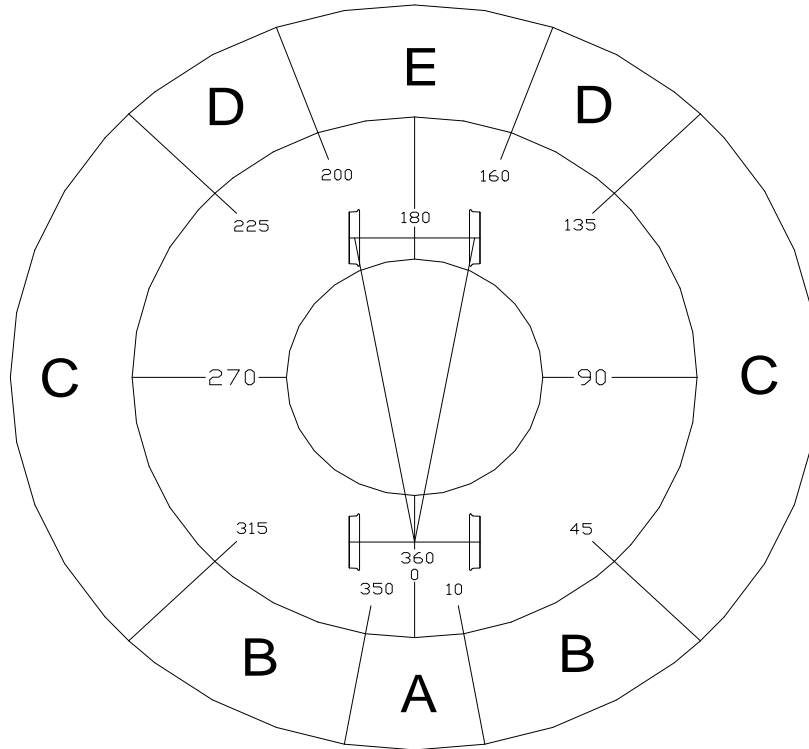


MEGARAILER

by REXQUOTE

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Fixed Axle



Oscillating Axle

Machine Type:	_____	Case 988
Serial Number:	_____	CGG0232314
Rail Axle Number:	_____	1683
Equipment:	_____	Boom 4.35m Dipper 2.1m
Date:	_____	5th October 2009
Issue:	_____	1
Software Version:	_____	V0.37a

This machine is equipped with a Rexquote Rated Capacity Indicator. This system is designed to comply with RAILWAY SAFETY STANDARD RIS-1530-PLT Issue 1


Radius / Height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the lifting point with no other equipment attached. This machine is fitted with an hydraulically adjustable boom. This allows the machine to reach the same point in space with a variety of different equipment angles, each combination has a different safe working load. The charts above show both the upper & lower limits of the loads achievable. Loads marked 'b' boom, 'r' articulation, and 'a' arm are limited by hydraulic capacity (87% of 355 bar).

All rail duties listed are valid for use on up to a 1:29 gradient, and with a maximum track twist of 27mm.

NETWORK RAIL DUTIES


SECTOR A

Road
71% SWL
Unlocked




	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m											
6.0m	-	-	-	-	6.00b	5.82b	5.66	-	-	-	-
5.0m	-	-	-	-	5.30a	5.92b	5.64	4.71	3.98	-	-
4.0m	-	-	-	-	6.05a	5.52	4.63	3.96	3.41	-	-
3.0m	-	-	-	-	-	5.35	4.51	3.88	3.38	-	-
2.0m	-	-	-	-	-	5.17	4.38	3.79	3.32	-	-
1.0m	-	-	-	-	-	5.02	4.27	3.71	3.26	-	-
0.0m	-	-	-	-	-	5.95	4.93	4.2	3.66	3.23	-
-1.0m	-	-	-	-	7.44	5.91	4.9	4.18	3.66	-	-
-2.0m	-	-	8.20b	7.42b	6.64b	5.87b	4.95	4.07b	-	-	-

Level Rail
0-50mm
67% SWL
Unlocked




	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	6.29b	5.26	-	-	-	-	-
6.0m	-	-	-	-	6.00b	5.33	4.53	3.87	-	-	-
5.0m	-	-	-	-	5.20a	5.27	4.49	3.89	3.39	-	-
4.0m	-	-	-	-	-	5.13	4.39	3.82	3.36	2.97	-
3.0m	-	-	-	-	-	-	4.26	3.73	3.3	2.94	-
2.0m	-	-	-	-	-	-	4.13	3.63	3.23	2.89	-
1.0m	-	-	-	-	-	-	4.03	3.55	3.17	2.85	-
0.0m	-	-	-	-	-	4.58	3.98	3.51	3.14	2.84	-
-1.0m	-	-	-	-	5.39	4.57	3.97	3.51	3.15	-	-
-2.0m	-	8.28b	7.65b	6.62	5.44	4.62	4.02	3.07b	-	-	-

Road
87% SWL
Locked




	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m											
6.0m	-	-	-	-	6.00b	5.82b	5.73b	-	-	-	-
5.0m	-	-	-	-	5.30a	5.92b	5.67b	5.48b	4.9	-	-
4.0m	-	-	-	-	6.05a	5.97b	5.63b	4.88	4.12	-	-
3.0m	-	-	-	-	-	6.42b	5.72	4.78	4.08	-	-
2.0m	-	-	-	-	-	6.81	5.56	4.67	4.01	-	-
1.0m	-	-	-	-	-	6.63	5.43	4.58	3.94	-	-
0.0m	-	-	-	-	7.81b	6.51	5.34	4.52	3.91	-	-
-1.0m	-	-	-	-	8.08b	7.16b	6.35b	5.32	4.52	-	-
-2.0m	-	-	8.20b	7.42b	6.64b	5.87b	5.08b	4.07b	-	-	-

Level Rail
0-50mm
87% SWL
Locked




	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	6.29b	6.30b	-	-	-	-	-
6.0m	-	-	-	-	6.00b	5.80b	5.67b	5.67b	-	-	-
5.0m	-	-	-	-	5.20a	5.89a	5.71b	5.49b	5.36b	-	-
4.0m	-	-	-	-	6.26a	6.06b	5.69b	5.40b	5.18b	-	-
3.0m	-	-	-	-	-	6.52b	6.00b	5.58b	5.22b	-	-
2.0m	-	-	-	-	-	6.92b	6.26b	5.73b	5.27b	-	-
1.0m	-	-	-	-	-	7.07b	6.34b	5.72b	5.16b	-	-
0.0m	-	-	-	-	7.72b	6.85b	6.10b	5.43b	4.64b	-	-
-1.0m	-	-	-	-	7.83b	6.95b	6.15b	5.39b	4.49b	-	-
-2.0m	-	8.28b	7.65b	6.94b	6.21b	5.47b	4.64b	3.07b	-	-	-

Canted Rail
50-150mm
67% SWL
Unlocked




	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	4.89	4.01	-	-	-	-	-
6.0m	-	-	-	-	4.91	4.08	3.46	2.94	-	-	-
5.0m	-	-	-	-	4.81	4.02	3.42	2.95	2.56	-	-
4.0m	-	-	-	-	-	3.88	3.33	2.89	2.53	2.23	-
3.0m	-	-	-	-	-	-	3.2	2.8	2.47	2.2	-
2.0m	-	-	-	-	-	-	3.08	2.71	2.4	2.15	-
1.0m	-	-	-	-	-	-	2.98	2.63	2.35	2.11	-
0.0m	-	-	-	-	-	3.36	2.93	2.59	2.32	2.1	-
-1.0m	-	-	-	-	3.93	3.35	2.92	2.58	2.33	-	-
-2.0m	-	8.19	6.07	4.81	3.98	3.39	2.96	2.68	-	-	-

Max Cant + Twist
150-177mm
67% SWL
Unlocked




	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	2.44	1.96	-	-	-	-	-
6.0m	-	-	-	-	2.46	2.03	1.69	1.39	-	-	-
5.0m	-	-	-	-	2.37	1.97	1.66	1.4	1.18	-	-
4.0m	-	-	-	-	-	1.85	1.57	1.34	1.16	0.99	-
3.0m	-	-	-	-	-	-	1.45	1.26	1.1	0.96	-
2.0m	-	-	-	-	-	-	1.34	1.17	1.03	0.91	-
1.0m	-	-	-	-	-	-	1.25	1.1	0.98	0.88	-
0.0m	-	-	-	-	-	1.37	1.2	1.06	0.95	0.86	-
-1.0m	-	-	-	-	1.59	1.36	1.19	1.06	0.96	-	-
-2.0m	-	3.17	2.42	1.95	1.63	1.4	1.24	1.15	-	-	-

Canted Rail
50-150mm
90% SWL
Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	6.29b	6.30b	-	-	-	-	-
6.0m	-	-	-	-	6.00b	5.80b	5.67b	5.17	-	-	-
5.0m	-	-	-	-	5.20a	5.89a	5.71b	5.19	4.5	-	-
4.0m	-	-	-	-	6.26a	5.9	5.09	4.45	3.92	-	-
3.0m	-	-	-	-	-	5.71	4.96	4.36	3.87	-	-
2.0m	-	-	-	-	-	5.53	4.83	4.27	3.8	-	-
1.0m	-	-	-	-	-	5.39	4.72	4.18	3.75	-	-
0.0m	-	-	-	-	6.17	5.31	4.66	4.14	3.73	-	-
-1.0m	-	-	-	-	7.34	6.15	5.3	4.65	4.16	-	-
-2.0m	-	8.28b	7.65b	6.94b	6.21b	5.47b	4.64b	3.07b	-	-	-


Max Cant + Twist
150-177mm
90% SWL
Locked




	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	4.68	3.74	-	-	-	-	-
6.0m	-	-	-	-	4.71	3.84	3.18	2.62	-	-	-
5.0m	-	-	-	-	4.57	3.75	3.13	2.64	2.2	-	-
4.0m	-	-	-	-	-	3.56	3	2.54	2.15	1.81	-
3.0m	-	-	-	-	-	-	2.82	2.4	2.05	1.76	-
2.0m	-	-	-	-	-	-	2.65	2.26	1.95	1.69	-
1.0m	-	-	-	-	-	-	2.5	2.15	1.86	1.63	-
0.0m	-	-	-	-	2.83	2.41	2.08	1.81	1.61	-	-
-1.0m	-	-	-	-	3.34	2.81	2.4	2.07	1.84	-	-
-2.0m	-	7.5	5.39	4.18	3.41	2.87	2.47	2.22	-	-	-

NETWORK RAIL DUTIES


SECTOR B

Road
71% SWL
Unlocked


	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m											
6.0m	-	-	-	-	3.8	3.16	2.67	-	-	-	-
5.0m	-	-	-	-	3.72	3.12	2.65	2.28	1.96	-	-
4.0m	-	-	-	-	-	3	2.57	2.23	1.94	1.69	-
3.0m	-	-	-	-	-	-	2.45	2.14	1.88	1.67	-
2.0m	-	-	-	-	-	-	2.32	2.05	1.82	1.62	-
1.0m	-	-	-	-	-	-	2.22	1.97	1.75	1.58	-
0.0m	-	-	-	-	-	2.46	2.16	1.91	1.72	1.56	-
-1.0m	-	-	-	-	2.83	2.44	2.14	1.9	1.72	-	-
-2.0m	-	-	4.24	3.42	2.87	2.47	2.17	1.95	-	-	-

Level Rail
0-50mm
67% SWL
Unlocked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	3.23	2.63	-	-	-	-	-
6.0m	-	-	-	-	3.25	2.7	2.27	1.91	-	-	-
5.0m	-	-	-	-	3.15	2.64	2.24	1.92	1.65	-	-
4.0m	-	-	-	-	-	2.51	2.15	1.86	1.62	1.41	-
3.0m	-	-	-	-	-	-	2.03	1.77	1.56	1.38	-
2.0m	-	-	-	-	-	-	1.92	1.69	1.5	1.33	-
1.0m	-	-	-	-	-	-	1.83	1.62	1.44	1.3	-
0.0m	-	-	-	-	-	2.03	1.78	1.57	1.41	1.28	-
-1.0m	-	-	-	-	2.35	2.02	1.77	1.57	1.42	-	-
-2.0m	-	4.65	3.55	2.86	2.39	2.06	1.81	1.66	-	-	-

Road
71% SWL
Locked


	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m											
6.0m	-	-	-	-	5.33	4.56	3.94	-	-	-	-
5.0m	-	-	-	-	5.26	4.52	3.93	3.45	3.04	-	-
4.0m	-	-	-	-	-	4.4	3.85	3.4	3.03	2.7	-
3.0m	-	-	-	-	-	-	3.74	3.32	2.97	2.68	-
2.0m	-	-	-	-	-	-	3.62	3.23	2.91	2.63	-
1.0m	-	-	-	-	-	-	3.52	3.16	2.85	2.59	-
0.0m	-	-	-	-	-	3.9	3.46	3.11	2.82	2.57	-
-1.0m	-	-	-	-	4.45	3.88	3.45	3.1	2.82	-	-
-2.0m	-	-	6.31	5.24	4.48	3.91	3.47	3.14	-	-	-

Level Rail
0-50mm
90% SWL
Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	5.93	4.8	-	-	-	-	-
6.0m	-	-	-	-	5.96	4.9	4.09	3.44	-	-	-
5.0m	-	-	-	-	5.20a	4.8	4.05	3.46	2.97	-	-
4.0m	-	-	-	-	-	4.61	3.91	3.37	2.93	2.54	-
3.0m	-	-	-	-	-	-	3.74	3.24	2.84	2.48	-
2.0m	-	-	-	-	-	-	3.56	3.11	2.74	2.41	-
1.0m	-	-	-	-	-	-	3.43	3.01	2.66	2.35	-
0.0m	-	-	-	-	-	3.88	3.35	2.95	2.62	2.33	-
-1.0m	-	-	-	-	4.58	3.86	3.34	2.94	2.64	-	-
-2.0m	-	8.28b	7.32	5.69	4.64	3.92	3.4	3.07b	-	-	-

Canted Rail
50-150mm
67% SWL
Unlocked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	2.78	2.25	-	-	-	-	-
6.0m	-	-	-	-	2.8	2.32	1.94	1.61	-	-	-
5.0m	-	-	-	-	2.71	2.26	1.91	1.63	1.38	-	-
4.0m	-	-	-	-	-	2.13	1.82	1.57	1.36	1.17	-
3.0m	-	-	-	-	-	-	1.7	1.48	1.3	1.14	-
2.0m	-	-	-	-	-	-	1.59	1.39	1.23	1.09	-
1.0m	-	-	-	-	-	-	1.5	1.32	1.18	1.06	-
0.0m	-	-	-	-	-	1.65	1.45	1.28	1.15	1.05	-
-1.0m	-	-	-	-	1.91	1.64	1.44	1.28	1.16	-	-
-2.0m	-	3.8	2.91	2.34	1.96	1.68	1.48	1.37	-	-	-

Max Cant + Twist 150-177mm
67% SWL
Unlocked


	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	2.44	1.96	-	-	-	-	-
6.0m	-	-	-	-	2.46	2.03	1.69	1.39	-	-	-
5.0m	-	-	-	-	2.37	1.97	1.66	1.4	1.18	-	-
4.0m	-	-	-	-	-	1.85	1.57	1.34	1.16	0.99	-
3.0m	-	-	-	-	-	-	1.45	1.26	1.1	0.96	-
2.0m	-	-	-	-	-	-	1.34	1.17	1.03	0.91	-
1.0m	-	-	-	-	-	-	1.25	1.1	0.98	0.88	-
0.0m	-	-	-	-	-	1.37	1.2	1.06	0.95	0.86	-
-1.0m	-	-	-	-	1.59	1.36	1.19	1.06	0.96	-	-
-2.0m	-	3.17	2.42	1.95	1.63	1.4	1.24	1.15	-	-	-

Canted Rail
50-150mm
90% SWL
Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	5.06	4.09	-	-	-	-	-
6.0m	-	-	-	-	5.09	4.19	3.5	2.93	-	-	-
5.0m	-	-	-	-	4.95	4.1	3.45	2.94	2.5	-	-
4.0m	-	-	-	-	-	3.91	3.32	2.86	2.46	2.1	-
3.0m	-	-	-	-	-	-	3.15	2.74	2.36	2.04	-
2.0m	-	-	-	-	-	-	2.98	2.6	2.26	1.97	-
1.0m	-	-	-	-	-	-	2.86	2.49	2.17	1.92	-
0.0m	-	-	-	-	-	3.21	2.78	2.42	2.13	1.9	-
-1.0m	-	-	-	-	3.76	3.19	2.77	2.42	2.15	-	-
-2.0m	-	8.07	5.92	4.65	3.83	3.25	2.83	2.56	-	-	-

Max Cant + Twist 150-177mm
90% SWL
Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	4.68	3.74	-	-	-	-	-
6.0m	-	-	-	-	4.71	3.84	3.18	2.62	-	-	-
5.0m	-	-	-	-	4.57	3.75	3.13	2.64	2.2	-	-
4.0m	-	-	-	-	-	3.56	3	2.54	2.15	1.81	-
3.0m	-	-	-	-	-	-	2.82	2.4	2.05	1.76	-
2.0m	-	-	-	-	-	-	2.65	2.26	1.95	1.69	-
1.0m	-	-	-	-	-	-	2.5	2.15	1.86	1.63	-
0.0m	-	-	-	-	-	2.83	2.41	2.08	1.81	1.61	-
-1.0m	-	-	-	-	3.34	2.81	2.4	2.07	1.84	-	-
-2.0m	-	7.5	5.39	4.18	3.41	2.87	2.47	2.22	-	-	-

NETWORK RAIL DUTIES


SECTOR C

Road
71% SWL
Unlocked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m											
6.0m	-	-	-	-	3.8	3.16	2.67	-	-	-	-
5.0m	-	-	-	-	3.72	3.12	2.65	2.28	1.96	-	-
4.0m	-	-	-	-	-	3	2.57	2.23	1.94	1.69	-
3.0m	-	-	-	-	-	-	2.45	2.14	1.88	1.67	-
2.0m	-	-	-	-	-	-	2.32	2.04	1.81	1.62	-
1.0m	-	-	-	-	-	-	2.22	1.97	1.75	1.58	-
0.0m	-	-	-	-	-	2.46	2.16	1.91	1.72	1.56	-
-1.0m	-	-	-	-	2.83	2.44	2.14	1.9	1.72	-	-
-2.0m	-	-	4.24	3.42	2.87	2.47	2.17	1.95	-	-	-

Level Rail
0-50mm
67% SWL
Unlocked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	2.78	2.28	-	-	-	-	-
6.0m	-	-	-	-	2.8	2.34	1.98	1.66	-	-	-
5.0m	-	-	-	-	2.72	2.28	1.95	1.67	1.44	-	-
4.0m	-	-	-	-	-	2.17	1.86	1.61	1.41	1.22	-
3.0m	-	-	-	-	-	-	1.75	1.53	1.35	1.19	-
2.0m	-	-	-	-	-	-	1.64	1.45	1.29	1.15	-
1.0m	-	-	-	-	-	-	1.56	1.38	1.24	1.11	-
0.0m	-	-	-	-	-	1.71	1.51	1.34	1.21	1.1	-
-1.0m	-	-	-	-	1.97	1.7	1.5	1.34	1.22	-	-
-2.0m	-	3.7	2.9	2.37	2.01	1.74	1.54	1.42	-	-	-

Road
71% SWL
Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m											
6.0m	-	-	-	-	5.33	4.56	3.94	-	-	-	-
5.0m	-	-	-	-	5.26	4.52	3.93	3.45	3.04	-	-
4.0m	-	-	-	-	-	4.4	3.85	3.4	3.03	2.7	-
3.0m	-	-	-	-	-	-	3.74	3.32	2.97	2.68	-
2.0m	-	-	-	-	-	-	3.62	3.23	2.91	2.63	-
1.0m	-	-	-	-	-	-	3.52	3.16	2.85	2.59	-
0.0m	-	-	-	-	-	3.9	3.46	3.11	2.82	2.57	-
-1.0m	-	-	-	-	4.45	3.88	3.45	3.1	2.82	-	-
-2.0m	-	-	6.31	5.24	4.48	3.91	3.47	3.14	-	-	-

Level Rail
0-50mm
90% SWL
Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	5.29	4.29	-	-	-	-	-
6.0m	-	-	-	-	5.32	4.38	3.67	3.08	-	-	-
5.0m	-	-	-	-	5.18	4.3	3.63	3.1	2.66	-	-
4.0m	-	-	-	-	-	4.11	3.5	3.01	2.61	2.24	-
3.0m	-	-	-	-	-	-	3.33	2.89	2.52	2.18	-
2.0m	-	-	-	-	-	-	3.16	2.76	2.41	2.11	-
1.0m	-	-	-	-	-	-	3.03	2.66	2.33	2.06	-
0.0m	-	-	-	-	-	3.4	2.96	2.59	2.28	2.04	-
-1.0m	-	-	-	-	3.99	3.39	2.94	2.59	2.3	-	-
-2.0m	-	8.28b	6.27	4.93	4.06	3.45	3.01	2.73	-	-	-

Canted Rail
50-150mm
67% SWL
Unlocked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	2.56	2.05	-	-	-	-	-
6.0m	-	-	-	-	2.58	2.12	1.76	1.45	-	-	-
5.0m	-	-	-	-	2.49	2.06	1.73	1.46	1.23	-	-
4.0m	-	-	-	-	-	1.93	1.64	1.4	1.2	1.03	-
3.0m	-	-	-	-	-	-	1.52	1.31	1.14	1	-
2.0m	-	-	-	-	-	-	1.4	1.23	1.08	0.95	-
1.0m	-	-	-	-	-	-	1.31	1.16	1.03	0.92	-
0.0m	-	-	-	-	-	1.45	1.26	1.12	1	0.9	-
-1.0m	-	-	-	-	1.68	1.44	1.25	1.11	1.01	-	-
-2.0m	-	3.42	2.59	2.07	1.72	1.48	1.3	1.2	-	-	-

Max Cant + Twist
150-177mm
67% SWL
Unlocked


	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	2.44	1.96	-	-	-	-	-
6.0m	-	-	-	-	2.46	2.03	1.69	1.39	-	-	-
5.0m	-	-	-	-	2.37	1.97	1.66	1.4	1.18	-	-
4.0m	-	-	-	-	-	1.85	1.57	1.34	1.16	0.99	-
3.0m	-	-	-	-	-	-	1.45	1.26	1.1	0.96	-
2.0m	-	-	-	-	-	-	1.34	1.17	1.03	0.91	-
1.0m	-	-	-	-	-	-	1.25	1.1	0.98	0.88	-
0.0m	-	-	-	-	-	1.37	1.2	1.06	0.95	0.86	-
-1.0m	-	-	-	-	1.59	1.36	1.19	1.06	0.96	-	-
-2.0m	-	3.17	2.42	1.95	1.63	1.4	1.24	1.15	-	-	-

Canted Rail
50-150mm
90% SWL
Locked


	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	4.78	3.83	-	-	-	-	-
6.0m	-	-	-	-	4.82	3.93	3.25	2.7	-	-	-
5.0m	-	-	-	-	4.67	3.83	3.21	2.72	2.26	-	-
4.0m	-	-	-	-	-	3.64	3.07	2.62	2.22	1.87	-
3.0m	-	-	-	-	-	-	2.9	2.48	2.12	1.82	-
2.0m	-	-	-	-	-	-	2.73	2.34	2.02	1.75	-
1.0m	-	-	-	-	-	-	2.58	2.22	1.93	1.69	-
0.0m	-	-	-	-	-	2.92	2.5	2.16	1.88	1.67	-
-1.0m	-	-	-	-	3.44	2.9	2.48	2.15	1.9	-	-
-2.0m	-	7.72	5.55	4.3	3.51	2.96	2.56	2.29	-	-	-


Max Cant + Twist
150-177mm
90% SWL
Locked


	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	4.68	3.74	-	-	-	-	-
6.0m	-	-	-	-	4.71	3.84	3.18	2.62	-	-	-
5.0m	-	-	-	-	4.57	3.75	3.13	2.64	2.2	-	-
4.0m	-	-	-	-	-	3.56	3	2.54	2.15	1.81	-
3.0m	-	-	-	-	-	-	2.82	2.4	2.05	1.76	-
2.0m	-	-	-	-	-	-	2.65	2.26	1.95	1.69	-
1.0m	-	-	-	-	-	-	2.5	2.15	1.86	1.63	-
0.0m	-	-	-	-	-	2.83	2.41	2.08	1.81	1.61	-
-1.0m	-	-	-	-	3.34	2.81	2.4	2.07	1.84	-	-
-2.0m	-	7.5	5.39	4.18	3.41	2.87	2.47	2.22	-	-	-

NETWORK RAIL DUTIES


SECTOR D

Road
87% SWL
Unlocked




	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m											
6.0m	-	-	-	-	6.00b	5.82b	5.73b	-	-	-	-
5.0m	-	-	-	-	5.30a	5.92b	5.67b	5.48b	4.9	-	-
4.0m	-	-	-	-	-	6.05a	5.97b	5.63b	4.88	4.12	-
3.0m	-	-	-	-	-	-	6.42b	5.72	4.78	4.08	-
2.0m	-	-	-	-	-	-	6.81	5.56	4.67	4.01	-
1.0m	-	-	-	-	-	-	6.63	5.43	4.58	3.94	-
0.0m	-	-	-	-	-	7.81b	6.51	5.34	4.52	3.91	-
-1.0m	-	-	-	-	8.08b	7.16b	6.35b	5.32	4.52	-	-
-2.0m	-	-	8.20b	7.42b	6.64b	5.87b	5.08b	4.07b	-	-	-

Level Rail
0-50mm
67% SWL
Unlocked




	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	4.05	3.38	-	-	-	-	-
6.0m	-	-	-	-	4.07	3.45	2.95	2.54	-	-	-
5.0m	-	-	-	-	3.98	3.39	2.92	2.55	2.23	-	-
4.0m	-	-	-	-	-	3.27	2.84	2.49	2.2	1.95	-
3.0m	-	-	-	-	-	-	2.73	2.41	2.14	1.92	-
2.0m	-	-	-	-	-	-	2.61	2.32	2.08	1.88	-
1.0m	-	-	-	-	-	-	2.53	2.26	2.03	1.84	-
0.0m	-	-	-	-	-	2.81	2.48	2.22	2	1.83	-
-1.0m	-	-	-	-	3.22	2.8	2.47	2.21	2.01	-	-
-2.0m	-	5.94	4.68	3.85	3.26	2.84	2.51	2.3	-	-	-

Road
71% SWL
Locked




	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m											
6.0m	-	-	-	-	5.33	4.56	3.94	-	-	-	-
5.0m	-	-	-	-	5.26	4.52	3.93	3.45	3.04	-	-
4.0m	-	-	-	-	-	4.4	3.85	3.4	3.03	2.7	-
3.0m	-	-	-	-	-	-	3.74	3.32	2.97	2.68	-
2.0m	-	-	-	-	-	-	3.62	3.23	2.91	2.63	-
1.0m	-	-	-	-	-	-	3.52	3.16	2.85	2.59	-
0.0m	-	-	-	-	-	3.9	3.46	3.11	2.82	2.57	-
-1.0m	-	-	-	-	4.45	3.88	3.45	3.1	2.82	-	-
-2.0m	-	-	6.31	5.24	4.48	3.91	3.47	3.14	-	-	-

Level Rail
0-50mm
75% SWL
Locked




	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	6.29b	5.78	-	-	-	-	-
6.0m	-	-	-	-	6.00b	5.80b	4.99	4.29	-	-	-
5.0m	-	-	-	-	5.20a	5.79	4.95	4.3	3.76	-	-
4.0m	-	-	-	-	-	5.63	4.85	4.23	3.73	3.31	-
3.0m	-	-	-	-	-	-	4.7	4.13	3.66	3.27	-
2.0m	-	-	-	-	-	-	4.56	4.02	3.58	3.22	-
1.0m	-	-	-	-	-	-	4.46	3.94	3.52	3.17	-
0.0m	-	-	-	-	-	5.05	4.4	3.89	3.48	3.16	-
-1.0m	-	-	-	-	5.9	5.03	4.38	3.88	3.5	-	-
-2.0m	-	8.28b	7.65b	6.94b	5.96	5.08	4.44	3.07b	-	-	-

Canted Rail
50-150mm
67% SWL
Unlocked




	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	3.22	2.71	-	-	-	-	-
6.0m	-	-	-	-	3.24	2.76	2.38	2.05	-	-	-
5.0m	-	-	-	-	3.16	2.71	2.35	2.06	1.8	-	-
4.0m	-	-	-	-	-	2.6	2.27	2.01	1.78	1.58	-
3.0m	-	-	-	-	-	-	2.17	1.93	1.72	1.55	-
2.0m	-	-	-	-	-	-	2.07	1.85	1.67	1.51	-
1.0m	-	-	-	-	-	-	1.99	1.79	1.62	1.47	-
0.0m	-	-	-	-	-	2.18	1.95	1.75	1.59	1.46	-
-1.0m	-	-	-	-	2.47	2.17	1.94	1.75	1.6	-	-
-2.0m	-	4.28	3.47	2.92	2.51	2.21	1.98	1.83	-	-	-

Max Cant + Twist
150-177mm
67% SWL
Unlocked




	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	2.44	1.96	-	-	-	-	-
6.0m	-	-	-	-	2.46	2.03	1.69	1.39	-	-	-
5.0m	-	-	-	-	2.37	1.97	1.66	1.4	1.18	-	-
4.0m	-	-	-	-	-	1.85	1.57	1.34	1.16	0.99	-
3.0m	-	-	-	-	-	-	1.45	1.26	1.1	0.96	-
2.0m	-	-	-	-	-	-	1.34	1.17	1.03	0.91	-
1.0m	-	-	-	-	-	-	1.25	1.1	0.98	0.88	-
0.0m	-	-	-	-	-	1.37	1.2	1.06	0.95	0.86	-
-1.0m	-	-	-	-	1.59	1.36	1.19	1.06	0.96	-	-
-2.0m	-	3.17	2.42	1.95	1.63	1.4	1.24	1.15	-	-	-

Canted Rail
50-150mm
75% SWL
Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	6.05	5.06	-	-	-	-	-
6.0m	-	-	-	-	6.00b	5.14	4.41	3.81	-	-	-
5.0m	-	-	-	-	5.20a	5.07	4.38	3.83	3.36	-	-
4.0m	-	-	-	-	-	4.93	4.28	3.76	3.33	2.97	-
3.0m	-	-	-	-	-	-	4.15	3.66	3.26	2.93	-
2.0m	-	-	-	-	-	-	4.02	3.56	3.19	2.88	-
1.0m	-	-	-	-	-	-	3.92	3.49	3.13	2.84	-
0.0m	-	-	-	-	-	4.39	3.86	3.44	3.1	2.83	-
-1.0m	-	-	-	-	5.07	4.37	3.85	3.44	3.11	-	-
-2.0m	-	8.28b	7.47	6.08	5.12	4.42	3.9	3.07b	-	-	-

Max Cant + Twist
150-177mm
90% SWL
Locked




	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	4.68	3.74	-	-	-	-	-
6.0m	-	-	-	-	4.71	3.84	3.18	2.62	-	-	-
5.0m	-	-	-	-	4.57	3.75	3.13	2.64	2.2	-	-
4.0m	-	-	-	-	-	3.56	3	2.54	2.15	1.81	-
3.0m	-	-	-	-	-	-	2.82	2.4	2.05	1.76	-
2.0m	-	-	-	-	-	-	2.65	2.26	1.95	1.69	-
1.0m	-	-	-	-	-	-	2.5	2.15	1.86	1.63	-
0.0m	-	-	-	-	-	2.83	2.41	2.08	1.81	1.61	-
-1.0m	-	-	-	-	3.34	2.81	2.4	2.07	1.84	-	-
-2.0m	-	7.5	5.39	4.18	3.41	2.87	2.47	2.22	-	-	-

NETWORK RAIL DUTIES

SECTOR E

Road
87% SWL
Unlocked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m											
6.0m	-	-	-	-	6.00b	5.82b	5.73b	-	-	-	-
5.0m	-	-	-	-	5.30a	5.92b	5.67b	5.48b	4.9	-	-
4.0m	-	-	-	-	-	6.05a	5.97b	5.63b	4.88	4.12	-
3.0m	-	-	-	-	-	-	6.42b	5.72	4.78	4.08	-
2.0m	-	-	-	-	-	-	6.81	5.56	4.67	4.01	-
1.0m	-	-	-	-	-	-	6.63	5.43	4.58	3.94	-
0.0m	-	-	-	-	-	7.81b	6.51	5.34	4.52	3.91	-
-1.0m	-	-	-	-	8.08b	7.16b	6.35b	5.32	4.52	-	-
-2.0m	-	-	8.20b	7.42b	6.64b	5.87b	5.08b	4.07b	-	-	-

Level Rail

0-50mm


87% SWL

Unlocked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	6.29b	6.30b	-	-	-	-	-
6.0m	-	-	-	-	6.00b	5.80b	5.67b	5.67b	-	-	-
5.0m	-	-	-	-	5.20a	5.89a	5.71b	5.49b	5.36b	-	-
4.0m	-	-	-	-	-	6.26a	6.06b	5.69b	5.40b	5.18b	-
3.0m	-	-	-	-	-	-	6.52b	6.00b	5.58b	5.22b	-
2.0m	-	-	-	-	-	-	6.92b	6.26b	5.73b	5.27b	-
1.0m	-	-	-	-	-	-	7.07b	6.34b	5.72b	5.16b	-
0.0m	-	-	-	-	-	7.72b	6.85b	6.10b	5.43b	4.64b	-
-1.0m	-	-	-	-	7.83b	6.95b	6.15b	5.39b	4.49b	-	-
-2.0m	-	8.28b	7.65b	6.94b	6.21b	5.47b	4.64b	3.07b	-	-	-

Road
71% SWL
Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m											
6.0m	-	-	-	-	6.00b	5.63	4.85	-	-	-	-
5.0m	-	-	-	-	5.30a	5.58	4.84	4.24	3.73	-	-
4.0m	-	-	-	-	-	5.46	4.75	4.18	3.72	3.32	-
3.0m	-	-	-	-	-	-	4.63	4.1	3.66	3.29	-
2.0m	-	-	-	-	-	-	4.51	4	3.59	3.24	-
1.0m	-	-	-	-	-	-	4.4	3.92	3.53	3.2	-
0.0m	-	-	-	-	-	4.93	4.34	3.87	3.49	3.18	-
-1.0m	-	-	-	-	5.67	4.91	4.32	3.86	3.49	-	-
-2.0m	-	-	8.20b	6.76	5.7	4.93	4.35	3.91	-	-	-

Level Rail

0-50mm


87% SWL

Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	6.29b	6.30b	-	-	-	-	-
6.0m	-	-	-	-	6.00b	5.80b	5.67b	5.67b	-	-	-
5.0m	-	-	-	-	5.20a	5.89a	5.71b	5.49b	5.36b	-	-
4.0m	-	-	-	-	-	6.26a	6.06b	5.69b	5.40b	5.18b	-
3.0m	-	-	-	-	-	-	6.52b	6.00b	5.58b	5.22b	-
2.0m	-	-	-	-	-	-	6.92b	6.26b	5.73b	5.27b	-
1.0m	-	-	-	-	-	-	7.07b	6.34b	5.72b	5.16b	-
0.0m	-	-	-	-	-	7.72b	6.85b	6.10b	5.43b	4.64b	-
-1.0m	-	-	-	-	7.83b	6.95b	6.15b	5.39b	4.49b	-	-
-2.0m	-	8.28b	7.65b	6.94b	6.21b	5.47b	4.64b	3.07b	-	-	-

Canted Rail
50-150mm
87% SWL
Unlocked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	6.29b	6.30b	-	-	-	-	-
6.0m	-	-	-	-	6.00b	5.80b	5.67b	5.67b	-	-	-
5.0m	-	-	-	-	5.20a	5.89a	5.71b	5.49b	5.36b	-	-
4.0m	-	-	-	-	-	6.26a	6.06b	5.69b	5.40b	5.18b	-
3.0m	-	-	-	-	-	-	6.52b	6.00b	5.58b	5.22b	-
2.0m	-	-	-	-	-	-	6.92b	6.26b	5.73b	5.27b	-
1.0m	-	-	-	-	-	-	7.07b	6.34b	5.72b	5.16b	-
0.0m	-	-	-	-	-	7.72b	6.85b	6.10b	5.43b	4.64b	-
-1.0m	-	-	-	-	7.83b	6.95b	6.15b	5.39b	4.49b	-	-
-2.0m	-	8.28b	7.65b	6.94b	6.21b	5.47b	4.64b	3.07b	-	-	-

Max Cant + Twist
150-177mm


67% SWL

Unlocked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	2.44	1.96	-	-	-	-	-
6.0m	-	-	-	-	2.46	2.03	1.69	1.39	-	-	-
5.0m	-	-	-	-	2.37	1.97	1.66	1.4	1.18	-	-
4.0m	-	-	-	-	-	1.85	1.57	1.34	1.16	0.99	-
3.0m	-	-	-	-	-	-	1.45	1.26	1.1	0.96	-
2.0m	-	-	-	-	-	-	1.34	1.17	1.03	0.91	-
1.0m	-	-	-	-	-	-	1.25	1.1	0.98	0.88	-
0.0m	-	-	-	-	-	1.37	1.2	1.06	0.95	0.86	-
-1.0m	-	-	-	-	1.59	1.36	1.19	1.06	0.96	-	-
-2.0m	-	3.17	2.42	1.95	1.63	1.4	1.24	1.15	-	-	-

Canted Rail
50-150mm
87% SWL
Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	6.29b	6.30b	-	-	-	-	-
6.0m	-	-	-	-	6.00b	5.80b	5.67b	5.67b	-	-	-
5.0m	-	-	-	-	5.20a	5.89a	5.71b	5.49b	5.36b	-	-
4.0m	-	-	-	-	-	6.26a	6.06b	5.69b	5.40b	5.18b	-
3.0m	-	-	-	-	-	-	6.52b	6.00b	5.58b	5.22b	-
2.0m	-	-	-	-	-	-	6.92b	6.26b	5.73b	5.27b	-
1.0m	-	-	-	-	-	-	7.07b	6.34b	5.72b	5.16b	-
0.0m	-	-	-	-	-	7.72b	6.85b	6.10b	5.43b	4.64b	-
-1.0m	-	-	-	-	7.83b	6.95b	6.15b	5.39b	4.49b	-	-
-2.0m	-	8.28b	7.65b	6.94b	6.21b	5.47b	4.64b	3.07b	-	-	-

Max Cant + Twist
150-177mm

90% SWL

Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	4.68	3.74	-	-	-	-	-
6.0m	-	-	-	-	4.71	3.84	3.18	2.62	-	-	-
5.0m	-	-	-	-	4.57	3.75	3.13	2.64	2.2	-	-
4.0m	-	-	-	-	-	3.56	3	2.54	2.15	1.81	-
3.0m	-	-	-	-	-	-	2.82	2.4	2.05	1.76	-
2.0m	-	-	-	-	-	-	2.65	2.26	1.95	1.69	-
1.0m	-	-	-	-	-	-	2.5	2.15	1.86	1.63	-
0.0m	-	-	-	-	-	2.83	2.41	2.08	1.81	1.61	-
-1.0m	-	-	-	-	3.34	2.81	2.4	2.07	1.84	-	-
-2.0m	-	7.5	5.39	4.18	3.41	2.87	2.47	2.22	-	-	-

LUL DUTIES

SECTOR A

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
Road											
75% SWL					6.00b	5.82b	5.73b	-	-	-	-
Unlocked					5.30a	5.92b	5.67b	4.97	4.2	-	-
					6.05a	5.83	4.89	4.18	3.6	-	-
					-	5.65	4.77	4.1	3.57	-	-
					-	5.46	4.63	4	3.5	-	-
					-	5.3	4.51	3.91	3.44	-	-
					6.28	5.21	4.44	3.86	3.42	-	-
					7.85	6.25	5.18	4.42	3.86	-	-
			8.20b	7.42b	6.64b	5.87b	5.08b	4.07b	-	-	-



Level Rail

0-50mm

75% SWL

Unlocked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
Level Rail					6.29b	5.89	-	-	-	-	-
0-50mm					6.00b	5.80b	5.07	4.33	-	-	-
75% SWL					5.20a	5.89a	5.03	4.35	3.8	-	-
Unlocked					-	5.74	4.92	4.28	3.76	3.33	-
					-	4.77	4.17	3.69	3.29	-	-
					-	4.63	4.06	3.61	3.24	-	-
					-	4.52	3.98	3.55	3.19	-	-
					5.13	4.45	3.93	3.51	3.18	-	-
					6.03	5.12	4.44	3.92	3.53	-	-
		8.28b	7.65b	6.94b	6.09	5.17	4.5	3.07b	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
Road											
75% SWL					6.00b	5.82b	5.73b	-	-	-	-
Locked					5.30a	5.92b	5.67b	5.48b	5.18	-	-
					6.05a	5.97b	5.63b	5.15	4.35	-	-
					-	6.42b	5.93b	5.05	4.31	-	-
					-	6.85b	5.87	4.94	4.23	-	-
					-	7	5.73	4.83	4.17	-	-
					7.81b	6.88	5.64	4.77	4.13	-	-
					8.08b	7.16b	6.35b	5.60b	4.77	-	-
			8.20b	7.42b	6.64b	5.87b	5.08b	4.07b	-	-	-



Level Rail

0-50mm

75% SWL

Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
Level Rail					6.29b	6.30b	-	-	-	-	-
0-50mm					6.00b	5.80b	5.67b	5.67b	-	-	-
75% SWL					5.20a	5.89a	5.71b	5.49b	5.36b	-	-
Locked					-	6.26a	6.06b	5.69b	5.40b	5.18b	-
					-	6.52b	6.00b	5.58b	5.22b	-	-
					-	6.92b	6.26b	5.73b	5.27b	-	-
					-	7.07b	6.34b	5.72b	5.16b	-	-
					7.72b	6.85b	6.10b	5.43b	4.64b	-	-
					7.83b	6.95b	6.15b	5.39b	4.49b	-	-
			8.28b	7.65b	6.94b	6.21b	5.47b	4.64b	3.07b	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
Canted Rail					5.47	4.49	-	-	-	-	-
50-150mm					5.5	4.57	3.87	3.29	-	-	-
75% SWL					5.20a	4.5	3.83	3.31	2.87	-	-
Unlocked					-	4.35	3.72	3.23	2.84	2.5	-
					-	3.58	3.13	2.77	2.46	-	-
					-	3.44	3.03	2.69	2.41	-	-
					-	3.34	2.95	2.63	2.36	-	-
					3.76	3.28	2.9	2.59	2.35	-	-
					4.4	3.75	3.26	2.89	2.61	-	-
		8.28b	6.8	5.39	4.45	3.8	3.32	3	-	-	-



Max Cant + Twist

150-177mm

75% SWL

Unlocked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
Max Cant + Twist					2.73	2.2	-	-	-	-	-
150-177mm					2.76	2.27	1.89	1.56	-	-	-
75% SWL					2.65	2.2	1.85	1.57	1.32	-	-
Unlocked					-	2.07	1.75	1.5	1.29	1.11	-
					-	1.63	1.41	1.23	1.07	-	-
					-	1.5	1.31	1.16	1.02	-	-
					-	1.4	1.24	1.1	0.98	-	-
					1.54	1.34	1.19	1.07	0.97	-	-
					1.78	1.53	1.33	1.19	1.08	-	-
		3.54	2.71	2.19	1.83	1.57	1.38	1.28	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
Canted Rail					6.29b	5.95	-	-	-	-	-
50-150mm					6.00b	5.80b	5.07	4.31	-	-	-
75% SWL					5.20a	5.89a	5.03	4.32	3.75	-	-
Locked					-	5.79	4.91	4.25	3.71	3.27	-
					-	4.76	4.14	3.64	3.23	-	-
					-	4.61	4.02	3.55	3.17	-	-
					-	4.49	3.93	3.49	3.12	-	-
					5.14	4.43	3.88	3.45	3.11	-	-
					6.11	5.13	4.41	3.88	3.47	-	-
		8.28b	7.65b	6.94b	6.17	5.18	4.47	3.07b	-	-	-



Max Cant + Twist

150-177mm

75% SWL

Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
Max Cant + Twist					3.9	3.12	-	-	-	-	-
150-177mm					3.93	3.2	2.65	2.19	-	-	-
75% SWL					3.81	3.12	2.61	2.21	1.87	-	-
Locked					-	2.96	2.5	2.13	1.84	1.58	-
					-	2.35	2.03	1.77	1.54	-	-
					-	2.21	1.92	1.69	1.49	-	-
					-	2.1	1.84	1.62	1.45	-	-
					2.36	2.04	1.79	1.59	1.43	-	-
					2.78	2.34	2.02	1.78	1.6	-	-
		6.25	4.49	3.48	2.84	2.39	2.08	1.89	-	-	-

LUL DUTIES

SECTOR B

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
Road											
75% SWL					4.01	3.34	2.82	-	-	-	-
Unlocked					3.93	3.29	2.8	2.41	2.07	-	-
					3.17	2.71	2.35	2.05	1.79	-	-
					-	2.59	2.26	1.99	1.76	-	-
					-	2.45	2.16	1.92	1.71	-	-
					-	2.34	2.08	1.85	1.67	-	-
					2.6	2.28	2.02	1.81	1.65	-	-
					2.99	2.57	2.26	2.01	1.81	-	-
			4.48	3.62	3.03	2.61	2.29	2.06	-	-	-



Level Rail

0-50mm

75% SWL

Unlocked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
Level Rail					3.61	2.95	-	-	-	-	-
0-50mm					3.64	3.02	2.54	2.14	-	-	-
75% SWL					3.53	2.95	2.51	2.15	1.85	-	-
Unlocked					2.81	2.41	2.08	1.81	1.58	-	-
					-	2.27	1.99	1.75	1.54	-	-
					-	2.14	1.89	1.67	1.49	-	-
					-	2.04	1.81	1.61	1.45	-	-
					2.27	1.99	1.76	1.58	1.44	-	-
					2.63	2.26	1.98	1.76	1.59	-	-
		5.2	3.97	3.2	2.68	2.3	2.03	1.86	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
Road											
75% SWL					5.63	4.81	4.16	-	-	-	-
Locked					5.30a	4.77	4.15	3.65	3.22	-	-
					4.65	4.07	3.59	3.2	2.85	-	-
					-	3.95	3.51	3.14	2.83	-	-
					-	3.82	3.41	3.07	2.78	-	-
					-	3.72	3.33	3.01	2.74	-	-
					4.12	3.66	3.28	2.97	2.72	-	-
					4.7	4.1	3.64	3.27	2.97	-	-
			6.67	5.54	4.73	4.13	3.67	3.32	-	-	-



Level Rail

0-50mm

75% SWL

Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
Level Rail					4.94	4	-	-	-	-	-
0-50mm					4.97	4.08	3.41	2.86	-	-	-
75% SWL					4.85	4	3.37	2.88	2.47	-	-
Locked					3.84	3.26	2.81	2.44	2.13	-	-
					-	3.11	2.7	2.37	2.09	-	-
					-	2.97	2.59	2.29	2.03	-	-
					-	2.86	2.51	2.22	1.99	-	-
					3.23	2.79	2.46	2.19	1.98	-	-
					3.81	3.22	2.78	2.45	2.2	-	-
		8.28b	6.1	4.74	3.87	3.27	2.84	2.56	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
Canted Rail											
50-150mm					3.11	2.52	-	-	-	-	-
75% SWL					3.13	2.59	2.17	1.81	-	-	-
Unlocked					3.03	2.53	2.13	1.82	1.55	-	-
					2.39	2.04	1.75	1.52	1.31	-	-
					-	1.91	1.66	1.45	1.27	-	-
					-	1.78	1.56	1.38	1.22	-	-
					-	1.68	1.48	1.32	1.18	-	-
					1.85	1.62	1.44	1.29	1.17	-	-
					2.14	1.84	1.61	1.43	1.3	-	-
		4.25	3.25	2.62	2.19	1.88	1.66	1.53	-	-	-



**Max Cant + Twist
150-177mm**

75% SWL

Unlocked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
Max Cant + Twist 150-177mm					2.73	2.2	-	-	-	-	-
75% SWL					2.76	2.27	1.89	1.56	-	-	-
Unlocked					2.65	2.2	1.85	1.57	1.32	-	-
					2.07	1.75	1.5	1.29	1.11	-	-
					-	1.63	1.41	1.23	1.07	-	-
					-	1.5	1.31	1.16	1.02	-	-
					-	1.4	1.24	1.1	0.98	-	-
					1.54	1.34	1.19	1.07	0.97	-	-
					1.78	1.53	1.33	1.19	1.08	-	-
		3.54	2.71	2.19	1.83	1.57	1.38	1.28	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
Canted Rail											
50-150mm					4.21	3.41	-	-	-	-	-
75% SWL					4.24	3.49	2.91	2.44	-	-	-
Locked					4.13	3.41	2.88	2.45	2.1	-	-
					-	3.26	2.77	2.38	2.07	1.8	-
					-	2.63	2.28	2	1.76	-	-
					-	2.49	2.18	1.92	1.71	-	-
					-	2.38	2.09	1.86	1.66	-	-
					2.67	2.32	2.04	1.82	1.65	-	-
					3.13	2.66	2.31	2.04	1.84	-	-
		6.72	4.93	3.88	3.19	2.71	2.36	2.14	-	-	-



**Max Cant + Twist
150-177mm**

75% SWL

Locked




	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
Max Cant + Twist 150-177mm					3.9	3.12	-	-	-	-	-
75% SWL					3.93	3.2	2.65	2.19	-	-	-
Locked					3.81	3.12	2.61	2.21	1.87	-	-
					-	2.96	2.5	2.13	1.84	1.58	-
					-	2.35	2.03	1.77	1.54	-	-
					-	2.21	1.92	1.69	1.49	-	-
					-	2.1	1.84	1.62	1.45	-	-
					2.36	2.04	1.79	1.59	1.43	-	-
					2.78	2.34	2.02	1.78	1.6	-	-
		6.25	4.49	3.48	2.84	2.39	2.08	1.89	-	-	-

LUL DUTIES


SECTOR C

Road
75% SWL
Unlocked




	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m											
6.0m	-	-	-	-	4.01	3.34	2.82	-	-	-	-
5.0m	-	-	-	-	3.93	3.29	2.8	2.41	2.07	-	-
4.0m	-	-	-	-	-	3.17	2.71	2.35	2.05	1.79	-
3.0m	-	-	-	-	-	-	2.59	2.26	1.99	1.76	-
2.0m	-	-	-	-	-	-	2.45	2.16	1.92	1.71	-
1.0m	-	-	-	-	-	-	2.34	2.08	1.85	1.67	-
0.0m	-	-	-	-	-	2.6	2.28	2.02	1.81	1.65	-
-1.0m	-	-	-	-	2.99	2.57	2.26	2.01	1.81	-	-
-2.0m	-	-	4.48	3.62	3.03	2.61	2.29	2.06	-	-	-

Level Rail
0-50mm
75% SWL
Unlocked




	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	3.11	2.55	-	-	-	-	-
6.0m	-	-	-	-	3.14	2.62	2.21	1.86	-	-	-
5.0m	-	-	-	-	3.04	2.56	2.18	1.87	1.61	-	-
4.0m	-	-	-	-	-	2.42	2.08	1.81	1.58	1.37	-
3.0m	-	-	-	-	-	-	1.96	1.72	1.51	1.34	-
2.0m	-	-	-	-	-	-	1.84	1.62	1.44	1.29	-
1.0m	-	-	-	-	-	-	1.74	1.55	1.39	1.25	-
0.0m	-	-	-	-	-	1.92	1.69	1.5	1.35	1.24	-
-1.0m	-	-	-	-	2.2	1.9	1.68	1.5	1.37	-	-
-2.0m	-	4.14	3.24	2.66	2.25	1.95	1.72	1.59	-	-	-

Road
75% SWL
Locked




	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m											
6.0m	-	-	-	-	5.63	4.81	4.16	-	-	-	-
5.0m	-	-	-	-	5.30a	4.77	4.15	3.65	3.22	-	-
4.0m	-	-	-	-	-	4.65	4.07	3.59	3.2	2.85	-
3.0m	-	-	-	-	-	-	3.95	3.51	3.14	2.83	-
2.0m	-	-	-	-	-	-	3.82	3.41	3.07	2.78	-
1.0m	-	-	-	-	-	-	3.72	3.33	3.01	2.74	-
0.0m	-	-	-	-	-	4.12	3.66	3.28	2.97	2.72	-
-1.0m	-	-	-	-	4.7	4.1	3.64	3.27	2.97	-	-
-2.0m	-	-	6.67	5.54	4.73	4.13	3.67	3.32	-	-	-

Level Rail
0-50mm
75% SWL
Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	4.41	3.57	-	-	-	-	-
6.0m	-	-	-	-	4.43	3.65	3.06	2.57	-	-	-
5.0m	-	-	-	-	4.32	3.58	3.02	2.58	2.22	-	-
4.0m	-	-	-	-	-	3.43	2.91	2.51	2.18	1.9	-
3.0m	-	-	-	-	-	-	2.77	2.41	2.11	1.86	-
2.0m	-	-	-	-	-	-	2.63	2.3	2.04	1.81	-
1.0m	-	-	-	-	-	-	2.52	2.22	1.97	1.77	-
0.0m	-	-	-	-	-	2.84	2.46	2.17	1.94	1.75	-
-1.0m	-	-	-	-	3.33	2.82	2.45	2.17	1.95	-	-
-2.0m	-	7.11	5.22	4.11	3.38	2.87	2.5	2.27	-	-	-

Canted Rail
50-150mm
75% SWL
Unlocked




	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	2.86	2.3	-	-	-	-	-
6.0m	-	-	-	-	2.89	2.37	1.97	1.62	-	-	-
5.0m	-	-	-	-	2.78	2.3	1.93	1.63	1.38	-	-
4.0m	-	-	-	-	-	2.16	1.83	1.57	1.35	1.15	-
3.0m	-	-	-	-	-	-	1.7	1.47	1.28	1.12	-
2.0m	-	-	-	-	-	-	1.57	1.37	1.21	1.07	-
1.0m	-	-	-	-	-	-	1.47	1.29	1.15	1.02	-
0.0m	-	-	-	-	-	1.62	1.41	1.25	1.12	1.01	-
-1.0m	-	-	-	-	1.88	1.61	1.4	1.24	1.13	-	-
-2.0m	-	3.83	2.9	2.32	1.93	1.65	1.45	1.34	-	-	-

Max Cant + Twist
150-177mm
75% SWL
Unlocked




	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	2.73	2.2	-	-	-	-	-
6.0m	-	-	-	-	2.76	2.27	1.89	1.56	-	-	-
5.0m	-	-	-	-	2.65	2.2	1.85	1.57	1.32	-	-
4.0m	-	-	-	-	-	2.07	1.75	1.5	1.29	1.11	-
3.0m	-	-	-	-	-	-	1.63	1.41	1.23	1.07	-
2.0m	-	-	-	-	-	-	1.5	1.31	1.16	1.02	-
1.0m	-	-	-	-	-	-	1.4	1.24	1.1	0.98	-
0.0m	-	-	-	-	-	1.54	1.34	1.19	1.07	0.97	-
-1.0m	-	-	-	-	1.78	1.53	1.33	1.19	1.08	-	-
-2.0m	-	3.54	2.71	2.19	1.83	1.57	1.38	1.28	-	-	-

Canted Rail
50-150mm
75% SWL
Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	3.99	3.19	-	-	-	-	-
6.0m	-	-	-	-	4.01	3.27	2.71	2.25	-	-	-
5.0m	-	-	-	-	3.89	3.19	2.67	2.26	1.92	-	-
4.0m	-	-	-	-	-	3.04	2.56	2.19	1.89	1.63	-
3.0m	-	-	-	-	-	-	2.42	2.08	1.82	1.59	-
2.0m	-	-	-	-	-	-	2.27	1.98	1.74	1.54	-
1.0m	-	-	-	-	-	-	2.16	1.89	1.67	1.49	-
0.0m	-	-	-	-	-	2.43	2.1	1.84	1.64	1.48	-
-1.0m	-	-	-	-	2.87	2.42	2.09	1.84	1.65	-	-
-2.0m	-	6.43	4.62	3.59	2.92	2.47	2.14	1.95	-	-	-

Max Cant + Twist
150-177mm
75% SWL
Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	3.9	3.12	-	-	-	-	-
6.0m	-	-	-	-	3.93	3.2	2.65	2.19	-	-	-
5.0m	-	-	-	-	3.81	3.12	2.61	2.21	1.87	-	-
4.0m	-	-	-	-	-	2.96	2.5	2.13	1.84	1.58	-
3.0m	-	-	-	-	-	-	2.35	2.03	1.77	1.54	-
2.0m	-	-	-	-	-	-	2.21	1.92	1.69	1.49	-
1.0m	-	-	-	-	-	-	2.1	1.84	1.62	1.45	-
0.0m	-	-	-	-	-	2.36	2.04	1.79	1.59	1.43	-
-1.0m	-	-	-	-	2.78	2.34	2.02	1.78	1.6	-	-
-2.0m	-	6.25	4.49	3.48	2.84	2.39	2.08	1.89	-	-	-

LUL DUTIES

SECTOR E

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
Road											
75% SWL					6.00b	5.82b	5.73b	-	-	-	-
Unlocked					5.30a	5.92b	5.67b	5.48b	5.18	-	-
					6.05a	5.97b	5.63b	5.15	4.35	-	-
					-	6.42b	5.93b	5.05	4.31	-	-
					-	-	6.85b	5.87	4.94	4.23	-
					-	-	-	7	5.73	4.83	4.17
					-	7.81b	6.88	5.64	4.77	4.13	-
					-	8.08b	7.16b	6.35b	5.60b	4.77	-
					-	8.20b	7.42b	6.64b	5.87b	5.08b	4.07b



Level Rail

0-50mm

75% SWL

Unlocked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
Level Rail					6.29b	6.30b	-	-	-	-	-
0-50mm					6.00b	5.80b	5.67b	5.67b	-	-	-
75% SWL					5.20a	5.89a	5.71b	5.49b	5.36b	-	-
Unlocked					-	6.26a	6.06b	5.69b	5.40b	5.18b	-
					-	-	6.52b	6.00b	5.58b	5.22b	-
					-	-	-	6.92b	6.26b	5.73b	5.27b
					-	-	-	-	7.07b	6.34b	5.72b
					-	-	-	-	7.72b	6.85b	6.10b
					-	-	-	-	7.83b	6.95b	6.15b
					-	-	-	-	8.28b	7.65b	6.94b

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
Road											
75% SWL					6.00b	5.82b	5.12	-	-	-	-
Locked					5.30a	5.9	5.11	4.48	3.94	-	-
					-	5.77	5.02	4.42	3.93	3.5	-
					-	-	4.89	4.33	3.87	3.47	-
					-	-	-	4.76	4.23	3.79	3.43
					-	-	-	4.65	4.14	3.73	3.38
					-	5.2	4.58	4.09	3.69	3.36	-
					-	5.99	5.18	4.56	4.08	3.69	-
					-	8.20b	7.14	6.03	5.21	4.6	4.07b



Level Rail

0-50mm

75% SWL

Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
Level Rail					6.29b	6.30b	-	-	-	-	-
0-50mm					6.00b	5.80b	5.67b	5.67b	-	-	-
75% SWL					5.20a	5.89a	5.71b	5.49b	5.36b	-	-
Locked					-	6.26a	6.06b	5.69b	5.40b	5.18b	-
					-	-	6.52b	6.00b	5.58b	5.22b	-
					-	-	-	6.92b	6.26b	5.73b	5.27b
					-	-	-	-	7.07b	6.34b	5.72b
					-	-	-	-	7.72b	6.85b	6.10b
					-	-	-	-	7.83b	6.95b	6.15b
					-	-	-	-	8.28b	7.65b	6.94b

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
Canted Rail					6.29b	6.30b	-	-	-	-	-
50-150mm					6.00b	5.80b	5.67b	5.67b	-	-	-
75% SWL					5.20a	5.89a	5.71b	5.49b	5.36b	-	-
Unlocked					-	6.26a	6.06b	5.69b	5.40b	5.18b	-
					-	-	6.52b	6.00b	5.58b	5.22b	-
					-	-	6.92b	6.26b	5.73b	5.27b	-
					-	-	7.07b	6.34b	5.72b	5.16b	-
					-	7.72b	6.85b	6.10b	5.43b	4.64b	-
					-	7.83b	6.95b	6.15b	5.39b	4.49b	-
					-	8.28b	7.65b	6.94b	6.21b	5.47b	4.64b



Max Cant + Twist

150-177mm

75% SWL

Unlocked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
Max Cant + Twist					2.73	2.2	-	-	-	-	-
150-177mm					2.76	2.27	1.89	1.56	-	-	-
75% SWL					2.65	2.2	1.85	1.57	1.32	-	-
Unlocked					-	2.07	1.75	1.5	1.29	1.11	-
					-	-	1.63	1.41	1.23	1.07	-
					-	-	-	1.5	1.31	1.16	1.02
					-	-	-	-	1.4	1.24	1.1
					-	-	-	-	1.54	1.34	1.19
					-	-	-	-	1.78	1.53	1.33
					-	-	-	-	3.54	2.71	2.19

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
Canted Rail					6.29b	6.30b	-	-	-	-	-
50-150mm					6.00b	5.80b	5.67b	5.67b	-	-	-
75% SWL					5.20a	5.89a	5.71b	5.49b	5.36b	-	-
Locked					-	6.26a	6.06b	5.69b	5.40b	5.18b	-
					-	-	6.52b	6.00b	5.58b	5.22b	-
					-	-	6.92b	6.26b	5.73b	5.27b	-
					-	-	7.07b	6.34b	5.72b	5.16b	-
					-	7.72b	6.85b	6.10b	5.43b	4.64b	-
					-	7.83b	6.95b	6.15b	5.39b	4.49b	-
					-	8.28b	7.65b	6.94b	6.21b	5.47b	4.64b



Max Cant + Twist

150-177mm

75% SWL

Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
Max Cant + Twist					3.9	3.12	-	-	-	-	-
150-177mm					3.93	3.2	2.65	2.19	-	-	-
75% SWL					3.81	3.12	2.61	2.21	1.87	-	-
Locked					-	2.96	2.5	2.13	1.84	1.58	-
					-	-	2.35	2.03	1.77	1.54	-
					-	-	-	2.21	1.92	1.69	1.49
					-	-	-	-	2.1	1.84	1.62
					-	-	-	-	2.36	2.04	1.79
					-	-	-	-	2.78	2.34	2.02
					-	-	-	-	6.25	4.49	3.48