GENERAL NOTES

1. LOADS ARE ASSUMED TO BE APPLIED THROUGH THE THREAD CENTRALLY.
2. THE CAPACITIES ARE FOR THE LEVELMASTER POST HEAD PRODUCT(S) ITSELF. OTHER ELEMENTS (SUCH AS FASTENERS AND TIMBER) ARE NOT COVERED.
3. THE CAPACITIES ASSUME THE EXPOSED THREAD HEIGHT <= 150MM. ALL THREADS TO BE M30 OR M42.
4. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETRES.
5. ALL WELDING IS TO BE PERFORMED IN ACCORDANCE WITH AS1554.1 WELDS ARE TO BE FULL PENETRATION.
6. ALL LOAD LIMITS DEFINED IN THE DOCUMENT ARE THEORETICAL AND ARE BASED ON THE ALLOWABLE STRESSES DEFINED IN AS3990 AS FOLLOWS:
   TENSION -0.67*MATERIAL YIELD
   COMPRESSION -0.6*MATERIAL YIELD
   SHEAR -0.4*MATERIAL YIELD
7. LATERAL LOAD FOR ADJUSTABLE TOPS IS TO BE TRANSFERRED BY STATIC FRICTION BETWEEN THE STRUCTURE AND SUPPORT BRACKET. THIS IS ACHIEVED BY EITHER DEAD LOAD, CLAMPING FORCE FROM BOLTED CONNECTION, OR SOME COMBINATION OF THE TWO, AND IS THE RESPONSIBILITY OF THE DESIGNER. NO LATERAL LOAD IS TO BE TRANSFERRED THROUGH THE FASTENERS.
8. ALL AXIAL LOADS ARE CONSIDERED TO BE APPLIED BY A SUITABLE RIGID BODY, THROUGH THE CENTRE OF THE THREADED BAR OF THE ADJUSTABLE TOP. NO ALLOWANCE FOR ECCENTRIC LOADING HAS BEEN MADE AND IS THE RESPONSIBILITY OF THE DESIGNER.

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 GRADE 8.8 M16 BOLT.
2. THE CAPACITIES ARE BASED ON THE ASSUMPTION OF BEING CENTRALLY LOADED ONLY.
3. THE CAPACITIES BELOW COVER ALL PRODUCTS SHOWN ON THE PAGE OF DRAWING (FOR DOG CLAMP).

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 ARE VALID FOR SIMPLE RESIDENTIAL STRUCTURE ONLY.
3. THE DRAWING SET IS LIMITED TO THE STRUCTURAL ASPECTS ONLY AND NO RESPONSIBILITY IS TAKEN OR ANY LOSS DAMAGE, OR FAILURE RESULTING FROM THE MANUFACTURE, QUALITY INSTABILITY, TRANSPORTATION AND STORAGE, OR METHOD OF CONSTRUCTION.

MATERIALS QUALITY NOTES*

DESIGN LIFE	50 YEARS
CONDITIONS	C1 – C4 CORROSION CATEGORY AS DEFINED IN AS4312

1. ALL STEEL LEVELMASTER MATERIALS SHOWN IN THIS DRAWING TO BE GRADE 350 AND HOT DIPPED GALVANISED WITH A MINIMUM THICKNESS OF 600g/m², EQUIVALENT TO 84μm THICKNESS.
2. ALL HOUSE STUMP SERIES PRODUCTS TO BE USED ABOVE GROUND AND NOT COVERED IN WATER. ALL HOUSE STUMP SERIES PRODUCTS TO BE ACCESSIBLE FOR PERIODIC CORROSION CHECKS AND MAINTENANCE, UNLESS CAST INTO CONCRETE.

*CERTIFICATES PROVIDED BY LEVELMASTER.

EXAMPLE PROCEDURE

THE FOLLOWING TABLES WERE DERRIVED FROM AS 1170 AT THE TIME OF GENERATING THIS DOCUMENT AND ARE FOR THE EXAMPLE PROCEDURE 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)
100SHS4.0	150
89SHS5.0	150
75SHS4.0	150

REFERENCE: TYPICAL LOADS (kN/m²)	
DOMESTIC FLOOR	2.85
SHEET ROOF	0.86
CLAD WALLS	0.42

ASSUMING LEVEL MASTER STUMP PLATE (STRAIGHT) SUPPORTING 5m² OF ROOF LOAD, 5m² OF FLOOR LOAD, 2mx2.4m HEIGHT STUD WALLS IN A N3 WIND REGION.

COMPRESSION
= 5m² x 0.86kN/m² + 5m² x 2.85kN/m² + 2m x 2.4m x 0.4kN/m²
= 20.47kN < 120kN

WIND UPLIFT = 5m² x 1.01kN/m² = 5.05kN < 30kN

LEVEL MASTER STUMP PLATE (STRAIGHT) CAN BE ADOPTED.

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

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PROJECT
(ADJUSTABLE) HOUSE STUMP COMPONENTS SERIES

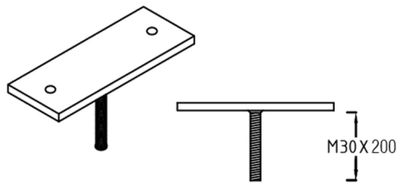
TITLE
GENERAL NOTES & REFERENCES

DRAWN	DATE
LM	JULY 2025
CHECKED	APPROVED
BS	JULY 2025
DRAWING No.	REV.
S-01	1

KEY NOTES

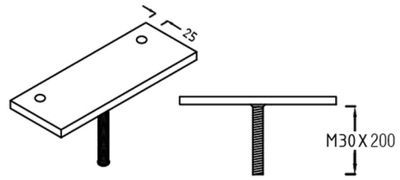
1. ALL CAPACITIES ARE ASSUMING THE ADJUSTBALE TOP IS CONNECTED INTO A SUFFICIENTLY RIGID BODY.
2. THE CAPACITIES ARE FOR THE LEVELMASTER POST HEAD PRODUCT(S) ITSELF. OTHER ELEMENTS (SUCH AS FASTENERS AND TIMBER) ARE NOT COVERED.
3. THE CAPACITIES ASSUME THE EXPOSED THREAD HEIGHT <=150MM
4. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS.
5. REFER TO THE GENERAL NOTE FOR ECCENTRICALLY LOADED CONDITIONS
6. LEVELMASTER TOPS ARE ABLE TO CONNECT WITH LEVELMASTER SCREW ON SHS CONNECTORS, SCREW ON CHS CONNECTORS, OR WELD ON CONNECTORS.
7. ALL STEEL TO BE MIN. GRADE 350 AND THE THREADS TO BE 4.6 GRADE.

ALL LEVELMASTER TOPS	
COMPRESSION CAPACITY (kN)	130
LATERAL CAPACITY 50mm EXTENSTION (kN)	30
LATERAL CAPACITY 100mm EXTENSTION (kN)	15
LATERAL CAPACITY 150mm EXTENSTION (kN)	10



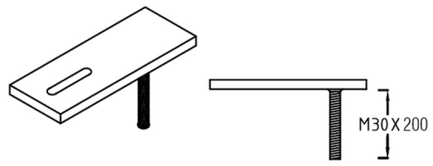
200mm x 75mm x 10mm 14mm ∅

STRAIGHT	
UPLIFT CAPACITY (kN)	14.5



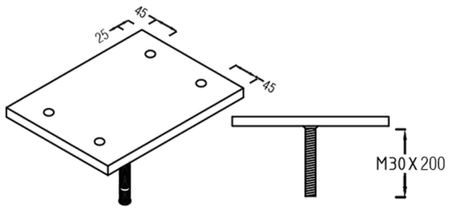
200mm x 90mm x 10mm 14mm ∅

STRAIGHT (OFFSET HOLES)	
UPLIFT CAPACITY (kN)	11



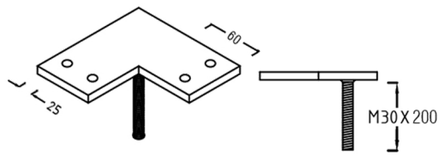
200mm x 75mm x 12mm 18mm x 40mm SLOT

END SLOTTED	
UPLIFT CAPACITY (kN)	4.9



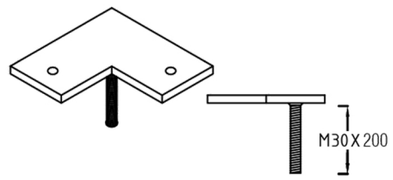
200mm x 150mm x 12mm 14mm ∅

STRAIGHT (4 HOLES)	
UPLIFT CAPACITY (kN)	31



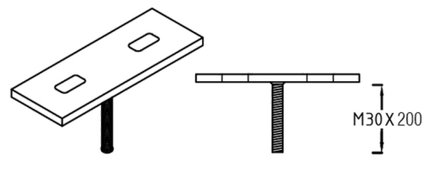
150mm x 150mm x 10mm 14mm ∅

CORNER (4 HOLES)	
UPLIFT CAPACITY (kN)	8.6



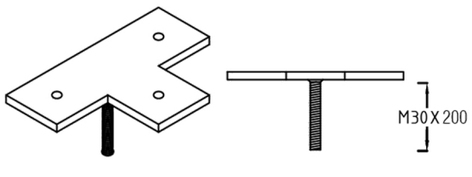
150mm x 150mm x 10mm 14mm ∅

CORNER	
UPLIFT CAPACITY (kN)	7.8



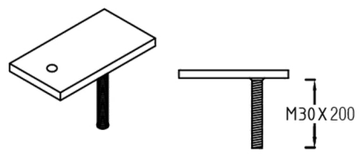
250mm x 90mm x 12mm 18mm x 40mm SLOTS

STRAIGHT SLOTTED	
UPLIFT CAPACITY (kN)	19



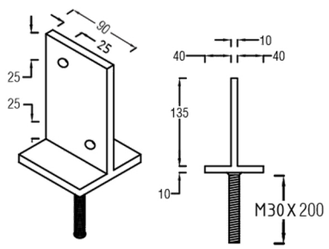
225mm x 150mm x 10mm 14mm ∅

TEE	
UPLIFT CAPACITY (kN)	21



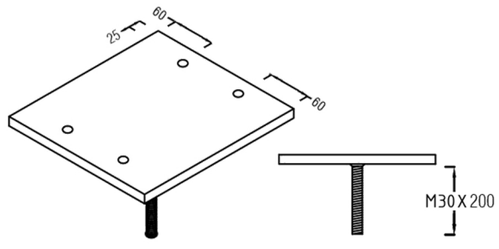
140mm x 75mm x 10mm 14mm ∅

END OF BEARER	
UPLIFT CAPACITY (kN)	6.5



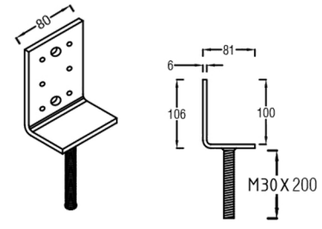
14mm ∅

VERTICAL PLATE 90	
UPLIFT CAPACITY (kN)	18.5



200mm x 220mm x 12mm 14mm ∅

LARGE STRAIGHT (4 HOLES)	
UPLIFT CAPACITY (kN)	34.5



14mm ∅ 8mm ∅

TYPE - VERTICAL PLATE (SMALL)	
UPLIFT CAPACITY (kN)	5

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

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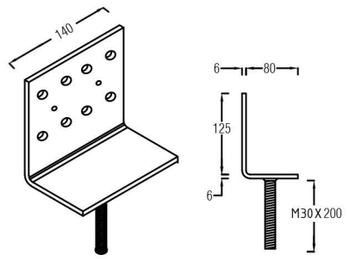
PROJECT
(ADJUSTABLE) HOUSE STUMP COMPONENTS SERIES

TITLE
ADJUSTABLE TOPS

DRAWN	DATE
LM	JULY 2025
CHECKED	APPROVED
BS	JULY 2025
DRAWING No.	REV.
S-02	1

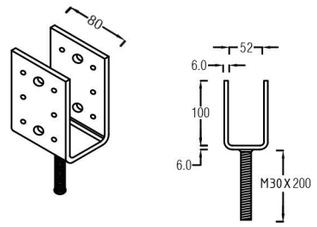
KEY NOTES

1. ALL CAPACITIES ARE ASSUMING THE ADJUSTBALE TOP IS CONNECTED INTO A SUFFICIENTLY RIGID BODY.
2. THE CAPACITIES ARE FOR THE LEVELMASTER 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. LEVELMASTER TOPS ARE ABLE TO CONNECT WITH LEVELMASTER SCREW ON SHS CONNECTORS, SCREW ON CHS CONNECTORS, OR WELD ON CONNECTORS.
7. ALL STEEL TO BE MIN. GRADE 350 AND THE THREADS TO BE 4.6 GRADE.



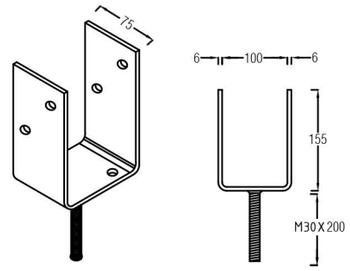
14mm ∅ 7mm ∅

VERTICAL PLATE LARGE	
UPLIFT CAPACITY (kN)	8.9



14mm ∅ 8mm ∅

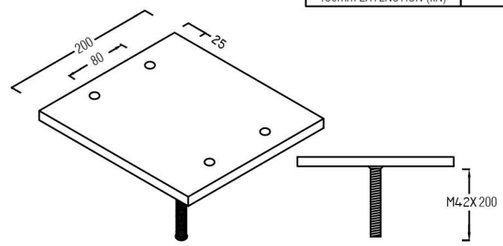
VERTICAL PLATE STIRRUP 50mm	
UPLIFT CAPACITY (kN)	22.9



14mm ∅

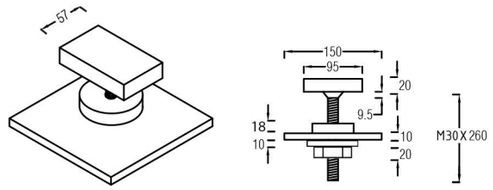
VERTICAL PLATE STIRRUP 100mm	
UPLIFT CAPACITY (kN)	15

ALL LEVELMASTER TOPS	
COMPRESSION CAPACITY (kN)	130
LATERAL CAPACITY 50mm EXTENSTION (kN)	30
LATERAL CAPACITY 100mm EXTENSTION (kN)	15
LATERAL CAPACITY 150mm EXTENSTION (kN)	10



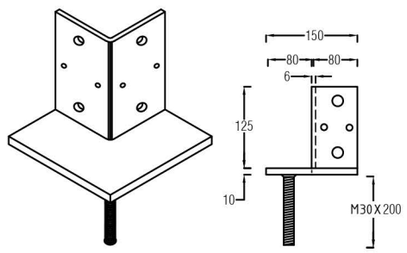
200mm x 220mm x 20mm 14mm ∅

STRAIGHT LARGE -HEAVY DUTY	
UPLIFT CAPACITY (kN)	39
COMPRESSION CAPACITY (kN)	420
LATERAL CAPACITY 50mm EXTENSTION (kN)	48
LATERAL CAPACITY 100mm EXTENSTION (kN)	36
LATERAL CAPACITY 150mm EXTENSTION (kN)	24



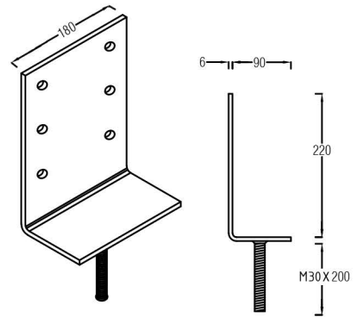
CONTAINER LOCK	
UPLIFT CAPACITY (kN)	7
COMPRESSION CAPACITY (kN)	60

Installation Notes:
1. Ensure the top plate is 90 degrees to the ISO lock slot.
2. Ensure the nut is tight so the plate cannot come loose.
3. Ensure that the nut is not overtightened - no more than 20kg force at a spanner length of 400mm (78Nm of torque)



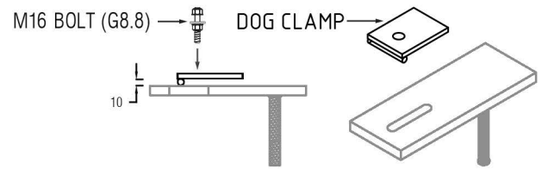
14mm ∅ 8mm ∅

VERTICAL LARGE CORNER	
UPLIFT CAPACITY (kN)	22



14mm ∅

VERTICAL PLATE (XL)	
UPLIFT CAPACITY (kN)	8.4



100mm x 75mm x 10mm 16mm ∅

DOG CLAMP			
CLAMPING CAPACITY (kN)	UPLIFT CAPACITY (kN)	COMPRESSION CAPACITY (kN)	LATERAL CAPACITY (kN)
35	4	130	N/A
*SEE NOTES ON PAGE S01			

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

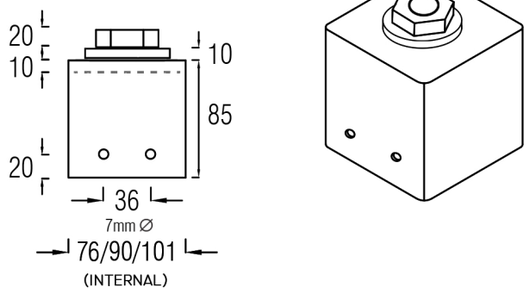
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PROJECT
(ADJUSTABLE) HOUSE STUMP COMPONENTS SERIES

TITLE
ADJUSTABLE TOPS

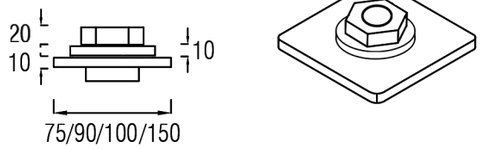
DRAWN	DATE
LM	JULY 2025
CHECKED	APPROVED
BS	JULY 2025
DRAWING No.	REV.
S-03	1



SCREW ON (SHS) CONNECTOR

SUITS 75mm / 89mm / 100mm SHS POST

PRODUCT CAPACITY			
	SO-75	SO-90	SO-100
COMPRESSION CAPACITY	110 kN	58 kN	45 kN
MAXIMUM UPLIFT CAPACITY	12 kN	12 kN	12 kN
MINIMUM DEADLOAD	44 kN	37.5 kN	33.5 kN



WELD ON (SHS) CONNECTOR

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

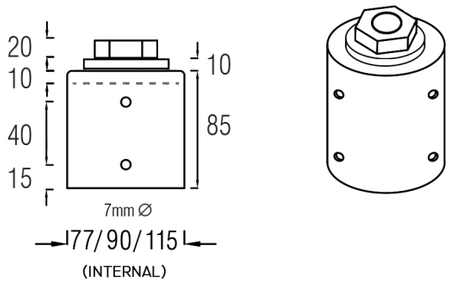
PRODUCT CAPACITY				
	WO-75	WO-90	WO-100	WO-150
COMPRESSION CAPACITY	110 kN	58 kN	45 kN	30 kN
MAXIMUM UPLIFT CAPACITY	110 kN	58 kN	45 kN	30 kN
NO DEADLOAD STABILITY REQUIREMENT FOR THE WELD ON SHS CONNECTOR				

GENERAL NOTES

1. ALL CONNECTORS SUIT ALL LEVELMASTER ADJUSTABLE TOPS WITH 30mm THREAD. (WITH THE EXCEPTION OF THE HEAVY DUTY)
2. MIN. 4 SCREW (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 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 MINIMUM GRADE 350.

LATERAL CAPACITY NOTE

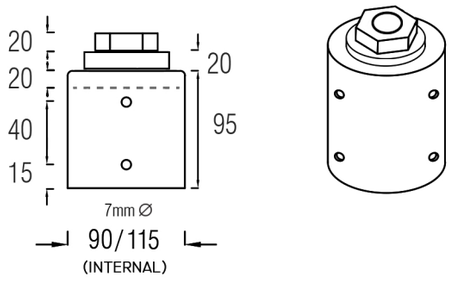
SCREW CONNECTORS LATERAL CAPACITIES ARE LIMITED BY THE STABILITY OF THE STRUCTURE. THE UNFACTORED VERTICAL DEADLOAD OF THE STRUCTURE MUST BE GREATER THAN THE MINIMUM DEADLOADS PROVIDED ENSURING THE STABILITY OF THE JOINT UNDER LATERAL LOADS (NO MOMENT RESOLVED BY TEK SCREWS)



SCREW PILE (CHS) CONNECTOR

SUITS 76mm / 90mm / 114mm CHS POST

PRODUCT CAPACITY			
	SP-76	SP-90	SP-114
COMPRESSION CAPACITY	115 kN	75 kN	45 kN
MAXIMUM UPLIFT CAPACITY	24 kN	24 kN	24 kN
MINIMUM DEADLOAD	44 kN	37 kN	29.5 kN

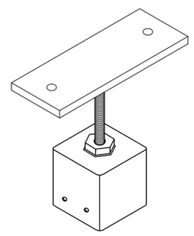


SCREW PILE (CHS) CONNECTOR HD

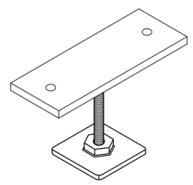
SUITS 90mm / 114mm CHS POST ONLY TO BE USED WITH THE SL-HD TOP

PRODUCT CAPACITY		
	SP-90-HD	SP-114-HD
COMPRESSION CAPACITY	115 kN	115 kN
MAXIMUM UPLIFT CAPACITY	24 kN	24 kN
MINIMUM DEADLOAD	59.5 kN	47 kN

EXAMPLES OF TOP AND CONNECTOR ASSEMBLY:



STRAIGHT TOP WITH SCREW ON (SHS) ASSEMBLY



STRAIGHT TOP WITH WELD ON ASSEMBLY

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

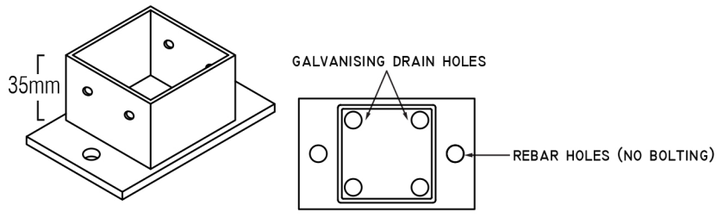
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PROJECT
(ADJUSTABLE) HOUSE STUMP COMPONENTS SERIES

TITLE
CONNECTORS

DRAWN	DATE
LM	JULY 2025
CHECKED	APPROVED
BS	JULY 2025

DRAWING No. S-04
REV. 1

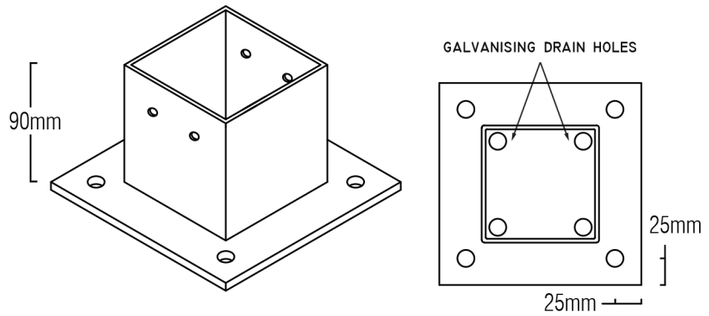


7mm∅

CAST INTO CONCRETE BASEPLATE

SUIT 75mm & 89mm SHS POST

90 x 120 x 6mm (75mm version) 3mm sleeve thickness with 76mm internal
100 x 150 x 6mm (89mm version) 3mm sleeve thickness with 90mm internal



7mm∅ 14mm∅

BOLT DOWN BASEPLATE (4 HOLES)

SUITS 75mm, 89mm & 100mm SHS POSTS

180 x 180 x 10mm (75mm version) 3mm sleeve thickness with 76mm internal
180 x 180 x 10mm (89mm version) 3mm sleeve thickness with 90mm internal
180 x 180 x 10mm (100mm version) 3mm sleeve thickness with 101mm internal

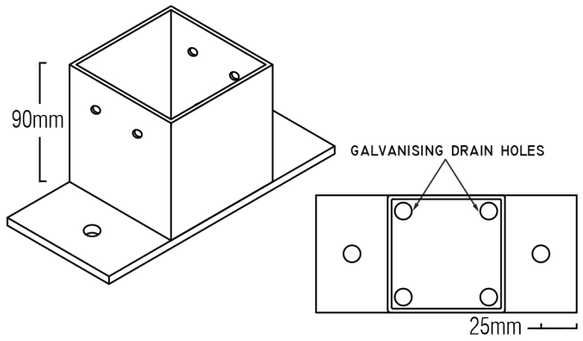
BOLT DOWN OPTIONS (4 HOLES) - 20MPa concrete (min) - 90mm edge distance (min)	
RAMSET CHEMSET '101'	4 x M12-100 CHEMSETS (1 x each corner)
WERCS ANKASCREW	4 x M12-60 WERCS ANKASCREWS (1 x each corner)

GENERAL NOTES

1. MIN. 4 SCREWS (2 EACH OPPOSITE FACE) TO BE USED FOR CAP TO COLUMN CONNECTION.
2. 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.
3. THE ASSEMBLY CAPACITY REFERS TO THE CAPACITIES OF ADJUSTABLE TOPS, OR WHICHEVER IS CRITICAL.
4. ALL WELDING IS TO BE PERFORMED IN ACCORDANCE WITH AS1554.1. WELDS ARE TO BE FULL PENETRATION.
5. THE BASE PLATE TO GROUND/FOOTING BOLT DOWN CONNECTIONS ON THIS DRAWING ARE FOR REFERENCE ONLY. PROJECT ENGINEERS TO DESIGN AND CONFIRM.
6. ALL STEEL BASEPLATES TO BE G350. (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.	



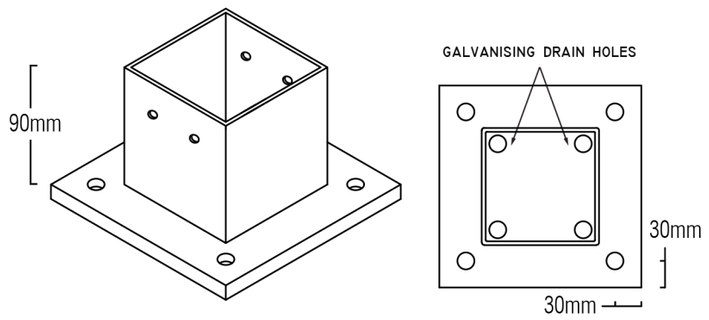
7mm∅ 14mm∅

BOLT DOWN BASEPLATE (2 HOLES)

SUITS 75mm, 89mm & 100mm SHS POSTS

200 x 80 x 8mm (75mm version) 3mm sleeve thickness with 76mm internal
200 x 100 x 8mm (89mm version) 3mm sleeve thickness with 90mm internal
200 x 110 x 8mm (100mm version) 3mm sleeve thickness with 101mm internal

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)



7mm∅ 18mm∅

BOLT DOWN BASEPLATE LARGE (4 HOLES)

SUITS 75mm, 89mm & 100mm SHS POSTS

210 x 210 x 12mm (75mm version) 3mm sleeve thickness with 76mm internal
210 x 210 x 12mm (89mm version) 3mm sleeve thickness with 90mm internal
210 x 210 x 12mm (100mm version) 3mm sleeve thickness with 101mm internal

BOLT DOWN OPTIONS (4 HOLES) - 20MPa concrete (min) - 90mm edge distance (min)	
RAMSET CHEMSET '101'	TBC
WERCS ANKASCREW	TBC

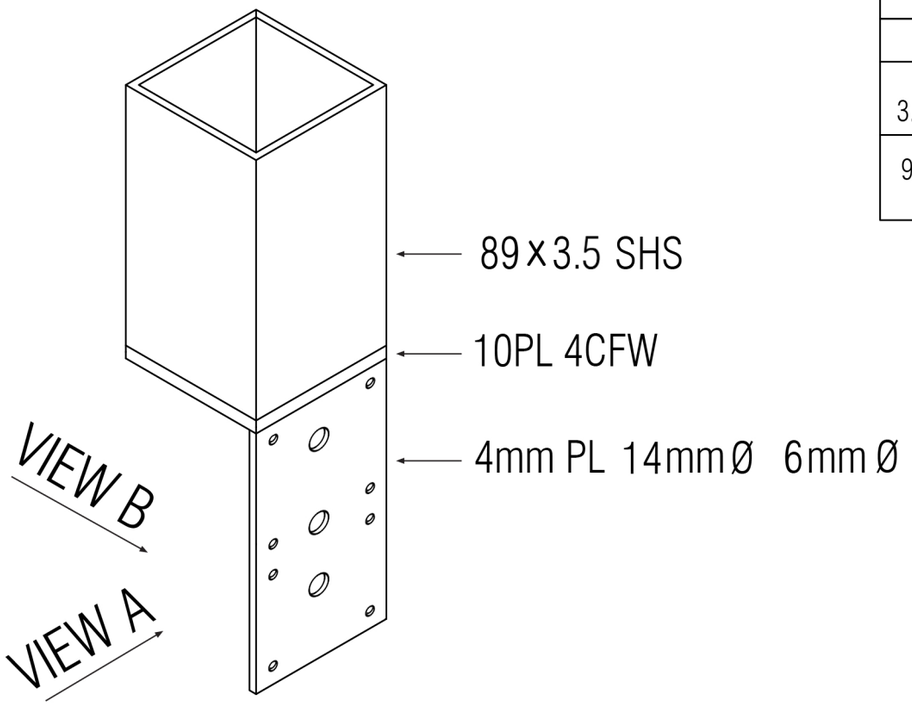
DO NOT SCALE FROM DRAWING
ALL SCALES ARE AS SHOWN (A3)

LevelMaster
Stronger. Easier. Faster. ADJUSTABLE HOUSE STUMPS
CONTACT DETAILS
WEB www.levelmaster.com.au
PHONE 1300 538 356
EMAIL OFFICE@LEVELMASTER.COM.AU

PROJECT
(ADJUSTABLE) HOUSE STUMP COMPONENTS SERIES

TITLE
BASE PLATES

DRAWN: LM	DATE: JULY 2025
CHECKED: BS	APPROVED: JULY 2025
DRAWING No.: S-05	REV.: 1

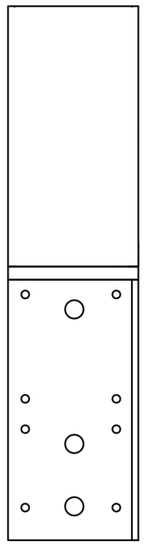


LEVELMASTER POST HEADS MAY BE USED TO RETROFIT EXISTING COLUMNS AND ARE AVAILABLE WITH ONE SIDE REMOVED.		
REFERENCE (EXISTING) COLUMNS & CONNECTIONS		
STEEL (SHS) 3.0mm THICK (min)	TIMBER	CONCRETE
9/14g TEK SCREWS	15/TYPE 17 #14 SCREWS, 35mm long.	3/M10-50 CONCRETE SCREWS

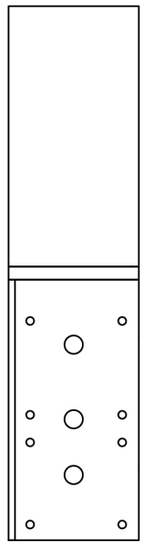
*LEVELMASTER RETROFIT BRACKET CAPACITIES (kN)	
6 / M12-100 ANCHOR SCREWS TO CONCRETE	36
8 / 14g SCREWS (22mm) TO 3mm STEEL COLUMN (min)	36
12 / 14g SCREWS (22mm) TO 3mm STEEL COLUMN (min)	42
12 / #14 TYPE 17 SCREWS (40mm) TO HWD COLUMN	36
16 / #14 TYPE 17 SCREWS (40mm) TO HWD COLUMN	42

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.



VIEW A



VIEW B

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

*ORIGINAL DATA PROVIDED BY SUMMERMORE Pty Ltd.

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PHONE 1300 538 356

PROJECT
(ADJUSTABLE) HOUSE STUMP COMPONENTS SERIES

TITLE
RETROFIT JOINER

DRAWN	DATE
LM	JULY 2025
CHECKED	APPROVED
BS	JULY 2025
DRAWING No.	REV.
S-06	1