLY LOADED, ALL UPLIFT & DOWNWARDS CAPACITIES TO BE 13.0 kN.
4. 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)
89SHS3.5 OR 100SHS4.0	150	4500
75SHS3.0	150	2500
75SHS4.0	150	3000
ALL OTHER COLUMNS/HEIGHTS TO BE SITE SPECIFIC DESIGNED.		

*NET WIND 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
DOWNWARDS	0.41	0.64	1.15	0.76	1.32	2.39

TYPICAL LOADS (kN/m^2)

DOMESTIC FLOOR	2.85
SHEET ROOF	0.86
CLAD WALLS	0.42

EXAMPLE:-

* LEVEL MASTER STUMP SUPPORTING $9m^2$ OF ROOF LOAD AND $9m^2$ OF FLOOR LOAD 3m OF WALL FRAME 2.4m HIGH IN AN N3 WIND AREA.

EXAMPLE WORKINGS:-

DOWNWARDS = $9m^2$ x 0.86kN/m^2 (roof) +
$9m^2$ x 2.85kN/m^2 (floor) +
3m wall x 2.4 high x 0.42kN/m^2 (wall)
= 36.4 kN total.

N3 WIND UPLIFT = $9m^2$ x 1.01kN/m^2
= 9.09 kN total.

* SO USE LEVEL MASTER CENTRE LOADED ADJUSTABLE TOP/POST HEAD
BECAUSE: 36.4 kN < 150 kN
AND 9.09 kN < 13 kN.

DO NOT SCALE FROM DRAWING
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CLIENT: LEVEL MASTER

PROJECT: ADJUSTABLE POST HEADS

TITLE: RETROFIT JOINER

DRAWN	DESIGNED	DATE
-	-	MAY 2023
CHECKED: N.Z.	APPROVED:	
DRAWING No.: PCE2247.1 – S06		REV.: 0