

GSD ENGINEERS PTY. LTD.

CIVIL & STRUCTURAL ENGINEERING

GSD Engineers Pty. Ltd.

ABN 48 166 563 159

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PO Box 205, Kingston Qld 4114

ENGINEER'S DESIGN / CHECK / INTENT TO INSPECT CERTIFICATE

DATE: 01.06.2026

REF. NO: L6217

CLIENT: DECKE

SITE ADDRESS: N/A

BUILDING DESCRIPTION: RAINWATER GUTTER SUPPORT BRACKETS

THE EXTENT OF WORK COVERED BY THIS CERTIFICATE:

- All structural work for the bracket checked by GSD Engineers Pty Ltd on drawings No. L6217 Page 01.
- Brackets are suitable for design water depths up to 300mm with maximum 1000mm wide gutters. Further requirements are specified in the table and drawings No. L6217 Page 01. To protect the brackets strength and structural conditions against corrossions, the clients / owners shall provide regular inspections and maintenance work for gutters and drainage system to prevent block-up and gutter overflow under heavy rain events.

REFERENCE DOCUMENT:

- Structural drawings: No. L6217 Page 01 by GSD Engineers Pty Ltd
- Brochure for rainwater gutter support brackets is designed by United International.

I hereby certify that all the structural work covered by this certificate would comply with the requirements of the Building Code of Australia and the current Australian Standards, in particular:

- AS 1170.0 Structural design actions - General principles
- AS 1170.1 Permanent, Imposed and Other Actions
- AS 1170.2 Structural Design Actions - Wind Actions
- AS 2179.1 Specifications for Rainwater Goods Accessories and Fasteners - Metal Shape
- AS 3500.3 Plumbing and Drainage - Stormwater Drainage
- AS 4600 Cold Formed Steel Structures

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I hereby certify the structural adequacy of the designed structural members subject to structural engineer inspections during construction with site instructions to be issued by a chartered engineer.

Signed: 

Steve Duong Nguyen

Chartered Professional Engineer

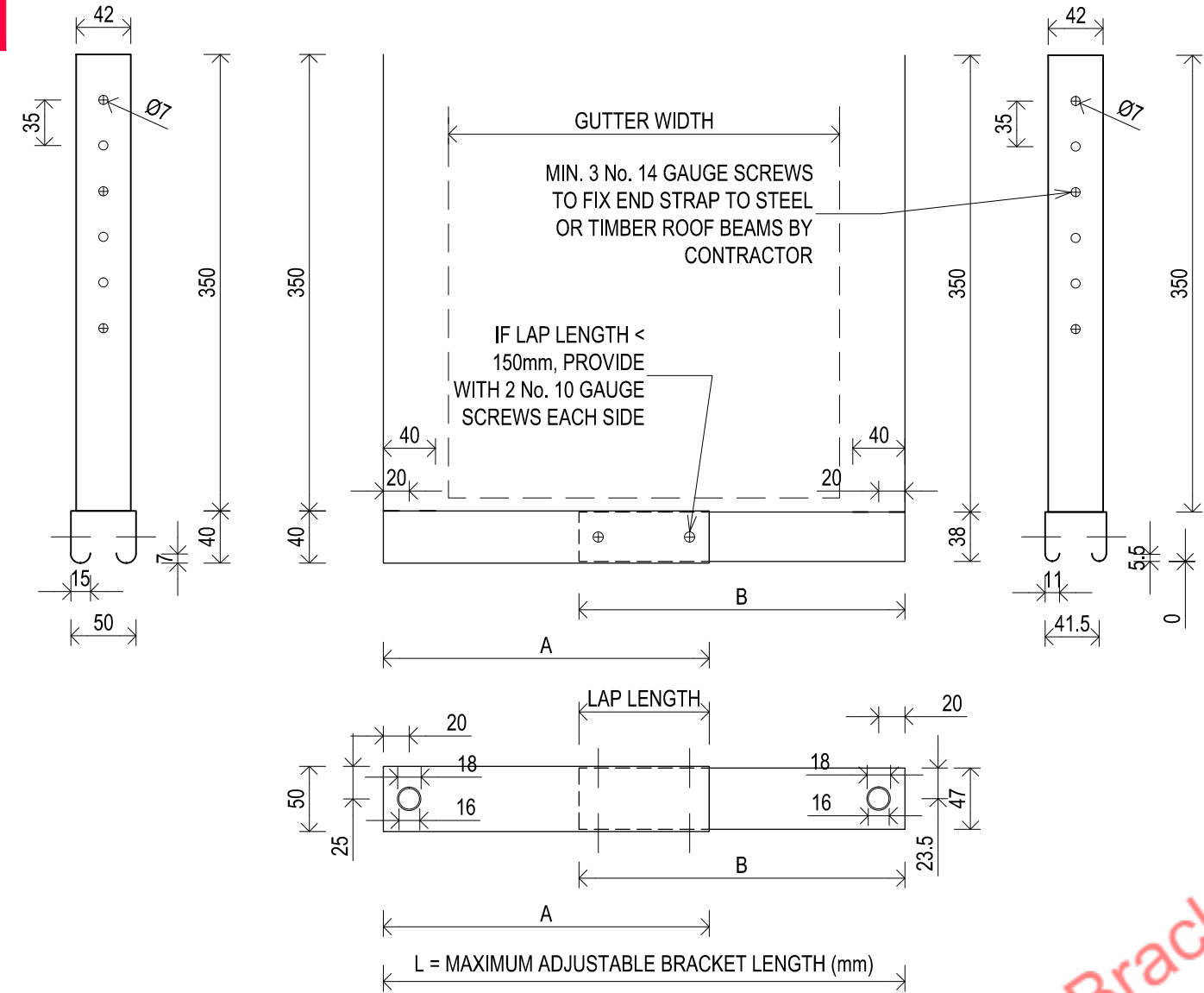
National Registered NPER 3653285

NSW Registered PRE0001748

Queensland Registered RPEQ 14370

Victoria Registered PE0002518

For and behalf of GSD Engineers Pty Ltd



TYPE 01 - ADJUSTABLE BRACKET DETAIL, 1:5

NOTE:

- MINIMUM LAP LENGTH SHALL BE 30% BRACKET LENGTH.
- ALL SCREWS AND STEEL WORK SHALL BE GALVANIZED OR EQUIVALENT.

Bracket Size	Length A (mm)	Length B (mm)	Zincalume Steel	
			Min. Thickness (mm)	Min. Yield Strength (Mpa)
1	250	250	0.8	350
2	400	400	0.8	350
3	650	650	0.8	350

Maximum Gutter Size Width(mm) x Depth (mm)	Bracket Spacing (mm)	Screws Fixed at Each End Strap	Lap Length = Min. 30% Bracket Length	Screws Fixed at Over Lap (if Lap length is less than 150mm)	People Load (*)
450x300	1000	3 No. 14 Gauge	200		N/A
600x300	900	3 No. 14 Gauge	200		N/A
1000x100	750	3 No. 14 Gauge	300		N/A

(*) Note:

- Brackets are designed for NON TRAFFICABLE roof areas with maximum concentrated load of 1.1kN (110kg) to AS2179.1. For trafficable roof areas, the contractor shall contact the engineer for further check and advice.
- The brackets and screw fixing are safe to support the load from one person during installation or maintenance.
- If two people walking on the gutter, the brackets shall be installed at 450mm maximum spacing.
- Screws can be loosened and steel and timber work can be rusted or rotten so people shall not stand on brackets and gutter without temporary supports and props. If in doubt, contact the engineer immediately.
- Lap length shall be at least 30% of the bracket length. If lap length is less than 150mm, provide 4 No. 10 gauge screws.
- All screws and steel worked shall be galvanized.

Client: DECKE	Client Address:	Client Ph: +61 3 8400 3051	Client Fax:	GSD ENGINEERS PTY. LTD. Civil • Structural • Geotechnical Engineers PO Box 205, Kingston, Qld 4114 Mob: 0497 839 711 Email: steve@gsdengineers.com.au	Contact: Steve M. N.	Drawn by:	Date:	Comment:	Revision:	Project: RAINWATER GUTTER SUPPORT BRACKETS	Scale: 1:100
					Site Address: N/A	Checked by: A.M. / S.N.	01.06.2024	FOR CONSTRUCTION	A	Title: TYPE 1 BRACKET DETAILS	Amend: A
						NPER, RPEQ 14370					Page No: 01
						Approved by: S.N.M.					A3
Drawing File Name: C:\2023 GSD Engineers\Rainwater Gutter Support Bracket - L6217\L6217 - PlanC.dwg	NPER, RPEQ 14370	Copy Right: All Rights Reserved by GSD Engineers Pty. Ltd.			Drawing No: L6217						