CERTIFICATE OF THE RESPONSIBLE DESIGNER

Section 94
Section 106
Section 129
Section 155

Form **35**

To: *Owner name*

Address

Suburb/postcode

Designer details:

Name:	Mengting (Nike) Zhao	Category:	Structural Engineer
Business name:	PEER Consulting Engineers	Phone No:	07 3209 4702
Business address:	4B/2404 Logan Road		
	Eight Mile Plains 4113	Fax No:	
Licence No:	PE0005236	Email address:	info@peerce.com.au

Details of the proposed work:

Owner/Applicant

Address:

TAS

Designer's project reference No.: PCE2247.1

Lot No:

Type of work: Building work [x] Plumbing work [ ] *(X all applicable)*

Description of work:

LevelMaster Adjustable House Stump Components

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

Certificate Type:	Certificate	Responsible Practitioner
	☐ Building design	Architect or Building Designer
	☒ Structural design	Engineer or Civil Designer
	☐ Fire Safety design	Fire Engineer
	☐ Civil design	Civil Engineer or Civil Designer
	☐ Hydraulic design	Building Services Designer
	☐ Fire service design	Building Services Designer
	☐ Electrical design	Building Services Designer
	☐ Mechanical design	Building Service Designer
	☐ Plumbing design	Plumber-Certifier; Architect, Building Designer or Engineer
	☐ Other (specify)	

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

Other details:

LevelMaster Adjustable House Stump Components Series for the State of Tasmania

Design documents provided:

The following documents are provided with this Certificate –

Document description:

Drawing numbers: PCE2247.1 – Rev 2	Prepared by: PEERCE	Date: AUG 2024
Schedules:	Prepared by:	Date:
Specifications: Design Certification - LEVELMASTER – House Stump Components Series	Prepared by: PEERCE	Date: 01/09/2024
Computations:	Prepared by:	Date:
Performance solution proposals:	Prepared by:	Date:
Test reports:	Prepared by:	Date:

Standards, codes or guidelines relied on in design process:

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:

Attribution as designer:

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.

	Name: (print)	*Signed*	*Date*
Designer:	Mengting ZHAO		01/09/2024 *This certificate expires on 30/04/2025

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

	Name: (print)	*Signed*	*Date*
Designer:			

PEER Consulting Engineers

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info@peerce.com.au
www.peerce.com.au
07 3841 2046
4B/2404 Logan Road, Eight Mile Plains QLD 4113

Generic Structural Design Certificate
LEVELMASTER – House Stump Components Series

01/09/2024

To whom it may concern,

We, **PEER Consulting Engineers** certify that we have designed and reviewed the LevelMaster (Adjustable) House Stump Components 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 2, AUG 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

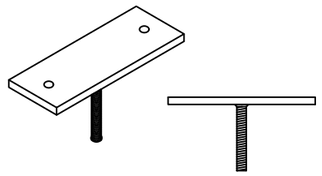
***This certificate expires on 30/04/2025.**

KEY NOTES

1. THE CAPACITIES AND LOADS MENTIONED IN THIS DRAWING ARE BASED ON THE LABORATORY LOAD TESTS. LOADS ARE ASSUMED TO BE APPLIED THROUGH THE THREAD CENTRALLY.
2. THE CAPACITIES ARE FOR THE LEVEL MASTER POST HEAD PRODUCT(S) ITSELF. OTHER ELEMENTS (SUCH AS FASTENERS AND TIMBER) ARE NOT COVERED.
3. THE CAPACITIES ASSUME THE EXPOSED THREAD HEIGHT <= 150mm.
4. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS.
5. REFER TO THE GENERAL NOTE FOR ECCENTRICALLY LOADED CONDITIONS.
6. ALL TOPS ARE ABLE TO CONNECT WITH SCREW ON SHS CONNECTORS, SCREW ON CHS CONNECTORS, OR WELD ON CONNECTORS.

COMPRESSION NOTE

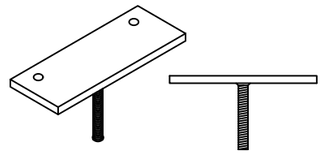
1. THE COMPRESSION CAPACITY PROVIDED IN THE PRODUCT SCHEDULE REPRESENTS THE PROOF LOAD BASED ON THE LABORATORY TESTS.
2. THE YIELD LOAD OF THE STUMP TOPS WITH M30 THREAD = 150kN (COMPRESSION).
3. IF REFERRING YIELD CAPACITY, THE DESIGN LOAD PROVIDED BY THE STRUCTURAL ENGINEERS FOR COMPARISON MUST BE FACTORED, AND COMPLIANCE WITH THE LOADS COMBINATIONS AS PER AS1170.0 – GENERAL PRINCIPLES.



200mm x 75mm x 10mm

TYPE – STRAIGHT

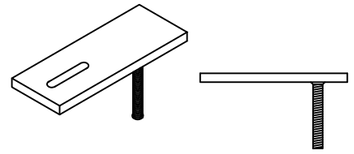
LATERAL CAPACITY (kN) WITH VARIES THREAD HEIGHT			UPLIFT CAPACITY (kN)	COMPRESSION CAPACITY (kN)
150mm	100mm	50mm		
10	15	20	30	130



200mm x 75mm x 10mm

TYPE – STRAIGHT (OFFSET HOLES)

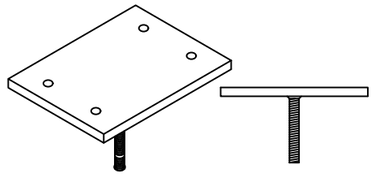
LATERAL CAPACITY (kN) WITH VARIES THREAD HEIGHT			UPLIFT CAPACITY (kN)	COMPRESSION CAPACITY (kN)
150mm	100mm	50mm		
10	13	19	25	130



200mm x 75mm x 12mm

TYPE – END SLOTTED

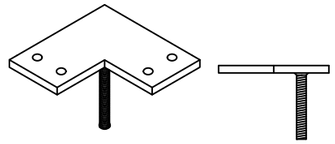
LATERAL CAPACITY (kN)	UPLIFT CAPACITY (kN)	COMPRESSION CAPACITY (kN)
N/A	7	130



200mm x 150mm x 12mm

TYPE – STRAIGHT (4 HOLES)

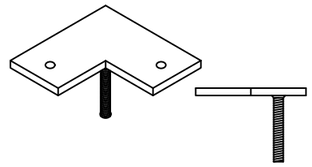
LATERAL CAPACITY (kN) WITH VARIES THREAD HEIGHT			UPLIFT CAPACITY (kN)	COMPRESSION CAPACITY (kN)
150mm	100mm	50mm		
10	12	17	45	130



150mm x 150mm x 10mm

TYPE – CORNER (4 HOLES)

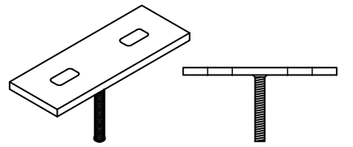
LATERAL CAPACITY (kN) WITH VARIES THREAD HEIGHT			UPLIFT CAPACITY (kN)	COMPRESSION CAPACITY (kN)
150mm	100mm	50mm		
9	12	15	20	130



150mm x 150mm x 10mm

TYPE – CORNER

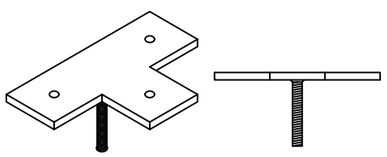
LATERAL CAPACITY (kN) WITH VARIES THREAD HEIGHT			UPLIFT CAPACITY (kN)	COMPRESSION CAPACITY (kN)
150mm	100mm	50mm		
9	11	15	20	130



250mm x 90mm x 12mm

TYPE – STRAIGHT SLOTTED

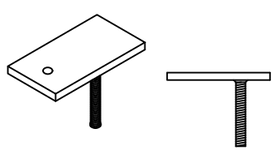
LATERAL CAPACITY (kN)	UPLIFT CAPACITY (kN)	COMPRESSION CAPACITY (kN)
N/A	13	130



225mm x 150mm x 10mm

TYPE – TEE

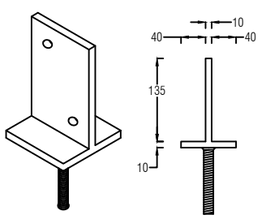
LATERAL CAPACITY (kN) WITH VARIES THREAD HEIGHT			UPLIFT CAPACITY (kN)	COMPRESSION CAPACITY (kN)
150mm	100mm	50mm		
10	13	17	23	130



140mm x 75mm x 10mm

TYPE – END OF BEARER

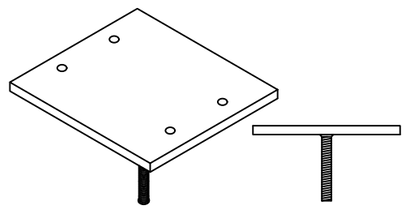
LATERAL CAPACITY (kN) WITH VARIES THREAD HEIGHT			UPLIFT CAPACITY (kN)	COMPRESSION CAPACITY (kN)
150mm	100mm	50mm		
3.5	5	7.5	8	130



90mm x 90mm x 10mm

TYPE – VERTICAL PLATE 90

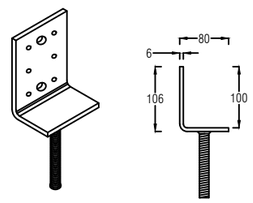
LATERAL CAPACITY (kN) WITH VARIES THREAD HEIGHT			UPLIFT CAPACITY (kN)	COMPRESSION CAPACITY (kN)
150mm	100mm	50mm		
12	16	21	15	130



200mm x 220mm x 12mm

TYPE – LARGE STRAIGHT (4 HOLES)

LATERAL CAPACITY (kN) WITH VARIES THREAD HEIGHT			UPLIFT CAPACITY (kN)	COMPRESSION CAPACITY (kN)
150mm	100mm	50mm		
9	13	15	50	130



106mm x 80mm x 56mm

TYPE – VERTICAL PLATE (SMALL)

LATERAL CAPACITY (kN) WITH VARIES THREAD HEIGHT			UPLIFT CAPACITY (kN)	COMPRESSION CAPACITY (kN)
150mm	100mm	50mm		
4.5	8	11	10	130

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

REV.	DESCRIPTION	DATE	INIT.
A	PRELIMINARY ISSUE	MAY2023	–
0	FOR CERTIFICATION	MAY2023	–
1	FOR CERTIFICATION	MAY2024	–
2	FOR CERTIFICATION	AUG2024	–

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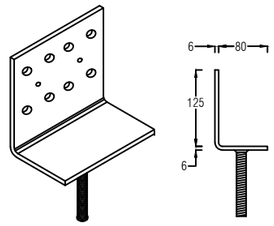
EMAIL info@levelmaster.com.au
PHONE 1300 538 356

PROJECT
(ADJUSTABLE) HOUSE STUMP COMPONENTS SERIES

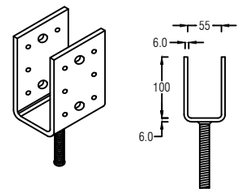
TITLE
ADJUSTABLE TOPS

DRAWN	DESIGNED	DATE
–	–	AUG 2024
CHECKED	APPROVED	
N.Z.		
DRAWING No.		REV.
PCE22471 – S01		2



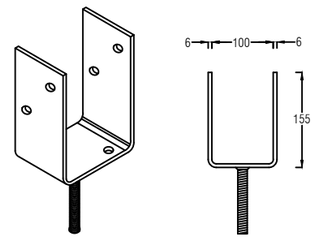
125mm x 140mm x 80mm

TYPE - VERTICAL PLATE LARGE				
LATERAL CAPACITY (kN) WITH VARIES THREAD HEIGHT			UPLIFT CAPACITY (kN)	COMPRESSION CAPACITY (kN)
150mm	100mm	50mm		
10	14	18	14	130



52mm x 100mm x 80mm

TYPE - VERTICAL PLATE STIRRUP				
LATERAL CAPACITY (kN) WITH VARIES THREAD HEIGHT			UPLIFT CAPACITY (kN)	COMPRESSION CAPACITY (kN)
150mm	100mm	50mm		
12	17	21	30	130



101mm x 155mm x 75mm

TYPE - VERTICAL PLATE STIRRUP				
LATERAL CAPACITY (kN) WITH VARIES THREAD HEIGHT			UPLIFT CAPACITY (kN)	COMPRESSION CAPACITY (kN)
150mm	100mm	50mm		
12	17	21	15	130

KEY NOTES

1. THE CAPACITIES AND LOADS MENTIONED IN THIS DRAWING ARE BASED ON THE LABORATORY LOAD TESTS. LOADS ARE ASSUMED TO BE APPLIED THROUGH THE THREAD CENTRALLY.
2. THE CAPACITIES ARE FOR THE LEVEL MASTER POST HEAD PRODUCT(S) ITSELF. OTHER ELEMENTS (SUCH AS FASTENERS AND TIMBER) ARE NOT COVERED.
3. THE CAPACITIES ASSUME THE EXPOSED THREAD HEIGHT <= 150mm.
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5. REFER TO THE GENERAL NOTE FOR ECCENTRICALLY LOADED CONDITIONS.
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COMPRESSION NOTE

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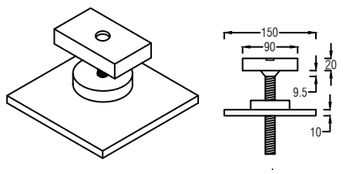
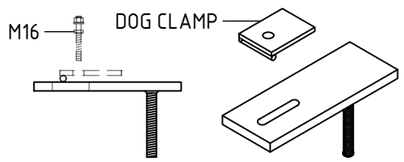
2. THE YIELD LOAD OF THE STUMP TOPS WITH M30 THREAD = 150kN (COMPRESSION).
3. IF REFERRING YIELD CAPACITY, THE DESIGN LOAD PROVIDED BY THE STRUCTURAL ENGINEERS FOR COMPARISON MUST BE FACTORED, AND COMPLIANCE WITH THE LOADS COMBINATIONS AS PER AS1170.0 - GENERAL PRINCIPLES.



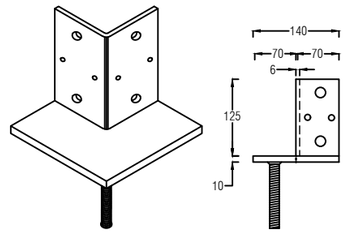
95mm x 57mm x 20mm

TYPE - CONTAINER LOCK				
LATERAL CAPACITY (kN) WITH VARIES THREAD HEIGHT			UPLIFT CAPACITY (kN)	COMPRESSION CAPACITY (kN)
150mm	100mm	50mm		
12	17	21	N/A	130



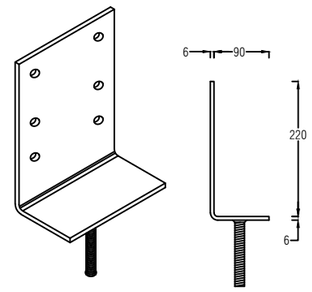
100mm x 75mm x 8mm

TYPE - DOG CLAMP			
CLAMPING CAPACITY (kN)	UPLIFT CAPACITY (kN)	COMPRESSION CAPACITY (kN)	LATERAL CAPACITY (kN)
35	4	130	N/A
*SEE PAGE S04 FOR NOTES.			



150mm x 150mm x 10mm

TYPE - VERTICAL LARGE CORNER				
LATERAL CAPACITY (kN) WITH VARIES THREAD HEIGHT			UPLIFT CAPACITY (kN)	COMPRESSION CAPACITY (kN)
150mm	100mm	50mm		
11	16	21	15	130



225mm x 180mm x 90mm

TYPE - VERTICAL PLATE (XL)				
LATERAL CAPACITY (kN) WITH VARIES THREAD HEIGHT			UPLIFT CAPACITY (kN)	COMPRESSION CAPACITY (kN)
150mm	100mm	50mm		
5	8	11	15	130

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

REV.	DESCRIPTION	DATE	INIT.
A	PRELIMINARY ISSUE	MAY2023	-
0	FOR CERTIFICATION	MAY2023	-
1	FOR CERTIFICATION	MAY2024	-
2	FOR CERTIFICATION	AUG2024	-

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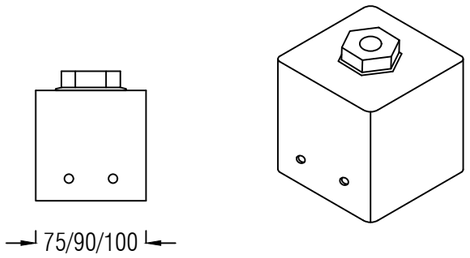
EMAIL info@levelmaster.com.au
PHONE 1300 538 356

PROJECT
(ADJUSTABLE) HOUSE STUMP COMPONENTS SERIES

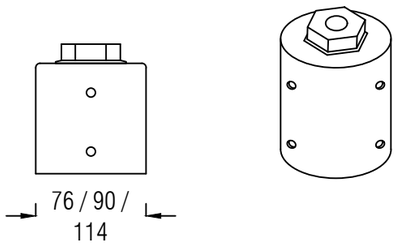
TITLE
ADJUSTABLE TOPS

DRAWN	DESIGNED	DATE
-	-	AUG 2024
CHECKED	APPROVED	
N.Z.		
DRAWING No.		REV.
PCE22471 - S02		2



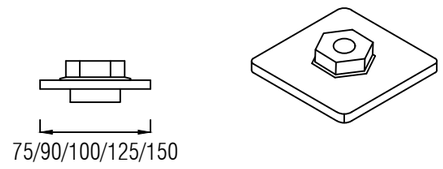
SCREW ON (SHS) CONNECTOR

SUITS 75mm / 89mm / 100mm SHS POST



SCREW ON (CHS/SCREW PILE) CONNECTOR

SUITS 76mm / 90mm / 114mm CHS POST

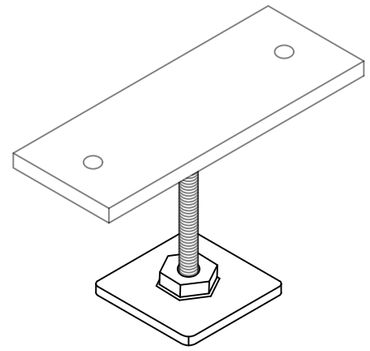


WELD ON (SHS) CONNECTOR

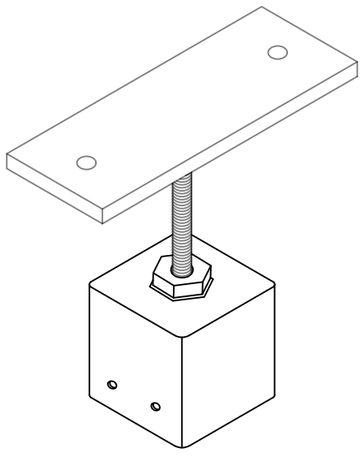
SUITS 75mm / 89mm / 100mm / 150mm SHS POST

GENERAL NOTES	
1	ALL CONNECTORS SUIT ALL LEVELMASTER ADJUSTABLE TOPS WITH 30mm THREAD.
2	MIN. 4 SCREWS (2 EACH OPPOSITE FACE) TO BE USED FOR CAP TO COLUMN CONNECTION.
3	ALL SCREWS FOR CAP TO COLUMN CONNECTION TO BE MIN. CLASS 4 – 12g – 24TPI SCREWS (ICCONS PTY LTD) OR EQUIVALENT. THE PROJECT ENGINEER TO CONFIRM THE FASTENERS, ESPECIALLY FOR LARGE VERTICAL DESIGN LOADS.
4	ALL WELDING IS TO BE PERFORMED IN ACCORDANCE WITH AS1554.1. WELDS ARE TO BE FULL PENETRATION.
5	THE ASSEMBLY CAPACITY REFERS TO THE CAPACITIES OF ADJUSTABLE TOPS.
6	ALL STEEL TO BE MIN. GRADE 250 (U.N.O.).

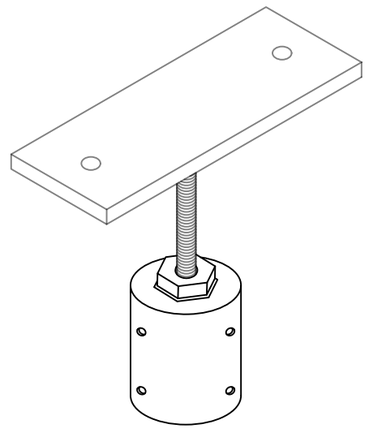
EXAMPLES OF TOP AND CONNECTOR ASSEMBLY:



STRAIGHT PLATE WITH WELD ON ASSEMBLY



STRAIGHT PLATE WITH SCREW ON (SHS) ASSEMBLY



STRAIGHT PLATE WITH SCREW ON (CHS) ASSEMBLY

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

REV.	DESCRIPTION	DATE	INIT.
A	PRELIMINARY ISSUE	MAY2023	–
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PROJECT
(ADJUSTABLE) HOUSE STUMP COMPONENTS SERIES

TITLE
CONNECTORS

DRAWN	DESIGNED	DATE
–	–	AUG 2024
CHECKED	APPROVED	
N.Z.		
DRAWING No.		REV.
PCE22471 – S03		2

GENERAL NOTES

1	THE CAPACITIES AND LOADS MENTIONED IN THIS DRAWING ARE BASED ON THE LABORATORY LOAD TESTS. LOADS ARE ASSUMED TO BE APPLIED THROUGH THE THREAD CENTRALLY.
2	THE CAPACITIES ARE FOR THE LEVEL MASTER POST HEAD PRODUCT(S) ITSELF. OTHER ELEMENTS (SUCH AS FASTENERS AND TIMBER) ARE NOT COVERED.
3	THE CAPACITIES ASSUME THE EXPOSED THREAD HEIGHT <= 150mm. ALL THREADS TO BE M30.
4	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS.
5	ALL WELDING IS TO BE PERFORMED IN ACCORDANCE WITH AS1554.1. WELDS ARE TO BE FULL PENETRATION.
6	ALL STEEL MATERIALS TO BE (MIN.) G250 (U.N.O.)
7	FOR ECCENTRICALLY LOADED CONDITIONS, LIMIT THE COMPRESSION LOAD TO MAX. 10kN; TENSION LOAD TO MAX. 5kN.
8	IF THE COMPRESSION LOAD TO BE APPLIED WITH AN OFFSET FROM THE CENTER OF THE THREAD, EITHER CAUSED BY STRUCTURE GEOMETRY OR SITE CONDITIONS: THE AXIAL COMPRESSION CAPACITY REMAIN UNCHANGED WITH OFFSET < 20mm; THE AXIAL COMPRESSION CAPACITY TO BE 65% OF THE ORIGINAL IF OFFSET <= 50mm; THE AXIAL COMPRESSION CAPACITY TO BE 24% OF THE ORIGINAL IF OFFSET <= 75mm.

DOG CLAMP NOTES

1	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).
2	THE CAPACITIES ARE BASED ON THE ASSUMPTION OF BEING CENTRALLY LOADED ONLY.
3	THE CAPACITIES ABOVE COVER ALL PRODUCTS SHOWN IN THIS PAGE OF DRAWING (FOR DOG CLAMP)
4	THE CAPACITIES ARE FOR THE POST HEAD PRODUCT ITSELF. OTHER ELEMENTS SUCH AS SCREWS AND TIMBER ARE NOT CONSIDERED.

OTHER NOTES

1	THE DRAWING SET IS LIMITED TO THE STRUCTURAL ASPECTS ONLY AND NO RESPONSIBILITY IS TAKEN FOR ANY LOSS, DAMAGE OR FAILURE RESULTING FROM THE MANUFACTURE, QUALITY INSTABILITY, TRANSPORTATION AND STORAGE, METHOD OF CONSTRUCTION.

REFERENCE NOTES

1	ALL REFERENCE TABLES, DATA AND EXAMPLE PROCEDURES SHOWN ON THIS DRAWING ARE FOR REFERENCE ONLY. THE PROJECT ENGINEER TO DETERMINE AND CONFIRM THE REQUIRED LOAD OF ANY STRUCTURAL MEMBERS.
2	ALL TABLES, DATA AND EXAMPLE PROCEDURES SHOWN ON THIS PAGE IS VALID FOR SIMPLE RESIDENTIAL STRUCTURE ONLY.

REFERENCE: 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

REFERENCE COLUMN HEIGHTS

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

REFERENCE: TYPICAL LOADS (kN/m^2)

DOMESTIC FLOOR	2.85
SHEET ROOF	0.86
CLAD WALLS	0.42

EXAMPLE PROCEDURE (TYPICAL):

ASSUMING LEVEL MASTER STUMP PLATE (STRAIGHT) SUPPORTING 5m^2 OF ROOF LOAD, 5m^2 OF FLOOR LOAD, 2mx2.4m HEIGHT STUD WALLS IN A N3 WIND REGION.

COMPRESSION
= 5m^2 x 0.86kN/m^2 + 5m^2 x 2.85kN/m^2 + 2m x 2.4m x 0.4kN/m^2
= 20.47kN < 120kN

WIND UPLIFT = 5m^2 x 1.01kN/m^2 = 5.05kN < 30kN

LEVEL MASTER STUMP PLATE (STRAIGHT) CAN BE ADOPTED.

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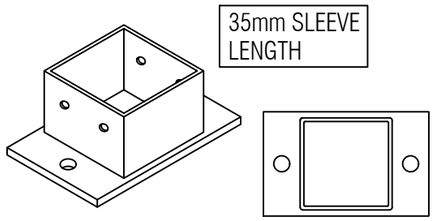
PROJECT
(ADJUSTABLE) HOUSE STUMP COMPONENTS SERIES

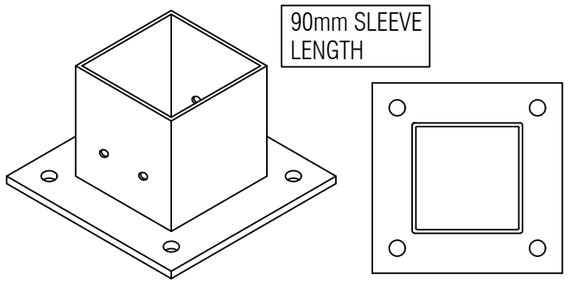
TITLE
GENERAL NOTES & REFERENCES

DRAWN	DESIGNED	DATE
-	-	AUG 2024
CHECKED: N.Z.	APPROVED:	
DRAWING No.: PCE2247.1 – S04	REV.: 2	



SUIT 75mm & 89mm POST

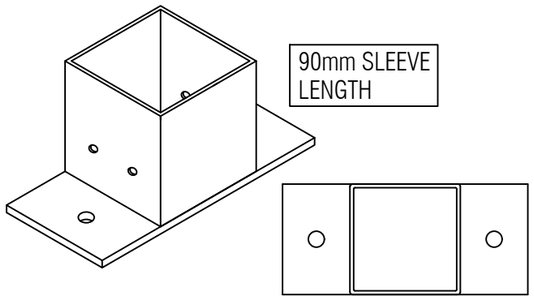
CAST IN BASEPLATE TO CONCRETE



SUIT 75mm, 89mm & 100mm POST - 4 holes

BOLT DOWN BASEPLATE (4 HOLES)

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)



SUIT 75mm, 89mm & 100mm POST

BOLT DOWN BASEPLATE (2 HOLES)

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)

GENERAL NOTES

1. 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. THE PROJECT ENGINEER TO CONFIRM THE FASTENERS, ESPECIALLY FOR LARGE VERTICAL DESIGN LOADS.
3. THE ASSEMBLY CAPACITY REFERS TO THE CAPACITIES OF ADJUSTABLE TOPS, OR WHICHEVER IS CRITICAL.
4. ALL WELDING IS TO BE PERFORMED IN ACCORDANCE WITH AS1554.1. WELDS ARE TO BE FULL PENETRATION.
5. THE BASE PLATE TO GROUND/FOOTING BOLT DOWN CONNECTIONS ON THIS DRAWING ARE FOR REFERENCE ONLY. PROJECT ENGINEERS TO DESIGN AND CONFIRM.
6. ALL STEEL BASEPLATES TO BE G250 (U.N.O.). ALL STEEL TUBES TO BE G350. (U.N.O.)

PRODUCT CAPACITY

MAX. UPLIFT	35kN
MAX. DOWNWARDS	150kN
SPECIFIED CAPACITIES ARE FOR CONCENTRIC VERTICAL LOAD TRANSFER ONLY.	
THE CAPACITIES ARE FOR THE BASE PLATE PRODUCT ITSELF. OTHER ELEMENTS SUCH AS BOLTS AND STEEL POST ARE NOT COVERED.	

DO NOT SCALE FROM DRAWING
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PROJECT
(ADJUSTABLE) HOUSE STUMP COMPONENTS SERIES

TITLE
BASE PLATES

DRAWN	DESIGNED	DATE
-	-	AUG 2024
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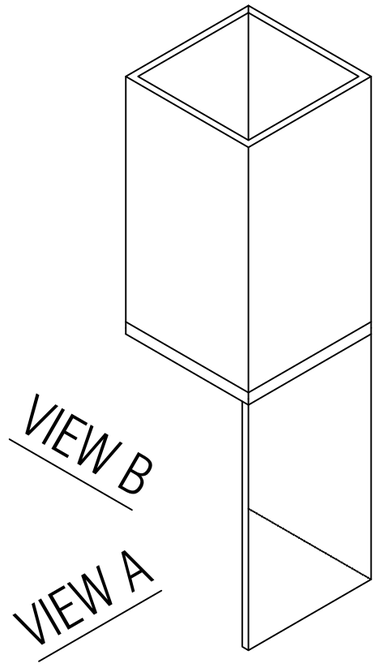
DRAWING No.: PCE2247.1 – S05		REV.: 2

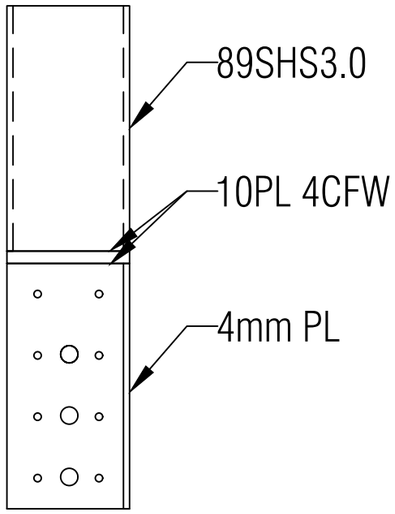


LEVELMASTER POST HEADS MAY BE USED TO RETROFIT EXISTING COLUMNS AND ARE AVAILABLE WITH ONE SIDE REMOVED.		
REFERENCE (EXISTING) COLUMNS & CONNECTIONS		
STEEL (SHS) 3.0mm THICK (min)	TIMBER	CONCRETE
9/14g TEK SCREWS	15/TYPE 17 #14 SCREWS, 35mm long.	3/M10-50 CONCRETE SCREWS

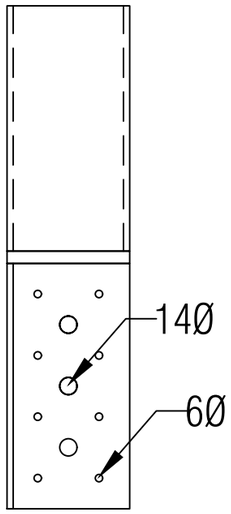
*LEVELMASTER RETROFIT BRACKET CAPACITIES (kN)	
6 / M12-100 ANCHOR SCREWS TO CONCRETE	36
8 / 14g SCREWS (22mm) TO 3mm STEEL COLUMN (min)	36
12 / 14g SCREWS (22mm) TO 3mm STEEL COLUMN (min)	42
12 / #14 TYPE 17 SCREWS (40mm) TO HWD COLUMN	36
16 / #14 TYPE 17 SCREWS (40mm) TO HWD COLUMN	42

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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*ORIGINAL DATA PROVIDED BY SUMMERMORE Pty Ltd.

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PROJECT
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TITLE
RETROFIT JOINER

DRAWN	DESIGNED	DATE
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DRAWING No.		REV.
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