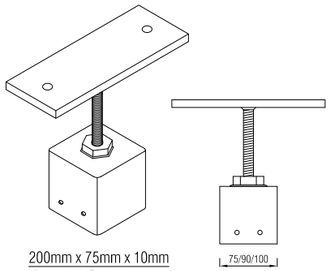
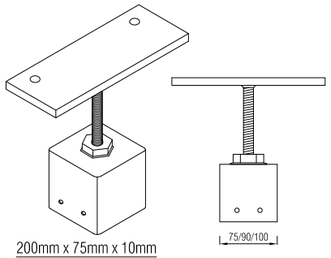


200mm x 75mm x 10mm

STRAIGHT

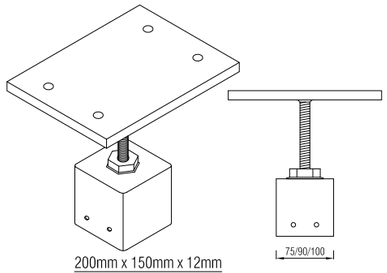
MAX UPLIFT = 36.0 kN
MAX DOWNWARDS LOAD = 150 kN



200mm x 75mm x 10mm

STRAIGHT (offset holes)

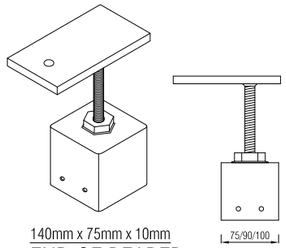
MAX UPLIFT = 36.0 kN
MAX DOWNWARDS LOAD = 150 kN



200mm x 150mm x 12mm

STRAIGHT (4 holes)

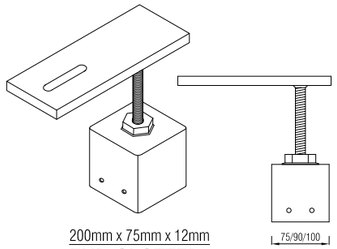
MAX UPLIFT = 36.0 kN
MAX DOWNWARDS LOAD = 150 kN



140mm x 75mm x 10mm

END OF BEARER

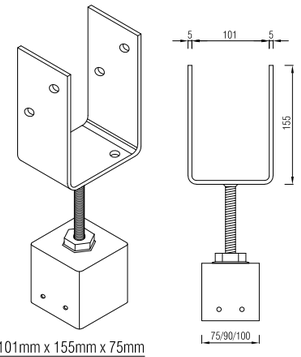
MAX UPLIFT = 36.0 kN
MAX DOWNWARDS LOAD = 150 kN



200mm x 75mm x 12mm

END SLOTTED

MAX UPLIFT = 36.0 kN
MAX DOWNWARDS LOAD = 150 kN

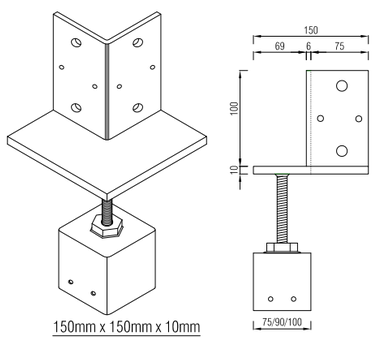


101mm x 155mm x 75mm

VERTICAL PLATE STIRRUP

MAX UPLIFT = 36.0 kN
MAX DOWNWARDS LOAD = 150 kN

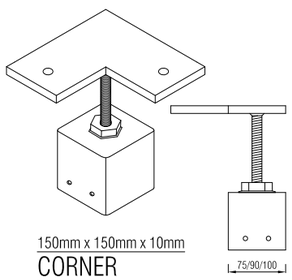
* CENTRALLY LOADED



150mm x 150mm x 10mm

VERTICAL LARGE CORNER (8 holes)

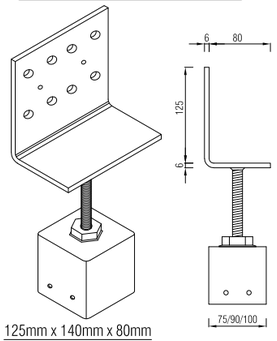
MAX UPLIFT = 36.0 kN
MAX DOWNWARDS LOAD = 150 kN



150mm x 150mm x 10mm

CORNER

MAX UPLIFT = 36.0 kN
MAX DOWNWARDS LOAD = 150 kN

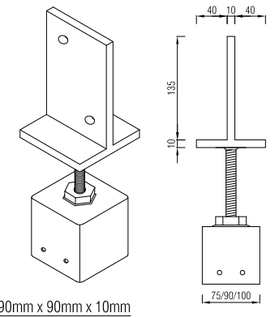


125mm x 140mm x 80mm

VERTICAL PLATE (large)

MAX UPLIFT = 36.0 kN
MAX DOWNWARDS LOAD = 150 kN

* CENTRALLY LOADED

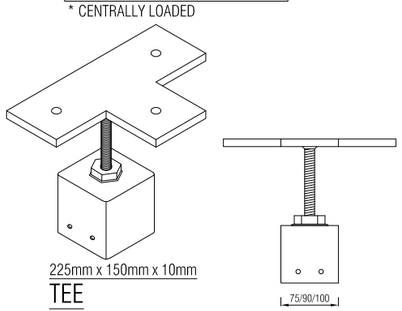


90mm x 90mm x 10mm

VERTICAL PLATE 90

MAX UPLIFT = 36.0 kN
MAX DOWNWARDS LOAD = 150 kN

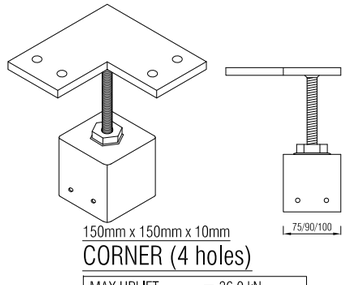
* CENTRALLY LOADED



225mm x 150mm x 10mm

TEE

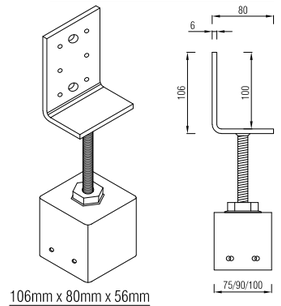
MAX UPLIFT = 36.0 kN
MAX DOWNWARDS LOAD = 150 kN



150mm x 150mm x 10mm

CORNER (4 holes)

MAX UPLIFT = 36.0 kN
MAX DOWNWARDS LOAD = 150 kN

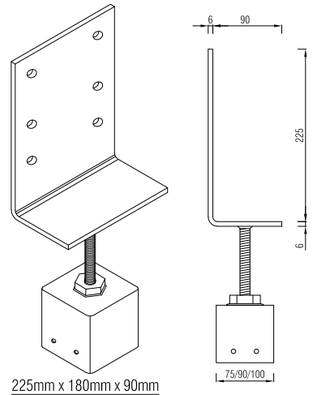


106mm x 80mm x 56mm

VERTICAL PLATE (small)

MAX UPLIFT = 36.0 kN
MAX DOWNWARDS LOAD = 150 kN

* CENTRALLY LOADED

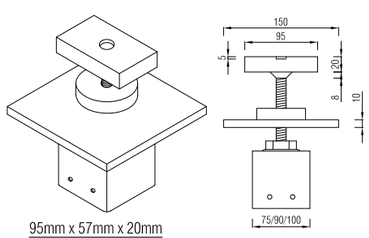


225mm x 180mm x 90mm

VERTICAL PLATE (xlarge)

MAX UPLIFT = 36.0 kN
MAX DOWNWARDS LOAD = 150 kN

* CENTRALLY LOADED

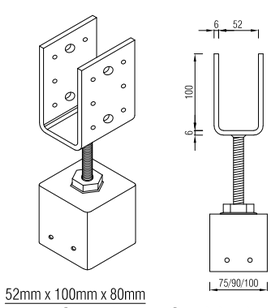


95mm x 57mm x 20mm

CONTAINER LOCK - CL

MAX UPLIFT = 36.0 kN
MAX DOWNWARDS LOAD = 150 kN

* CENTRALLY LOADED



52mm x 100mm x 80mm

VERTICAL PLATE STIRRUP

MAX UPLIFT = 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 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.

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).

DRAWING REVISIONS				REFERENCE DRAWINGS	
J	REVISED AS PER CLIENTS REQUEST	GAB	SEP2022		
I	REVISED AS PER CLIENTS REQUEST	GAB	MAR2021		
H	REVISED AS PER CLIENTS REQUEST	GAB	FEB2021		
G	REVISED AS PER CLIENTS REQUEST	RAB	OCT2020		
F	REVISED AS PER CLIENTS REQUEST	GAB	APR2019		
-	PRELIMINARY FOR CLIENTS APPROVAL	GAB	MAY2016		
REV	DESCRIPTION	BY	DATE	DRAWING NAME	TITLE

SIGNED APPROVAL		
APPROVED		19SEP2022
RPEQ	6715	
REVIEWED		
DESIGNED	RAB	SEP 2022
DRAWN	GAB	SEP 2022
SCALE	AS SHOWN	

ORIGINAL DRAWING SIZE at A3

Summermore Pty Ltd
Consulting Engineers
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ron@summermore.com.au
www.summermore.com.au
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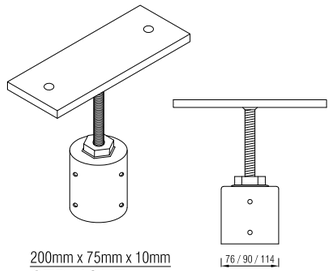
PROJECT: ADJUSTABLE POST HEADS

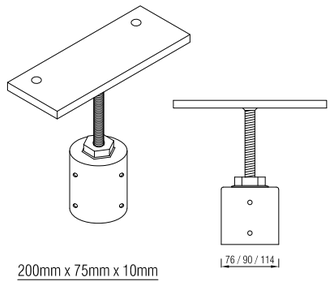
TITLE: Screw On Connectors
SHS Capacities

DRAWING NUMBER	REV
16-10897-S03	J



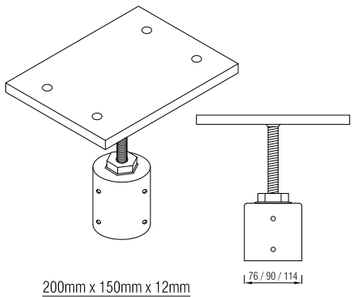
200mm x 75mm x 10mm
STRAIGHT

MAX UPLIFT = 72.0 kN
MAX DOWNWARDS LOAD = 150 kN



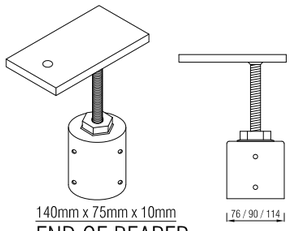
200mm x 75mm x 10mm
STRAIGHT (offset holes)

MAX UPLIFT = 72.0 kN
MAX DOWNWARDS LOAD = 150 kN



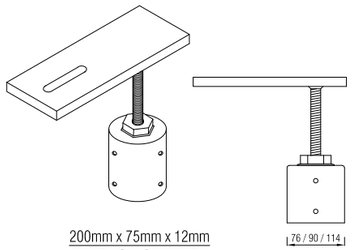
200mm x 150mm x 12mm
STRAIGHT (4 holes)

MAX UPLIFT = 72.0 kN
MAX DOWNWARDS LOAD = 150 kN



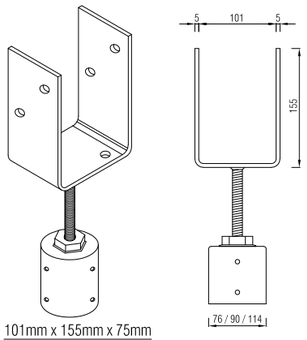
140mm x 75mm x 10mm
END OF BEARER

MAX UPLIFT = 72.0 kN
MAX DOWNWARDS LOAD = 150 kN



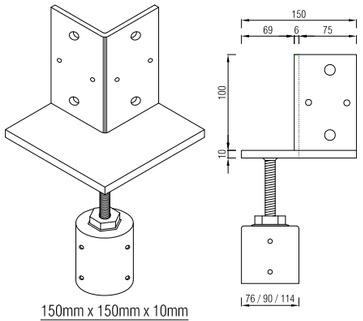
200mm x 75mm x 12mm
END SLOTTED

MAX UPLIFT = 72.0 kN
MAX DOWNWARDS LOAD = 150 kN



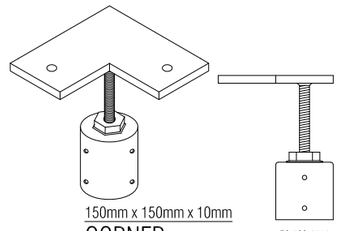
101mm x 155mm x 75mm
VERTICAL PLATE STIRRUP

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



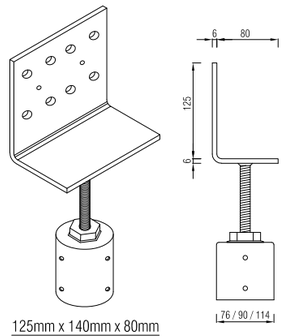
150mm x 150mm x 10mm
LARGE STRAIGHT (4 holes)

MAX UPLIFT = 72.0 kN
MAX DOWNWARDS LOAD = 150 kN



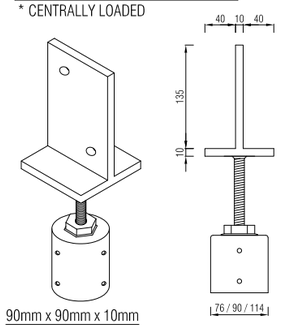
150mm x 150mm x 10mm
CORNER

MAX UPLIFT = 72.0 kN
MAX DOWNWARDS LOAD = 150 kN



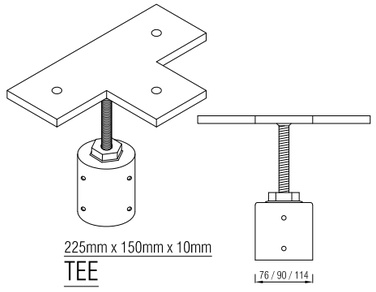
125mm x 140mm x 80mm
VERTICAL PLATE (large)

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



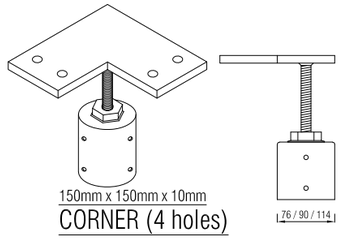
90mm x 90mm x 10mm
VERTICAL PLATE 90

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



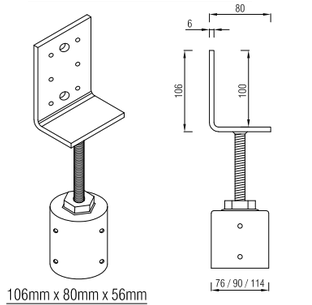
225mm x 150mm x 10mm
TEE

MAX UPLIFT = 72.0 kN
MAX DOWNWARDS LOAD = 150 kN



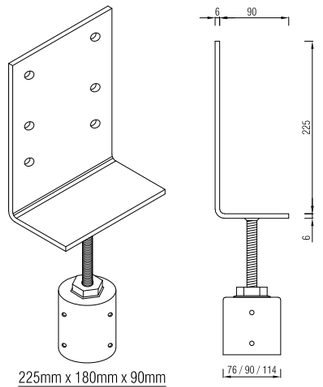
150mm x 150mm x 10mm
CORNER (4 holes)

MAX UPLIFT = 72.0 kN
MAX DOWNWARDS LOAD = 150 kN



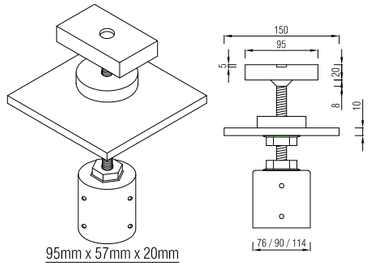
106mm x 80mm x 56mm
VERTICAL PLATE (small)

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



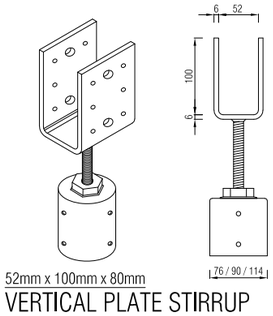
225mm x 180mm x 90mm
VERTICAL PLATE (xlarge)

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



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

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



52mm x 100mm x 80mm
VERTICAL PLATE STIRRUP

MAX UPLIFT = 72.0 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 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.

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).

DRAWING REVISIONS				REFERENCE DRAWINGS	
J	REVISED AS PER CLIENTS REQUEST	GAB	AUG2022		
I	REVISED AS PER CLIENTS REQUEST	GAB	MAR2021		
H	REVISED AS PER CLIENTS REQUEST	GAB	FEB2021		
G	REVISED AS PER CLIENTS REQUEST	RAB	OCT2020		
F	REVISED AS PER CLIENTS REQUEST	GAB	APR2019		
-	PRELIMINARY FOR CLIENTS APPROVAL	GAB	MAY2016		
REV	DESCRIPTION	BY	DATE	DRAWING NAME	TITLE

SIGNED APPROVAL		
APPROVED		19SEP2022
RPEQ	6715	
REVIEWED		
DESIGNED	RAB	AUG 2022
DRAWN	GAB	AUG 2022
SCALE	AS SHOWN	

ORIGINAL DRAWING SIZE at A3

Summermore Pty Ltd
Consulting Engineers
ACN: 108 898 433
ABN: 42 108 898 433
ron@summermore.com.au
www.summermore.com.au
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PROJECT
ADJUSTABLE POST HEADS

TITLE
Screw On Connectors
CHS Capacities

DRAWING NUMBER	REV
16-10897-S04	J

NETT WIND PRESSURE AT STUMP (kN/m)						
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

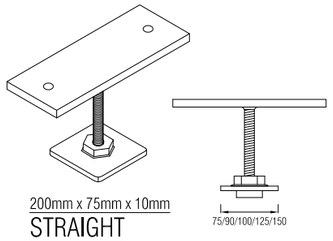
TYPICAL LOADS (kN/m²)	
DOMESTIC FLOOR	2.85
SHEET ROOF	0.78
CLAD WALLS	0.42

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

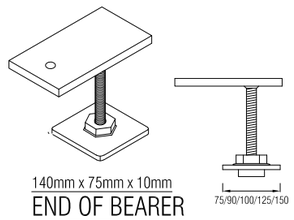
* IF NOT CENTRALLY LOADED ALL UPLIFT LOADS ARE 13.0 kN

* IF NOT CENTRALLY LOADED ALL DOWNWARDS LOADS ARE 13.0 kN

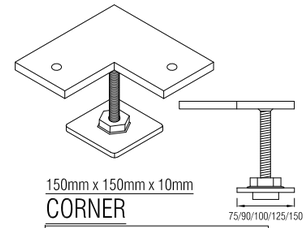
* ALL STEEL TO BE G250 (U.N.O).



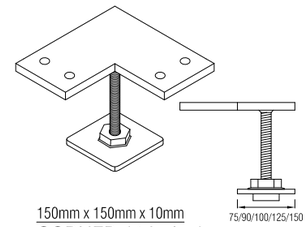
200mm x 75mm x 10mm
STRAIGHT
MAX UPLIFT = 150 kN
MAX DOWNWARDS LOAD = 150 kN



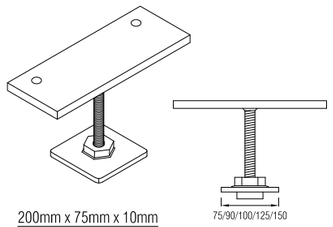
140mm x 75mm x 10mm
END OF BEARER
MAX UPLIFT = 150 kN
MAX DOWNWARDS LOAD = 150 kN



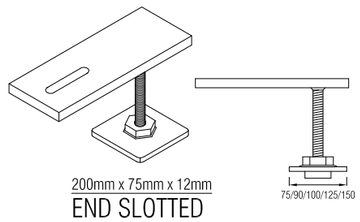
150mm x 150mm x 10mm
CORNER
MAX UPLIFT = 150 kN
MAX DOWNWARDS LOAD = 150 kN



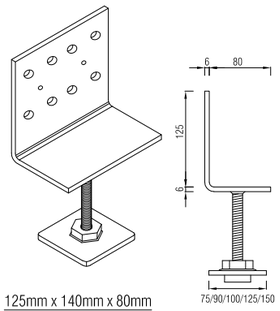
150mm x 150mm x 10mm
CORNER (4 holes)
MAX UPLIFT = 150 kN
MAX DOWNWARDS LOAD = 150 kN



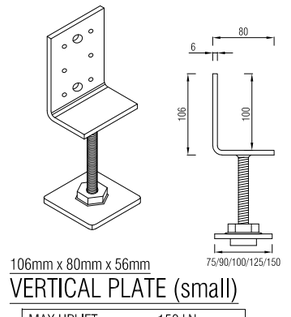
200mm x 75mm x 10mm
STRAIGHT (offset holes)
MAX UPLIFT = 150 kN
MAX DOWNWARDS LOAD = 150 kN



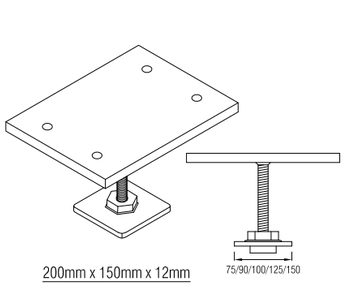
200mm x 75mm x 12mm
END SLOTTED
MAX UPLIFT = 150 kN
MAX DOWNWARDS LOAD = 150 kN



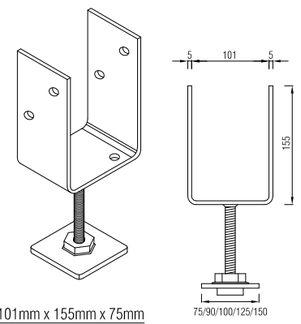
125mm x 140mm x 80mm
VERTICAL PLATE (large)
MAX UPLIFT = 150 kN
MAX DOWNWARDS LOAD = 150 kN
* CENTRALLY LOADED



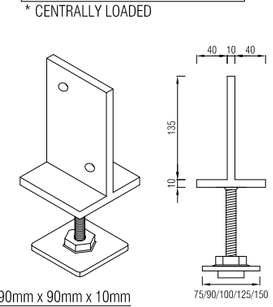
106mm x 80mm x 56mm
VERTICAL PLATE (small)
MAX UPLIFT = 150 kN
MAX DOWNWARDS LOAD = 150 kN
* CENTRALLY LOADED



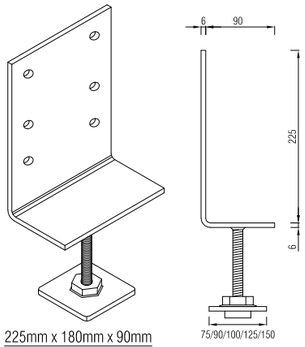
200mm x 150mm x 12mm
STRAIGHT (4 holes)
MAX UPLIFT = 150 kN
MAX DOWNWARDS LOAD = 150 kN



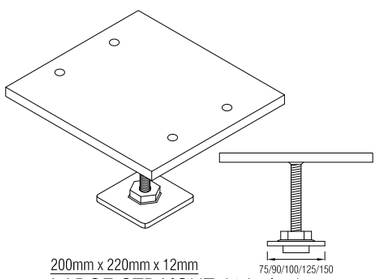
101mm x 155mm x 75mm
VERTICAL PLATE STIRRUP
MAX UPLIFT = 150 kN
MAX DOWNWARDS LOAD = 150 kN
* CENTRALLY LOADED



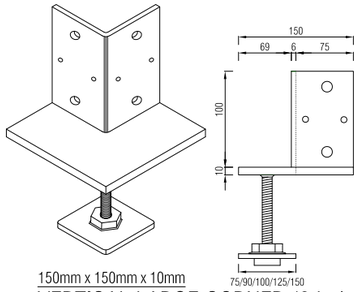
90mm x 90mm x 10mm
VERTICAL PLATE 90
MAX UPLIFT = 150 kN
MAX DOWNWARDS LOAD = 150 kN
* CENTRALLY LOADED



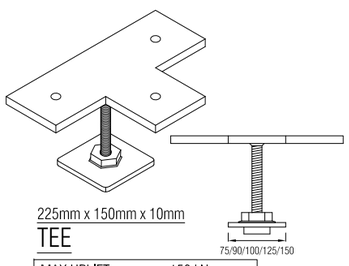
225mm x 180mm x 90mm
VERTICAL PLATE (xlarge)
MAX UPLIFT = 150 kN
MAX DOWNWARDS LOAD = 150 kN
* CENTRALLY LOADED



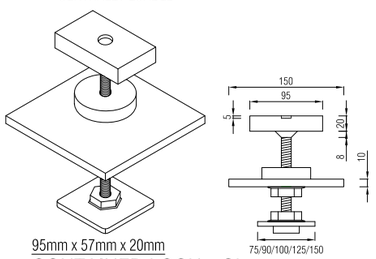
200mm x 220mm x 12mm
LARGE STRAIGHT (4 holes)
MAX UPLIFT = 150 kN
MAX DOWNWARDS LOAD = 150 kN



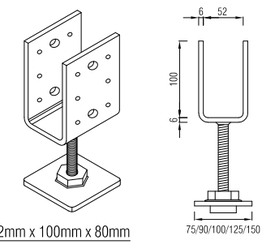
150mm x 150mm x 10mm
VERTICAL LARGE CORNER (8 holes)
MAX UPLIFT = 150 kN
MAX DOWNWARDS LOAD = 150 kN



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



95mm x 57mm x 20mm
CONTAINER LOCK - CL
MAX UPLIFT = 150 kN
MAX DOWNWARDS LOAD = 150 kN
* CENTRALLY LOADED



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

DRAWING REVISIONS				REFERENCE DRAWINGS	
J	REVISED AS PER CLIENTS REQUEST	GAB	AUG2022		
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REV	DESCRIPTION	BY	DATE	DRAWING NAME	TITLE

SIGNED APPROVAL		
APPROVED		19SEP2022
RPEQ	6715	
REVIEWED		
DESIGNED	RAB	AUG 2022
DRAWN	GAB	AUG 2022
SCALE	AS SHOWN	

ORIGINAL DRAWING SIZE at A3

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PROJECT
ADJUSTABLE POST HEADS

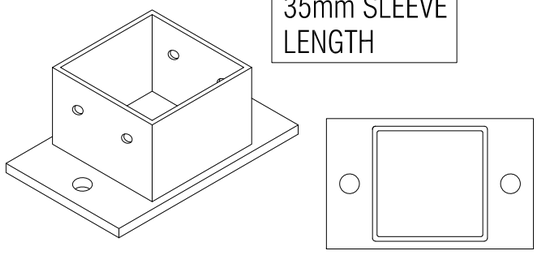
TITLE
Weld On Connectors
SHS Capacities

DRAWING NUMBER	REV
16-10897-S05	J

* 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

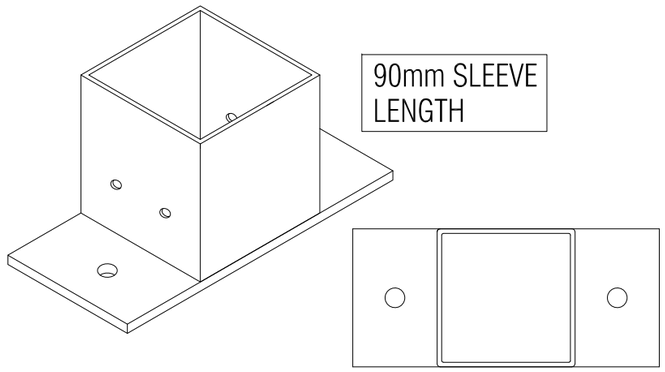
NETT WIND PRESSURE AT STUMP (kN/m²)						
WIND CLASS	N2	N3	N4	C1	C2	C3
UPWARDS	-	1.01	1.82	1.20	2.10	3.80
DOWNWARDS	0.41	0.64	1.15	0.76	1.32	2.39



SUIT 75mm & 89mm POST

CAST IN BASEPLATE TO CONCRETE

MAX UPLIFT = 36.0 kN



SUIT 75mm, 89mm & 100mm POST

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)

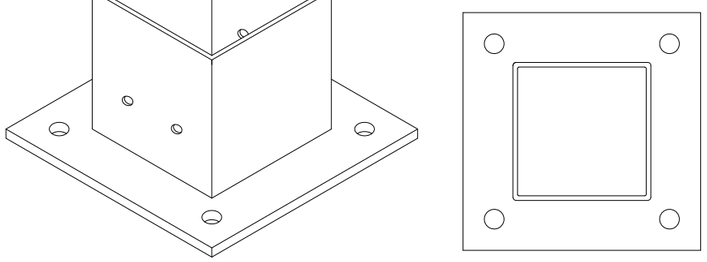
* 89SHS3.5 or 100SHS4.0 COLUMN MAXIMUM COMPRESSION LOAD EXCEEDS 150kN UP TO 4500mm HEIGHT.

* 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).



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)

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.

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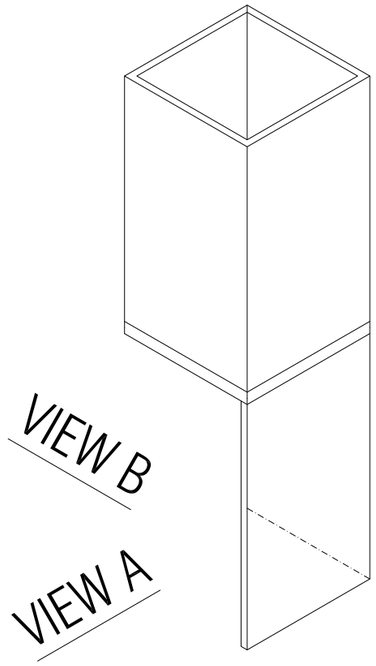
ADJUSTABLE HOUSE STUMPS

PROJECT: ADJUSTABLE POST HEADS

TITLE: Base Plates
SHS Capacities

DRAWING NUMBER	REV
16-10897-S06	J

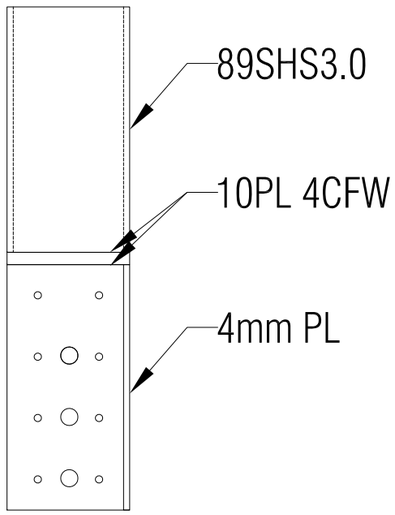


* LEVELMASTER POST HEADS MAY BE USED TO RETROFIT EXISTING COLUMNS AND ARE AVAILABLE WITH ONE SIDE REMOVED.

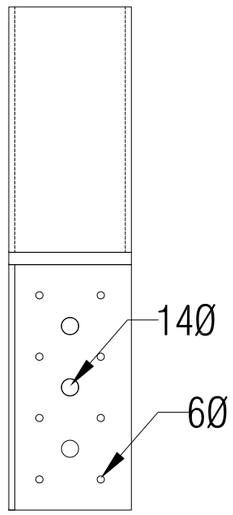
EXISTING COLUMNS & FIXINGS		
STEEL (SHS) 3.0mm THICK (min)	TIMBER	CONCRETE
9/14g TEK SCREWS	15/TYPE 17 #14 SCREWS, 35mm long.	3/M10-50 CONCRETE SCREWS (offset)

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

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



VIEW A



VIEW B

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Stronger • Easier • Faster ADJUSTABLE HOUSE STUMPS

PROJECT
RETROFIT JOINER

TITLE
Levelmaster Retrofit Joiner & Capacity Table

DRAWING NUMBER	REV
16-10897-S06A	J