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PRODUCT TECHNICAL INFORMATION & ENGINEERING DATA

For Integration into Site-Specific RPEQ Designs

Prepared By: Ezzy Fit Pty Ltd

Engineering Verification: XStructE Consulting

Date: 26 November 2025

Reference: EZZYFIT-FRP-SYSTEM-2025

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1.0 PURPOSE AND STATUS

This document provides product information, engineering data, and structural performance parameters for the Ezzy Fit FRP Composite Sleeper and FRP Composite Post Retaining Wall System. It is intended to assist Registered Professional Engineers of Queensland with site-specific design and certification.

1.1 Important Notice

This document is not a certified design, Form 15, Form 12, or site-specific certification. It serves as supporting information only. The site-appointed Registered Professional Engineer of Queensland must undertake all necessary site-specific assessments, confirm system suitability for the intended application, and take sole responsibility for issuing Form 15 or other required certification.



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1.2 Document Control

Version	Date	Status	Author
3.1	9 March 2026	Final - All Queries Addressed	Ezzy Fit

2.0 ENGINEERING STANDARDS

Engineering assessments for the Ezzy Fit FRP composite sleepers and FRP posts have been completed in accordance with the following Australian Standards:

Standard	Description
AS 1170.0	Structural Design Actions: General Principles
AS 1170.1	Permanent, Imposed and Other Actions
AS 1170.2	Wind Actions
AS 1170.4	Earthquake Actions
AS 4678	Earth-Retaining Structures
AS 2870	Residential Slabs and Footings

All design decisions, compliance assessments, and certifications including Form 15 remain the responsibility of the site-appointed RPEQ engineer as part of their independent professional assessment.



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3.0 PRODUCT SPECIFICATIONS

3.1 Composite Sleepers

Parameter	Specification
Available Lengths	1.6 m, 2.0 m, 2.4 m
Section Dimensions	60 mm thick x 200 mm high
Wall Thickness	2.5 mm hollow section
Material	FRP Composite
Finish Options	Charcoal, Timber grain
Installation Requirement	Forward lean 40 mm per 1 m of wall height (1:40)
Maximum Vertical Live Load	5 kPa
Interlocking	Sleepers interlock fully - no gaps between units

3.2 FRP Composite Posts



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Post Section	Shape	Wall Thickness	Maximum Wall Height
100x100x6	H (I-section)	6 mm	Up to 1.0 m
100x100x6	U (C-section)	6 mm	Up to 1.0 m
100x100x10	H (I-section)	10 mm	Up to 2.0 m
100x100x10	U (C-section)	10 mm	Up to 2.0 m

3.3 Steel Posts

For walls exceeding 2.0 m in height, steel posts must be used. Suitable steel post sections include:

- 100x100x4 mm SHS minimum for walls up to 3.0 m
- 150x150x5 mm SHS minimum for walls up to 5.0 m
- Other steel sections as designed by RPEQ

3.4 Important Notes

Posts are I-sections (H) and C-sections (U). References to square tube in earlier documentation were incorrect.

The correct batter is 1:40 (40 mm per metre). References to 1:10 in previous certificates are typographical errors.

Unlike timber or concrete sleepers, Ezzy Fit FRP sleepers interlock fully with no gaps. This creates a continuous barrier and requires specific drainage design as outlined in Section 7.0.

Critical Wall Height Limitations:

- FRP posts are suitable for walls up to 2.0 m height only
- Walls above 2.0 m require steel posts



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- Ezzy Fit FRP sleepers can be used with steel posts for walls up to 5.0 m height

4.0 DESIGN EXAMPLE

This section presents a structural loading example to assist engineers reviewing the Ezzy Fit FRP retaining wall system.

4.1 Example Configuration

Component	Specification
Wall Height	2.0 m
Sleeper Span	2.0 m
Sleeper Type	Ezzy Fit composite sleeper
Post Type	Ezzy Fit FRP post 100x100x10 mm
Post Embedment	2.0 m (equal to wall height)
Post Spacing	2.0 m centres

4.2 Assumed Soil Properties (Example Only)



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Parameter	Value
Soil Unit Weight	18 kN/m ³
Active Earth Pressure Coefficient Ka	0.33
Wall Height H	2.0 m

4.3 Calculations

Calculation	Result
Total Active Thrust	11.9 kN/m
Load per Post at 2.0 m spacing	23.8 kN
Equivalent Lateral Force	Approx 2.4 tonnes
Bending Moment at Post Base	23.8 kN·m
Recommended Batter	1:40 (40 mm per metre)

4.4 Important Note

This example is illustrative only and demonstrates post design methodology. It does not represent a certified design for the sleepers at this spacing. Section 6.4 provides detailed analysis of sleeper capacity.



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5.0 CERTIFIED PERFORMANCE PARAMETERS

5.1 FRP Post Certified Parameters

Post Section	Max Wall Height	Max Post Spacing	Max Surcharge	Hole Diameter	Embedment
100x100x6 H and U	up to 1.0 m	2.0 m	5 kPa	300 mm	= wall height
100x100x6 H and U	up to 1.0 m	2.4 m	3 kPa	300 mm	= wall height
100x100x10 H and U	up to 1.0 m	2.4 m	5 kPa	300 mm	= wall height
100x100x10 H and U	1.0 to 2.0 m	1.6 m	5 kPa	350-450 mm	= wall height
100x100x10 H and U	1.0 to 2.0 m	2.0 m	3 kPa	350-450 mm	= wall height

5.2 Quick Reference Spacing Guide

Wall Height	Post Type	Max Spacing (5 kPa)	Max Spacing (3 kPa)
Up to 1.0 m	FRP 100x100x6	2.0 m	2.4 m
Up to 1.0 m	FRP 100x100x10	2.4 m	2.4 m



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Wall Height	Post Type	Max Spacing (5 kPa)	Max Spacing (3 kPa)
1.0 m to 2.0 m	FRP 100x100x10	1.6 m	2.0 m
2.0 m to 3.0 m	Steel Posts	2.0 m	2.0 m
3.0 m to 5.0 m	Steel Posts	1.6 m	1.6 m

5.3 Simplified Summary

If your wall is...	And you are using...	Then maximum post spacing is...
Up to 1.0 m high	FRP 100x100x6 posts	2.0 m (5 kPa) or 2.4 m (3 kPa)
Up to 1.0 m high	FRP 100x100x10 posts	2.4 m
1.0 m to 2.0 m high	FRP 100x100x10 posts	1.6 m (5 kPa) or 2.0 m (3 kPa)
2.0 m to 3.0 m high	Steel posts	2.0 m (using 2.0 m sleepers)
3.0 m to 5.0 m high	Steel posts	1.6 m (using 1.6 m sleepers)

5.4 Notes

Surcharge refers to live load applied to retained soil surface. Embedment depth shown is minimum; deeper embedment may be required for poor soils. Gravel backfill is mandatory. All walls require 1:40 batter toward retained soil.

FRP posts are only certified for walls up to 2.0 m height. Walls exceeding 2.0 m require steel posts.



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6.0 ENGINEERING DATA PACKAGE

6.1 Composite Sleeper Properties

Property	Value	Notes
Sleeper Section	200 mm x 60 mm	Hollow, 2.5 mm wall
Elastic Modulus E	20 GPa	From testing
I _{xx} (major axis)	$4.0 \times 10^6 \text{ mm}^4$	In-plane bending
Z _{xx} (major axis)	$4.0 \times 10^4 \text{ mm}^3$	In-plane bending
I _{yy} (minor axis)	$1.08 \times 10^6 \text{ mm}^4$	Out-of-plane bending
Z _{yy} (minor axis)	$3.6 \times 10^4 \text{ mm}^3$	Out-of-plane bending
Creep Factor	2.0	Apply for long-term loads
Interlocking	Full, no gaps	Critical for drainage

6.2 Sleeper Load Performance



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Parameter	Value
Sleeper Span	2.0 m
Applied Load	480 kg (4.7 kN)
Equivalent UDL	2.35 kN/m
Observed Deflection	10 to 15 mm

Testing showed deflection between 10 mm and 15 mm. The lower figure represents ideal controlled conditions. The upper figure reflects site conditions with variable support and installation tolerances. These are instantaneous deflections and do not include the creep factor of 2.0.

Serviceability Limit: $L/180 = 2000/180 = 11.1$ mm.

6.3 Sleeper Load Capacities

Working Load Capacities (Serviceability)

Sleeper Span	Working Line Load	Creep Factor Included
1.6 m	2.3 kN/m	Yes
2.0 m	1.8 kN/m	Yes
2.4 m	1.5 kN/m	Yes

Correction Note: Earlier certificates incorrectly showed these values in kPa. The correct unit is kN/m (line load).



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Ultimate Load Capacities (Strength Limit State)

Sleeper Span	Ultimate Line Load	Factor
1.6 m	4.0 kN/m	1.74 x working
2.0 m	3.15 kN/m	1.75 x working
2.4 m	2.6 kN/m	1.73 x working

6.4 FRP Material Strengths

Property	Value	Application
Tensile Strength	150 MPa	Tension zones
Compressive Strength	120 MPa	Compression zones
Flexural Strength	180 MPa	Bending capacity
Elastic Modulus E	20 GPa	Deflection
Shear Strength	25 MPa	Shear checks

6.5 Post Section Properties



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Post Section	Shape	Ixx (mm ⁴)	Zxx (mm ³)	Area (mm ²)
100x100x6	H (I)	2.4 x 10 ⁶	4.8 x 10 ⁴	2250
100x100x6	U (C)	1.9 x 10 ⁶	3.8 x 10 ⁴	2100
100x100x10	H (I)	4.0 x 10 ⁶	8.0 x 10 ⁴	3600
100x100x10	U (C)	3.2 x 10 ⁶	6.4 x 10 ⁴	3400

6.6 Design Capacity Method

Capacity	Formula
Moment Capacity	$M = \phi \times f_f \times Z_{xx}$
Shear Capacity	$V = \phi \times \tau \times A_{web}$
Deflection	$\delta = (P \times L^3) / (3 \times E \times I)$

7.0 DRAINAGE REQUIREMENTS

7.1 Critical Design Consideration

Timber and concrete sleepers typically have gaps between units allowing water to escape and relieve hydrostatic pressure. Ezzy Fit FRP sleepers interlock fully, creating a continuous barrier. This provides structural advantages but requires specific drainage design to prevent pressure buildup.



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Aspect	Timber/Concrete	Ezzy Fit FRP
Gaps between sleepers	Yes - water escapes	No - fully interlocked
Hydrostatic pressure	Partially relieved	Fully trapped without drainage
Drainage requirement	Standard	Enhanced

7.2 Mandatory Drainage Requirements

Requirement	Specification
Primary Drainage - All Walls	Free-draining gravel (20 mm) full height behind wall
Primary Drainage Height	Gravel to minimum second-top sleeper
Base Drainage	100 mm minimum aggregate pipe at base
Geofabric	Wrap behind gravel to prevent soil migration
Secondary Drainage - Walls Over 1.6 m	Secondary aggregate drainage line at second-top sleeper level

For walls at or over 1.6 m high, hydrostatic pressure at the upper portion becomes significant. Because Ezzy Fit sleepers have no gaps, this pressure cannot escape naturally. The secondary drainage line at second-top sleeper provides pressure relief and reduces design loads on upper sleepers.

Refer to Ezzy Fit Installation Guide for drainage diagrams.



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8.0 DESIGN RESPONSIBILITIES

8.1 RPEQ Responsibilities

The site-appointed RPEQ engineer bears sole responsibility for:

Item	Responsibility
Soil classification, bearing capacity, stability	RPEQ
Surcharge loads and lateral earth pressures	RPEQ
Drainage and groundwater conditions	RPEQ
Hydrostatic pressure potential	RPEQ
Wind, seismic and environmental loads	RPEQ
Post embedment depth verification	RPEQ
Installation compliance	RPEQ
Secondary drainage for walls over 1.6 m	RPEQ
Selecting correct post type based on wall height	RPEQ
Form 15 certification	RPEQ



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8.2 Statement

Ezzy Fit provides this data in good faith based on engineering analysis by XStructE Consulting. Final suitability must be determined by the site-appointed RPEQ.

9.0 LIABILITY LIMITATIONS

1. This document provides product data only and is not a substitute for professional engineering design.
 2. Suitability and safety depend on correct site assessment by a qualified engineer and strict adherence to specifications.
 3. Ezzy Fit Pty Ltd disclaims liability for any loss, damage or failure arising from:
 - Site assessment, design or certification by others
 - Installation errors or non-compliance
 - Use outside stated scope
 - Failure to provide adequate drainage including secondary drainage for walls over 1.6 m
 - Site conditions not considered by the RPEQ
 - Hydrostatic pressure buildup due to inadequate drainage
 - Use of FRP posts for walls exceeding 2.0 m height
 - Incorrect post spacing selection
 4. Sole remedy is replacement of products proven defective, up to the product's supplied value.
 5. No liability for consequential damages or installation costs.
-

10.0 RPEQ SIGN-OFF

By signing, the undersigned RPEQ confirms:



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1. Receipt and review of this Ezzy Fit Product Technical Information document (Ref: EZZYFIT-FRP-SYSTEM-2025).
2. Understanding that it provides product data only and is not a certified design or Form 15.
3. Understanding that Ezzy Fit FRP sleepers interlock fully with no gaps, requiring specific drainage design unlike timber or concrete sleepers.
4. Understanding that FRP posts are only certified for walls up to 2.0 m height and that walls above 2.0 m require steel posts.
5. Understanding the correct post spacing requirements as outlined in Section 5.0.
6. Acceptance of full professional responsibility for site-specific assessments, verifying system suitability, designing adequate drainage, issuing final certified design including Form 15, and ensuring installation complies with design.

RPEQ Engineer Name

RPEQ Number

Signature

Date

Stamp/Seal

APPENDIX A: ENGINEER Q&A SUMMARY



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Question	Answer
Sleeper minor axis properties?	$I_{yy} = 1.08 \times 10^6 \text{ mm}^4$, $Z_{yy} = 3.6 \times 10^4 \text{ mm}^3$
Reason for 10-15 mm deflection range?	10 mm ideal, 15 mm site variance. Instantaneous only.
Does deflection include creep factor?	No. Apply creep factor 2.0 separately.
Working loads confirmed?	Yes: 1.6 m = 2.3 kN/m, 2.0 m = 1.8 kN/m, 2.4 m = 1.5 kN/m
Ultimate load capacities?	Yes: 1.6 m = 4.0 kN/m, 2.0 m = 3.15 kN/m, 2.4 m = 2.6 kN/m
Are posts I and C sections?	Yes - not square tubes
100x100x10 I values correct?	Yes: $I_{xx} = 4.0 \times 10^6$, $Z_{xx} = 8.0 \times 10^4$
6 mm post properties?	Yes: $I_{xx} = 2.4 \times 10^6$, $Z_{xx} = 4.8 \times 10^4$
Lean 1:10 or 1:40?	1:40 correct (40 mm per metre). 1:10 is typo.
kPa vs kN/m typo?	Corrected - all values now show kN/m
Drainage for interlocking sleepers?	Secondary drainage required for walls over 1.6 m



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Question	Answer
Maximum height for FRP posts?	2.0 m maximum
Spacing for 1.5 m wall at 5 kPa?	1.6 m with FRP 100x100x10 posts
Spacing for 2.5 m wall?	Steel posts at 2.0 m max
Spacing for 4.0 m wall?	Steel posts at 1.6 m max

APPENDIX B: CERTIFICATION BASIS

Standards Referenced

AS 1170.0-2002 (R2016) - Structural Design Actions
AS 1170.1-2002 (R2016) - Permanent Actions
AS 1170.2-2002 - Wind Actions
AS 1170.4-2007 - Earthquake Actions
AS 4678-2002 - Earth Retaining Structures
AS 2870-2011 - Residential Slabs and Footings

Reference Documents

Ezzy Fit Sleeper Drawings (latest)
Ezzy Fit Post Drawings (latest)
XStructE Engineering Analysis Report 2025-11
Ezzy Fit Installation Guide (latest)

Superseded Certificates

This certificate supersedes versions issued on 15 November 2023, 1 December 2023, and 22 January 2024.

Structure Classification



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Item	Classification
Structure Type	FRP composite sleeper retaining wall
BCA Class	Class 10b (non-habitable)
Sleeper Lengths	1.6 m, 2.0 m, 2.4 m
Sleeper Section	60 mm x 200 mm hollow
Wall Thickness	2.5 mm
Vertical Live Load	5 kPa max
Interlocking	Full - no gaps
FRP Post Max Height	2.0 m

APPENDIX C: WORKED EXAMPLES

Example 1: 0.9 m Wall with 5 kPa Surcharge

Parameter	Value
Wall Height	0.9 m



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Parameter	Value
Post Section	100x100x6 H
Post Spacing	2.0 m
Base Pressure	7.0 kPa
Line Load on Sleeper	1.4 kN/m
Sleeper Capacity	1.8 kN/m
Verdict	Adequate
Drainage	Standard only

Example 2: 1.5 m Wall with 5 kPa Surcharge

Parameter	Value
Wall Height	1.5 m
Post Section	100x100x10 H
Post Spacing	1.6 m



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Parameter	Value
Base Pressure	10.56 kPa
Line Load on Sleeper	2.11 kN/m
Sleeper Capacity	2.3 kN/m
Verdict	Adequate
Drainage	Standard only (under 1.6 m)

Example 3: 1.8 m Wall with 5 kPa Surcharge

Parameter	Value
Wall Height	1.8 m
Post Section	100x100x10 H
Post Spacing	1.6 m
Base Pressure	12.34 kPa
Line Load on Sleeper	2.47 kN/m



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Parameter	Value
Sleeper Capacity	2.3 kN/m
Verdict	Inadequate - redesign required
Drainage	Secondary drainage mandatory

Example 4: 2.5 m Wall

Parameter	Value
Wall Height	2.5 m
Post Type	Steel posts required
Sleeper Length	2.0 m
Max Spacing	2.0 m
Drainage	Secondary drainage mandatory

Example 5: 4.0 m Wall



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Parameter	Value
Wall Height	4.0 m
Post Type	Steel posts required
Sleeper Length	1.6 m
Max Spacing	1.6 m
Drainage	Secondary drainage mandatory

APPENDIX D: INSTALLATION CHECKLIST

Item	Requirement	Check
Pre-Installation		
1	RPEQ design completed and approved	☐
2	Form 15 obtained if required	☐
3	Site soil classification verified	☐



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Item	Requirement	Check
4	Wall height confirmed	☐
5	If wall > 2.0 m: steel posts specified	☐
6	If wall > 1.6 m: secondary drainage specified	☐
7	Post spacing confirmed per Section 5.0	☐
Excavation		
8	Post holes diameter as per table	☐
9	Post holes depth = wall height	☐
10	Hole bottoms clean, dry	☐
Posts		
11	Correct post type installed	☐
12	Posts installed with 1:40 batter	☐



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Item	Requirement	Check
13	Posts plumb and aligned	☐
14	Post spacing as per design	☐
Sleepers		
15	Correct sleeper length used	☐
16	Sleepers fit securely	☐
17	Sleepers level and aligned	☐
18	Full interlock confirmed - no gaps	☐
Drainage - All Walls		
19	Geofabric installed	☐
20	Primary drainage pipe at base	☐
21	Gravel to second-top sleeper	☐



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Item	Requirement	Check
Drainage - Walls Over 1.6 m		
22	Secondary drainage at second-top sleeper	☐
23	Secondary drain connected	☐
24	Secondary drain wrapped	☐
Completion		
25	Backfill compacted	☐
26	Final inspection completed	☐
27	Certification documents issued	☐

DOCUMENT CONTROL

Version	Date	Description	Author
1.0	22 Jan 2024	Original certificate	XStructE



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Version	Date	Description	Author
2.0	26 Nov 2025	Updated engineering data	XStructE
3.1	9 Mar 2026	Drainage and spacing clarifications	Ezzy Fit