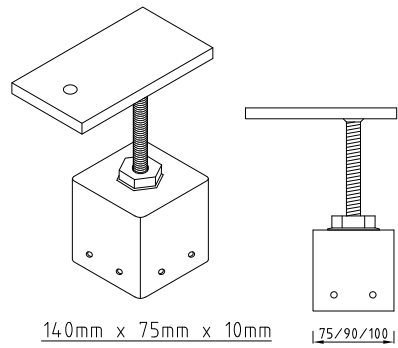
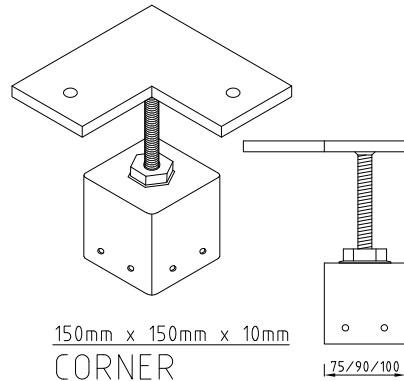


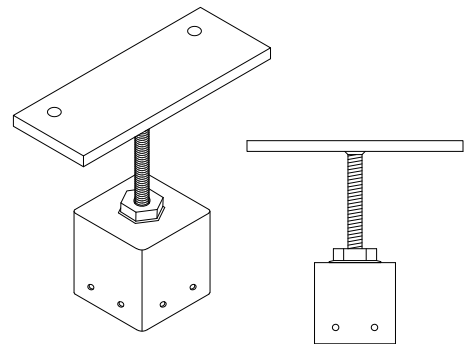
200mm x 75mm x 10mm
STRAIGHT
MAX UPLIFT = 38.5 kN
MAX DOWNWARDS LOAD = 150 kN



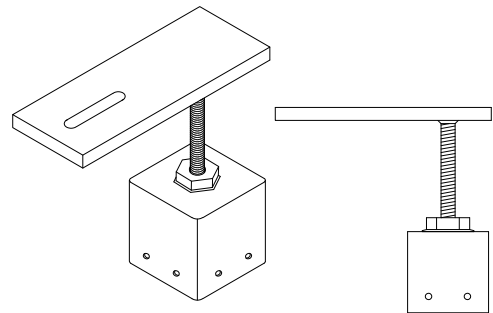
140mm x 75mm x 10mm
END OF BEARER
MAX UPLIFT = 38.5 kN
MAX DOWNWARDS LOAD = 150 kN



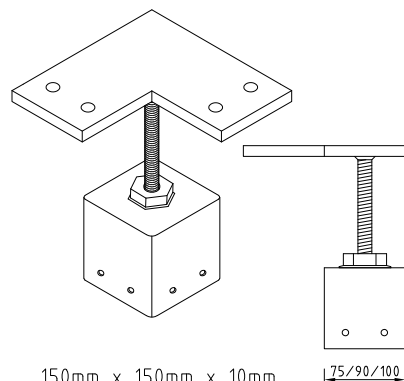
150mm x 150mm x 10mm
CORNER
MAX UPLIFT = 38.5 kN
MAX DOWNWARDS LOAD = 150 kN



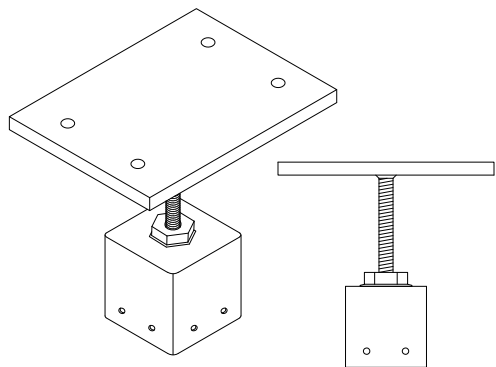
200mm x 75mm x 10mm
STRAIGHT (offset holes)
MAX UPLIFT = 38.5 kN
MAX DOWNWARDS LOAD = 150 kN



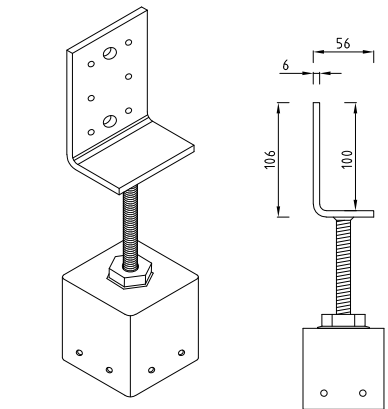
200mm x 75mm x 12mm
END SLOTTED
MAX UPLIFT = 38.5 kN
MAX DOWNWARDS LOAD = 150 kN



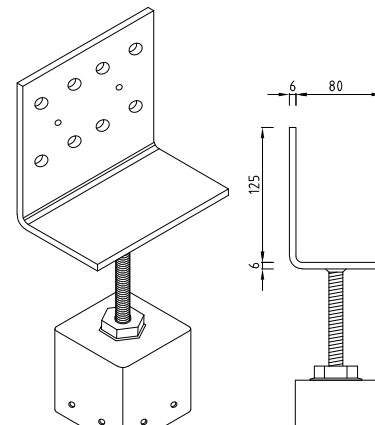
150mm x 150mm x 10mm
CORNER (4 holes)
MAX UPLIFT = 38.5 kN
MAX DOWNWARDS LOAD = 150 kN



200mm x 150mm x 12mm
STRAIGHT (4 holes)
MAX UPLIFT = 38.5 kN
MAX DOWNWARDS LOAD = 150 kN



106mm x 80mm x 56mm
VERTICAL PLATE (small)
MAX UPLIFT = 38.5 kN
MAX DOWNWARDS LOAD = 150 kN
* CENTRALLY LOADED



125mm x 140mm x 80mm
VERTICAL PLATE (large)
MAX UPLIFT = 38.5 kN
MAX DOWNWARDS LOAD = 150 kN
* CENTRALLY LOADED

TYPICAL LOADS (kN/m²)

DOMESTIC FLOOR	2.85
SHEET ROOF	0.78
CLAD WALLS	0.42

NETT WIND PRESSURE AT STUMP (kN/m²)

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

* IF NOT CENTRALLY LOADED ALL DOWNWARDS LOADS ARE 13.0 kN

* IF NOT CENTRALLY LOADED ALL UPLIFT LOADS ARE 13.0 kN

* 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)

EXAMPLE:-

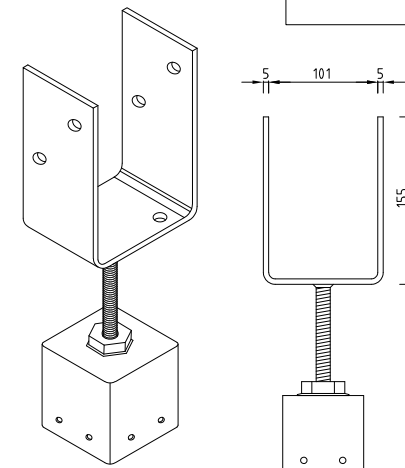
* LEVEL MASTER STUMP SUPPORTING 9m² OF ROOF LOAD AND 9m² OF FLOOR LOAD 3m OF WALL FRAME 2.4m HIGH IN AN N3 WIND AREA.

EXAMPLE WORKINGS:-

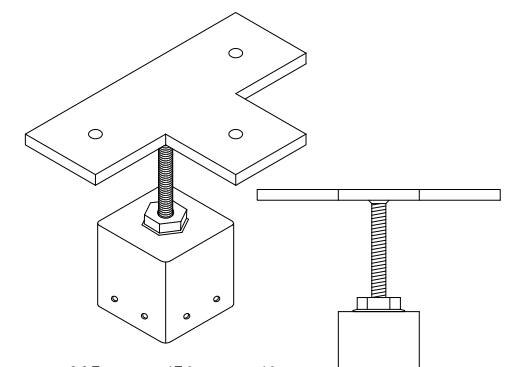
DOWNWARDS= 9m² x 0.78kN/m² (roof) +
9m² x 2.85kN/m² (floor) +
3m wall x 2.4 high x 0.42kN/m² (wall)
= 35.7 kN total.

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

* SO USE LEVEL MASTER CENTRE LOADED ADJUSTABLE TOP/POST HEAD BECAUSE: 35.7 kN < 150 kN AND 9.09 kN < 13 kN.



101mm x 155mm x 75mm
VERTICAL PLATE STIRRUP
MAX UPLIFT = 38.5 kN
MAX DOWNWARDS LOAD = 150 kN
* CENTRALLY LOADED



225mm x 150mm x 10mm
TEE
MAX UPLIFT = 38.5 kN
MAX DOWNWARDS LOAD = 150 kN

CAP TO COLUMN CONNECTION TO HAVE 8/14g TEK SCREWS (2 each face). UNLESS FIXING TO EXISTING COLUMNS AS PER EXISTING COLUMN TABLE.

DRAWING REVISIONS

REFERENCE DRAWINGS

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SIGNED APPROVAL	
APPROVED	30JUN2016
RPEQ	6715
REVIEWED	
DESIGNED	RAB JUN2016
DRAWN	GAB JUN2016
SCALE	AS SHOWN
ORIGINAL DRAWING SIZE at A3	

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Consulting Engineers
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PO Box 1671
Browns Plains BC, QLD, 4118
Phone: 07 3800 0973
Fax: 07 3800 1860

CLIENT



PROJECT **ADJUSTABLE POST HEADS**

TITLE **Screw On Connectors SHS Capacities**

DRAWING NUMBER

16-10897-S03

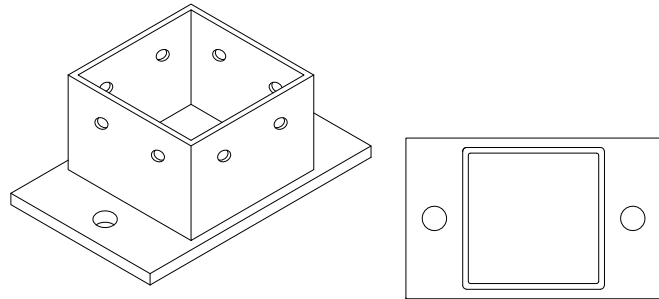
REV

C

REV	DESCRIPTION	BY	DATE	DRAWING NAME	TITLE
C	REVISED AS PER CLIENTS REQUEST	GAB	JUN2016		
B	REVISED AS PER CLIENTS REQUEST	GAB	JUN2016		
A	REVISED AS PER CLIENTS REQUEST	GAB	MAY2016		
-	PRELIMINARY FOR CLIENT APPROVAL	GAB	MAY2016		

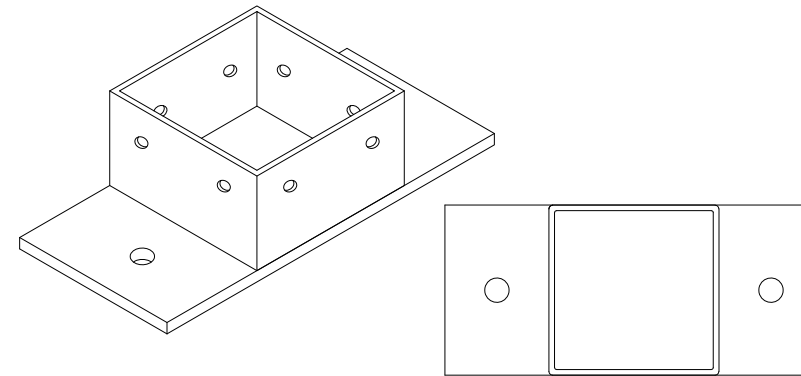
TYPICAL LOADS (kN/m ²)	
DOMESTIC FLOOR	2.85
SHEET ROOF	0.78
CLAD WALLS	0.42

NETT 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



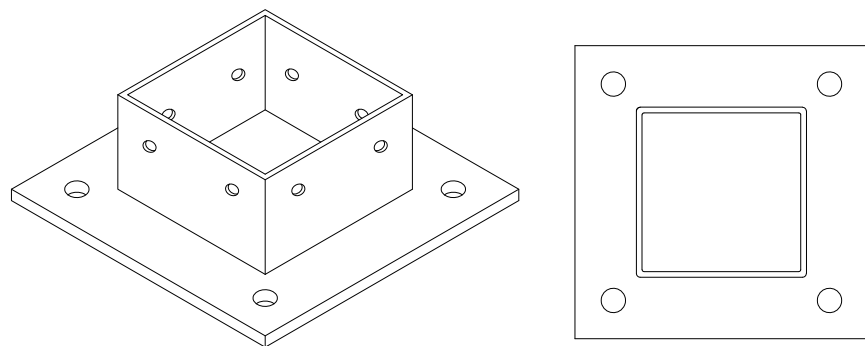
SUIT 75mm & 90mm POST
CAST IN BASEPLATE
TO CONCRETE - 120

MAX UPLIFT = 38.5 kN



SUIT 75mm, 90mm & 100mm POST
BOLT DOWN BASEPLATE
(CHEMSET) - 200

MAX UPLIFT = 38.5 kN



SUIT 75mm, 90mm & 100mm POST - 4 holes
BOLT DOWN BASEPLATE
(CHEMSET)

MAX UPLIFT = 38.5 kN

- * 90SHS3.0 COLUMN MAXIMUM COMPRESSION LOAD EXCEEDS 150kN UP TO 3000mm HEIGHT.
- * 75SHS3.0 COLUMN MAXIMUM COMPRESSION LOAD EXCEEDS 150kN UP TO 2500mm HEIGHT.
- * 75SHS4.0 COLUMN MAXIMUM COMPRESSION LOAD EXCEEDS 150kN UP TO 3000mm HEIGHT.

COLUMN TO BASEPLATE CONNECTION TO HAVE 8/14g TEK SCREWS (2 each face).

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 0.78kN/m² (roof) +
9m² x 2.85kN/m² (floor) +
3m wall x 2.4 high x 0.42kN/m² (wall)
= 35.7 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: 35.7 kN < 150 kN AND 9.09 kN < 13 kN.

DRAWING REVISIONS				REFERENCE DRAWINGS		SIGNED APPROVAL		Summermore Pty Ltd		CLIENT		PROJECT	
REV	DESCRIPTION	BY	DATE	DRAWING NAME	TITLE	APPROVED	DATE	Consulting Engineers	LevelMaster		ADJUSTABLE HOUSE STUMPS		REV
C	REVISED AS PER CLIENTS REQUEST	GAB	JUN2016			RPEQ	6715	ACN: 108 898 433 ABN: 42 108 898 433 ron@summermore.com.au www.summermore.com.au	Stronger • Easier • Faster		ADJUSTABLE HOUSE STUMPS		
B	REVISED AS PER CLIENTS REQUEST	GAB	JUN2016			DESIGNED	RAB	JUN2016	PO Box 1671 Browns Plains BC, QLD, 4118		DRAWING NUMBER		
A	REVISED AS PER CLIENTS REQUEST	GAB	MAY2016			DRAWN	GAB	JUN2016	Phone: 07 3800 0973		16-10897-S06		
-	PRELIMINARY FOR CLIENT APPROVAL	GAB	MAY2016			SCALE	AS SHOWN		Fax: 07 3800 1860				
									ORIGINAL DRAWING SIZE at A3				C

Form 15—Compliance certificate for building design or specification

NOTE: This is to be used for the purposes of section 10 of the *Building Act 1975* and/or section 46 of the *Building Regulation 2006*.
RESTRICTION: A building certifier (class B) can only give a compliance certificate about whether building work complies with the BCA or a provision of the Queensland Development Code (QDC). A building certifier (Class B) can not give a certificate regarding QDC boundary clearance and site cover provisions.

<p>1. Property description This section need only be completed if details of street address and property description are applicable.</p>	<p>Street address (include no., street, suburb/locality and postcode) XX</p> <p>Lot and plan details (attach list if necessary) XX</p> <p>In which local government area is the land situated? XX</p>		
<p>2. Description of component/s certified</p>	<p>Level Master Adjustable Post Head Load Capacities.</p>		
<p>3. Basis of certification</p>	<p>AS/NZS 1170.0, AS/NZS 1170.1, AS/NZS 1170.2, AS4100, AS/NZS4600.</p>		
<p>4. Reference documentation</p>	<p>16-10897-S03—S06</p>		
<p>5. Building certifier reference number</p>	<p>Building certifier reference number</p> <p></p>		
<p>6. Competent person details</p>	<p>Name (in full) Ronald Albert BELL</p> <p>Company name (if applicable) Summermore Pty Ltd</p> <p>Contact person Ronald Bell</p> <p>Phone no. (business hours) 07 3800 0973</p> <p>Mobile no. 0438 288 116</p> <p>Fax no. 07 3800 1860</p> <p>Email address ron@summermore.com.au</p> <p>Postal address PO Box 1671, Browns Plains BC, Queensland, 4118.</p> <p>Licence or registration number (if applicable) RPEQ 6715</p>		
<p>7. Signature of competent person</p>	<table border="1"> <tr> <td data-bbox="442 1525 1002 1836"> <p>Signature</p> <div style="border: 1px solid blue; padding: 5px;"> <p style="text-align: center;">Ronald A. Bell Registered Professional Engineer Grad Cert (Tech Mgt), BEng Civil (Hons), BEng, MIEAust (891940), CMEngNZ(1027695)</p> <p style="text-align: center; color: red; font-weight: bold;">IMAY18</p> <p style="text-align: center;">Signed</p> <p style="text-align: center; font-size: small;">RPEQ (6715), RBP(NT) (60596ES), RBP(Vic) (EC27967), RBP(Tas)(CC5556),MAIB (9225), JIP(Qual).</p> <p style="text-align: center; border-top: 1px solid blue; font-weight: bold; font-size: small;">STRUCTURAL DETAILS CONCURRED</p> </div> </td> <td data-bbox="1002 1525 1516 1836"> <p>Date Tuesday, May 1, 2018</p> <p>THIS CERTIFICATION EXPIRES ON THE 01st MAY 2019.</p> </td> </tr> </table>	<p>Signature</p> <div style="border: 1px solid blue; padding: 5px;"> <p style="text-align: center;">Ronald A. Bell Registered Professional Engineer Grad Cert (Tech Mgt), BEng Civil (Hons), BEng, MIEAust (891940), CMEngNZ(1027695)</p> <p style="text-align: center; color: red; font-weight: bold;">IMAY18</p> <p style="text-align: center;">Signed</p> <p style="text-align: center; font-size: small;">RPEQ (6715), RBP(NT) (60596ES), RBP(Vic) (EC27967), RBP(Tas)(CC5556),MAIB (9225), JIP(Qual).</p> <p style="text-align: center; border-top: 1px solid blue; font-weight: bold; font-size: small;">STRUCTURAL DETAILS CONCURRED</p> </div>	<p>Date Tuesday, May 1, 2018</p> <p>THIS CERTIFICATION EXPIRES ON THE 01st MAY 2019.</p>
<p>Signature</p> <div style="border: 1px solid blue; padding: 5px;"> <p style="text-align: center;">Ronald A. Bell Registered Professional Engineer Grad Cert (Tech Mgt), BEng Civil (Hons), BEng, MIEAust (891940), CMEngNZ(1027695)</p> <p style="text-align: center; color: red; font-weight: bold;">IMAY18</p> <p style="text-align: center;">Signed</p> <p style="text-align: center; font-size: small;">RPEQ (6715), RBP(NT) (60596ES), RBP(Vic) (EC27967), RBP(Tas)(CC5556),MAIB (9225), JIP(Qual).</p> <p style="text-align: center; border-top: 1px solid blue; font-weight: bold; font-size: small;">STRUCTURAL DETAILS CONCURRED</p> </div>	<p>Date Tuesday, May 1, 2018</p> <p>THIS CERTIFICATION EXPIRES ON THE 01st MAY 2019.</p>		

LOCAL GOVERNMENT USE ONLY		
Date received	Reference Number/s	

Building Act 1993
Interim Building Regulations 2017

REGULATION 1507: GENERIC CERTIFICATE OF COMPLIANCE—DESIGN

To

Relevant building surveyor:

Postal address:

From

Building practitioner: Ronald Bell

Category and class: Civil Engineer Registration No: EC27967

Postal address: PO Box 1671, Browns Plains BC, Queensland, 4118.

Property details (if applicable).

Number:XXXXXXXXXX Street/road:XXXXXXXXXXXXXXXXXXXXXXXXXXXX City/suburb/town: XXXXXXXX

Lot/s: LP/PS: Volume: Folio:

Crown allotment: Section: Parish: County:

Municipal District:

Compliance

Summermore Pty Ltd confirm that we have designed the Level Master Adjustable Post Head Load Capacities as detailed on the attached drawing and that it complies with the following provisions of the Regulations:

- AS/NZS 1170.0:2002 Structural Design Actions Part 0—General Principles
- AS/NZS 1170.1:2002 Structural Design Actions Part 1—Permanent, Imposed & Other Actions
- AS/NZS 1170.2:2011 Structural Design Actions Part 2—Wind Loads
- AS4100:1990 Steel Structures Code
- AS/NZS 4600:2005 Cold Formed Steel Structures

Design documents

16-10897-S03-S06

Prepared by: RAB

Date: 30JUN2016

Signed:

Ronald A. Bell Registered Professional Engineer Grad Cert (Tech Mgt), BEng Civil (Hons), BEng, MIEAust (891940), CMEngNZ(1027695) 1MAY18 Signed RPEQ (6715), RBPNT (60596ES), RBP(Vic) (EC27967), RBP(Tas)(CC5556), MAIB (9225), JP(Qual). STRUCTURAL DETAILS CONCURRED
--

Date: Tuesday, 1 May 2018

This certification expires on 01st May 2019



REGISTERED
Building Practitioner
plus CPD