

PRELIMINARY FOR CLIENTS APPROVAL

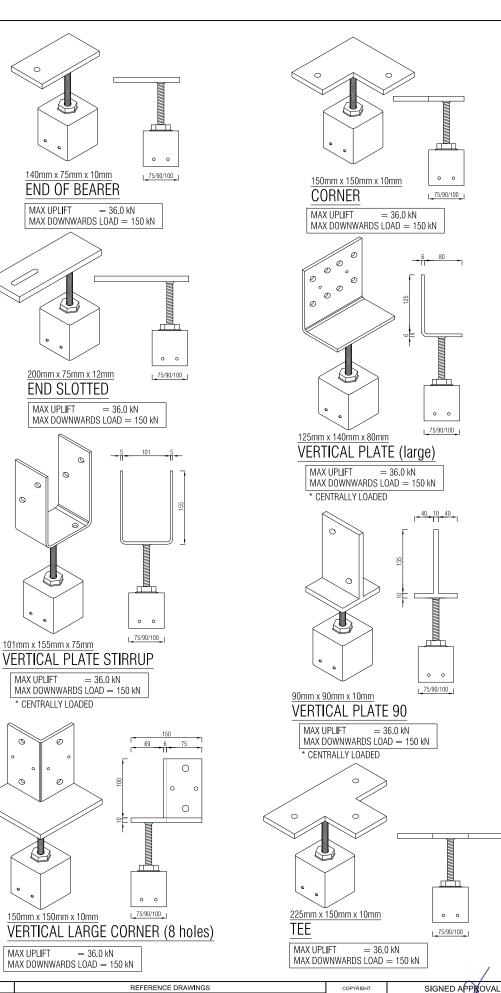
DESCRIPTION

REV

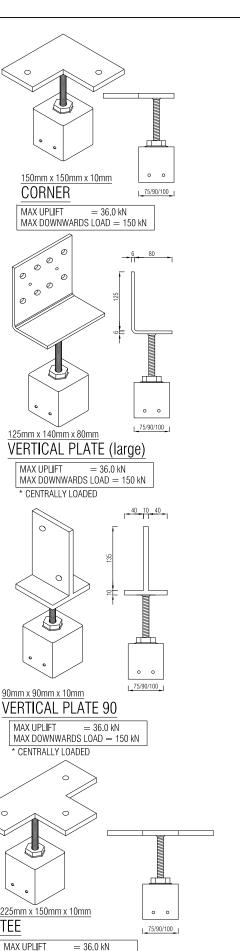
GAB MAY2016

BY DATE

DRAWING NAME



TITLE



RPEQ

REVIEWED

DESIGNED

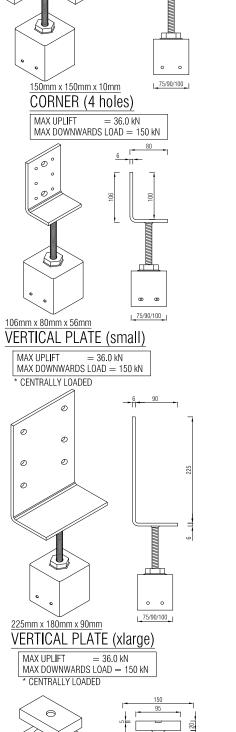
RAB

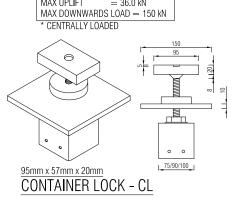
GAB

AS SHOWN

ORIGINAL DRAWING SIZE at A3







= 36.0 kN MAX DOWNWARDS LOAD = 150 kN \* CENTRALLY LOADED

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 9m<sup>2</sup> OF ROOF LOAD AND 9m<sup>2</sup> OF FLOOR LOAD 3m OF WALL FRAME 2.4m HIGH IN AN N3 WIND AREA.

### **EXAMPLE WORKINGS:-**

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

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

3m wall x 2.4 high x 0.42kN/m<sup>2</sup> (wall)

= 35.7 kN total.

N3 WIND UPLIFT= 9m<sup>2</sup> x 1.01kN/m<sup>2</sup>

= 9.09 kN total.

\* SO USE LEVEL MASTER CENTRE LOADED ADJUSTABLE TOP/POST HEAD

BECAUSE: 35.7 kN < 150 kNAND 9.09 kN < 13 kN.

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

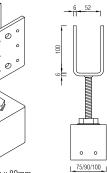
CAP TO COLUMN CONNECTION TO HAVE 4/12g SCREWS (2 each opp face). UNLESS FIXING TO EXISTING COLUMNS AS PER EXISTING COLUMN TABLE.

\* ALL SCREWS TO BE CLASS 4 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 G250 (U.N.O).



52mm x 100mm x 80mm VERTICAL PLATE STIRRUP MAX UPLIFT = 36.0 kN MAX DOWNWARDS LOAD = 150 kN \* CENTRALLY LOADED

.Master

ADJUSTABLE POST HEADS

Screw On Connectors **SHS** Capacities

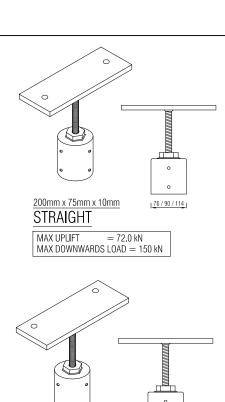
DRAWING NUMBER REV 16-10897-S03

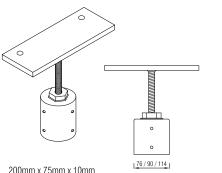


PO Box 1671 Browns Plains BC, QLD, 4 Phone: 07 3800 0973 Fax: 07 3800 1860



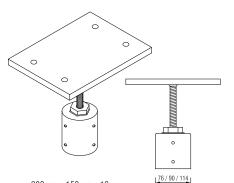




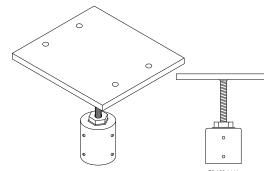


STRAIGHT (offset holes)

MAX UPLIFT = 72.0 kN MAX DOWNWARDS LOAD = 150 kN



MAX UPLIFT = 72.0 kN MAX DOWNWARDS LOAD = 150 kN

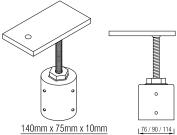


200mm x 220mm x 12mm LARGE STRAIGHT (4 holes)

REV

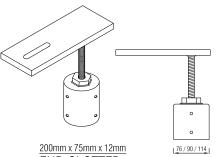
MAX UPLIFT = 72.0 kN MAX DOWNWARDS LOAD = 150 kN

DESCRIPTION



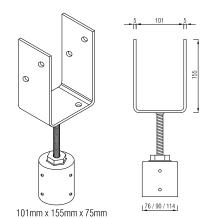
END OF BEARER

MAX UPLIFT = 72.0 kNMAX DOWNWARDS LOAD = 150 kN



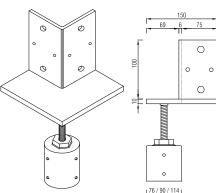
**END SLOTTED** 

MAX UPLIFT = 72.0 kN MAX DOWNWARDS LOAD = 150 kN



VERTICAL PLATE STIRRUP

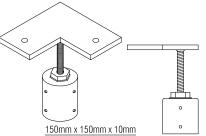
MAX UPLIFT = 72.0 kN MAX DOWNWARDS LOAD = 150 kN \* CENTRALLY LOADED



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

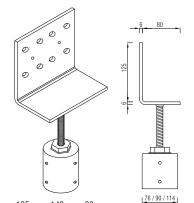
MAX UPLIFT = 72.0 kN MAX DOWNWARDS LOAD = 150 kN

DRAWING NAME

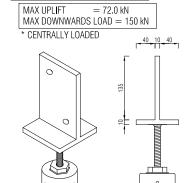


CORNER 176/90/1141 MAX UPLIFT = 72.0 kN

MAX DOWNWARDS LOAD = 150 kN



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



90mm x 90mm x 10mm VERTICAL PLATE 90

> MAX UPLIFT = 72.0 kNMAX DOWNWARDS LOAD = 150 kN \* CENTRALLY LOADED

76 / 90 / 114

SIGNED APPROVAL

6715

RAB

GAB

AS SHOWN

ORIGINAL DRAWING SIZE at A3

AUG 2022

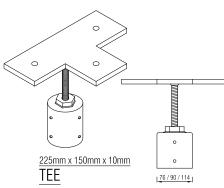
AUG 2022

RPEQ

REVIEWED

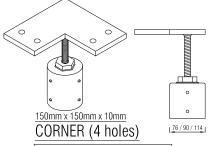
DESIGNED

DRAWN



MAX UPLIFT = 72.0 kN MAX DOWNWARDS LOAD = 150 kN

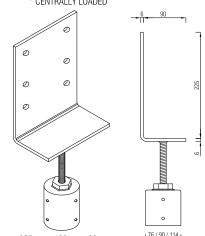
TITLE



MAX UPLIFT MAX DOWNWARDS LOAD = 150 kN

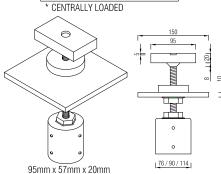
106mm x 80mm x 56mm VERTICAL PLATE (small)

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



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

MAX UPLIFT = 72.0 kN MAX DOWNWARDS LOAD = 150 kN



CONTAINER LOCK - CL

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

NETT WIND PRESSURE AT STUMP (kN/m²) WIND CLASS N2 N3 C1 C2 C3 **UPWARDS** 1.01 1.82 1.20 2.10 3.80 **DOWNWARDS** 0.41 0.76 1.32 2.39 0.64 1.15

### EXAMPLE:-

LEVEL MASTER STUMP SUPPORTING 9m<sup>2</sup> OF ROOF LOAD AND 9m<sup>2</sup> OF FLOOR LOAD 3m OF WALL FRAME 2.4m HIGH IN AN N3 WIND AREA.

# **EXAMPLE WORKINGS:-**

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

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

3m wall x 2.4 high x 0.42kN/m<sup>2</sup> (wall)

= 35.7 kN total.

N3 WIND UPLIFT= 9m<sup>2</sup> x 1.01kN/m<sup>2</sup>

= 9.09 kN total.

\* SO USE LEVEL MASTER CENTRE LOADED ADJUSTABLE TOP/POST HEAD

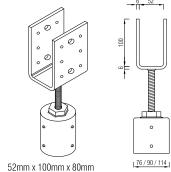
BECAUSE: 35.7 kN < 150 kNAND 9.09 kN < 13 kN.

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 CLASS 4 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 G250 (U.N.O).



VERTICAL PLATE STIRRUP

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

DRAWING REVISIONS			Į R	EFERENCE DRAWINGS		
						THES
J	REVISED AS PER CLIENTS REQUEST	GAB	AUG2022			COF
1	REVISED AS PER CLIENTS REQUEST	GAB	MAR2021			NO.
Н	REVISED AS PER CLIENTS REQUEST	GAB	FEB2021			OR I
G	REVISED AS PER CLIENTS REQUEST	RAB	OCT2020			WITH
F	REVISED AS PER CLIENTS REQUEST	GAB	APR2019			SUMN
-	PRELIMINARY FOR CLIENTS APPROVAL	GAB	MAY2016			00 N

DATE

Summermore Pty Ltd

Consulting Engineers

PO Box 1671

Browns Plains BC, QLD, 4 Phone: 07 3800 0973 Fax: 07 3800 1860

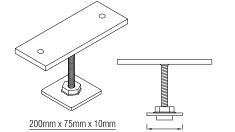


ADJUSTABLE POST HEADS

Screw On Connectors

**CHS** Capacities

DRAWING NUMBER REV 16-10897-S04



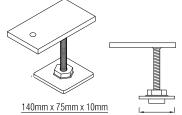
**STRAIGHT** 

200mm x 75mm x 10mm

STRAIGHT (offset holes)

MAX UPLIFT = 150 kN MAX DOWNWARDS LOAD = 150 kN

MAX UPLIFT = 150 kN MAX DOWNWARDS LOAD = 150 kN



END OF BEARER

200mm x 75mm x 12mm **END SLOTTED** 

101mm x 155mm x 75mm

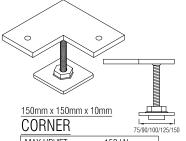
\* CENTRALLY LOADED

VERTICAL PLATE STIRRUP

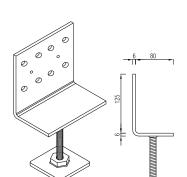
MAX UPLIFT = 150 kN MAX DOWNWARDS LOAD = 150 kN

MAX UPLIFT = 150 kN MAX DOWNWARDS LOAD = 150 kN

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



MAX UPLIFT = 150 kN MAX DOWNWARDS LOAD = 150 kN



125mm x 140mm x 80mm

MAX UPLIFT = 150 kN MAX DOWNWARDS LOAD = 150 kN

\* CENTRALLY LOADED

90mm x 90mm x 10mm

VERTICAL PLATE 90

\* CENTRALLY LOADED

MAX UPLIFT = 150 kN MAX DOWNWARDS LOAD = 150 kN

# VERTICAL PLATE (small) VERTICAL PLATE (large)

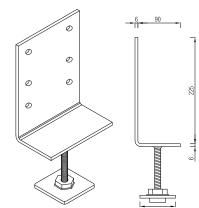
MAX UPLIFT = 150 kN MAX DOWNWARDS LOAD = 150 kN \* CENTRALLY LOADED

106mm x 80mm x 56mm

150mm x 150mm x 10mm

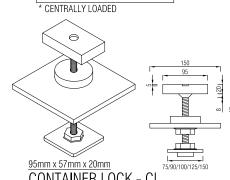
CORNER (4 holes)

MAX UPLIFT = 150 kN MAX DOWNWARDS LOAD = 150 kN



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

MAX UPLIFT = 150 kN MAX DOWNWARDS LOAD = 150 kN



CONTAINER LOCK - CL

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

NETT WIND PRESSURE AT STØMP (kN/m) WIND CLASS N2 N3 C1 C2 C3 **UPWARDS** 1.01 1.82 1.20 2.10 3.80 **DOWNWARDS** 0.41 0.76 1.32 2.39 0.64 1.15

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.

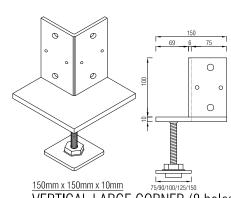
\* IF NOT CENTRALLY LOADED ALL UPLIFT LOADS ARE 13.0 kN

IF NOT CENTRALLY LOADED ALL DOWNWARDS LOADS ARE 13.0 kN

\* ALL STEEL TO BE G250 (U.N.O).

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

MAX UPLIFT = 150 kN MAX DOWNWARDS LOAD = 150 kN



VERTICAL LARGE CORNER (8 holes)

MAX UPLIFT = 150 kN MAX DOWNWARDS LOAD = 150 kN

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

# 52mm x 100mm x 80mm VERTICAL PLATE STIRRUP MAX UPLIFT = 150 kN MAX DOWNWARDS LOAD = 150 kN \* CENTRALLY LOADED

DRAWING REVISIONS REVISED AS PER CLIENTS REQUEST REVISED AS PER CLIENTS REQUEST

DESCRIPTION

200mm x 220mm x 12mm

MAX UPLIFT

REV

LARGE STRAIGHT (4 holes)

MAX UPLIFT = 150 kN MAX DOWNWARDS LOAD = 150 kN

REFERENCE DRAWINGS SIGNED APPROVAL GAB AUG2022 RPEQ 6715 GAB MAR2021 REVIEWED GAB FEB2021 REVISED AS PER CLIENTS REQUEST RAB OCT2020 DESIGNED RAB AUG 2022 REVISED AS PER CLIENTS REQUEST GAB APR2019 GAB AUG 2022 REVISED AS PER CLIENTS REQUEST GAB MAY2016 AS SHOWN PRELIMINARY FOR CLIENTS APPROVAL BY DATE DRAWING NAME TITLE ORIGINAL DRAWING SIZE at A3

Summermore Pty Ltd Consulting Engineers

PO Box 1671 Browns Plains BC, QLD, 4 Phone: 07 3800 0973 Fax: 07 3800 1860 .Master

ADJUSTABLE POST HEADS

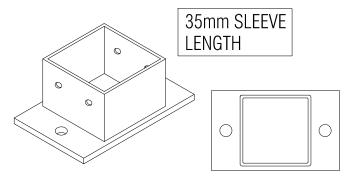
Weld On Connectors **SHS** Capacities

DRAWING NUMBER REV 16-10897-S05

\* IF NOT CENTRALLY LOADED ALL DOWNWARDS LOADS ARE 13.0 kN

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

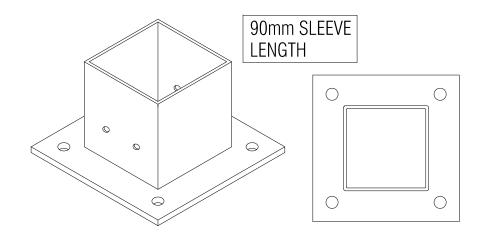
NETT WIND PRESSURE AT STUMP (kN/m²)						
WIND CLASS N2 N3 N4 C1 C2 C3						C3
UPWARDS	-	1.01	1.82	1.20	2.10	3.80
DOWNWARDS	0.41	0.64	1.15	0.76	1.32	2.39



SUIT 75mm & 89mm POST

# CAST IN BASEPLATE TO CONCRETE

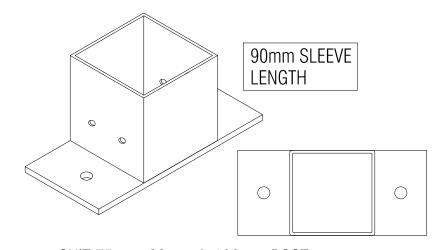
MAX UPLIFT = 36.0 kN



SUIT 75mm, 89mm & 100mm POST - 4 holes
BOLT DOWN BASEPLATE
(4 HOLES)

MAX UPLIFT = 36.0 kN

BOLT DOWN OPTIONS (4 HOLES) - 20MPa concrete (min) - 90mm edge distance (min)					
RAMSET CHEMSET '101'	4 x M12-100 CHEMSETS (1 x each corner)				
WERCS ANKASCREW	4 x M12-60 WERCS ANKASCREWS (1 x each corner)				



SUIT 75mm, 89mm & 100mm POST BOLT DOWN BASEPLATE (2 HOLES)

MAX UPLIFT = 36.0 kN

BOLT DOWN OPTIONS (2 HOLES) - 20MPa concrete (min) - 90mm edge distance (min)					
RAMSET CHEMSET '101'	2 x M12-200 CHEMSETS (1 x each side)				
WERCS ANKASCREW	2 x M12-90 WERCS ANKASCREWS (1 x each side)				

- \* 89SHS3.5 or 100SHS4.0 COLUMN MAXIMUM COMPRESSION LOAD EXCEEDS 150kN UP TO 4500mm 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.
- \*ALL OTHER COLUMNS/HEIGHTS TO BE SITE SPECIFIC DESIGNED.

COLUMN TO BASEPLATE CONNECTION TO HAVE 4/12g SCREWS (2 each opp face).

# EXAMPLE:-

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

# EXAMPLE WORKINGS:-

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

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

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

= 35.7 kN total.

N3 WIND UPLIFT=

 $9m^2 \times 1.01 \text{kN/m}^2$ = 9.09 kN total.

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

DRAWING REVISIONS			RE	COPYRIGHT	ı		
						THESE DESIGNS, PLANS AND INFORMATION ARE	
J	REVISED AS PER CLIENTS REQUEST	GAB	AUG2022			COPYRIGHT AND ARE NOT TO BE USED OR	Ľ
ı	REVISED AS PER CLIENTS REQUEST	GAB	MAR2021			REPRODUCED WHOLLY	H
Н	REVISED AS PER CLIENTS REQUEST	GAB	FEB2021			OR IN PART OR TO BE USED ON ANY PROJECT	R
G	REVISED AS PER CLIENTS REQUEST	RAB	OCT2020			WITHOUT THE WRITTEN PERMISSION OF	D
F	REVISED AS PER CLIENTS REQUEST	GAB	APR2019			SUMMERMORE PTY LTD	D
-	PRELIMINARY FOR CLIENTS APPROVAL	GAB	MAY2016			DO NOT SCALE FROM	s
REV	DESCRIPTION	BY	DATE	DRAWING NAME	TITLE	THESE DRAWINGS.	l

COPYRIGHT
THESE DESIGNS, PLANS
AND INFORMATION ARE
COPYRIGHT AND ARE
NOT TO BE USED OR
REPRODUCED WHOLLY
OR IN PART OR TO BE
USED ON ANY PROJECT
WITHOUT THE WRITTEN
PERMISSION OF
SUMMERMORE PTYLTD
DO NOT SCALE FROM
THESE DRAWINGS.

ORIGINAL DRAWING SIZE at A3

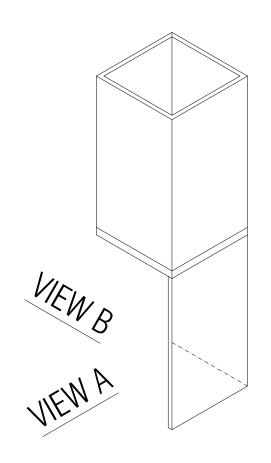


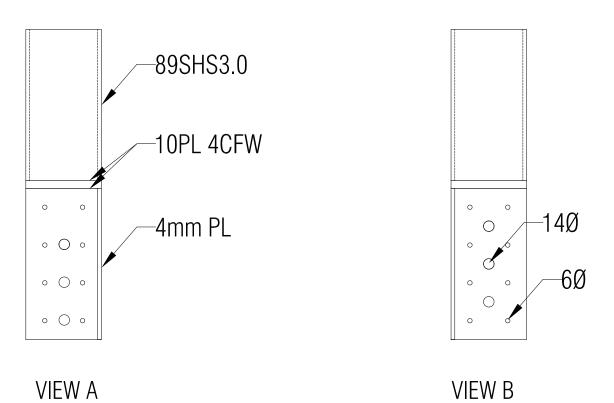


ADJUSTABLE POST HEADS

Base Plates
SHS Capacities

NG NUMBER	REV
16-10897-S06	J





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

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

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

DRAWING REVISIONS				REFERENCE DRAWINGS		COPYRIGHT SIGNED APPROVAL		VAL	Summermore Pty Ltd ∣		CLIEN	CLIENT						
						THESE DESIGNS, PLANS	APPROVED		100000000	Consulting Engineers		'		F	RETROFIT JOINER			
J	REVISED AS PER CLIENTS REQUEST	GAB	AUG2022			COPYRIGHT AND ARE NOT TO BE USED OR REPRODUCED WHOLLY	PPEO	PEQ 6715			Incors /			TITLE				
	REVISED AS PER CLIENTS REQUEST	GAB	MAR2021				REPRODUCED WHOLI	REPRODUCED WHOLLY	-	6715	<del></del> '	ACN: 108 898 433 ABN: 42 108 898 433		<b>,</b>			Levelmaster Retrofit Joiner	
Н	REVISED AS PER CLIENTS REQUEST	GAB	FEB2021			OR IN PART OR TO BE USED ON ANY PROJECT	REVIEWED			ron@summermore.com.au	II '		Andrew Commence Andrews		& Capacity Table			
G	REVISED AS PER CLIENTS REQUEST	RAB	OCT2020			WITHOUT THE WRITTEN PERMISSION OF	DESIGNED	RAB	AUG 2022	www.summermore.com.au			<u>evel</u> Master	9	х Сарасну тавіе			
F	REVISED AS PER CLIENTS REQUEST	GAB	APR2019			SUMMERMORE PTY LTD	DRAWN	GAB	AUG 2022	PO Box 1671 Browns Plains BC, QLD, 4118	. II /			DRAWING NUM	MBER	REV		
	PRELIMINARY FOR CLIENTS APPROVAL	GAB	MAY2016			DO NOT SCALE FROM	SCALE AS SHOWN						一. ノ	Stron	nger • Easier • Faster ADJUSTABLE HOUSE STUMPS	,	16-10897-S06A	+
REV	DESCRIPTION	BY	DATE	DRAWING NAME	TITLE	THESE DRAWINGS.					Phone: 07 3800 0973 Fax: 07 3800 1860					10-10097-300A	ایا	