

Department of Housing and Public Works

Generic 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.

1. Property description	Street address (include no., street, suburb/locality and postcode)							
This section need only be completed if details of street address and property description are applicable.	Lot and plan details (attach list if necessary)							
	In which local government area is the land situated?							
2. Description of component/s certified	Level Master Adjustable Post Head Load Capacities with Retrofit Joiner and Tables							
3. Basis of certification	AS/NZS 1170.0, AS/NZS 1170.1, AS/NZS 1170.2, AS4100, AS/NZS4600.							
4. Reference documentation	16-10897-S03—S06A (REV-F) – 5 Sheets							
5. Building certifier reference number	Building certifier reference number							
6. Competent person details	Name (in full) Ronald Albert BELL							
	Company name (if applicable) Summermore Pty Ltd	Contact person Ronald Bell						
	Phone no. (business hours) Mobile no. 07 3800 0973	Fax no.						
	Email address							
	ron@summermore.com.au							
	Postal address							
	PO Box 1671, Browns Plains BC, Queens	·						
	Licence or registration number (if applicab	ole)						
	RPEQ 6715							
7. Signature of competent	Signature	Date						
person	Ronald A. Bell Registered Professional Engineer Grad Cert (Tech Mgt), BEng Civil (Hons), FIEAust (891940), CMEngNZ (1027605), CPEng, NER, APEC Engineer, IntPE(Aus). 25MAY2020 Signed RPEQ (6715), RBP(NT) (60596ES), RBP(Vic) (EC27967), RBP(Tas)(CC5556), MAIB (9225), JP(Qual). STRUCTURAL DETAILS CONCURRED	Monday, May 25, 2020 THIS CERTIFICATION EXPIRES ON THE 01st MAY 2021.						
LOCAL GOVERNMENT USE ONLY								

Reference Number/s

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 proposed building work at:

THE STATE OF VICTORIA

Nature of proposed building work

Construction of Steel Adjustable Post Heads. Version of BCA applicable to certificate - 2019 **Building classification** Building - Class 1 & 10a

Prescribed class 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

Document no.	Document date	Type of document	Number of pages	Prepared by
16-10897-S03—S06A (REV-F)	18 APR 2019	Adjustable Post Head Drawings (REV-F)	5	RAB

*Performance solution

A performance solution forms part of the design certified by this certificate. The performance solution complies with the following performance requirements of the NCC

Relevant performance requirement							
AS/NZS1170.0:2002 Structural Design Actions—General Principles							
AS/NZS1170.1: 2002 Structural Design Actions—Permanent, Imposed & Other Actions							
AS/NZS1170.2:2011	AS/NZS1170.2:2011 Structural Design Actions—Wind Actions						
AS4100:1998	Steel Structures						
AS/NZS4600:2005	Cold-Formed Steel Structures						

^{*}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.

Engineer

Name: Ronald Albert BELL

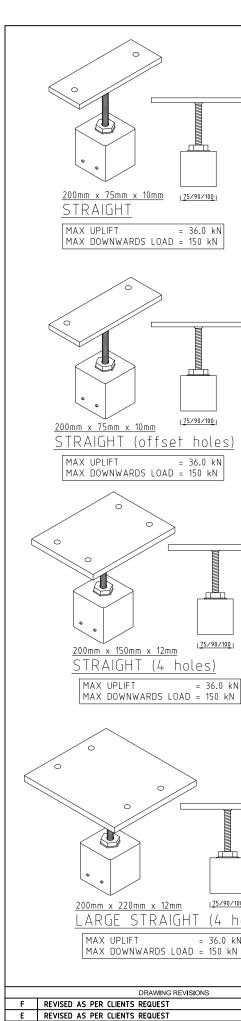
Address: PO Box 1671, Browns Plains, QLD, 4118.

Email: ron@summermore.com.au

Building practitioner registration category and class and registration number: EC27967

Date of issue of certificate: Monday, 25 May 2020 This Certification Expires on 01 May 2021

Signature:



REVISED AS PER CLIENTS REQUEST

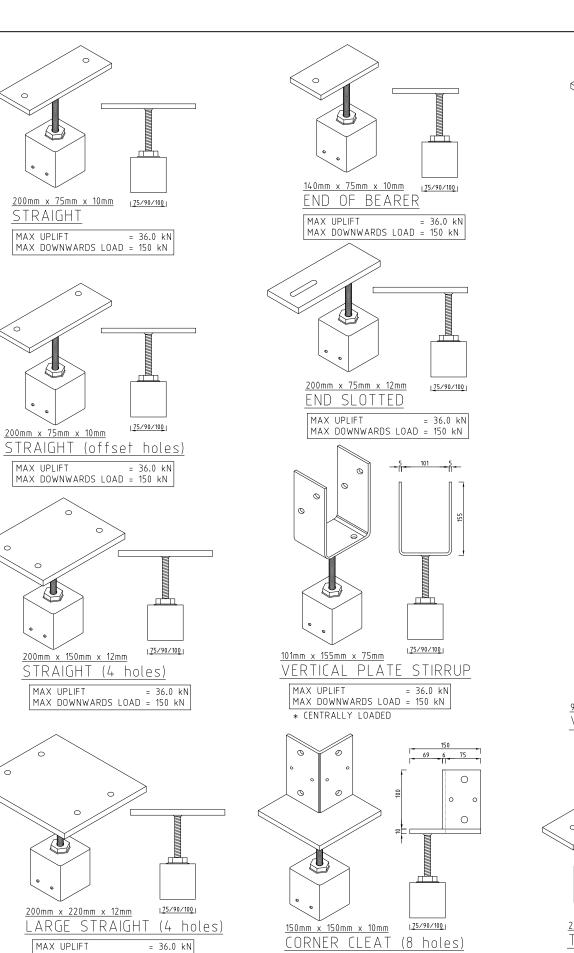
REVISED AS PER CLIENTS REQUEST

PRELIMINARY FOR CLIENT APPROVAL

DESCRIPTION

C REVISED AS PER CLIENTS REQUEST

A REVISED AS PER CLIENTS REQUEST



MAX UPLIFT

GAB APR2019

GAB APR2019

GAB SEP2018

GAB JUN2016

GAB JUN2016

GAB MAY2016

GAB MAY2016

BY DATE

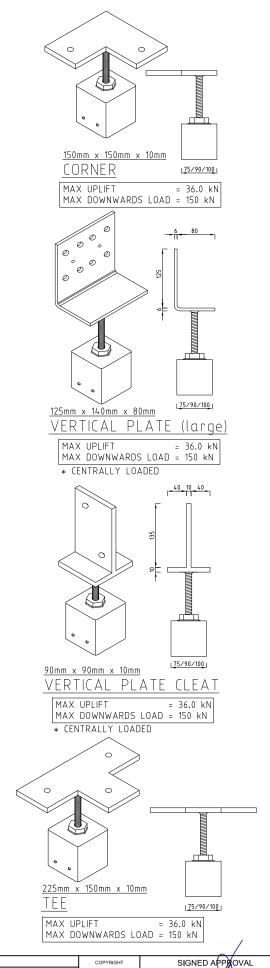
MAX DOWNWARDS LOAD = 150 kN

DRAWING NAME

= 36.0 kN

REFERENCE DRAWINGS

TITLE



APPROVED

REVIEWED

DESIGNED

DRAWN

SCALE

6715

RAB

GAB

AS SHOWN

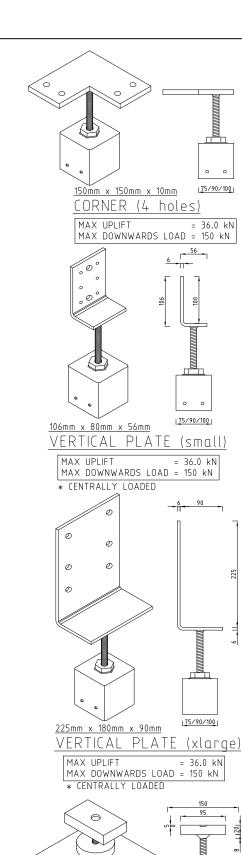
ORIGINAL DRAWING SIZE at A3

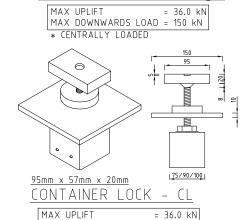
RPEQ

NOT TO BE USED OF

O NOT SCALE FROM

THESE DRAWINGS





MAX DOWNWARDS LOAD = 150 kN

LMaster.

* CENTRALLY LOADED

DOWNWARDS	0.41	0.64	1.15	0.76	1.32	2.39			
UPWARDS	-	1.01	1.82	1.20	2.10	3.80			
WIND CLASS	N2	N3	N4	C1	C2	С3			
NETT WIND PRESSURE AT STUMP (kN/m²)									

* 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:-

 $9m^2 \times 0.78kN/m^2 (roof) +$ DOWNWARDS=

 $9m^2 \times 2.85kN/m^2$ (floor) +

3m wall x 2.4 high x $0.42kN/m^2$ (wall)

= 35.7 kN total.

N3 WIND UPLIFT= $9m^2 \times 1.01kN/m^2$ = 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.

TYPICAL LOADS	(kN∕m²)
DOMESTIC FLOOR	2.85
SHEET ROOF	0.78
CLAD WALLS	0.42

CAP TO COLUMN CONNECTION TO HAVE 4/12g SCREWS (2 each opp face). UNLESS FIXING TO EXISTING COLUMNS AS PER EXISTING COLUMN TABLE.

> * ALL SCREWS TO BE 12q (24TPI) FROM ICCONS PTY LTD.

* IF NOT CENTRALLY LOADED ALL <u>UPLIFT</u> LOADS ARE 13.0 kN

* IF NOT CENTRALLY LOADED ALL DOWNWARDS LOADS ARE 13.0 kN

* ALL STEEL TO BE G450 (U.N.O).

REV

<u>52mm x 100mm x 80mm</u> VERTICAL PLATE STIRRUP MAX UPLIFT

MAX DOWNWARDS LOAD = 150 kN

ADJUSTABLE POST HEADS

Screw On Connectors

16-10897-S03

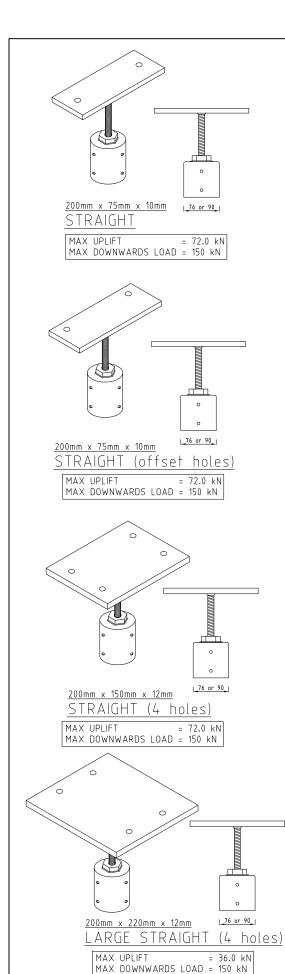
SHS Capacities DRAWING NUMBER

Summermore Pty Ltd | CLIENT Consulting Engineers APR2019 PO Box 1671 APR2019

* CENTRALLY LOADED

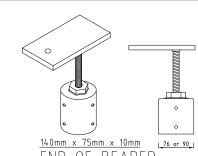
Browns Plains BC, QLD, 411 Phone: 07 3800 0973 Fax: 07 3800 1860 Fax:





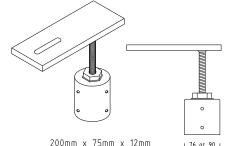
76 or 90

= 72.0 kN



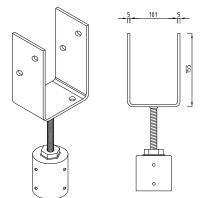
END OF BEARER

MAX UPLIFT = 72.0 kN MAX DOWNWARDS LOAD = 150 kN



200mm x 75mm x 12mm END SLOTTED

MAX UPLIFT = 72.0 kN MAX DOWNWARDS LOAD = 150 kN MAX UPLIFT

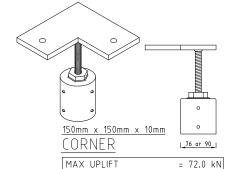


76 or 90| 101mm x 155mm x 75mm VERTICAL PLATE STIRRUP

MAX UPLIFT = 72.0 kN MAX DOWNWARDS LOAD = 150 kN * CENTRALLY LOADED

150mm x 150mm x 10mm 76 or 90_ CORNER CLEAT (8 holes)

MAX UPLIFT = 36.0 kN MAX DOWNWARDS LOAD = 150 kN

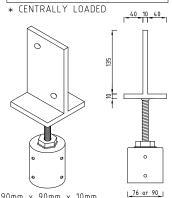


MAX DOWNWARDS LOAD = 150 kN

° 0

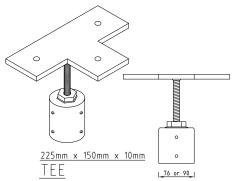
76 or 90 <u>125mm x 140mm x 80mm</u> VERTICAL PLATE (large)

MAX UPLIFT MAX DOWNWARDS LOAD = 150 kN



90mm x 90mm x 10mm VERTICAL PLATE CLEAT

MAX UPLIFT MAX DOWNWARDS LOAD = 150 kN * CENTRALLY LOADED



MAX DOWNWARDS LOAD = 150 kN

SIGNED APPROVAL

6715

RAB

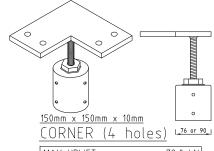
GAB

AS SHOWN

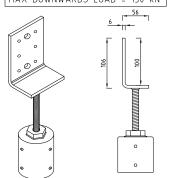
ORIGINAL DRAWING SIZE at A3

APR2019

APR2019

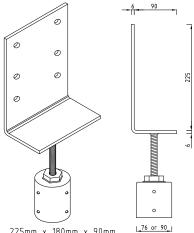


MAX UPLIFT MAX DOWNWARDS LOAD = 150 kN



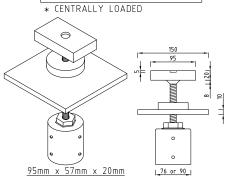
76 or 90 <u>106mm x 80mm x 56mm</u> VERTICAL PLATE (small)

MAX UPLIFT = 72.0 kN MAX DOWNWARDS LOAD = 150 kN * CENTRALLY LOADED



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

MAX DOWNWARDS LOAD = 150 kN



CONTAINER LOCK - CL

MAX UPLIFT = 36.0 kN MAX DOWNWARDS LOAD = 150 kN

* CENTRALLY LOADED

Consulting Engineers

Browns Plains BC, QLD, 411 Phone: 07 3800 0973 Fax: 07 3800 1860

on@summermore.com

PO Box 1671

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	

EXAMPLE:-

* LEVEL MASTER STUMP SUPPORTING 9m2 OF ROOF LOAD AND 9m2 OF FLOOR LOAD 3m OF WALL FRAME 2.4m HIGH

EXAMPLE WORKINGS:-

DOWNWARDS=

 $9m^2 \times 0.78kN/m^2 (roof) +$ $9m^2 \times 2.85kN/m^2$ (floor) +

3m wall x 2.4 high x $0.42kN/m^2$ (wall)

= 35.7 kN total.

N3 WIND UPLIFT= $9m^2 \times 1.01kN/m^2$ = 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.

TYPICAL LOADS	(kN∕m²)
DOMESTIC FLOOR	2.85
SHEET ROOF	0.78
CLAD WALLS	0.42

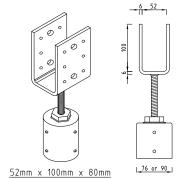
CAP TO COLUMN CONNECTION TO HAVE 8/12g SCREWS (equally spaced).

> * ALL SCREWS TO BE 12g (24TPI) FROM ICCONS PTY LTD.

> * IF NOT CENTRALLY LOADED ALL UPLIFT LOADS ARE 13.0 kN

* IF NOT CENTRALLY LOADED ALL DOWNWARDS LOADS ARE 13.0 kN

* ALL STEEL TO BE G450 (U.N.O).



VERTICAL PLATE STIRRUP

MAX UPLIFT = 36.0 kN MAX DOWNWARDS LOAD = 150 kN

* CENTRALLY LOADED

Summermore Pty Ltd | CLIENT .Master

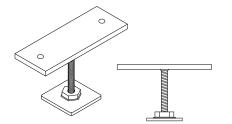
ADJUSTABLE POST HEADS

Screw On Connectors CHS Capacities

DRAWING NUMBER REV 16-10897-S04

	DRAWING REVISIONS			RE	FERENCE DRAWINGS	COPYRIGHT	S	IG
F	REVISED AS PER CLIENTS REQUEST	GAB	APR2019			THESE DESIGNS, PLANS AND INFORMATION ARE	APPROVED	Т
E	REVISED AS PER CLIENTS REQUEST	GAB	APR2019			COPYRIGHT AND ARE		╀
D	REVISED AS PER CLIENTS REQUEST	GAB	SEP2018			NOT TO BE USED OR REPRODUCED WHOLLY	RPEQ	╀
С	REVISED AS PER CLIENTS REQUEST	GAB	JUN2016			OR IN PART OR TO BE USED ON ANY PROJECT	REVIEWED	L
В	REVISED AS PER CLIENTS REQUEST	GAB	JUN2016			WITHOUT THE WRITTEN PERMISSION OF	DESIGNED	L
Α	REVISED AS PER CLIENTS REQUEST	GAB	MAY2016			SUMMERMORE PTY LTD	DRAWN	
-	PRELIMINARY FOR CLIENT APPROVAL	GAB	MAY2016			DO NOT SCALE FROM	SCALE	Α
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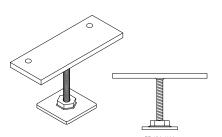
76 or 90



200mm x 75mm x 10mm 175/90/1001 STRAIGHT

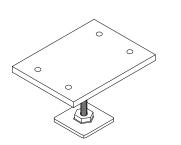
MAX UPLIFT = 150 kN MAX DOWNWARDS LOAD = 150 kN





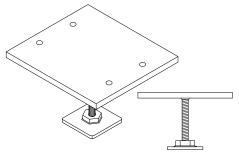
75/90/100 200mm x 75mm x 10mm STRAIGHT (offset holes)

MAX UPLIFT = 150 kN MAX DOWNWARDS LOAD = 150 kN



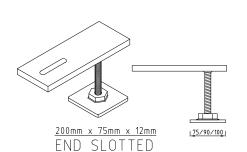
200mm x 150mm x 12mm STRAIGHT (4 holes)

MAX UPLIFT = 150 kN MAX DOWNWARDS LOAD = 150 kN

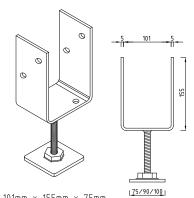


75/90/100 200mm x 220mm x 12mm LARGE STRAIGHT (4 holes)

MAX UPLIFT = 150 kN MAX DOWNWARDS LOAD = 150 kN

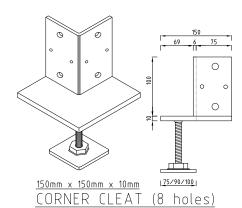


MAX UPLIET = 150 kN MAX DOWNWARDS LOAD = 150 kN

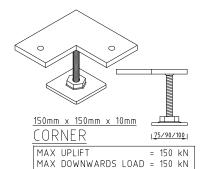


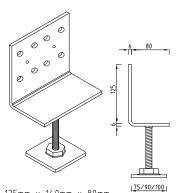
101mm x 155mm x 75mm VERTICAL PLATE STIRRUP

= 150 kN MAX DOWNWARDS LOAD = 150 kN * CENTRALLY LOADED



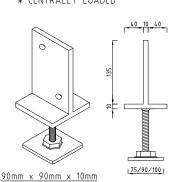
MAX DOWNWARDS LOAD = 150 kN





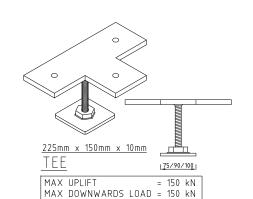
125mm x 140mm x 80mm VERTICAL PLATE (large)

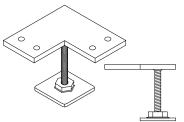
MAX UPLIFT = 150 kN MAX DOWNWARDS LOAD = 150 kN * CENTRALLY LOADED



VERTICAL PLATE CLEAT MAX UPLIFT

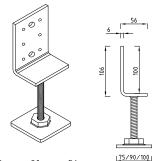
MAX DOWNWARDS LOAD = 150 kN * CENTRALLY LOADED





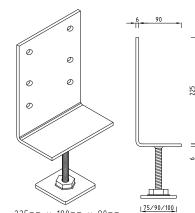
150mm x 150mm x 10mm CORNER (4 holes)

MAX UPLIFT MAX DOWNWARDS LOAD = 150 kN



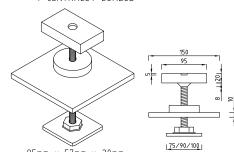
VERTICAL PLATE (small)

MAX UPLIFT MAX DOWNWARDS LOAD = 150 kN * CENTRALLY LOADED



<u>225mm x 180mm x 90mm</u> VERTICAL PLATE (xlarge)

MAX UPLIFT MAX DOWNWARDS LOAD = 150 kN * CENTRALLY LOADED



95mm x 57mm x 20mm CONTAINER LOCK - CL

MAX UPLIFT = 150 kN MAX DOWNWARDS LOAD = 150 kN

NETT WIND PRESSURE AT STUMP (kN/m²) C2 С3 WIND CLASS N2 Ν3 3.80 UPWARDS 1.82 1.20 2.10 1.01 DOWNWARDS 0.41 0.64 1.15 0.76 | 1.32

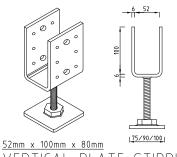
TYPICAL LOADS	(kN∕m²)
DOMESTIC FLOOR	2.85
SHEET ROOF	0.78
CLAD WALLS	0.42

CAP TO COLUMN CONNECTION TO BE WELDED ON ALL 4 EDGES.

* IF NOT CENTRALLY LOADED ALL UPLIFT LOADS ARE 13.0 kN

* IF NOT CENTRALLY LOADED ALL DOWNWARDS LOADS ARE 13.0 kN

* ALL STEEL TO BE G450 (U.N.O).



VERTICAL PLATE STIRRUP

MAX UPLIFT = 150 kN MAX DOWNWARDS LOAD = 150 kN * CENTRALLY LOADED

* CENTRALLY LOADED

<mark>el</mark>Master.

ADJUSTABLE POST HEADS Weld On Connectors

16-10897-S05

SHS Capacities DRAWING NUMBER

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F	REVISED AS PER CLIENTS REQUEST	GAB	APR2019			THESE DESIGNS, PLANS AND INFORMATION ARE		MIA	18 A PP 2010	Consulting Engineers		٠.
E	REVISED AS PER CLIENTS REQUEST	GAB	APR2019			COPYRIGHT AND ARE	RPEQ	0745	10A1 K2017	ACN: 108 898 433		
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В	REVISED AS PER CLIENTS REQUEST	GAB	JUN2016			WITHOUT THE WRITTEN PERMISSION OF	DESIGNED	RAB	APR2019	www.summermore.com.au	- 11 /)
Α	REVISED AS PER CLIENTS REQUEST	GAB	MAY2016			SUMMERMORE PTY LTD	DRAWN	GAB	APR2019	PO Box 1671	- II - <i>I</i>	/
-	PRELIMINARY FOR CLIENT APPROVAL	GAB	MAY2016			DO NOT SCALE FROM	SCALE	AS SHOWN		Browns Plains BC, QLD, 4118 Phone: 07 3800 0973	-· /	9
REV	DESCRIPTION	BY	DATE	DRAWING NAME	TITLE	THESE DRAWINGS.	ORIGI	NAL DRAWING SI	ZE at A3	Fax 07 3800 1860		

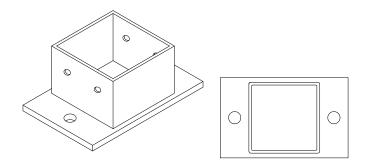
* ALL SCREWS TO BE 12g (24TPI) FROM ICCONS PTY LTD.

 \bigcirc

* ALL STEEL TO BE G450 (U.N.O).

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	С3	
UPWARDS	-	1.01	1.82	1.20	2.10	3.80	
DOWNWARDS	0.41	0.64	1.15	0.76	1.32	2.39	

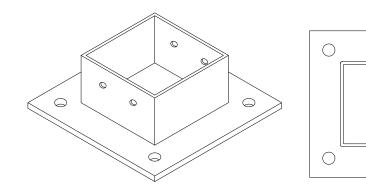


SUIT 75mm & 90mm POST

CAST IN BASEPLATE

TO CONCRETE

MAX UPLIFT = 36.0 kN



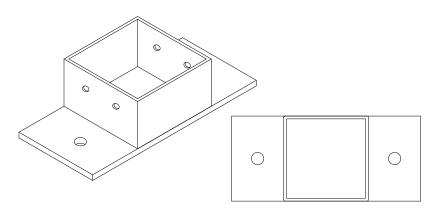
SUIT 75mm, 90mm & 100mm POST - 4 holes
BOLT DOWN BASEPLATE

(4 HOLES)

MAX UPLIFT = 36.0 kN

BOLT DOWN OPTIONS (4 HOLES)						
CHEMSET '101'	4 x M12-100 CHEMSETS (1 x each corner)					
WERCS ANKASCREW	4 x M12-60 WERCS ANKASCREWS (1 x each corner)					

* ALTERNATIVE MANUFACTURER ANKASCREWS MAY USED, PLEASE ENSURE ALL STRUCTURAL CAPACITIES ARE SIMILAR OR BETTER.



SUIT 75mm, 90mm & 100mm POST BOLT DOWN BASEPLATE (2 HOLES)

MAX UPLIFT = 36.0 kN

BOLT DOWN OPTIONS (2 HOLES)						
CHEMSET '101'	2 x M12-200 CHEMSETS (1 x each side)					
WERCS ANKASCREW	2 x M12-90 WERCS ANKASCREWS (1 x each side)					

* ALTERNATIVE MANUFACTURER ANKASCREWS MAY USED, PLEASE ENSURE ALL STRUCTURAL CAPACITIES ARE SIMILAR OR BETTER.

- * 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 4/12g SCREWS (2 each opp face).

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= $9m^2 \times 0.78kN/m^2 \text{ (roof)} +$

9m² x 2.85kN∕m² (floor) +

3m wall x 2.4 high x $0.42kN/m^2$ (wall)

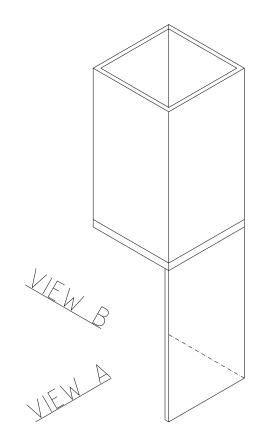
= 35.7 kN total.

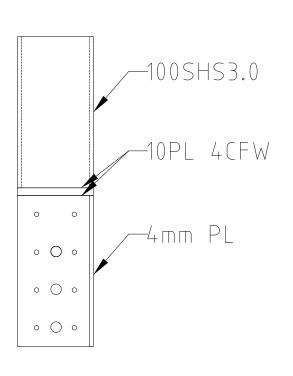
N3 WIND UPLIFT= $9m^2 \times 1.01kN/m^2$

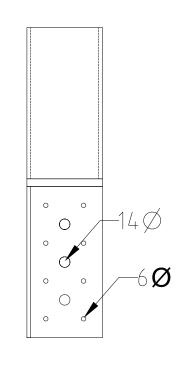
= 9.09 kN total.

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

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VIEW A

VIEW B

LEVEL MASTER RETRO FIT BRACKET CAPACITIES (kN)						
2 / M12-100 ANKA SCREWS TO CONCRETE	15.0					
4 / M12-100 ANKA SCREWS TO CONCRETE	29.9					
6 / M12-100 ANKA SCREWS TO CONCRETE	43.8					
2 / 12g SCREWS TO MIN 3mm STEEL COLUMN	9.9					
4 / 12g SCREWS TO MIN 3mm STEEL COLUMN	19.8					
6 / 12g SCREWS TO MIN 3mm STEEL COLUMN	29.7					
8 / 12g SCREWS TO MIN 3mm STEEL COLUMN	39.6					
12 / 12g SCREWS TO MIN 3mm STEEL COLUMN	43.8					
2 / #14 TYPE 17 SCREWS TO HARDWOOD COLUMN	6.1					
4 / #14 TYPE 17 SCREWS TO HARDWOOD COLUMN	12.1					
6 / #14 TYPE 17 SCREWS TO HARDWOOD COLUMN	18.2					
8 / #14 TYPE 17 SCREWS TO HARDWOOD COLUMN	24.3					
12 / #14 TYPE 17 SCREWS TO HARDWOOD COLUMN	36.4					
16 / #14 TYPE 17 SCREWS TO HARDWOOD COLUMN	43.8					

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Summermore Pt	y Ltc
Consulting Engineers	
ACN: 108 898 433 ABN: 42 108 898 433	\Box
ron@summermore.com.au	'
www.summermore.com.au	1 .
PO Box 1671	I /
Browns Plains BC, QLD, 4118	' /
Phone: 07 3800 0973	
Fax: 07 3800 1860	

	TITL
LevelMaster	
Stronger • Easier • Faster ADJUSTABLE HOUSE STUMPS	DRAV
Scronger + Easter + Paster - Rojust Able House Stuffs	

	PROJECT	RETROFIT JOINER	
۲	TITLE	Levelmaster Retrofit Joiner & Capacity Table	
	DRAWING N	IUMBER	RE
		16-10897-S06A	F