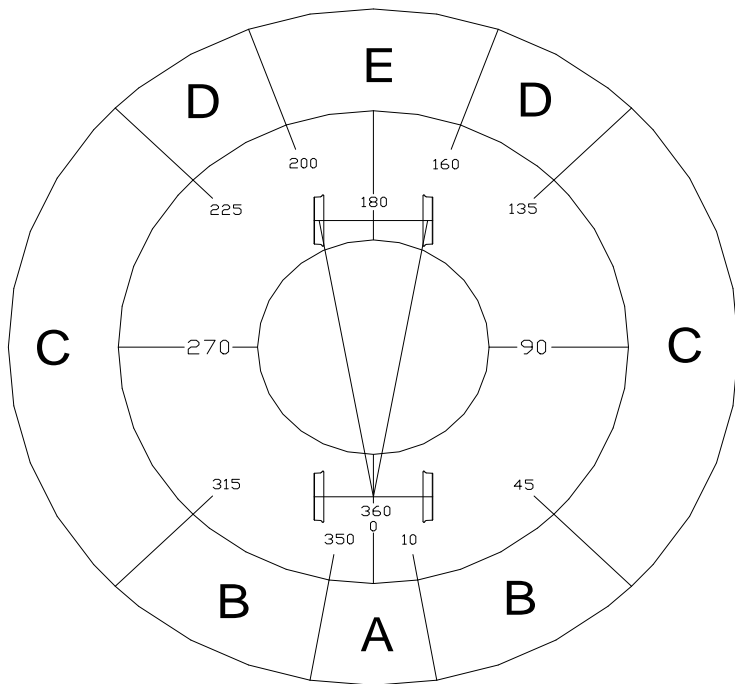


MEGARAILER

by REXQUOTE

Broadgauge Business Park
Bishops Lydeard, Somerset. TA4 3RU
TEL:01823 433398 FAX:01823 433725
e-mail: sales@rexquote.co.uk Web: www.rexquote.co.uk

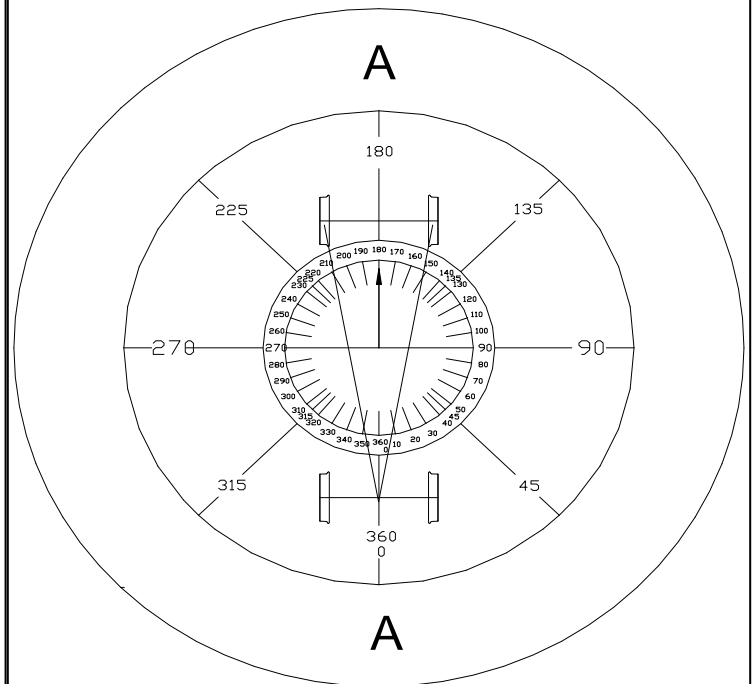
Fixed Axle



Oscillating Axle

**ROAD DUTIES,
 LEVEL RAIL 0 - 50mm &
 CANTED RAIL 50 - 150mm**

Fixed Axle



Oscillating Axle

**MAXIMUM CANT + TWIST
 150 + 25mm**

Machine fitted with Standard Arm and Quickhitch

Machine Type: Volvo EW180BR
 Serial Number: 8741011
 Rail Axle Number: 1975
 Equipment: Boom 2.06m Artic 3.02m Arm 2.0m
 Date: 15th March 2013
 Issue: 1
 Software Version: V2.17.12.00

This machine is equipped with a Rexquote Rated Capacity Indicator. This system is designed to comply with RAILWAY SAFETY STANDARD RIS-1530-PLT Issue 2

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.

All rail duties listed are valid for use on up to a 1:25 gradient, and with a maximum track twist of 25mm.

NETWORK RAIL DUTIES
QUICKHITCH ONLY
SECTOR A 0° - 10° & 350° - 360°

LOWER SAFE WORKING LOADS

UPPER SAFE WORKING LOADS

1aU
 Road
 Unlocked
 71% SWL

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	2.93a	-	-	-	-	-	-
6.0m	-	-	-	-	-	3.03b	2.58b	2.74a	-	-	-	-
5.0m	-	-	-	-	3.53b	2.99b	2.57b	2.29b	2.51a	2.4	-	-
4.0m	-	-	4.96a	4.10b	3.44b	2.93b	2.53b	2.21b	2.67b	2.38	2.13	-
3.0m	-	-	4.86b	3.99b	3.36b	2.88b	2.50b	2.20b	2.61	2.34	2.1	-
2.0m	7.07a	6.08b	4.81b	3.95b	3.33b	2.86b	2.50b	2.74b	2.56	2.3	2.07	1.88
1.0m	5.28a	5.16a	5.40a	4.74b	4.01b	3.58	3.15	2.8	2.51	2.26	2.04	-
0.0m	6.11a	5.32a	5.18a	4.89	4.12	3.55	3.11	2.76	2.48	2.23	2.03	-
-1.0m	8.91a	7.74	6.03	4.91	4.12	3.55	3.11	2.75	2.47	2.23	-	-
-2.0m	10	7.79	6.09	4.96	4.16	3.57	3.13	2.77	2.49	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	-	-	-	3.37b	-	-	-
6.0m	-	-	-	-	-	-	-	-	3.21b	3.21b	3.1	-
5.0m	-	-	-	-	-	3.63b	3.51b	3.47b	3.09	2.74	2.41	-
4.0m	-	-	5.30a	5.03a	4.62	3.97	3.47	3.07b	2.74	2.41	2.13	-
3.0m	-	-	6.00b	5.37b	4.55	3.93	3.44b	3.04	2.73	2.4	2.12	-
2.0m	7.07a	8.23	6.49	5.34	4.52b	3.90b	3.42b	3.05	2.69	2.38	2.1	1.88
1.0m	7.59a	8.24	6.52	5.36b	4.54	3.93	3.45	3.02	2.65	2.34	2.07	-
0.0m	10	8.09	6.42	5.3	4.49	3.87	3.38	2.95	2.58	2.29	2.05	-
-1.0m	10	8.04	6.35	5.22	4.42	3.8	3.28	2.88	2.53	2.25	-	-
-2.0m	10	8.05	6.36	5.21	4.36	3.73	3.22	2.83	2.51	-	-	-

1aL
 Road
 Locked
 Below
 71% SWL

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	2.93a	-	-	-	-	-	-
6.0m	-	-	-	-	-	3.04b	2.58b	2.74a	-	-	-	-
5.0m	-	-	-	-	3.53b	2.99b	2.57b	2.29b	2.51a	2.53a	-	-
4.0m	-	-	4.96a	4.10b	3.44b	2.93b	2.53b	2.21b	2.67b	2.70a	2.49a	-
3.0m	-	-	4.86b	3.99b	3.36b	2.88b	2.50b	2.20b	2.78b	2.38a	2.73a	-
2.0m	7.07a	6.08b	4.81b	3.95b	3.33b	2.86b	2.50b	2.74b	2.58a	2.49a	2.79a	2.41a
1.0m	5.28a	5.16a	5.40a	4.74b	4.01b	3.62b	3.53b	3.02a	2.87a	2.88a	3.02a	-
0.0m	6.10a	5.32a	5.18a	5.30a	5.67b	5.05b	4.58a	3.30a	3.99a	3.26a	2.99a	-
-1.0m	8.91a	8.34a	8.43a	7.55b	6.84b	6.12b	5.47a	4.10a	4.27a	3.87a	-	-
-2.0m	10	10	8.87b	7.30b	6.18b	5.50b	4.97b	4.43b	3.89b	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	-	-	-	3.38b	-	-	-
6.0m	-	-	-	-	-	-	-	-	3.21b	3.21b	3.24b	-
5.0m	-	-	-	-	-	3.63b	3.51b	3.47b	3.35b	3.29b	2.84a	-
4.0m	-	-	5.30a	5.03a	4.64b	4.22b	3.95b	3.72b	3.52b	3.41b	2.82a	-
3.0m	-	-	6.00b	6.22b	5.95b	5.11b	4.55b	4.18b	3.88b	3.65b	3.49b	-
2.0m	7.07a	8.28b	8.01b	7.47b	6.92b	5.94b	5.16b	4.64b	4.20b	3.89b	3.66b	2.41a
1.0m	7.59a	10	9.48b	8.43b	7.40b	6.38b	5.56b	4.95b	4.47b	4.09b	3.78b	-
0.0m	10	10	10	8.77b	7.44b	6.45b	5.68b	5.07b	4.57b	4.16b	3.78b	-
-1.0m	10	10	10	8.86b	7.52b	6.52b	5.75b	5.15b	4.63b	4.06b	-	-
-2.0m	10	10	10	9.09b	7.72b	6.62b	5.72b	4.91b	4.01b	-	-	-

2aU
 Level Rail
 0-50mm
 Unlocked
 67% SWL

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	3.02b	2.58a	-	-	-	-	-
6.0m	-	-	-	-	-	3.03b	2.58b	2.75a	2.44	-	-	-
5.0m	-	-	-	-	3.52b	2.98b	2.56b	2.22b	2.44	2.18	-	-
4.0m	-	-	4.98b	4.08b	3.42b	2.92b	2.52b	2.21b	2.24a	2.16	1.95	-
3.0m	-	-	4.84b	3.98b	3.35b	2.87b	2.50b	2.21b	2.35	2.12	1.92	-
2.0m	-	6.08b	4.81b	3.95b	3.33b	2.86b	2.58b	2.55	2.3	2.08	1.89	-
1.0m	5.44a	5.08a	4.99	4.16	3.55	3.13	2.78	2.5	2.26	2.05	1.87	-
0.0m	6.19a	5.34a	4.93	4.12	3.54	3.11	2.76	2.47	2.24	2.03	1.86	-
-1.0m	7.79	6.08	4.94	4.14	3.55	3.11	2.76	2.47	2.23	2.04	-	-
-2.0m	7.84	6.13	4.99	4.19	3.59	3.13	2.78	2.49	2.26	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	-	3.30b	2.98a	-	-	-	-
6.0m	-	-	-	-	-	-	3.21b	3.14	2.78	2.45	-	-
5.0m	-	-	-	-	3.74a	3.53	3.11	2.77	2.47	2.19	-	-
4.0m	-	-	5.48	4.63b	3.99	3.49	3.08	2.75	2.47	2.19	1.95	-
3.0m	-	-	5.39	4.56	3.94	3.45b	3.06	2.74	2.46	2.18	1.95	-
2.0m	-	6.56	5.38	4.55	3.92	3.44	3.06	2.75	2.43	2.15	1.93	-
1.0m	8.03	6.42	5.33	4.54	3.92	3.44	3.03	2.69	2.38	2.11	1.9	-
0.0m	7.98	6.33	5.23	4.43	3.83	3.36	2.97	2.62	2.32	2.08	1.87	-
-1.0m	7.98	6.29	5.19	4.39	3.79	3.31	2.9	2.56	2.28	2.05	-	-
-2.0m	8.01	6.31	5.2	4.37	3.73	3.24	2.85	2.53	2.26	-	-	-

2aL
 Level Rail
 0-50mm
 Locked
 75% SWL

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	3.02b	2.58a	-	-	-	-	-
6.0m	-	-	-	-	-	3.03b	2.58b	2.75a	2.55a	-	-	-
5.0m	-	-	-	-	3.52b	2.98b	2.56b	2.22b	2.52a	2.62a	-	-
4.0m	-	-	4.98b	4.08b	3.42b	2.92b	2.52b	2.21b	2.24a	2.75a	2.64a	-
3.0m	-	-	4.84b	3.98b	3.35b	2.87b	2.50b	2.21b	2.83b	2.52a	2.38a	-
2.0m	-	6.08b	4.81b	3.95b	3.33b	2.86b	2.58b	2.87b	2.73a	2.77a	2.46a	-
1.0m	5.44a	5.08a	5.16a	5.07b	4.29b	3.87b	3.74b	3.10a	3.23a	3.01	2.73	-
0.0m	6.18a	5.33a	5.15a	5.86a	5.58	4.79	4.19	3.71	3.32	2.99	2.72	-
-1.0m	9.69a	9.29a	8.33	6.7	5.6	4.79	4.18	3.7	3.31	3	-	-
-2.0m	10	10	8.4	6.77	5.65	4.83	4.21	3.73	3.35	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	-	3.30b	2.98a	-	-	-	-
6.0m	-	-	-	-	-	-	3.21b	3.28b	3.25b	2.86a	-	-
5.0m	-	-	-	-	3.74a	3.66b	3.53b	3.41b	3.34b	3.11a	-	-
4.0m	-	-	5.50b	5.57b	4.89b	4.36b	4.00b	3.77b	3.53	3.18	2.83	-
3.0m	-	-	6.23b	6.39b	5.89	5.07	4.43b	3.92	3.51	3.17	2.82	-
2.0m	-	8.58b	8.22b	6.99	5.87	5.05	4.41	3.91	3.51	3.14	2.79	-
1.0m	8.39a	10	8.66b	7.03	5.89	5.07	4.43b	3.95	3.49	3.09	2.77	-
0.0m	10	10	8.75	7.11	5.97b	5.13	4.46	3.9	3.43	3.05	2.73	-
-1.0m	10	10	8.69	7.05	5.92	5.07	4.37	3.82	3.37	3.01	-	-
-2.0m	10	10	8.7	7.03	5.84	4.97	4.3	3.78	3.35	-	-	-

NETWORK RAIL DUTIES
QUICKHITCH ONLY
SECTOR A 0° - 10° & 350° - 360°

LOWER SAFE WORKING LOADS

UPPER SAFE WORKING LOADS

3aU

**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	7.5m
7.0m	-	-	-	-	-	2.77	2.38	-	-	-	-	-
6.0m	-	-	-	-	-	2.78	2.4	2.1	1.84	-	-	-
5.0m	-	-	-	-	3.16	2.72	2.36	2.07	1.83	1.62	-	-
4.0m	-	-	4.27	3.52	3.01	2.61	2.29	2.02	1.79	1.6	1.43	-
3.0m	-	-	4.12	3.37	2.83	2.49	2.19	1.95	1.74	1.56	1.4	-
2.0m	-	4.9	3.92	3.23	2.71	2.38	2.11	1.88	1.69	1.52	1.37	-
1.0m	5.44a	4.69	3.77	3.12	2.64	2.32	2.05	1.83	1.65	1.49	1.35	-
0.0m	5.99	4.63	3.72	3.08	2.63	2.29	2.03	1.81	1.63	1.47	1.34	-
-1.0m	5.97	4.62	3.72	3.09	2.64	2.29	2.03	1.81	1.62	1.47	-	-
-2.0m	6.02	4.67	3.77	3.14	2.68	2.32	2.05	1.83	1.65	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	2.78	2.39	-	-	-	-	-
6.0m	-	-	-	-	-	2.78	2.43	2.11	1.84	-	-	-
5.0m	-	-	-	-	3.17	2.75	2.42	2.14	1.86	1.63	-	-
4.0m	-	-	4.31	3.63	3.12	2.71	2.39	2.13	1.87	1.63	1.43	-
3.0m	-	-	4.23	3.57	3.07	2.69	2.38	2.13	1.85	1.62	1.42	-
2.0m	-	5.13	4.21	3.55	3.06	2.68	2.37	2.09	1.82	1.59	1.4	-
1.0m	6.21	4.96	4.11	3.49	3.01	2.62	2.3	2.03	1.77	1.55	1.38	-
0.0m	6.15	4.86	4.01	3.39	2.92	2.55	2.24	1.96	1.72	1.52	1.35	-
-1.0m	6.15	4.83	3.97	3.34	2.87	2.5	2.17	1.9	1.67	1.48	-	-
-2.0m	6.19	4.85	3.98	3.33	2.82	2.43	2.12	1.87	1.65	-	-	-

3aL

**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	7.5m
7.0m	-	-	-	-	-	3.02b	2.58a	-	-	-	-	-
6.0m	-	-	-	-	-	3.03b	2.59b	2.75a	2.55a	-	-	-
5.0m	-	-	-	-	3.52b	2.98b	2.56b	2.22b	2.52a	2.36	-	-
4.0m	-	-	4.98b	4.08b	3.42b	2.92b	2.52b	2.21b	2.24a	2.33	2.09	-
3.0m	-	-	4.84b	3.98b	3.35b	2.87b	2.50b	2.21b	2.54	2.28	2.06	-
2.0m	-	6.09b	4.81b	3.95b	3.33b	2.86b	2.58b	2.76	2.48	2.24	2.03	-
1.0m	5.44a	5.07a	5.16a	4.63	3.91	3.42	3.03	2.71	2.44	2.21	2	-
0.0m	6.18a	5.33a	5.14a	4.58	3.9	3.4	3	2.68	2.41	2.18	1.99	-
-1.0m	9.12	6.95	5.56	4.6	3.91	3.4	3	2.67	2.41	2.19	-	-
-2.0m	9.18	7.01	5.62	4.66	3.96	3.43	3.02	2.7	2.44	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	3.30b	2.98a	-	-	-	-	-
6.0m	-	-	-	-	-	3.21b	3.28b	3.02	2.65	-	-	-
5.0m	-	-	-	-	3.75a	3.66b	3.4	3.01	2.68	2.36	-	-
4.0m	-	-	5.50b	5.14	4.39	3.82	3.36	2.99	2.68	2.37	2.1	-
3.0m	-	-	6.04	5.06b	4.33	3.77	3.33	2.97	2.67	2.36	2.09	-
2.0m	-	7.46	6.03	5.04	4.32	3.76	3.32	2.98	2.63	2.32	2.07	-
1.0m	8.39a	7.37	6.03	5.07b	4.34	3.79	3.32	2.93	2.58	2.28	2.03	-
0.0m	9.35	7.25	5.9	4.95	4.25	3.7	3.25	2.85	2.51	2.24	2	-
-1.0m	9.35	7.21	5.85	4.9	4.19	3.64	3.16	2.78	2.46	2.2	-	-
-2.0m	9.39	7.23	5.87	4.87	4.13	3.55	3.1	2.75	2.44	-	-	-

4aU

**Max Cant
+ Twist
150+25mm**

**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	7.5m
7.0m	-	-	-	-	-	1.44	1.19	-	-	-	-	-
6.0m	-	-	-	-	-	1.45	1.21	1.01	0.84	-	-	-
5.0m	-	-	-	-	1.66	1.39	1.17	0.99	0.83	0.7	-	-
4.0m	-	-	2.27	1.81	1.52	1.28	1.09	0.93	0.79	0.68	0.55	-
3.0m	-	-	2.12	1.66	1.33	1.16	1	0.86	0.74	0.64	0.51	-
2.0m	-	2.5	1.92	1.52	1.22	1.05	0.91	0.79	0.69	0.6	0.47	-
1.0m	3.08	2.3	1.78	1.41	1.14	0.99	0.86	0.75	0.65	0.55	0.44	-
0.0m	3	2.23	1.72	1.37	1.13	0.96	0.83	0.72	0.63	0.52	0.42	-
-1.0m	2.97	2.22	1.73	1.38	1.14	0.96	0.83	0.72	0.62	0.53	-	-
-2.0m	3.02	2.27	1.78	1.43	1.18	0.99	0.85	0.74	0.66	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	1.45	1.19	-	-	-	-	-
6.0m	-	-	-	-	-	1.45	1.23	1.02	0.84	-	-	-
5.0m	-	-	-	-	1.68	1.42	1.22	1.05	0.86	0.7	-	-
4.0m	-	-	2.31	1.92	1.62	1.38	1.2	1.04	0.87	0.71	0.56	-
3.0m	-	-	2.23	1.86	1.58	1.36	1.18	1.04	0.85	0.7	0.55	-
2.0m	-	2.74	2.21	1.84	1.56	1.35	1.18	1	0.82	0.67	0.52	-
1.0m	3.21	2.57	2.12	1.78	1.51	1.29	1.11	0.94	0.77	0.63	0.48	-
0.0m	3.16	2.47	2.02	1.68	1.42	1.22	1.04	0.87	0.72	0.59	0.44	-
-1.0m	3.16	2.44	1.97	1.63	1.38	1.17	0.97	0.81	0.67	0.54	-	-
-2.0m	3.19	2.46	1.98	1.61	1.32	1.1	0.92	0.78	0.66	-	-	-

4aL

**Max Cant
+ Twist
150+25mm**

**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	7.5m
7.0m	-	-	-	-	-	2.2	1.85	-	-	-	-	-
6.0m	-	-	-	-	-	2.21	1.87	1.59	1.35	-	-	-
5.0m	-	-	-	-	2.54	2.14	1.82	1.56	1.35	1.16	-	-
4.0m	-	-	3.51	2.82	2.37	2.02	1.74	1.5	1.3	1.13	0.98	-
3.0m	-	-	3.33	2.64	2.15	1.87	1.62	1.42	1.24	1.09	0.95	-
2.0m	-	4.01	3.1	2.47	2.02	1.74	1.52	1.34	1.18	1.04	0.92	-
1.0m	5.06	3.76	2.92	2.35	1.93	1.67	1.46	1.28	1.14	1.01	0.89	-
0.0m	4.96	3.68	2.85	2.29	1.92	1.64	1.43	1.25	1.11	0.99	0.88	-
-1.0m	4.93	3.67	2.86	2.31	1.93	1.64	1.43	1.25	1.1	0.99	-	-
-2.0m	4.99	3.73	2.92	2.37	1.97	1.67	1.45	1.27	1.14	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	2.21	1.85	-	-	-	-	-
6.0m	-	-	-	-	-	2.22	1.9	1.61	1.35	-	-	-
5.0m	-	-	-	-	2.56	2.18	1.88	1.64	1.38	1.16	-	-
4.0m	-	-	3.56	2.95	2.49	2.14	1.86	1.63	1.39	1.17	0.99	-
3.0m	-	-	3.47	2.88	2.44	2.1	1.83	1.63	1.36	1.16	0.98	-
2.0m	-	4.29	3.44	2.86	2.42	2.09	1.83	1.58	1.33	1.13	0.96	-
1.0m	5.22	4.08	3.33	2.79	2.36	2.03	1.75	1.51	1.27	1.08	0.92	-
0.0m	5.16	3.97	3.21	2.66	2.26	1.95	1.68	1.43	1.21	1.04	0.89	-
-1.0m	5.16	3.93	3.16	2.61	2.21	1.89	1.59	1.36	1.16	1	-	-
-2.0m	5.2	3.95	3.17	2.59	2.14	1.8	1.53	1.32	1.14	-	-	-

NETWORK RAIL DUTIES
QUICKHITCH ONLY
SECTOR B 10° - 45° & 315° - 350°

LOWER SAFE WORKING LOADS

UPPER SAFE WORKING LOADS

1bU

Road
Unlocked

71% SWL



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	2.65	-	-	-	-	-	-
6.0m	-	-	-	-	-	2.66	2.26	1.93	-	-	-	-
5.0m	-	-	-	-	3.11	2.61	2.22	1.91	1.65	1.43	-	-
4.0m	-	-	4.41	3.53	2.94	2.49	2.13	1.85	1.61	1.41	1.23	-
3.0m	-	-	4.23	3.33	2.73	2.34	2.03	1.77	1.55	1.37	1.2	-
2.0m	7.06a	5.27	3.99	3.16	2.56	2.2	1.93	1.69	1.49	1.32	1.17	1.04
1.0m	5.28a	4.95	3.79	3.01	2.46	2.12	1.85	1.63	1.44	1.28	1.14	-
0.0m	6.10a	4.84	3.69	2.94	2.44	2.09	1.81	1.59	1.41	1.26	1.13	-
-1.0m	6.7	4.82	3.69	2.95	2.45	2.09	1.81	1.58	1.4	1.25	-	-
-2.0m	6.75	4.87	3.75	3.01	2.49	2.11	1.83	1.6	1.42	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	2.65	-	-	-	-	-	-
6.0m	-	-	-	-	-	2.67	2.28	1.94	-	-	-	-
5.0m	-	-	-	-	3.11	2.64	2.27	1.97	1.68	1.43	-	-
4.0m	-	-	4.46	3.64	3.04	2.6	2.25	1.97	1.68	1.44	1.23	-
3.0m	-	-	4.35	3.56	2.96	2.56	2.22	1.96	1.67	1.43	1.22	-
2.0m	7.06a	5.5	4.31	3.53	2.96	2.54	2.22	1.92	1.64	1.4	1.2	1.04
1.0m	7.05	5.31	4.23	3.48	2.92	2.5	2.15	1.86	1.59	1.36	1.17	-
0.0m	6.97	5.16	4.08	3.35	2.82	2.4	2.08	1.78	1.52	1.32	1.14	-
-1.0m	6.96	5.11	4.01	3.27	2.75	2.34	1.98	1.71	1.47	1.28	-	-
-2.0m	6.99	5.13	4.02	3.26	2.69	2.26	1.92	1.66	1.45	-	-	-

1bL

Road
Locked

71% SWL



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	2.93a	-	-	-	-	-	-
6.0m	-	-	-	-	-	3.04b	2.58b	2.74a	-	-	-	-
5.0m	-	-	-	-	3.53b	2.99b	2.57b	2.29b	2.51a	2.53a	-	-
4.0m	-	-	4.97a	4.10b	3.44b	2.93b	2.53b	2.21b	2.67b	2.55	2.27	-
3.0m	-	-	4.86b	3.99b	3.36b	2.88b	2.50b	2.20b	2.78b	2.38a	2.25	-
2.0m	7.06a	6.08b	4.81b	3.95b	3.33b	2.86b	2.50b	2.74b	2.58a	2.46	2.21	2
1.0m	5.28a	5.16a	5.40a	4.74b	4.01b	3.62b	3.41	3.01	2.69	2.42	2.18	-
0.0m	6.10a	5.32a	5.18a	5.29a	4.51	3.86	3.37	2.97	2.66	2.39	2.17	-
-1.0m	8.90a	8.34a	6.76	5.42	4.51	3.86	3.36	2.97	2.65	2.39	-	-
-2.0m	10	8.92	6.82	5.48	4.55	3.88	3.38	2.98	2.67	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	3.38b	-	-	-	-	-	-
6.0m	-	-	-	-	-	3.21b	3.21b	3.24b	-	-	-	-
5.0m	-	-	-	-	3.63b	3.51b	3.47b	3.3	2.93	2.57	-	-
4.0m	-	-	5.30a	5.03a	4.65b	4.22b	3.72	3.27	2.91	2.58	2.27	-
3.0m	-	-	6.00b	5.86b	4.92	4.22	3.68	3.25	2.9	2.56	2.27	-
2.0m	7.06a	8.28b	7.18	5.83	4.89	4.20b	3.67	3.25	2.88	2.53	2.24	2
1.0m	7.59a	9.35b	7.22	5.85	4.91	4.22	3.69	3.24	2.84	2.5	2.21	-
0.0m	10	9.24	7.18	5.84	4.9	4.19	3.65	3.17	2.77	2.45	2.18	-
-1.0m	10	9.19	7.11	5.76	4.83	4.13	3.55	3.09	2.72	2.41	-	-
-2.0m	10	9.21	7.11	5.75	4.77	4.05	3.47	3.04	2.69	-	-	-

2bU

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	7.5m
7.0m	-	-	-	-	-	2.07	1.75	-	-	-	-	-
6.0m	-	-	-	-	-	2.07	1.76	1.51	1.3	-	-	-
5.0m	-	-	-	-	2.37	2.01	1.72	1.49	1.29	1.12	-	-
4.0m	-	-	3.25	2.63	2.22	1.91	1.65	1.43	1.25	1.1	0.96	-
3.0m	-	-	3.09	2.48	2.04	1.78	1.55	1.36	1.2	1.06	0.93	-
2.0m	-	3.7	2.89	2.33	1.92	1.66	1.47	1.29	1.15	1.02	0.9	-
1.0m	4.62	3.48	2.74	2.22	1.84	1.6	1.41	1.24	1.11	0.99	0.88	-
0.0m	4.54	3.42	2.68	2.18	1.83	1.58	1.38	1.22	1.08	0.97	0.87	-
-1.0m	4.51	3.4	2.69	2.19	1.84	1.58	1.38	1.21	1.08	0.97	-	-
-2.0m	4.56	3.46	2.74	2.24	1.88	1.61	1.4	1.24	1.11	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	2.08	1.75	-	-	-	-	-
6.0m	-	-	-	-	-	2.08	1.79	1.53	1.3	-	-	-
5.0m	-	-	-	-	2.39	2.05	1.78	1.55	1.32	1.12	-	-
4.0m	-	-	3.29	2.74	2.33	2.01	1.75	1.55	1.33	1.13	0.96	-
3.0m	-	-	3.21	2.68	2.29	1.98	1.74	1.54	1.31	1.12	0.96	-
2.0m	-	3.94	3.19	2.66	2.27	1.97	1.73	1.5	1.28	1.09	0.94	-
1.0m	4.76	3.76	3.09	2.61	2.22	1.92	1.66	1.44	1.23	1.05	0.91	-
0.0m	4.7	3.66	2.99	2.5	2.13	1.84	1.6	1.37	1.17	1.02	0.88	-
-1.0m	4.7	3.63	2.94	2.45	2.08	1.79	1.52	1.31	1.13	0.98	-	-
-2.0m	4.74	3.65	2.95	2.43	2.03	1.72	1.47	1.28	1.11	-	-	-

2bL

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	7.5m
7.0m	-	-	-	-	-	3.02b	2.58a	-	-	-	-	-
6.0m	-	-	-	-	-	3.03b	2.58b	2.25	1.95	-	-	-
5.0m	-	-	-	-	3.5	2.97	2.56	2.22b	1.95	1.71	-	-
4.0m	-	-	4.86	3.93	3.32	2.85	2.47	2.16	1.9	1.68	1.49	-
3.0m	-	-	4.67	3.75	3.1	2.7	2.36	2.08	1.84	1.63	1.46	-
2.0m	-	5.68	4.43	3.58	2.96	2.56	2.26	2	1.78	1.59	1.42	-
1.0m	5.44a	5.07a	4.25	3.45	2.87	2.49	2.19	1.94	1.73	1.55	1.4	-
0.0m	6.18a	5.33a	4.18	3.39	2.86	2.47	2.16	1.91	1.71	1.53	1.39	-
-1.0m	7.15	5.33	4.18	3.41	2.87	2.47	2.16	1.91	1.7	1.54	-	-
-2.0m	7.22	5.39	4.25	3.47	2.91	2.5	2.18	1.93	1.74	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	3.04	2.59	-	-	-	-	-
6.0m	-	-	-	-	-	3.05	2.64	2.27	1.95	-	-	-
5.0m	-	-	-	-	3.52	3.01	2.62	2.29	1.98	1.71	-	-
4.0m	-	-	4.91	4.07	3.44	2.96	2.59	2.28	1.99	1.72	1.49	-
3.0m	-	-	4.81	3.98	3.39	2.93	2.57	2.27	1.97	1.71	1.49	-
2.0m	-	5.98	4.79	3.96	3.37	2.92	2.57	2.24	1.93	1.67	1.46	-
1.0m	7.47	5.76	4.67	3.9	3.32	2.86	2.49	2.17	1.87	1.63	1.43	-
0.0m	7.4	5.64	4.54	3.77	3.21	2.78	2.41	2.09	1.81	1.59	1.4	-
-1.0m	7.39	5.6	4.49	3.72	3.15	2.71	2.32	2.02	1.76	1.55	-	-
-2.0m	7.44	5.62	4.51	3.7	3.09	2.62	2.26	1.98	1.74	-	-	-

NETWORK RAIL DUTIES
QUICKHITCH ONLY
SECTOR B 10° - 45° & 315° - 350°

LOWER SAFE WORKING LOADS

UPPER SAFE WORKING LOADS

3bU

**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	7.5m
7.0m	-	-	-	-	-	1.72	1.44	-	-	-	-	-
6.0m	-	-	-	-	-	1.72	1.46	1.24	1.05	-	-	-
5.0m	-	-	-	-	1.97	1.66	1.42	1.21	1.04	0.89	-	-
4.0m	-	-	2.69	2.16	1.83	1.56	1.34	1.16	1	0.87	0.75	-
3.0m	-	-	2.54	2.01	1.65	1.43	1.25	1.09	0.95	0.83	0.72	-
2.0m	-	3	2.34	1.87	1.53	1.32	1.16	1.02	0.9	0.79	0.69	-
1.0m	3.7	2.8	2.19	1.77	1.45	1.26	1.11	0.97	0.86	0.76	0.67	-
0.0m	3.63	2.73	2.14	1.72	1.44	1.24	1.08	0.95	0.84	0.74	0.66	-
-1.0m	3.6	2.72	2.14	1.74	1.45	1.24	1.08	0.94	0.83	0.74	-	-
-2.0m	3.65	2.77	2.19	1.79	1.49	1.27	1.1	0.96	0.86	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	1.73	1.44	-	-	-	-	-
6.0m	-	-	-	-	-	1.73	1.48	1.25	1.05	-	-	-
5.0m	-	-	-	-	1.99	1.7	1.47	1.28	1.07	0.9	-	-
4.0m	-	-	2.73	2.27	1.93	1.66	1.45	1.27	1.08	0.9	0.75	-
3.0m	-	-	2.65	2.22	1.89	1.63	1.43	1.27	1.06	0.89	0.75	-
2.0m	-	3.24	2.63	2.2	1.88	1.63	1.43	1.22	1.03	0.86	0.73	-
1.0m	3.84	3.07	2.53	2.14	1.82	1.57	1.36	1.17	0.98	0.82	0.7	-
0.0m	3.78	2.97	2.43	2.04	1.74	1.5	1.29	1.1	0.93	0.79	0.67	-
-1.0m	3.78	2.94	2.39	1.99	1.69	1.45	1.22	1.04	0.88	0.76	-	-
-2.0m	3.82	2.96	2.4	1.97	1.63	1.37	1.17	1.01	0.86	-	-	-

3bL

**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	7.5m
7.0m	-	-	-	-	-	2.48	2.1	-	-	-	-	-
6.0m	-	-	-	-	-	2.48	2.12	1.83	1.57	-	-	-
5.0m	-	-	-	-	2.84	2.41	2.07	1.8	1.57	1.36	-	-
4.0m	-	-	3.88	3.15	2.67	2.3	1.99	1.74	1.52	1.34	1.18	-
3.0m	-	-	3.71	2.98	2.46	2.15	1.88	1.65	1.46	1.29	1.15	-
2.0m	-	4.44	3.48	2.82	2.33	2.03	1.79	1.58	1.41	1.25	1.11	-
1.0m	5.44a	4.19	3.31	2.7	2.24	1.96	1.72	1.52	1.36	1.21	1.09	-
0.0m	5.45	4.12	3.25	2.64	2.23	1.93	1.69	1.5	1.33	1.19	1.08	-
-1.0m	5.42	4.11	3.25	2.66	2.25	1.93	1.69	1.49	1.33	1.2	-	-
-2.0m	5.48	4.17	3.32	2.72	2.29	1.96	1.71	1.52	1.36	-	-	-

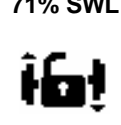
	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	2.49	2.1	-	-	-	-	-
6.0m	-	-	-	-	-	2.49	2.15	1.84	1.57	-	-	-
5.0m	-	-	-	-	2.86	2.46	2.14	1.87	1.6	1.37	-	-
4.0m	-	-	3.93	3.28	2.79	2.41	2.11	1.86	1.61	1.37	1.18	-
3.0m	-	-	3.84	3.21	2.74	2.38	2.09	1.86	1.58	1.36	1.17	-
2.0m	-	4.71	3.82	3.19	2.73	2.37	2.09	1.81	1.55	1.33	1.15	-
1.0m	5.7	4.51	3.71	3.13	2.67	2.31	2.01	1.75	1.5	1.29	1.12	-
0.0m	5.64	4.4	3.59	3.01	2.57	2.23	1.94	1.67	1.43	1.25	1.09	-
-1.0m	5.64	4.36	3.54	2.95	2.52	2.17	1.85	1.6	1.38	1.21	-	-
-2.0m	5.68	4.38	3.55	2.93	2.45	2.08	1.79	1.56	1.36	-	-	-

NETWORK RAIL DUTIES
QUICKHITCH ONLY
SECTOR C 45° - 135° & 225° - 315°

LOWER SAFE WORKING LOADS

UPPER SAFE WORKING LOADS

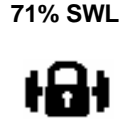
1cU
Road
Unlocked
71% SWL



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	2.65	-	-	-	-	-	-
6.0m	-	-	-	-	-	2.66	2.26	1.93	-	-	-	-
5.0m	-	-	-	-	3.11	2.61	2.22	1.91	1.65	1.43	-	-
4.0m	-	-	4.41	3.53	2.94	2.49	2.13	1.85	1.61	1.41	1.23	-
3.0m	-	-	4.23	3.33	2.73	2.34	2.03	1.77	1.55	1.37	1.2	-
2.0m	7.06a	5.27	3.99	3.16	2.56	2.2	1.93	1.69	1.49	1.32	1.17	1.04
1.0m	5.28a	4.95	3.79	3.01	2.46	2.12	1.85	1.63	1.44	1.28	1.14	-
0.0m	6.10a	4.84	3.69	2.94	2.44	2.09	1.81	1.59	1.41	1.26	1.13	-
-1.0m	6.7	4.82	3.69	2.95	2.45	2.09	1.81	1.58	1.4	1.25	-	-
-2.0m	6.75	4.87	3.75	3.01	2.49	2.11	1.83	1.6	1.42	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	2.65	-	-	-	-	-	-
6.0m	-	-	-	-	-	2.67	2.28	1.94	-	-	-	-
5.0m	-	-	-	-	3.11	2.64	2.27	1.97	1.68	1.43	-	-
4.0m	-	-	4.46	3.64	3.04	2.6	2.25	1.97	1.68	1.44	1.23	-
3.0m	-	-	4.35	3.56	2.99	2.56	2.22	1.96	1.67	1.43	1.22	-
2.0m	7.06a	5.5	4.31	3.53	2.96	2.54	2.22	1.92	1.64	1.4	1.2	1.04
1.0m	7.05	5.31	4.23	3.48	2.92	2.5	2.15	1.86	1.59	1.36	1.17	-
0.0m	6.97	5.16	4.08	3.35	2.82	2.4	2.08	1.78	1.52	1.32	1.14	-
-1.0m	6.96	5.11	4.01	3.27	2.75	2.34	1.98	1.71	1.47	1.28	-	-
-2.0m	6.99	5.13	4.02	3.26	2.69	2.26	1.92	1.66	1.45	-	-	-

1cL
Road
Locked
71% SWL



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	2.93a	-	-	-	-	-	-
6.0m	-	-	-	-	-	3.04b	2.58b	2.74a	-	-	-	-
5.0m	-	-	-	-	3.53b	2.99b	2.57b	2.29b	2.51a	2.53a	-	-
4.0m	-	-	4.97a	4.10b	3.44b	2.93b	2.53b	2.21b	2.67b	2.55	2.27	-
3.0m	-	-	4.86b	3.99b	3.36b	2.88b	2.50b	2.20b	2.78b	2.38a	2.25	-
2.0m	7.06a	6.08b	4.81b	3.95b	3.33b	2.86b	2.50b	2.74b	2.58a	2.46	2.21	2
1.0m	5.28a	5.16a	5.40a	4.74b	4.01b	3.62b	3.41	3.01	2.69	2.42	2.18	-
0.0m	6.10a	5.32a	5.18a	5.29a	4.51	3.86	3.37	2.97	2.66	2.39	2.17	-
-1.0m	8.91a	8.34a	6.76	5.42	4.51	3.86	3.36	2.97	2.65	2.39	-	-
-2.0m	10	8.92	6.82	5.48	4.55	3.88	3.38	2.98	2.67	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	3.38b	-	-	-	-	-	-
6.0m	-	-	-	-	-	3.21b	3.21b	3.24b	-	-	-	-
5.0m	-	-	-	-	3.63b	3.51b	3.47b	3.3	2.93	2.57	-	-
4.0m	-	-	5.30a	5.03a	4.64b	4.22b	3.72	3.27	2.91	2.58	2.27	-
3.0m	-	-	6.00b	5.85b	4.92	4.22	3.68	3.25	2.9	2.56	2.27	-
2.0m	7.06a	8.28b	7.18	5.83	4.89	4.20b	3.67	3.25	2.88	2.53	2.24	2
1.0m	7.59a	9.35	7.22	5.85	4.91	4.22	3.69	3.24	2.84	2.5	2.21	-
0.0m	10	9.24	7.18	5.84	4.9	4.19	3.65	3.17	2.77	2.45	2.18	-
-1.0m	10	9.19	7.11	5.76	4.83	4.13	3.55	3.1	2.72	2.41	-	-
-2.0m	10	9.21	7.11	5.75	4.77	4.05	3.47	3.04	2.69	-	-	-

2cU
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	7.5m
7.0m	-	-	-	-	-	1.82	1.52	-	-	-	-	-
6.0m	-	-	-	-	-	1.82	1.53	1.3	1.1	-	-	-
5.0m	-	-	-	-	2.1	1.76	1.49	1.28	1.09	0.93	-	-
4.0m	-	-	2.91	2.32	1.95	1.66	1.42	1.22	1.05	0.91	0.78	-
3.0m	-	-	2.75	2.16	1.76	1.52	1.32	1.15	1	0.87	0.76	-
2.0m	-	3.3	2.54	2.02	1.63	1.41	1.23	1.08	0.95	0.83	0.73	-
1.0m	4.17	3.08	2.38	1.9	1.55	1.34	1.17	1.03	0.91	0.8	0.71	-
0.0m	4.08	3.01	2.32	1.85	1.54	1.32	1.14	1	0.88	0.78	0.69	-
-1.0m	4.05	3	2.33	1.87	1.56	1.32	1.14	1	0.88	0.78	-	-
-2.0m	4.1	3.05	2.38	1.93	1.59	1.35	1.16	1.02	0.91	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	1.83	1.52	-	-	-	-	-
6.0m	-	-	-	-	-	1.83	1.56	1.32	1.1	-	-	-
5.0m	-	-	-	-	2.12	1.8	1.55	1.34	1.12	0.94	-	-
4.0m	-	-	2.95	2.44	2.06	1.76	1.52	1.33	1.13	0.94	0.79	-
3.0m	-	-	2.87	2.38	2.01	1.73	1.51	1.33	1.11	0.93	0.78	-
2.0m	-	3.56	2.85	2.36	2	1.72	1.5	1.29	1.08	0.91	0.76	-
1.0m	4.31	3.37	2.75	2.3	1.94	1.67	1.43	1.23	1.03	0.86	0.73	-
0.0m	4.26	3.27	2.64	2.19	1.85	1.59	1.37	1.16	0.97	0.83	0.71	-
-1.0m	4.25	3.23	2.59	2.14	1.8	1.54	1.29	1.1	0.93	0.79	-	-
-2.0m	4.29	3.25	2.6	2.12	1.74	1.46	1.24	1.06	0.91	-	-	-

2cL
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	7.5m
7.0m	-	-	-	-	-	2.63	2.21	-	-	-	-	-
6.0m	-	-	-	-	-	2.63	2.23	1.91	1.63	-	-	-
5.0m	-	-	-	-	3.04	2.56	2.18	1.88	1.62	1.41	-	-
4.0m	-	-	4.28	3.41	2.86	2.43	2.09	1.81	1.58	1.38	1.21	-
3.0m	-	-	4.08	3.22	2.63	2.27	1.97	1.72	1.51	1.33	1.18	-
2.0m	-	5	3.83	3.05	2.48	2.14	1.87	1.65	1.46	1.29	1.14	-
1.0m	5.44a	4.73	3.64	2.91	2.39	2.06	1.8	1.59	1.41	1.25	1.12	-
0.0m	6.18a	4.64	3.57	2.86	2.38	2.04	1.77	1.56	1.38	1.23	1.1	-
-1.0m	6.35	4.63	3.58	2.88	2.39	2.04	1.77	1.55	1.37	1.23	-	-
-2.0m	6.42	4.7	3.64	2.94	2.44	2.07	1.79	1.58	1.41	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	2.63	2.21	-	-	-	-	-
6.0m	-	-	-	-	-	2.64	2.26	1.92	1.63	-	-	-
5.0m	-	-	-	-	3.06	2.6	2.25	1.95	1.66	1.41	-	-
4.0m	-	-	4.33	3.55	2.99	2.56	2.22	1.94	1.67	1.42	1.21	-
3.0m	-	-	4.23	3.48	2.93	2.52	2.19	1.94	1.64	1.41	1.21	-
2.0m	-	5.32	4.2	3.46	2.92	2.51	2.19	1.89	1.61	1.37	1.18	-
1.0m	6.68	5.09	4.08	3.38	2.85	2.44	2.11	1.82	1.55	1.33	1.15	-
0.0m	6.61	4.96	3.95	3.25	2.74	2.36	2.03	1.74	1.49	1.29	1.12	-
-1.0m	6.61	4.92	3.89	3.19	2.69	2.29	1.94	1.67	1.43	1.25	-	-
-2.0m	6.65	4.94	3.91	3.17	2.62	2.2	1.88	1.63	1.41	-	-	-

NETWORK RAIL DUTIES
QUICKHITCH ONLY
SECTOR C 45° - 135° & 225° - 315°

LOWER SAFE WORKING LOADS

UPPER SAFE WORKING LOADS

3cU

**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	7.5m
7.0m	-	-	-	-	-	1.52	1.25	-	-	-	-	-
6.0m	-	-	-	-	-	1.52	1.27	1.07	0.89	-	-	-
5.0m	-	-	-	-	1.74	1.46	1.23	1.05	0.89	0.75	-	-
4.0m	-	-	2.38	1.9	1.6	1.36	1.16	0.99	0.85	0.73	0.62	-
3.0m	-	-	2.23	1.75	1.42	1.23	1.06	0.92	0.8	0.69	0.59	-
2.0m	-	2.64	2.04	1.61	1.3	1.12	0.98	0.85	0.75	0.65	0.54	-
1.0m	3.25	2.43	1.89	1.51	1.22	1.06	0.92	0.81	0.71	0.62	0.51	-
0.0m	3.17	2.37	1.83	1.46	1.22	1.04	0.9	0.78	0.68	0.6	0.49	-
-1.0m	3.14	2.35	1.84	1.48	1.23	1.04	0.89	0.78	0.68	0.6	-	-
-2.0m	3.19	2.41	1.89	1.53	1.26	1.06	0.92	0.8	0.71	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	1.52	1.26	-	-	-	-	-
6.0m	-	-	-	-	-	1.53	1.3	1.08	0.89	-	-	-
5.0m	-	-	-	-	1.76	1.5	1.29	1.11	0.92	0.76	-	-
4.0m	-	-	2.42	2.01	1.7	1.46	1.26	1.1	0.92	0.76	0.62	-
3.0m	-	-	2.34	1.95	1.66	1.43	1.24	1.1	0.9	0.75	0.62	-
2.0m	-	2.87	2.32	1.94	1.65	1.42	1.24	1.06	0.88	0.72	0.59	-
1.0m	3.38	2.7	2.23	1.88	1.6	1.37	1.17	1	0.83	0.68	0.55	-
0.0m	3.33	2.6	2.13	1.77	1.51	1.3	1.11	0.93	0.77	0.65	0.51	-
-1.0m	3.32	2.57	2.08	1.73	1.46	1.24	1.03	0.87	0.73	0.61	-	-
-2.0m	3.36	2.59	2.09	1.71	1.4	1.17	0.98	0.84	0.71	-	-	-

3cL

**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	7.5m
7.0m	-	-	-	-	-	2.24	1.89	-	-	-	-	-
6.0m	-	-	-	-	-	2.24	1.91	1.64	1.4	-	-	-
5.0m	-	-	-	-	2.56	2.17	1.86	1.61	1.4	1.21	-	-
4.0m	-	-	3.47	2.82	2.39	2.06	1.78	1.55	1.35	1.19	1.04	-
3.0m	-	-	3.3	2.65	2.19	1.92	1.67	1.47	1.29	1.14	1.01	-
2.0m	-	3.92	3.09	2.5	2.06	1.79	1.58	1.4	1.24	1.1	0.98	-
1.0m	4.84	3.69	2.92	2.38	1.98	1.72	1.52	1.34	1.19	1.07	0.95	-
0.0m	4.76	3.62	2.86	2.33	1.97	1.7	1.49	1.31	1.17	1.04	0.94	-
-1.0m	4.73	3.6	2.86	2.35	1.98	1.7	1.49	1.31	1.16	1.05	-	-
-2.0m	4.78	3.66	2.92	2.4	2.02	1.73	1.51	1.33	1.2	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	2.24	1.89	-	-	-	-	-
6.0m	-	-	-	-	-	2.25	1.94	1.65	1.4	-	-	-
5.0m	-	-	-	-	2.58	2.21	1.92	1.68	1.43	1.22	-	-
4.0m	-	-	3.52	2.95	2.51	2.17	1.9	1.67	1.44	1.22	1.04	-
3.0m	-	-	3.43	2.88	2.46	2.14	1.88	1.67	1.42	1.21	1.04	-
2.0m	-	4.18	3.41	2.86	2.45	2.13	1.88	1.62	1.38	1.18	1.01	-
1.0m	4.99	3.99	3.3	2.79	2.39	2.07	1.8	1.56	1.33	1.14	0.98	-
0.0m	4.93	3.88	3.19	2.68	2.29	1.99	1.73	1.48	1.27	1.1	0.95	-
-1.0m	4.93	3.85	3.14	2.63	2.24	1.93	1.64	1.42	1.22	1.06	-	-
-2.0m	4.97	3.87	3.15	2.61	2.18	1.85	1.59	1.38	1.2	-	-	-

NETWORK RAIL DUTIES

QUICKHITCH ONLY

SECTOR D 135° - 160° & 200° - 225°

LOWER SAFE WORKING LOADS

UPPER SAFE WORKING LOADS

1dU

Road
Unlocked
Below
71% SWL



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	2.92a	-	-	-	-	-	-
6.0m	-	-	-	-	-	3.03b	2.58b	2.73a	-	-	-	-
5.0m	-	-	-	-	3.53b	2.99b	2.56b	2.29b	2.51a	2.52a	-	-
4.0m	-	-	4.93a	4.09b	3.43b	2.93b	2.53b	2.21b	2.67b	2.69a	2.48a	-
3.0m	-	-	4.84b	3.98b	3.35b	2.87b	2.50b	2.20b	2.78b	2.38a	2.72a	-
2.0m	7.11a	6.06b	4.80b	3.94b	3.32b	2.86b	2.49b	2.74b	2.57a	2.49a	2.78a	2.40a
1.0m	5.31a	5.18a	5.43a	4.73b	4.00b	3.62b	3.52b	3.01a	2.86a	2.87a	3.01a	-
0.0m	6.14a	5.35a	5.21a	5.32a	5.66b	5.04b	4.56a	3.28a	3.98a	3.25a	2.98a	-
-1.0m	8.95a	8.38a	8.48a	7.53b	6.83b	6.11b	5.44a	4.08a	4.25a	3.85a	-	-
-2.0m	10	10	8.85b	7.29b	6.17b	5.49b	4.97b	4.43b	3.88b	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	-	-	-	3.37b	-	-	-
6.0m	-	-	-	-	-	-	-	-	3.21b	3.20b	3.24b	-
5.0m	-	-	-	-	-	3.62b	3.50b	3.46b	3.35b	3.29b	2.83a	-
4.0m	-	-	5.25a	5.00a	4.64b	4.22b	3.94b	3.71b	3.51b	3.41b	2.82a	-
3.0m	-	-	5.99b	6.21b	5.94b	5.10b	4.54b	4.18b	3.87b	3.64b	3.49b	-
2.0m	7.11a	8.25b	7.99b	7.46b	6.91b	5.93b	5.15b	4.63b	4.20b	3.89b	3.65b	2.40a
1.0m	7.63a	10	9.46b	8.41b	7.38b	6.36b	5.55b	4.94b	4.47b	4.08b	3.77b	-
0.0m	10	10	10	8.75b	7.43b	6.44b	5.67b	5.06b	4.56b	4.16b	3.78b	-
-1.0m	10	10	10	8.84b	7.51b	6.51b	5.74b	5.14b	4.63b	4.05b	-	-
-2.0m	10	10	10	9.07b	7.68a	6.61b	5.71b	4.91b	4.01b	-	-	-

1dL

Road
Locked
71% SWL



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	2.93a	-	-	-	-	-	-
6.0m	-	-	-	-	-	3.03b	2.58b	2.73a	-	-	-	-
5.0m	-	-	-	-	3.53b	2.99b	2.57b	2.29b	2.51a	2.52a	-	-
4.0m	-	-	4.93a	4.10b	3.43b	2.93b	2.53b	2.21b	2.67b	2.54	2.27	-
3.0m	-	-	4.85b	3.99b	3.36b	2.87b	2.50b	2.20b	2.78b	2.38a	2.25	-
2.0m	7.11a	6.06b	4.80b	3.94b	3.32b	2.86b	2.49b	2.74b	2.57a	2.46	2.21	2
1.0m	5.30a	5.18a	5.42a	4.73b	4.00b	3.62b	3.41	3.01a	2.69	2.42	2.18	-
0.0m	6.13a	5.34a	5.21a	5.32a	5.66b	5.04b	4.51	3.86	3.37	2.97	2.66	2.39
-1.0m	8.95a	8.38a	8.48a	7.53b	6.83b	6.11b	5.44a	4.08a	4.25a	3.85a	-	-
-2.0m	10	8.92	6.82	5.48	4.55	3.88	3.38	2.98	2.67	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	-	-	-	3.37b	-	-	-
6.0m	-	-	-	-	-	-	-	-	3.21b	3.20b	3.24b	-
5.0m	-	-	-	-	-	3.63b	3.50b	3.46b	3.3	2.93	2.57	-
4.0m	-	-	5.26a	5.00a	4.64b	4.22b	3.72	3.27	2.91	2.58	2.27	-
3.0m	-	-	5.99b	5.85	4.92	4.22b	3.68	3.25	2.9	2.56	2.27	-
2.0m	7.11a	8.25b	7.18	5.83	4.89	4.20b	3.67	3.25	2.88	2.53	2.24	2
1.0m	7.63a	9.35	7.22	5.85	4.91	4.22b	3.69	3.24	2.84	2.5	2.21	-
0.0m	10	9.24	7.18	5.84	4.9	4.19	3.65	3.17	2.77	2.45	2.18	-
-1.0m	10	9.19	7.11	5.76	4.83	4.13	3.54	3.09	2.72	2.41	-	-
-2.0m	10	9.21	7.11	5.75	4.77	4.05	3.47	3.04	2.69	-	-	-

2dU

Level Rail
0-50mm
Unlocked
67% SWL



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	2.48	2.12	-	-	-	-	-
6.0m	-	-	-	-	-	2.48	2.14	1.86	1.61	-	-	-
5.0m	-	-	-	-	2.82	2.42	2.1	1.83	1.61	1.42	-	-
4.0m	-	-	3.82	3.14	2.68	2.32	2.02	1.78	1.57	1.39	1.24	-
3.0m	-	-	3.67	2.99	2.5	2.19	1.93	1.71	1.52	1.35	1.21	-
2.0m	-	4.36	3.48	2.85	2.38	2.08	1.84	1.64	1.47	1.32	1.18	-
1.0m	5.41	4.16	3.33	2.74	2.3	2.02	1.79	1.59	1.43	1.28	1.16	-
0.0m	5.33	4.09	3.27	2.69	2.3	2	1.76	1.57	1.4	1.27	1.15	-
-1.0m	5.3	4.08	3.28	2.71	2.31	2	1.76	1.56	1.4	1.27	-	-
-2.0m	5.35	4.13	3.33	2.76	2.34	2.02	1.78	1.58	1.43	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	2.48	2.12	-	-	-	-	-
6.0m	-	-	-	-	-	2.49	2.16	1.87	1.61	-	-	-
5.0m	-	-	-	-	2.84	2.46	2.15	1.9	1.64	1.42	-	-
4.0m	-	-	3.86	3.25	2.78	2.42	2.13	1.89	1.64	1.42	1.24	-
3.0m	-	-	3.78	3.19	2.74	2.39	2.11	1.89	1.62	1.41	1.23	-
2.0m	-	4.6	3.76	3.17	2.73	2.38	2.11	1.84	1.6	1.39	1.21	-
1.0m	5.54	4.43	3.67	3.11	2.68	2.33	2.04	1.79	1.55	1.35	1.18	-
0.0m	5.49	4.33	3.57	3.01	2.59	2.26	1.97	1.72	1.49	1.31	1.16	-
-1.0m	5.48	4.3	3.52	2.96	2.54	2.2	1.9	1.66	1.45	1.28	-	-
-2.0m	5.52	4.32	3.53	2.94	2.48	2.13	1.85	1.62	1.43	-	-	-

2dL

Level Rail
0-50mm
Locked
75% SWL



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	3.02b	2.57a	-	-	-	-	-
6.0m	-	-	-	-	-	3.03b	2.58b	2.75a	2.54a	-	-	-
5.0m	-	-	-	-	3.51b	2.98b	2.56b	2.22b	2.51a	2.28	-	-
4.0m	-	-	4.96b	4.07b	3.42b	2.92b	2.52b	2.20b	2.24a	2.25	2.01	-
3.0m	-	-	4.83b	3.97b	3.35b	2.87b	2.49b	2.20b	2.46	2.2	1.99	-
2.0m	-	6.06b	4.80b	3.94b	3.32b	2.86b	2.57b	2.68	2.4	2.16	1.95	-
1.0m	5.48a	5.10a	5.19a	4.55	3.82	3.33	2.94	2.62	2.35	2.12	1.92	-
0.0m	6.22a	5.36a	5.17a	4.49	3.81	3.31	2.91	2.59	2.32	2.1	1.91	-
-1.0m	9.22	6.93	5.49	4.51	3.82	3.31	2.91	2.58	2.32	2.1	-	-
-2.0m	9.29	6.99	5.55	4.57	3.87	3.34	2.93	2.61	2.36	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	3.29b	2.97a	-	-	-	-	-
6.0m	-	-	-	-	-	3.20b	3.27b	2.94	2.57	-	-	-
5.0m	-	-	-	-	3.73a	3.65b	3.32	2.93	2.6	2.28	-	-
4.0m	-	-	5.48b	5.07	4.32	3.74b	3.28	2.91	2.6	2.29	2.02	-
3.0m	-	-	5.99	4.99	4.26	3.69	3.25	2.89	2.58	2.28	2.01	-
2.0m	-	7.47	5.98	4.97	4.24	3.68	3.25	2.91	2.55	2.24	1.99	-
1.0m	8.44a	7.37	5.98	5	4.27	3.7	3.24	2.85	2.49	2.2	1.96	-
0.0m	9.47	7.24	5.85	4.88	4.16	3.61	3.16	2.76	2.43	2.16	1.92	-
-1.0m	9.47	7.2	5.8	4.82	4.11	3.55	3.07	2.7	2.38	2.12	-	-
-2.0m	9.51	7.23	5.81	4.8	4.04	3.46	3.01	2.66	2.36	-	-	-

NETWORK RAIL DUTIES
QUICKHITCH ONLY
SECTOR D 135° - 160° & 200° - 225°

LOWER SAFE WORKING LOADS

UPPER SAFE WORKING LOADS

3dU

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	1.98	1.67	-	-	-	-	-
6.0m	-	-	-	-	-	1.98	1.69	1.45	1.24	-	-	-
5.0m	-	-	-	-	2.27	1.92	1.65	1.43	1.24	1.07	-	-
4.0m	-	-	3.08	2.5	2.12	1.82	1.58	1.37	1.2	1.05	0.92	-
3.0m	-	-	2.93	2.35	1.94	1.7	1.48	1.3	1.15	1.01	0.89	-
2.0m	-	3.47	2.73	2.21	1.82	1.59	1.4	1.24	1.1	0.97	0.86	-
1.0m	4.29	3.27	2.59	2.1	1.75	1.52	1.34	1.19	1.06	0.94	0.84	-
0.0m	4.22	3.21	2.53	2.06	1.74	1.5	1.32	1.16	1.03	0.92	0.83	-
-1.0m	4.19	3.19	2.54	2.08	1.75	1.5	1.31	1.16	1.03	0.93	-	-
-2.0m	4.24	3.24	2.59	2.13	1.79	1.53	1.33	1.18	1.06	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	1.99	1.67	-	-	-	-	-
6.0m	-	-	-	-	-	1.99	1.72	1.47	1.24	-	-	-
5.0m	-	-	-	-	2.28	1.96	1.71	1.49	1.27	1.08	-	-
4.0m	-	-	3.12	2.61	2.23	1.92	1.68	1.48	1.27	1.08	0.92	-
3.0m	-	-	3.04	2.55	2.18	1.89	1.66	1.48	1.25	1.07	0.92	-
2.0m	-	3.71	3.02	2.53	2.17	1.89	1.66	1.44	1.23	1.04	0.9	-
1.0m	4.43	3.54	2.93	2.48	2.12	1.83	1.59	1.38	1.18	1	0.87	-
0.0m	4.37	3.44	2.83	2.37	2.03	1.76	1.53	1.31	1.12	0.97	0.84	-
-1.0m	4.37	3.41	2.78	2.33	1.98	1.71	1.45	1.25	1.08	0.94	-	-
-2.0m	4.41	3.43	2.79	2.31	1.93	1.64	1.4	1.22	1.06	-	-	-

**Canted Rail
50-150mm**

**67% SWL
Unlocked**



3dL

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	3.02b	2.57a	-	-	-	-	-
6.0m	-	-	-	-	-	3.02	2.58b	2.25	1.96	-	-	-
5.0m	-	-	-	-	3.46	2.95	2.55	2.22b	1.95	1.72	-	-
4.0m	-	-	4.76	3.88	3.29	2.83	2.47	2.16	1.9	1.69	1.5	-
3.0m	-	-	4.58	3.7	3.08	2.68	2.35	2.08	1.84	1.64	1.47	-
2.0m	-	5.53	4.35	3.54	2.94	2.56	2.26	2	1.79	1.6	1.44	-
1.0m	5.47a	5.10a	4.17	3.41	2.85	2.48	2.19	1.94	1.74	1.56	1.41	-
0.0m	6.22a	5.2	4.11	3.35	2.84	2.46	2.16	1.92	1.71	1.54	1.4	-
-1.0m	6.88	5.19	4.11	3.38	2.85	2.46	2.16	1.91	1.71	1.55	-	-
-2.0m	6.94	5.25	4.18	3.43	2.89	2.49	2.18	1.94	1.74	-	-	-

**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	7.5m
7.0m	-	-	-	-	-	3.02	2.58	-	-	-	-	-
6.0m	-	-	-	-	-	3.03	2.63	2.27	1.96	-	-	-
5.0m	-	-	-	-	3.48	2.99	2.61	2.29	1.99	1.72	-	-
4.0m	-	-	4.81	4.01	3.41	2.95	2.58	2.28	1.99	1.73	1.5	-
3.0m	-	-	4.72	3.94	3.35	2.91	2.56	2.27	1.97	1.71	1.5	-
2.0m	-	5.82	4.7	3.92	3.34	2.9	2.56	2.24	1.94	1.68	1.47	-
1.0m	7.17	5.61	4.58	3.85	3.29	2.85	2.48	2.17	1.88	1.64	1.44	-
0.0m	7.11	5.49	4.46	3.73	3.18	2.76	2.41	2.09	1.82	1.6	1.41	-
-1.0m	7.1	5.45	4.41	3.67	3.13	2.7	2.32	2.02	1.76	1.56	-	-
-2.0m	7.15	5.47	4.42	3.65	3.06	2.61	2.26	1.98	1.74	-	-	-

NETWORK RAIL DUTIES
QUICKHITCH ONLY
SECTOR E 160° - 200°

LOWER SAFE WORKING LOADS

UPPER SAFE WORKING LOADS

1eU

**Road
 Unlocked
 Below
 71% SWL**



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	2.92a	-	-	-	-	-	-
6.0m	-	-	-	-	-	3.03b	2.58b	2.73a	-	-	-	-
5.0m	-	-	-	-	3.52b	2.99b	2.56b	2.29b	2.51a	2.52a	-	-
4.0m	-	-	4.92a	4.09b	3.43b	2.92b	2.53b	2.20b	2.67b	2.69a	2.48a	-
3.0m	-	-	4.84b	3.98b	3.35b	2.87b	2.49b	2.20b	2.77b	2.38a	2.72a	-
2.0m	7.13a	6.05b	4.80b	3.94b	3.32b	2.85b	2.49b	2.74b	2.57a	2.48a	2.78a	2.40a
1.0m	5.31a	5.19a	5.44a	4.73b	4.00b	3.62b	3.52b	3.01a	2.86a	2.87a	3.01a	-
0.0m	6.15a	5.35a	5.22a	5.33a	5.65b	5.04b	4.56a	3.28a	3.97a	3.25a	2.98a	-
-1.0m	8.96a	8.39a	8.49a	7.53b	6.82b	6.11b	5.44a	4.08a	4.25a	3.85a	-	-
-2.0m	10	10	8.84b	7.28b	6.16b	5.49b	4.97b	4.43b	3.88b	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	-	-	-	3.37b	-	-	-
6.0m	-	-	-	-	-	-	-	-	3.21b	3.20b	3.24b	-
5.0m	-	-	-	-	-	3.62b	3.50b	3.46b	3.35b	3.29b	2.83a	-
4.0m	-	-	5.24a	4.99a	4.63b	4.22b	3.94b	3.71b	3.51b	3.41b	2.81a	-
3.0m	-	-	5.98b	6.21b	5.94b	5.10b	4.54b	4.18b	3.87b	3.64b	3.49b	-
2.0m	7.13a	8.24b	7.99b	7.45b	6.90b	5.92b	5.15b	4.63b	4.20b	3.89b	3.65b	2.40a
1.0m	7.64a	10	9.45b	8.41b	7.38b	6.36b	5.55b	4.94b	4.47b	4.08b	3.77b	-
0.0m	10	10	10	8.75b	7.43b	6.44b	5.67b	5.06b	4.56b	4.16b	3.78b	-
-1.0m	10	10	10	8.83b	7.51b	6.51b	5.74b	5.14b	4.62b	4.05b	-	-
-2.0m	10	10	10	9.07b	7.68b	6.60b	5.71b	4.91b	4.01b	-	-	-

1eL

**Road
 Locked
 Below
 71% SWL**



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	2.92a	-	-	-	-	-	-
6.0m	-	-	-	-	-	3.03b	2.58b	2.73a	-	-	-	-
5.0m	-	-	-	-	3.52b	2.99b	2.56b	2.29b	2.51a	2.52a	-	-
4.0m	-	-	4.92a	4.09b	3.43b	2.92b	2.53b	2.21b	2.67b	2.69a	2.48a	-
3.0m	-	-	4.84b	3.98b	3.35b	2.87b	2.49b	2.20b	2.77b	2.38a	2.72a	-
2.0m	7.12a	6.05b	4.80b	3.94b	3.32b	2.85b	2.49b	2.74b	2.57a	2.48a	2.78a	2.40a
1.0m	5.31a	5.19a	5.43a	4.73b	4.00b	3.62b	3.52b	3.01a	2.86a	2.87a	3.01a	-
0.0m	6.15a	5.35a	5.21a	5.33a	5.65b	5.04b	4.56a	3.28a	3.97a	3.25a	2.98a	-
-1.0m	8.96a	8.39a	8.49a	7.53b	6.82b	6.11b	5.44a	4.08a	4.25a	3.85a	-	-
-2.0m	10	10	8.85b	7.28b	6.16b	5.49b	4.97b	4.43b	3.88b	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	-	-	-	3.37b	-	-	-
6.0m	-	-	-	-	-	-	-	-	3.21b	3.20b	3.24b	-
5.0m	-	-	-	-	-	3.62b	3.50b	3.46b	3.35b	3.29b	2.83a	-
4.0m	-	-	5.24a	4.99a	4.63b	4.22b	3.94b	3.71b	3.51b	3.41b	2.81a	-
3.0m	-	-	5.98b	6.21b	5.94b	5.10b	4.54b	4.18b	3.87b	3.64b	3.49b	-
2.0m	7.12a	8.24b	7.99b	7.45b	6.90b	5.93b	5.15b	4.63b	4.20b	3.89b	3.65b	2.40a
1.0m	7.64a	10	9.45b	8.41b	7.38b	6.36b	5.55b	4.94b	4.47b	4.08b	3.77b	-
0.0m	10	10	10	8.75b	7.43b	6.44b	5.67b	5.06b	4.56b	4.16b	3.78b	-
-1.0m	10	10	10	8.83b	7.51b	6.51b	5.74b	5.14b	4.62b	4.05b	-	-
-2.0m	10	10	10	9.07b	7.68b	6.61b	5.71b	4.91b	4.01b	-	-	-

2eU

**Level Rail
 0-50mm
 Unlocked
 Below
 67% SWL**



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	3.02b	2.57a	-	-	-	-	-
6.0m	-	-	-	-	-	3.02b	2.58b	2.74a	2.54a	-	-	-
5.0m	-	-	-	-	3.51b	2.98b	2.56b	2.22b	2.51a	2.62a	-	-
4.0m	-	-	4.96b	4.07b	3.42b	2.91b	2.52b	2.20b	2.24a	2.74a	2.63a	-
3.0m	-	-	4.83b	3.97b	3.34b	2.87b	2.49b	2.20b	2.83b	2.51a	2.37a	-
2.0m	-	6.06b	4.80b	3.94b	3.32b	2.86b	2.57b	2.87b	2.72a	2.76a	2.45a	-
1.0m	5.48a	5.11a	5.20a	5.05b	4.28b	3.86b	3.73b	3.09a	3.21a	2.94	2.69	-
0.0m	6.23a	5.37a	5.18a	5.77	4.98	4.39	3.91	3.52	3.2	2.92	2.68	-
-1.0m	9.75a	8.38	6.86	5.78	4.99	4.39	3.91	3.52	3.19	2.92	-	-
-2.0m	10	8.43	6.91	5.83	5.03	4.41	3.93	3.54	3.22	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	-	3.29b	2.97a	-	-	-	-
6.0m	-	-	-	-	-	-	3.20b	3.27b	3.24b	2.86a	-	-
5.0m	-	-	-	-	-	3.73a	3.65b	3.52b	3.40b	3.34b	3.07	-
4.0m	-	-	5.48b	5.55b	4.87b	4.35b	4.00b	3.73	3.38	3.07	2.77	-
3.0m	-	-	6.21b	6.08	5.27	4.64b	4.13	3.71	3.36	3.06	2.76	-
2.0m	-	8.55b	7.17	6.07	5.25	4.62	4.12b	3.71	3.37	3.03	2.74	-
1.0m	8.45a	8.73	7.2	6.1	5.28	4.64	4.14	3.73	3.33	3	2.72	-
0.0m	10	8.63	7.15	6.08	5.28	4.65	4.13	3.67	3.28	2.97	2.69	-
-1.0m	10	8.6	7.11	6.03	5.23	4.59	4.05	3.61	3.24	2.93	-	-
-2.0m	10	8.62	7.12	6.02	5.17	4.52	4	3.58	3.22	-	-	-

2eL

**Level Rail
 0-50mm
 Below
 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	7.5m
7.0m	-	-	-	-	-	3.02b	2.57a	-	-	-	-	-
6.0m	-	-	-	-	-	3.02b	2.58b	2.74a	2.54a	-	-	-
5.0m	-	-	-	-	3.51b	2.98b	2.56b	2.22b	2.51a	2.62a	-	-
4.0m	-	-	4.96b	4.07b	3.42b	2.91b	2.52b	2.20b	2.24a	2.74a	2.63a	-
3.0m	-	-	4.83b	3.97b	3.35b	2.87b	2.49b	2.20b	2.83b	2.51a	2.37a	-
2.0m	-	6.06b	4.80b	3.94b	3.32b	2.86b	2.57b	2.87b	2.72a	2.76a	2.45a	-
1.0m	5.48a	5.11a	5.20a	5.06b	4.28b	3.86b	3.73b	3.09a	3.21a	3.33a	2.85a	-
0.0m	6.23a	5.37a	5.18a	5.90a	5.96b	5.24b	4.71a	3.88a	3.87a	3.24a	2.96a	-
-1.0m	9.75a	9.34a	8.78b	7.44b	6.70b	5.53a	5.38a	4.34a	4.36b	3.91b	-	-
-2.0m	10	10	8.87b	7.30b	6.18b	5.34b	4.84b	4.32b	3.78b	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	-	3.29b	2.97a	-	-	-	-
6.0m	-	-	-	-	-	-	3.20b	3.27b	3.24b	2.86a	-	-
5.0m	-	-	-	-	-	3.73a	3.65b	3.52b	3.40b	3.34b	3.10a	-
4.0m	-	-	5.48b	5.55b	4.87b	4.35b	4.00b	3.76b	3.60b	3.44b	2.92a	-
3.0m	-	-	6.21b	6.37b	6.19b	5.27b	4.69b	4.26b	3.95b	3.70b	3.51b	-
2.0m	-	8.55b	8.20b	7.72b	7.02b	6.04b	5.26b	4.69b	4.25b	3.93b	3.68b	-
1.0m	8.45a	10	9.67b	8.52b	7.39b	6.39b	5.60b	4.99b	4.49b	4.11b	3.78b	-
0.0m	10	10	10	8.76b	7.44b	6.45b	5.68b	5.07b	4.57b	4.17b	3.74b	-
-1.0m	10	10	10	8.86b	7.53b	6.53b						

NETWORK RAIL DUTIES
QUICKHITCH ONLY
SECTOR E 160° - 200°

LOWER SAFE WORKING LOADS

UPPER SAFE WORKING LOADS

3eU

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	3.02b	2.57a	-	-	-	-	-
6.0m	-	-	-	-	-	3.03b	2.58b	2.75a	2.54a	-	-	-
5.0m	-	-	-	-	3.51b	2.98b	2.56b	2.22b	2.51a	2.6	-	-
4.0m	-	-	4.97b	4.07b	3.42b	2.92b	2.52b	2.20b	2.24a	2.57	2.32	-
3.0m	-	-	4.83b	3.97b	3.35b	2.87b	2.49b	2.20b	2.8	2.52a	2.3	-
2.0m	-	6.07b	4.80b	3.94b	3.32b	2.86b	2.57b	2.87b	2.73a	2.49	2.27	-
1.0m	5.47a	5.10a	5.19a	5.06b	4.28b	3.78	3.35	3	2.71	2.46	2.25	-
0.0m	6.22a	5.36a	5.17a	5.03	4.3	3.76	3.33	2.98	2.69	2.44	2.23	-
-1.0m	9.73a	7.55	6.07	5.05	4.31	3.76	3.32	2.97	2.68	2.45	-	-
-2.0m	9.92	7.61	6.12	5.1	4.35	3.78	3.35	2.99	2.71	-	-	-

**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	7.5m
7.0m	-	-	-	-	-	3.29b	2.97a	-	-	-	-	-
6.0m	-	-	-	-	-	3.20b	3.27b	3.24b	2.86a	-	-	-
5.0m	-	-	-	-	3.73a	3.66b	3.52b	3.26	2.92	2.6	-	-
4.0m	-	-	5.48b	5.5	4.71	4.11	3.62	3.23	2.91	2.6	2.33	-
3.0m	-	-	6.22b	5.43	4.66	4.07b	3.6	3.22b	2.9	2.59	2.32	-
2.0m	-	7.97	6.45	5.41	4.64	4.05	3.59	3.22	2.88	2.57	2.3	-
1.0m	8.43a	7.92	6.49	5.44	4.66	4.08	3.61	3.19	2.83	2.53	2.27	-
0.0m	10	7.82	6.38	5.36	4.61	4.03	3.55	3.13	2.78	2.49	2.25	-
-1.0m	10	7.79	6.33	5.31	4.56	3.97	3.47	3.07	2.73	2.46	-	-
-2.0m	10	7.8	6.34	5.29	4.5	3.89	3.42	3.04	2.71	-	-	-

3eL

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m	7.5m
7.0m	-	-	-	-	-	3.02b	2.57a	-	-	-	-	-
6.0m	-	-	-	-	-	3.03b	2.58b	2.74a	2.54a	-	-	-
5.0m	-	-	-	-	3.51b	2.98b	2.56b	2.22b	2.51a	2.62a	-	-
4.0m	-	-	4.96b	4.07b	3.42b	2.91b	2.52b	2.20b	2.24a	2.74a	2.63a	-
3.0m	-	-	4.83b	3.97b	3.35b	2.87b	2.49b	2.20b	2.83b	2.51a	2.37a	-
2.0m	-	6.06b	4.80b	3.94b	3.32b	2.86b	2.57b	2.87b	2.72a	2.76a	2.45a	-
1.0m	5.48a	5.11a	5.19a	5.06b	4.28b	3.86b	3.73b	3.09a	3.22a	3.33a	2.85a	-
0.0m	6.23a	5.37a	5.18a	5.90a	5.96b	5.24b	4.71a	3.88a	3.87a	3.24a	2.96a	-
-1.0m	9.74a	9.34a	8.78b	7.44b	6.70b	5.54a	5.38a	4.34a	4.36b	3.91b	-	-
-2.0m	10	10	8.87b	7.31b	6.18b	5.34b	4.84b	4.32b	3.78b	-	-	-

**Canted Rail
 50-150mm**

**Below
 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	7.5m
7.0m	-	-	-	-	-	3.29b	2.97a	-	-	-	-	-
6.0m	-	-	-	-	-	3.20b	3.27b	3.24b	2.86a	-	-	-
5.0m	-	-	-	-	3.73a	3.65b	3.52b	3.40b	3.34b	3.10a	-	-
4.0m	-	-	5.48b	5.55b	4.87b	4.35b	4.00b	3.76b	3.60b	3.45b	2.92a	-
3.0m	-	-	6.22b	6.37b	6.19b	5.27b	4.69b	4.26b	3.95b	3.70b	3.51b	-
2.0m	-	8.55b	8.20b	7.72b	7.02b	6.04b	5.26b	4.69b	4.25b	3.93b	3.68b	-
1.0m	8.44a	10	9.68b	8.52b	7.39b	6.39b	5.60b	4.99b	4.50b	4.11b	3.78b	-
0.0m	10	10	10	8.76b	7.44b	6.45b	5.68b	5.07b	4.57b	4.17b	3.74b	-
-1.0m	10	10	10	8.86b	7.53b	6.53b	5.76b	5.17b	4.59b	3.98b	-	-
-2.0m	10	10	10	9.07b	7.65b	6.54b	5.60b	4.69b	3.78b	-	-	-