

This form is the approved form that must be used in accordance with section 10 of the *Building Act 1975* and sections 73 and 77 of the *Building Regulation 2021* (Design-specification certificate) stating that an aspect of building work or specification will, if installed or carried out as stated in this form, comply with the building assessment provisions.

Additional explanatory information is included in the Appendix at the end of this form.

<p>1. Property description</p> <p>This section need only be completed if details of street address and property description are applicable.</p> <p>E.g. in the case of (standard/generic) pool design/shell manufacture and/or patio and carport systems this section may not be applicable.</p> <p>Where applicable, the description must identify all land the subject of the application.</p> <p>The lot and plan details (e.g. SP/RP) are shown on title documents or a rates notice.</p> <p>If the plan is not registered by title, provide previous lot and plan details.</p>	<p>Street address <i>(include number, street, suburb/locality and postcode)</i></p> <p>.....</p> <p>..... State <u>QLD</u> Postcode</p> <p>Lot and plan details <i>(attach list if necessary)</i></p> <p>.....</p> <p>Local government area the land is situated in</p> <p>.....</p>
<p>2. Description of aspect/s certified</p> <p>Clearly describe the extent of work covered by this certificate, e.g. all structural aspects of the steel roof beams.</p>	<p>Design of the Level Master (adjustable) House Stumps Components as detailed on the attached drawings</p>
<p>3. Basis of certification</p> <p>Detail the basis for giving the certificate and the extent to which tests, specifications, rules, standards, codes of practice and other publications were relied upon.</p>	<p>NCC 2022 Building Code of Australia</p> <p>AS 1170.0 2002 Structural design action – general principals</p> <p>AS 1170.1 2002 Permanent, imposed, and other actions</p> <p>AS 1170.2 2021 Structural design actions – Wind Actions</p> <p>AS 4100 2020 Steel structures</p>

<p>4. Reference documentation</p> <p>Clearly identify any relevant documentation, e.g. numbered structural engineering plans.</p>	<p>PEER Consulting Engineers Pty Ltd – Drawing PCE2247.1 – Rev 2, AUG 2024 Design Certification - LEVELMASTER - House Stump Components Series</p>
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<p>5. Building certifier reference number and building development application number</p>	<p>Building certifier reference number</p> <p>-----</p> <p>Building development application number <i>(if available)</i></p> <p>-----</p>
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<p>6. Appointed competent person details</p> <p>Under Part 6 of the Building Regulation 2021 a person must be assessed as a competent for the type of work (design-specification) by the relevant building certifier.</p>	<p>Name <i>(in full)</i> Mengting Zhao</p> <p>-----</p> <p>Company name <i>(if applicable)</i> Contact person PEER Consulting Engineers</p> <p>-----</p> <p>Business phone number Mobile number 07 3209 4702</p> <p>-----</p> <p>Email address info@peerce.com.au</p> <p>-----</p> <p>Postal address 4B/2404 Logan Road</p> <p>-----</p> <p>Eight Mile Plains State QLD Postcode 4113</p> <p>-----</p> <p>Licence class or registration type <i>(if applicable)</i> RPEQ</p> <p>-----</p> <p>Licence or registration number <i>(if applicable)</i> 24534</p> <p>-----</p>
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<p>7. Signature of appointed competent person</p> <p>This certificate must be signed by the individual assessed and appointed by the building certifier as competent to give design-specification help.</p>	<p>Signature Date</p> <div style="display: flex; align-items: center; justify-content: space-between;"> <div style="text-align: center;">  </div> <div style="text-align: right;"> <p>01/09/2024</p> </div> </div> <p style="text-align: right; margin-top: 10px;">*This certificate expires on 30/04/2025</p>
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LOCAL GOVERNMENT USE ONLY

Date received		Reference number/s	
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Appendix – explanatory information

IMPORTANT NOTE: it is an offence for a competent person to give a building certifier a document, including this form, that the person knows or reasonably suspects, is false or misleading.

Who can complete this certificate? (section 10 of the *Building Act 1975* (Building Act) and sections 73 and 77 of Building Regulation 2021 (BR 2021))

A building certifier can accept from a competent person (design-specification) a certificate stating that the competent person has assessed the building design or specification for the aspect of building work, and it will, if installed or carried out under the certificate, comply with the building assessment provisions, including any relevant standards and codes.

Schedule 10 of the BR 2021 defines *building design or specification* as any material, system, method of building or other thing related to the design of or specifications for building work.

When completing the certificate, a competent person is required under section 77 of the BR 2021 to include the basis for giving the certificate and state the extent to which the competent person has relied on tests, specifications, rules, standards, codes of practice or other publications.

What is the purpose of this form? (section 10 of the Building Act and sections 73 and 77 of the BR 2021)

The information in this form informs the building certifier's decision making when they are assessing a building development application, issuing the building development approval for the building work the subject of the certificate (form) and when amending the building development approval due to the receipt of updated aspect information such as glazing or truss specifications or revised excavation drawings.

Can a manufacturer or supplier give this Form 15?

A building certifier can accept this form from a manufacturer or supplier who the certifier has decided is a competent person (design-specification).

A manufacturer or supplier of building materials can give this form if they have undertaken the design component for the product. For example a window manufacturer who designs, constructs and supplies the windows to industry could give this form.

Competent person (section 10 of the Building Act 1975 and Part 6 of the BR 2021)

A building certifier must assess and decide to appoint an individual as a competent person before they can accept design-specification help.

When deciding whether a person can be a competent person, the building certifier must assess the person having regard to their experience, qualifications and skills and ensure the person holds a licence or registration if required.

The building certifier is required to keep detailed records about what was considered when appointing a competent person.

For further information about assessment of someone as a competent person refer to the **Guideline for the assessment of competent persons**.

What is required if a manufacturer or supplier did not do the design work for the product?

A manufacturer or supplier who is not part of the design process may give the construction contractor, builder, competent person or the building certifier evidence of suitability such as a product technical statement under Part A5 of the Building Code of Australia (BCA), for an aspect or material stating that it is compliant with the relevant reference documents in the BCA i.e. the applicable Australian Standard/s.

What if there is not enough space for all the supporting material/documents?

Items 2, 3 and 4 requires the competent person to clearly identify the extent of the assessment that was undertaken for aspect/s of work identified in this form.

For instance, there is provision for material such as specifications, standards, codes or other relevant publications to be referenced in the form. However, if the space in the form is not sufficient to accommodate all of this material, you can create and refer to additional material in an addendum or attachment to the form.

The form is also available in a Microsoft Word version, that you can download and edit to include additional material in the relevant parts of the form. Note that editing the form in the Microsoft Word version may cause the relevant boxes to expand and increase the length of the document. This is acceptable and does not change the approved form, provided the section text (description on the left-hand side of the page) is not altered.

Appointed competent person (design or specification) – (sections 34 and 36 of the BR 2021)

A building certifier must assess and decide to appoint an individual as a competent person before they can, as a competent person, give design-specification help. The building certifier is required to keep detailed records about what was considered when appointing a competent person.

A building certifier must be satisfied that an individual is competent to give the type of help having regard to the individual's experience, qualifications and skills and if required by law to hold a licence or registration, that the individual is appropriately registered or licensed.

An individual is appointed as competent to give design-specification help on or from a particular day.

For further information about assessment of someone as a competent person refer to the **Guideline for the assessment of competent persons**.

PRIVACY NOTICE

The Department of Energy and Public Works is collecting personal information as required under the *Building Act 1975*. This information may be stored by the Department, and will be used for administration, compliance, statistical research and evaluation of building laws. Your personal information will be disclosed to other government agencies, local government authorities and third parties for purposes relating to administering and monitoring compliance with the *Building Act 1975*. Personal information will otherwise only be disclosed to third parties with your consent or unless authorised or required by law.

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

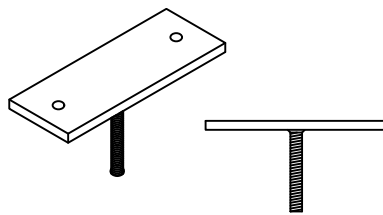
***This certificate expires on 30/04/2025.**

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.

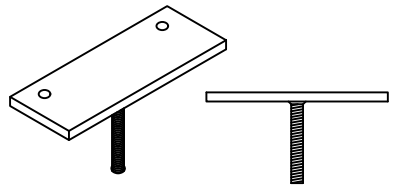
COMPRESSION NOTE

- 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.



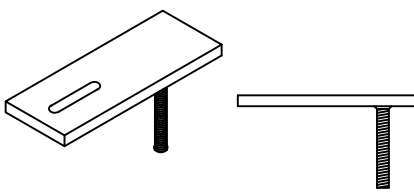
200mm x 75mm x 10mm

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



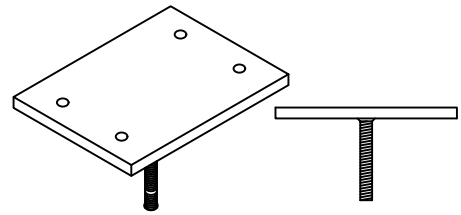
200mm x 75mm x 10mm

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



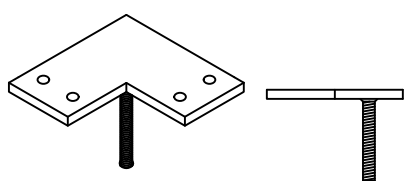
200mm x 75mm x 12mm

TYPE - END SLOTTED		
LATERAL CAPACITY (kN)	UPLIFT CAPACITY (kN)	COMPRESSION CAPACITY (kN)
N/A	7	130



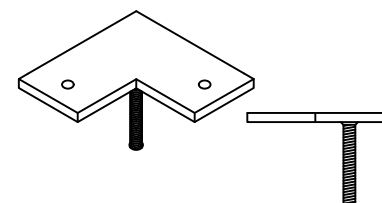
200mm x 150mm x 12mm

TYPE - STRAIGHT (4 HOLES)					
LATERAL CAPACITY (kN) WITH VARIES THREAD HEIGHT			UPLIFT CAPACITY (kN)	COMPRESSION CAPACITY (kN)	
150mm	100mm	50mm	45	130	
10	12	17			



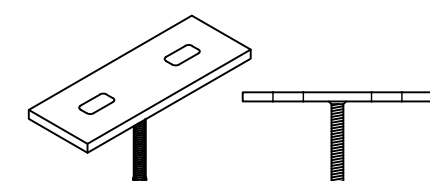
150mm x 150mm x 10mm

TYPE - CORNER (4 HOLES)					
LATERAL CAPACITY (kN) WITH VARIES THREAD HEIGHT			UPLIFT CAPACITY (kN)	COMPRESSION CAPACITY (kN)	
150mm	100mm	50mm	20	130	
9	12	15			



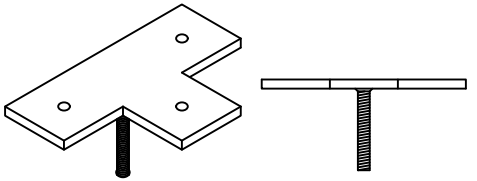
150mm x 150mm x 10mm

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



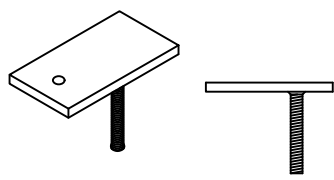
250mm x 90mm x 12mm

TYPE - STRAIGHT SLOTTED		
LATERAL CAPACITY (kN)	UPLIFT CAPACITY (kN)	COMPRESSION CAPACITY (kN)
N/A	13	130



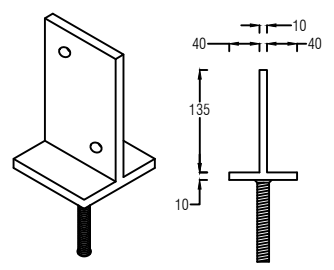
225mm x 150mm x 10mm

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



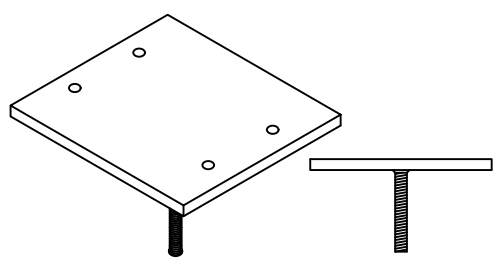
140mm x 75mm x 10mm

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



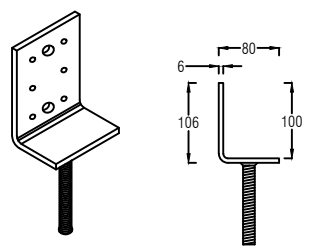
90mm x 90mm x 10mm

TYPE - VERTICAL PLATE 90					
LATERAL CAPACITY (kN) WITH VARIES THREAD HEIGHT			UPLIFT CAPACITY (kN)	COMPRESSION CAPACITY (kN)	
150mm	100mm	50mm	15	130	
12	16	21			



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	50	130	
9	13	15			



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	10	130	
4.5	8	11			

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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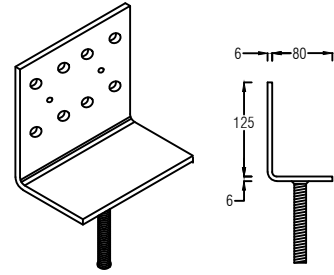
LevelMaster
Stronger. Easier. Faster. ADJUSTABLE HOUSE STUMPS

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

PROJECT
(ADJUSTABLE) HOUSE STUMP COMPONENTS SERIES

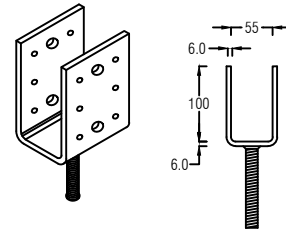
TITLE
ADJUSTABLE TOPS

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



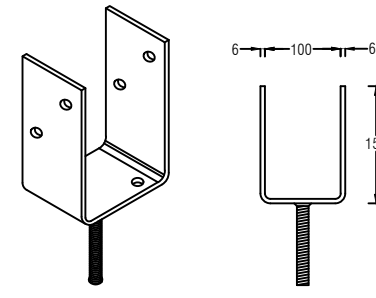
125mm x 140mm x 80mm

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



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	30	130
12	17	21		



101mm x 155mm x 75mm

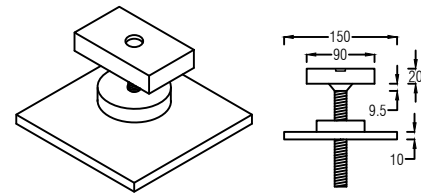
TYPE - VERTICAL PLATE STIRRUP				
LATERAL CAPACITY (kN) WITH VARIES THREAD HEIGHT			UPLIFT CAPACITY (kN)	COMPRESSION CAPACITY (kN)
150mm	100mm	50mm	15	130
12	17	21		

KEY NOTES

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- 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.

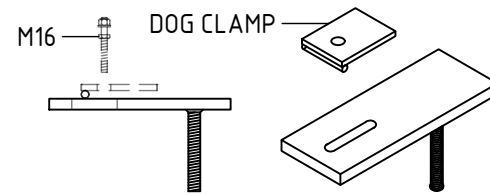
COMPRESSION NOTE

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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.



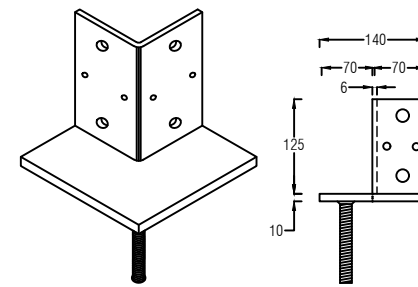
95mm x 57mm x 20mm

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



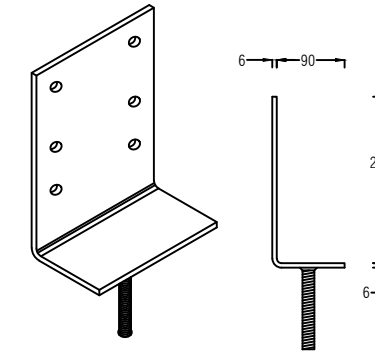
100mm x 75mm x 8mm

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	15	130
11	16	21		



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	15	130
5	8	11		

DO NOT SCALE FROM DRAWING
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1	FOR CERTIFICATION	MAY2024	-
2	FOR CERTIFICATION	AUG2024	-



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info@peerce.com.au EIGHT MILE PLAINS QLD 4113

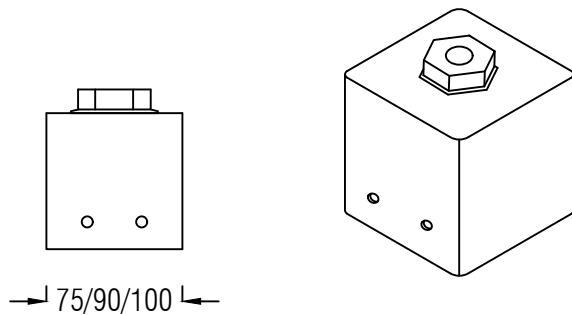


CONTACT DETAILS
WEB www.levelmaster.com.au EMAIL info@levelmaster.com.au
PHONE 1300 538 356

PROJECT
**(ADJUSTABLE) HOUSE
STUMP COMPONENTS
SERIES**

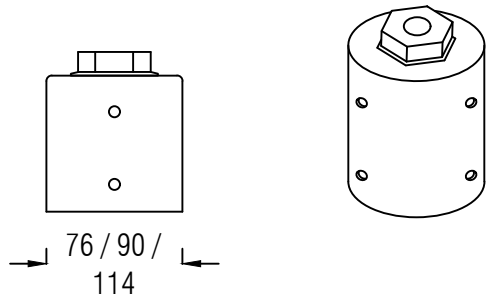
TITLE
ADJUSTABLE TOPS

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



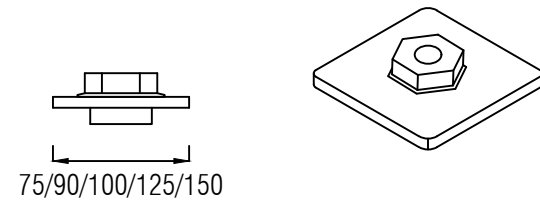
SCREW ON (SHS) CONNECTOR

SUITS 75mm / 89mm / 100mm SHS POST



SCREW ON (CHS/SCREW PILE) CONNECTOR

SUITS 76mm / 90mm / 114mm CHS POST

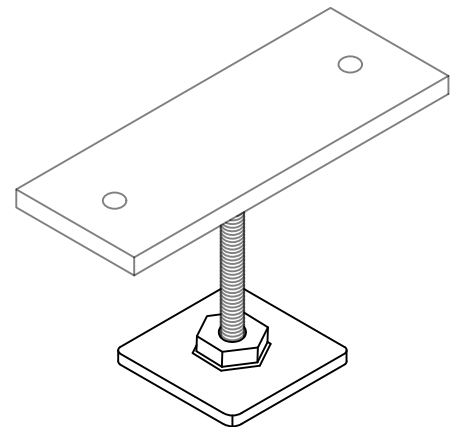


WELD ON (SHS) CONNECTOR

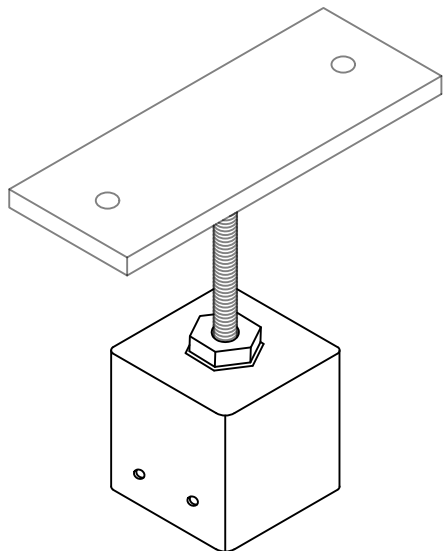
SUITS 75mm / 89mm / 100mm / 150mm SHS POST

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.).

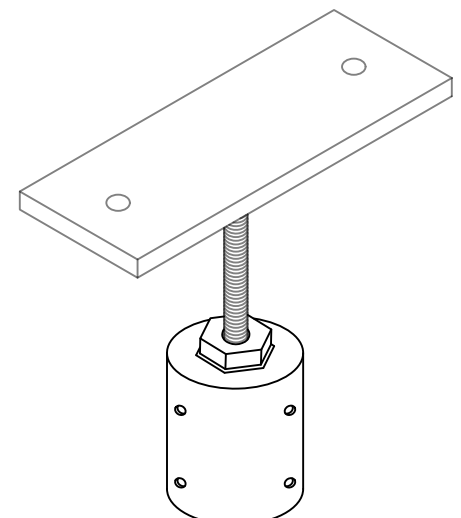
EXAMPLES OF TOP AND CONNECTOR ASSEMBLY:



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
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A	PRELIMINARY ISSUE	MAY2023	-
0	FOR CERTIFICATION	MAY2023	-
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2	FOR CERTIFICATION	AUG2024	-

PEER Consulting Engineers
Professional Engineers Limited Queensland

www.pearce.com.au 4B/2404 LOGAN RD,
info@pearce.com.au EIGHT MILE PLAINS QLD 4113

LevelMaster
Stronger. Easier. Faster. ADJUSTABLE HOUSE STUMPS

CONTACT DETAILS
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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 $\leq 150\text{mm}$. 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 $< 20\text{mm}$; THE AXIAL COMPRESSION CAPACITY TO BE 65% OF THE ORIGINAL IF OFFSET $\leq 50\text{mm}$; THE AXIAL COMPRESSION CAPACITY TO BE 24% OF THE ORIGINAL IF OFFSET $\leq 75\text{mm}$.

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/m²)

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/m²)

DOMESTIC FLOOR	2.85
SHEET ROOF	0.86
CLAD WALLS	0.42

EXAMPLE PROCEDURE (TYPICAL):

ASSUMING LEVEL MASTER STUMP PLATE (STRAIGHT) SUPPORTING 5m² OF ROOF LOAD, 5m² OF FLOOR LOAD, 2m x 2.4m HEIGHT STUD WALLS IN A N3 WIND REGION.

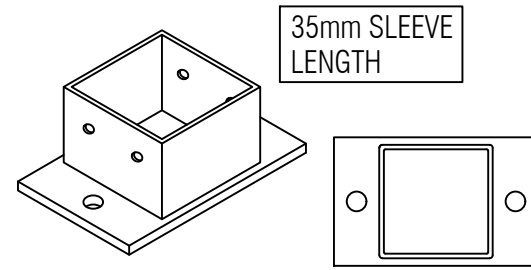
COMPRESSION
 $= 5\text{m}^2 \times 0.86\text{kN/m}^2 + 5\text{m}^2 \times 2.85\text{kN/m}^2 + 2\text{m} \times 2.4\text{m} \times 0.4\text{kN/m}^2$
 $= 20.47\text{kN} < 120\text{kN}$

WIND UPLIFT = $5\text{m}^2 \times 1.01\text{kN/m}^2 = 5.05\text{kN} < 30\text{kN}$

LEVEL MASTER STUMP PLATE (STRAIGHT) CAN BE ADOPTED.

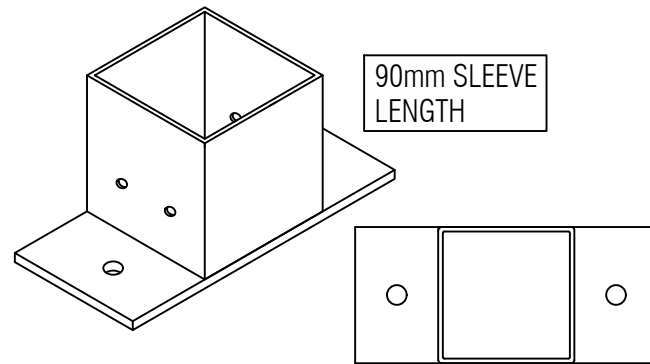
DO NOT SCALE FROM DRAWING
ALL SCALES ARE AS SHOWN (A3)

REV.	DESCRIPTION	DATE	INIT.	PEER Consulting Engineers Professional Engineers (Structural)		LevelMaster Stronger. Easier. Faster. ADJUSTABLE HOUSE STUMPS		PROJECT	TITLE	DRAWN	DESIGNED	DATE
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0	FOR CERTIFICATION	MAY2023	-							CHECKED	APPROVED	
1	FOR CERTIFICATION	MAY2024	-							N.Z.		
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					PCE2247.1 - S04	2						



35mm SLEEVE LENGTH

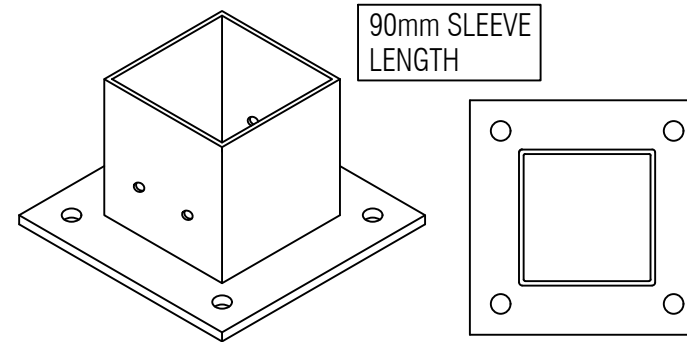
SUIT 75mm & 89mm POST
CAST IN BASEPLATE TO CONCRETE



90mm SLEEVE LENGTH

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)



90mm SLEEVE LENGTH

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)

GENERAL NOTES

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

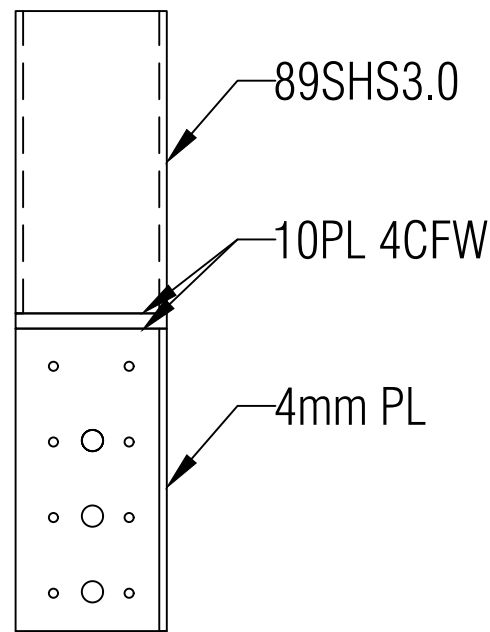
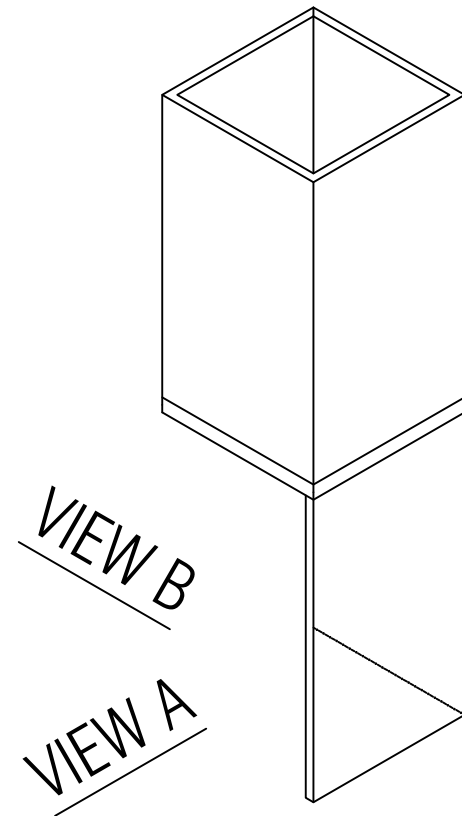
PRODUCT CAPACITY

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.	

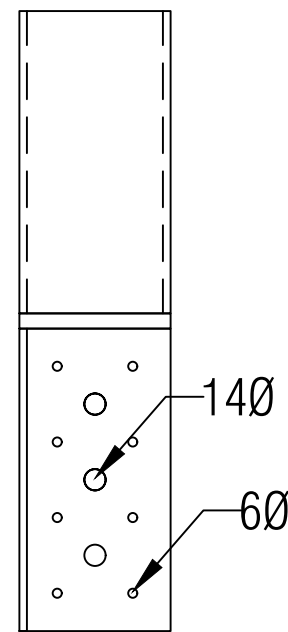
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A	PRELIMINARY ISSUE	MAY2023	-				PROJECT	(ADJUSTABLE) HOUSE STUMP COMPONENTS SERIES	DRAWN	-	DESIGNED	-	DATE	AUG 2024
0	FOR CERTIFICATION	MAY2023	-				CHECKED	N.Z.	APPROVED					
1	FOR CERTIFICATION	MAY2024	-				DRAWING No.	PCE2247.1 - S05	REV.					
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VIEW A



VIEW B

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.

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

*ORIGINAL DATA PROVIDED BY SUMMERMORE Pty Ltd.

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0	FOR CERTIFICATION	MAY2023	-								
1	FOR CERTIFICATION	MAY2024	-								
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									CHECKED	APPROVED	
									N.Z.		
									DRAWING No.	REV.	
									PCE2247.1 - S06	2	