

BRIDGES

Flyable Bridge



PRODUCT DESCRIPTION

Lightweight bridge capable of spanning up to 20m with options up to 1.2m wide.

TYPICAL USES / APPLICATIONS

- Service access bridge
- Walking/cycle track bridge
- Pedestrian bridge
- Emergency access bridge
- Marine bridge/gangway

CHARACTERISTICS / ADVANTAGES

- Lightweight (low kg/m²)
- Highly durable providing long-term stability and performance
- Large spans
- Quick & easy installation
- Fully pre-fabricated solution
- Easy connection to supporting foundation/structure
- Modular design

TECHNICAL DATA / MATERIALS

- Materials - marine grade 6005A-TA & 6106-T6 Aluminium
- Stainless steel dacromet coated fixings
- 316 Stainless steel wire rope or Aluminium mesh barrier options
- 100 year design life

TESTS

APPROVALS / STANDARDS

- Inhouse prototype cyclic load testing
- Independent engineering compliance certification (DC Structures)
- Standard Design Independently peer reviewed (Hoffcon)
- Compliance to ADM:2020 (Aluminium Design Manual)
- Compliance to HB-8630-2004 (Tracks & Outdoor Visitor Structures)
- Compliance to AS/NZS1170.0/1/2/4/5 (Australian/New Zealand Structural Design Actions)

WARRANTY

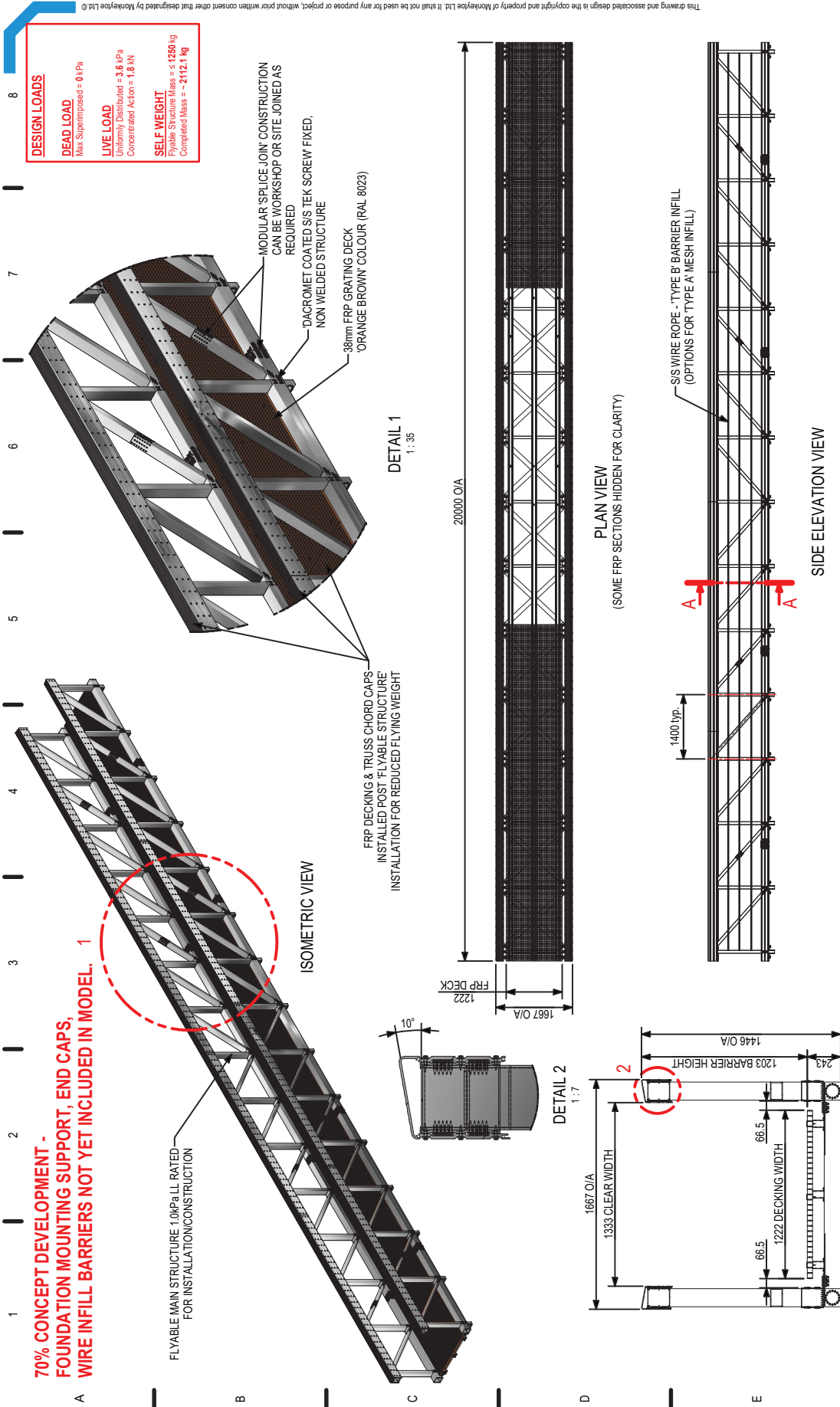
Standard 25 year warranty

MAINTENANCE

MAIN STRUCTURE

- Removal of excess debris & build up
- 2 yearly inspections - competent person - NZTA inspection and DOC/HB8630
- 6 yearly engineers' inspection - NZTA bridge inspection policy and DOC/HB8630

**70% CONCEPT DEVELOPMENT -
FOUNDATION MOUNTING SUPPORT, END CAPS,
WIRE INFILL BARRIERS NOT YET INCLUDED IN MODEL. 1**



DESIGN LOADS

DEAD LOAD Max Superimposed = 0 kPa
LIVE LOAD Uniformly distributed = 3.6 kPa Concentrated Action = 1.8 kN
SELF WEIGHT Flyable Structure Mass = ≤ 1250 kg Completed Mass = ~ 2112.1 kg

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DRAWN BY:	LJK
MODELED BY:	LJK
DATE DRAWN:	29/11/2023
LAST REVISED:	29/11/2023
MATERIAL:	
TOLERANCE:	+/-1.0,0.1°
FINISH:	MILL

19.6m SPAN (20M TOTAL DECK) x 1.2m WIDE KITSET BRIDGE	
MONKEYTOE - FLYABLE BRIDGES	
DWG No:	KB12.BA01.19.6.KIT
	3553
	A3
	SHEET 1 OF 1
	SCALE: 1 : 75
	REV/A
DO NOT SCALE	DIMENSIONS IN MILLIMETERS

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SECTION VIEW A
1:25

A	05% CONCEPT DESIGN ISSUE	LJK	29/11/2023
REV	REV DESCRIPTION	BY	DATE

REVISION HISTORY

SHARPS NOTE: ENSURE ALL EXPOSED SHARP EDGES ARE ROUNDED DURING MANUFACTURE AND INSTALLATION.