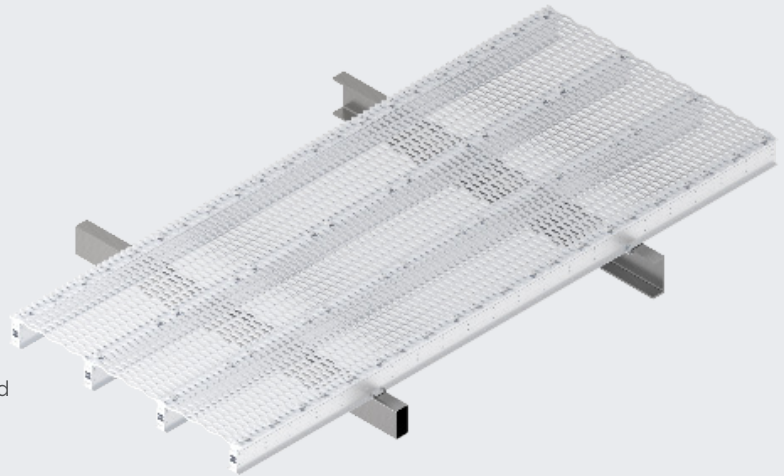


Roobeam

Mesh Span Decking



PRODUCT DESCRIPTION

Light weight mesh decking system suitable for service access and equipment mounting situations

TYPICAL USES / APPLICATIONS

- Plant decks fitted to Structural steel platform structures
- Decking & Infill between walls & roof popouts
- Service riser infill decking
- Service access Bridges
- Equipment mounting plant decks

CHARACTERISTICS / ADVANTAGES

- Light weight (Low kg/m²) Highly durable providing long-term stability and performance
- Spans up to 5.65m (@2.5kPa)
- Imposed loads up to 5kPa (4.5m Max span)
- Quick & easy installation
- Easy connection to structural steel members
- Adjustable and modular design

TECHNICAL DATA / MATERIALS

- Materials - 6005-T6 Aluminium
- Stainless steel or dacromet coated fixings

TESTS

APPROVALS / STANDARDS

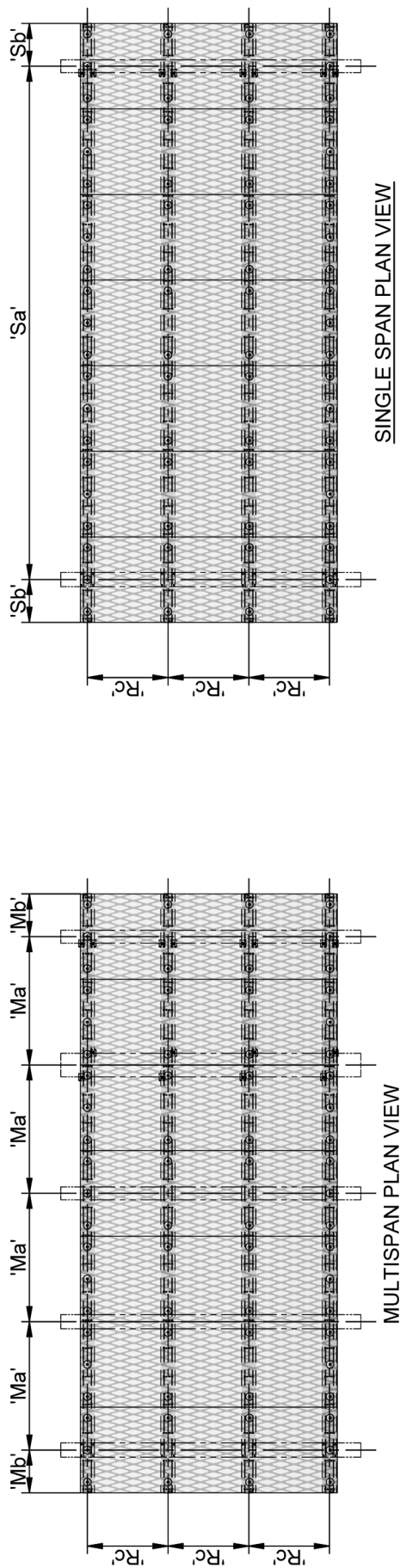
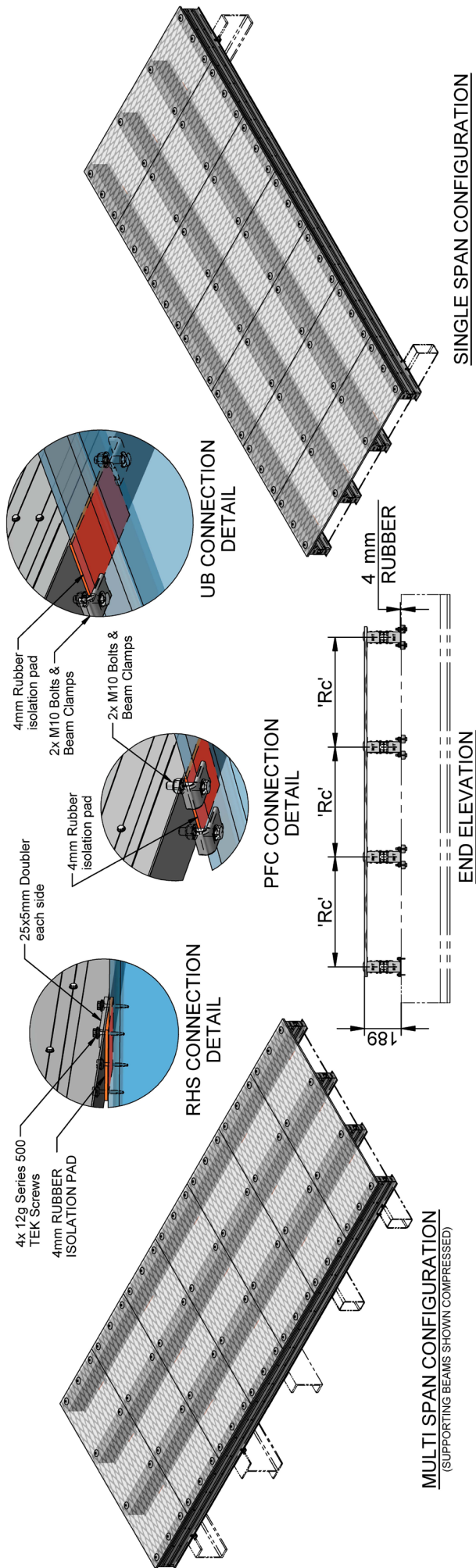
- Structural design action B1 & B2
- Designed to AS/NZS 1664, AS/NZS 1170 & AS/NZS 1657

WARRANTY

- 25 years & 2 years install

MAINTENANCE

- It is recommended that plant platforms are included in the standard 'building warrant of fitness' inspections.
- All damage or loose fixings to be reported immediately to asset manager or building owner for correction.




DECKING WEIGHT (kg/m²)	DECK RAIL	
	SPACING (mm)	WEIGHT
	Rc'	
	600	21kg/m²
	500	24kg/m²
	400	27kg/m²

DECK CAPACITY/SPAN/DEFLECTION CHART (DEFLECTION = SPAN/250)									
PLATFORM LOAD CAPACITY	DECK RAIL SPACING (mm)	Sa (Span) / Deflection (mm)		Sb (Span) / Deflection (mm)		Ma (Span) / Deflection (mm)		Mb (Span) / Deflection (mm)	
		600	500	400	300	600	500	400	300
2.5kPa / 1.4kN	600	3950 / 15.8	987.5 / 3.9	4800 / 19.6	1225 / 4.9	4800 / 19.6	1225 / 4.9	4800 / 19.6	1225 / 4.9
	500	4200 / 16.8	1050 / 4.2	5250 / 21	1312.5 / 5.2	5250 / 21	1312.5 / 5.2	5250 / 21	1312.5 / 5.2
	400	4550 / 18.2	1137.5 / 4.5	5650 / 22.6	1412.5 / 5.6	5650 / 22.6	1412.5 / 5.6	5650 / 22.6	1412.5 / 5.6
3.0kPa / 1.4kN	600	3750 / 15	937.5 / 3.7	4650 / 18.6	1162.5 / 4.6	4650 / 18.6	1162.5 / 4.6	4650 / 18.6	1162.5 / 4.6
	500	4000 / 16	1000 / 4	4950 / 19.8	1237.5 / 4.9	4950 / 19.8	1237.5 / 4.9	4950 / 19.8	1237.5 / 4.9
	400	4300 / 17.2	1075 / 4.3	5300 / 21.2	1325 / 5.3	5300 / 21.2	1325 / 5.3	5300 / 21.2	1325 / 5.3
4.0kPa / 1.4kN	600	3450 / 13.8	862.5 / 3.4	4250 / 17	1062.5 / 4.2	4250 / 17	1062.5 / 4.2	4250 / 17	1062.5 / 4.2
	500	3650 / 14.6	912.5 / 3.6	4500 / 18	1125 / 4.5	4500 / 18	1125 / 4.5	4500 / 18	1125 / 4.5
	400	3900 / 15.6	975 / 3.9	4850 / 19.4	1212.5 / 4.8	4850 / 19.4	1212.5 / 4.8	4850 / 19.4	1212.5 / 4.8
5.0kPa / 1.4kN	600	3200 / 12.8	800 / 3.2	3950 / 15.8	987.5 / 3.9	3950 / 15.8	987.5 / 3.9	3950 / 15.8	987.5 / 3.9
	500	3400 / 13.6	850 / 3.4	4200 / 16.8	1050 / 4.2	4200 / 16.8	1050 / 4.2	4200 / 16.8	1050 / 4.2
	400	3650 / 14.6	912.5 / 3.6	4500 / 18	1125 / 4.5	4500 / 18	1125 / 4.5	4500 / 18	1125 / 4.5

* Platform load assumed to be uniformly distributed


DECK CAPACITY/SPAN/DEFLECTION CHART (DEFLECTION = SPAN/300)									
PLATFORM LOAD CAPACITY	DECK RAIL SPACING (mm)	Sa (Span) / Deflection (mm)		Sb (Span) / Deflection (mm)		Ma (Span) / Deflection (mm)		Mb (Span) / Deflection (mm)	
		600	500	400	300	600	500	400	300
2.5kPa / 1.4kN	600	3750 / 12.5	937.5 / 3.1	4600 / 15.3	1150 / 3.8	4600 / 15.3	1150 / 3.8	4600 / 15.3	1150 / 3.8
	500	3950 / 13.2	987.5 / 3.3	4900 / 16.3	1225 / 4	4900 / 16.3	1225 / 4	4900 / 16.3	1225 / 4
	400	4300 / 14.3	1075 / 3.5	5300 / 17.7	1325 / 4.4	5300 / 17.7	1325 / 4.4	5300 / 17.7	1325 / 4.4
3.0kPa / 1.4kN	600	3550 / 11.8	887.5 / 2.9	4350 / 14.5	1087.5 / 3.6	4350 / 14.5	1087.5 / 3.6	4350 / 14.5	1087.5 / 3.6
	500	3750 / 12.5	937.5 / 3.1	4650 / 15.5	1162.5 / 3.8	4650 / 15.5	1162.5 / 3.8	4650 / 15.5	1162.5 / 3.8
	400	4050 / 13.5	1012.5 / 3.3	5000 / 16.7	1250 / 4.1	5000 / 16.7	1250 / 4.1	5000 / 16.7	1250 / 4.1
4.0kPa / 1.4kN	600	3200 / 10.7	800 / 2.8	4000 / 13.3	1000 / 3.3	4000 / 13.3	1000 / 3.3	4000 / 13.3	1000 / 3.3
	500	3450 / 11.5	862.5 / 2.8	4250 / 14.2	1062.5 / 3.5	4250 / 14.2	1062.5 / 3.5	4250 / 14.2	1062.5 / 3.5
	400	3700 / 12.3	925 / 3	4550 / 15.2	1137.5 / 3.8	4550 / 15.2	1137.5 / 3.8	4550 / 15.2	1137.5 / 3.8
5.0kPa / 1.4kN	600	3000 / 10.0	750 / 2.5	3700 / 12.3	925 / 3	3700 / 12.3	925 / 3	3700 / 12.3	925 / 3
	500	3200 / 10.7	800 / 2.6	3950 / 13.2	987.5 / 3.3	3950 / 13.2	987.5 / 3.3	3950 / 13.2	987.5 / 3.3
	400	3450 / 11.5	862.5 / 2.8	4250 / 14.2	1062.5 / 3.5	4250 / 14.2	1062.5 / 3.5	4250 / 14.2	1062.5 / 3.5

* Platform load assumed to be uniformly distributed

MESH SPAN DECK - PM36/37/36 + EW001	
MONKEYTOE	
DWG No: MSD002-TD-01	26/05/2019
	SHEET 1 OF 1
	SCALE: 1:30
DO NOT SCALE	
DIMENSIONS IN MILLIMETERS	

Monkeytoe

EVERYTHING BETTER

PM36/37/36 SPAN BEAM MANUFACTURE DETAILS			
MONKEYTOE - MESH SPAN DECKING			
DWG No: MSD002-MD-01		26/05/2019	
	SHEET 1 OF 1		A3
	SCALE: 1:1		REV:01
DO NOT SCALE DIMENSIONS IN MILLIMETERS			

Monkeytoe

EVERYTHING BETTER

Mass Properties PM36/37/36

Material = 6005-T6 or 6106-T6 Aluminium

Density = 2700.0 kg/m³

Mass = 5.4kg/m

Area: 1985.9 mm²

Principal X-Moment (I_{pxx}): 5193477.8 mm⁴

Principal Y-Moment (I_{pyy}): 1311389.2 mm⁴

Torsional Constant (J): 1354200 mm⁴

Radius of Gyration (R_x): +51.14mm

Radius of Gyration (R_y): +25.7mm

Centroid relative to output coordinate

system

origin:

X = 0.0

Y = 0.0

Z = 0.0

