

25 August 2021

DESIGN CERTIFICATE

To: David Moore, VHPA**From:** Darcy Richardson, Cerecon**Date:** 25th August 2021**RE:** VHPA - Access Stile

As requested, Cerecon have completed a structural assessment and certification of the proposed access stile. To undertake this certification, Cerecon performed checks with consideration of the requirements in the following Australian Standards and document:

- AS1170.0 - 2002: Structural design actions
- AS4100-1998: Steel Structures
- AS1657: Platforms, walkways and ladders
- Provided design drawing

Our assessment and certification are based on the following parameters and assumptions:

- Live load factor: 1.5
- Handrail load: 0.6kN/0.35kN/m
- Stair live load: 2.5kPa
- $F_y=250\text{mpa}$ minimum

Based on the above parameters, assumptions and provided information, Cerecon certifies this design. This is on the basis that the installation of the Stile is completed in accordance with the markup provided in appendix A. This is intended to ensure stability of the stile during use.

Sincerely,



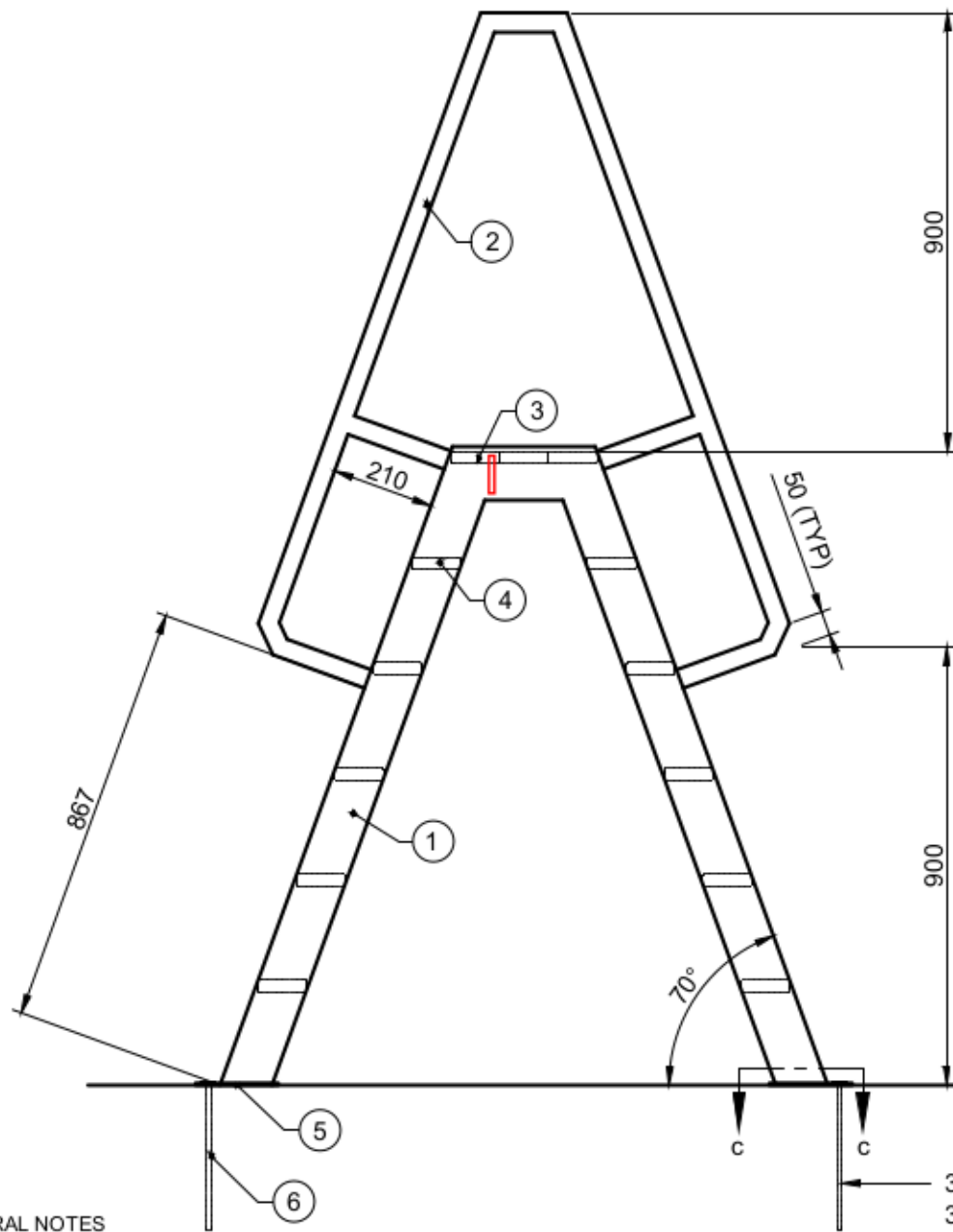
Darcy Richardson

Managing Director

BEng (Hons) (Civil), Adv Dip (Aerospace), MIEAust, CPEng, NER

APPENDIX A: Access Stile Markup

ITEM / MATERIAL LIST				
ITEM NO	DESCRIPTION	SECTION	No. OFF PER STILE	TOTAL LENGTH REQUIRED (m)
1	STRINGERS	100x50x2 DURAGAL RHS	2	6.2
2	HANDRAIL	40x2 DURAGAL SHS	2	7.2
3	PLATFORM	100x25x2 DURAGAL RHS	3	1.7
4	STANDARD TREAD	100x25x2 DURAGAL RHS	10	5.5
5	BASE PLATE	75x5 DURAGAL FLAT	4	0.7
6	BASE PIN	N10 DEFORMED BAR	4	1.2



ANGLE CLEAT TO 30 DEGREES ABOUT VERTICAL AXIS TO PROVIDE EA CLEARANCE FROM FENCE

3 No. 100x25x2 DURAL RHS TREADS TO FORM PLATFORM 2CFW TO STRINGER (TYP)

TREADS STITCH WELDED TOGETHER TOP & BOTTOM 2 FW: HIT 20 MISS 90

M12 BOLT

EDGE OF STAIR STRINGER

2CFW (TYP)

5 THICK X 70 TALL X 50 WIDE CLEAT, 5CFW, 14 DIA HOLE TO SUIT M12 8.8/S BOLT

MITRE CUT & BUTT WELD STRINGERS AT JOINTS (TYP)

SECTION A-A (1:3)

65x5 EA

N10 DEFORMED BAR BASE PIN, 500 EMBEDMENT

100x25x2 DURAL RHS TREADS 2CFW TO STRINGER (TYP)

SECTION B-B (1:2)

MAX 30 DEGREES

100 WIDE X 180 LONG X 4 THICK END PLATE WITH 12 DIA HOLE FOR PIN

SECTION C-C (1:2)

300 LONG BASE PIN WITH DIA 30x4 THICK END PLATE

- GENERAL NOTES**
- 1) ALL WELDS 2 CFW UNO
 - 2) TREAT ALL WELDS WITH ZINC RICH PRIMER + EPOXY TOP COAT
 - 3) APPLY GRIP / ANTI-SLIP TAPE TO FULL TOP FACE OF ALL TREADS & PLATFORM SURFACES
 - 4) PLACE ON LEVEL AND WELL COMPACTED GROUND.

Revision notes:		
Rev:	Date:	Notes:

Drawn by:
D.Moore

Client:
Corryong Mens Shed

Sketch No:
SK01

Drawing Title:
Corryong Fence Stile
Typical arrangement and details

Date:
18/07/2021

Scale @ A3:
1:10

Revision:
A

