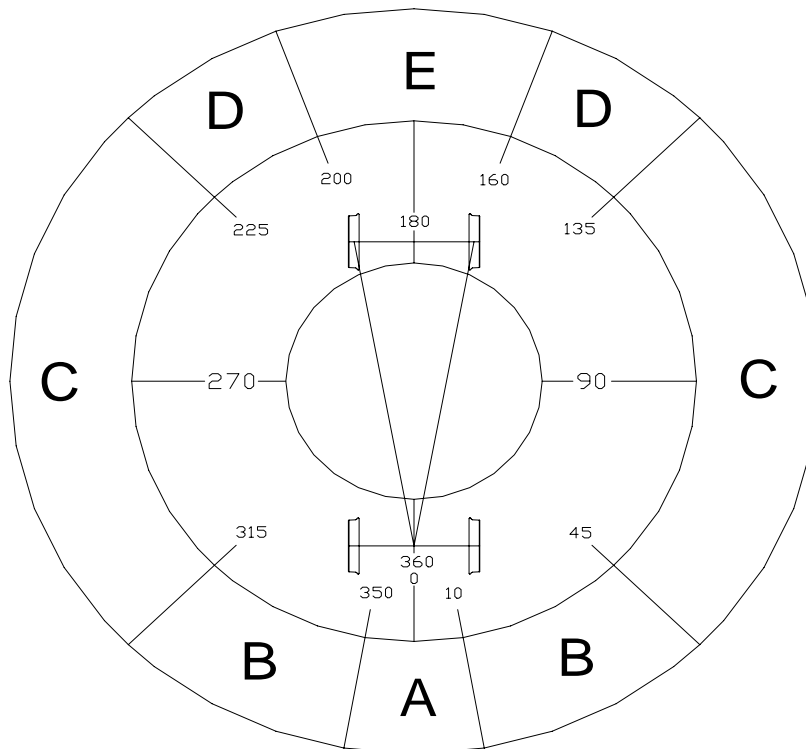


# MEGARAILER

by REXQUOTE

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## Fixed Axle



## Oscillating Axle

Machine Type:	_____	Case WX170
Serial Number:	_____	CGG0232779
Rail Axle Number:	_____	2096
Equipment:	_____	Boom 1.80m Artic 3.10m Arm 2.10m
Date:	_____	25 May 2006
Issue:	_____	2
Software Version:	_____	V1.41

This machine is equipped with a Rexquote Rated Capacity Indicator. This system is designed to comply with RAILWAY SAFETY STANDARD GM/RT 1300 Issue 4

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 1:30 gradient, and with a maximum track twist of 25mm.

**NETWORK RAIL DUTIES**

**SECTOR A**

**LOWER SAFE WORKING LOADS**

**UPPER SAFE WORKING LOADS**

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
7.0m	-	4.82a	5.01a	4.50b	4.61	3.77	-	-	-	-	-
6.0m	-	3.43a	3.80a	4.17a	3.56b	3.84	3.24	2.74	-	-	-
5.0m	-	-	3.25a	3.73a	3.55b	3.01b	3.21	2.75	2.38	-	-
4.0m	-	-	4.49a	4.18b	3.50b	2.99b	2.91r	2.7	2.35	2.06	-
3.0m	-	-	4.97b	4.08b	3.44b	2.76r	2.42r	2.6	2.29	2.02	-
2.0m	-	-	4.12r	3.36r	2.79r	2.66r	2.49r	2.51	2.22	1.98	1.77
1.0m	-	5.44r	4.39r	3.68r	3.19r	2.97r	2.77	2.43	2.16	1.94	1.75
0.0m	6.66a	7.40a	5.87	4.55	3.69	3.12	2.71	2.39	2.13	1.91	-
-1.0m	6.29a	6.85a	5.7	4.48	3.68	3.11	2.7	2.38	2.14	-	-
-2.0m	10	7.93	5.84	4.6	3.79	3.22	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.82a	5.40a	5.49a	4.63	3.77	-	-	-	-	-
6.0m	-	3.43a	4.09a	4.58a	4.72	3.95	3.27	2.74	-	-	-
5.0m	-	-	3.69a	4.31a	4.59a	3.96	3.37	2.83	2.39	-	-
4.0m	-	-	4.49a	4.90a	4.63	3.92	3.38	2.86	2.43	2.07	-
3.0m	-	-	4.97b	5.52	4.57	3.88	3.32	2.85	2.43	2.07	-
2.0m	-	-	5.72r	5.38	4.45	3.77	3.24	2.8	2.38	2.04	1.77
1.0m	-	6.78r	6.51	5.20r	4.32	3.66	3.15	2.71	2.32	1.99	1.75
0.0m	9.71a	8.59	6.41	5.1	4.22	3.57r	3.04	2.59	2.24	1.95	-
-1.0m	10	8.42	6.27	4.99	4.12	3.45	2.9	2.49	2.17	-	-
-2.0m	10	8.32	6.19	4.87	3.99	3.31	-	-	-	-	-

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
7.0m	-	4.82a	5.01a	4.50b	5.19b	4.43	-	-	-	-	-
6.0m	-	3.43a	3.80a	4.17a	3.56b	3.98b	3.89	3.38	-	-	-
5.0m	-	-	3.25a	3.73a	3.55b	3.01b	3.62b	3.39	2.99	-	-
4.0m	-	-	4.49a	4.18b	3.50b	2.99b	2.91r	3.34	2.97	2.65	-
3.0m	-	-	4.97b	4.08b	3.44b	2.76r	2.42r	3.18r	2.91	2.61	-
2.0m	-	-	4.12r	3.36r	2.79r	2.66r	2.49r	3.04r	2.85	2.57	2.33
1.0m	-	5.44r	4.39r	3.68r	3.19r	2.97r	2.77r	3.1	2.8	2.53	2.31
0.0m	6.66a	7.40a	5.91r	4.72r	3.97r	3.57r	3.42	3.06	2.76	2.51	-
-1.0m	6.29a	6.85a	6.38	5.25	4.45	3.86	3.41	3.05	2.78	-	-
-2.0m	10	8.23	6.5	5.35	4.55	3.96	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.82a	5.40a	5.49a	5.27	4.44	-	-	-	-	-
6.0m	-	3.43a	4.09a	4.58a	4.82b	4.56	3.92	3.38	-	-	-
5.0m	-	-	3.69a	4.31a	4.59a	4.55	3.98	3.46	3	-	-
4.0m	-	-	4.49a	4.90a	5.17a	4.51	3.97	3.49	3.03	2.66	-
3.0m	-	-	4.97b	6.07	5.15	4.48	3.92	3.46	3.04	2.66	-
2.0m	-	-	5.72r	5.94	5.06	4.38	3.85	3.41	2.99	2.63	2.34
1.0m	-	6.78r	7	5.81	4.95	4.3	3.77	3.34r	2.94	2.59	2.31
0.0m	9.71a	8.72	6.92	5.72	4.87	4.23	3.72	3.24	2.87	2.55	-
-1.0m	10	8.59	6.84	5.68	4.83	4.16	3.59	3.16	2.8	-	-
-2.0m	10	8.52	6.78	5.58	4.72	4.04	-	-	-	-	-

Level Rail  
 0-50mm  
 66% 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	-	4.42a	4.70a	4.27b	4.65b	5.24b	-	-	-	-	-
6.0m	-	3.21a	3.60a	4.00a	3.56b	3.70b	4.35b	4.57	-	-	-
5.0m	-	-	3.45a	3.75a	3.54b	3.01b	3.55b	4.19b	4	-	-
4.0m	-	-	4.94a	4.15b	3.49b	2.98b	2.62r	3.34r	3.96	3.51	-
3.0m	-	-	4.95b	4.07b	3.43b	2.56r	2.35r	3.12r	3.74r	3.47	3.12
2.0m	-	-	3.76r	3.15r	2.91r	2.71r	2.59r	2.97r	3.83	3.43	3.09
1.0m	-	5.86r	4.54r	3.82r	3.33r	3.12r	2.95r	3.67r	3.77	3.39	3.07
0.0m	6.47a	7.06a	6.29r	4.97r	4.15r	3.69r	4.22r	4.2	3.75	3.38	-
-1.0m	7.54a	8.30a	8.93r	6.76r	5.40r	5.54	4.79	4.22	-	-	-
-2.0m	10	10	10	8.22	6.71	5.69	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.42a	5.05a	5.23b	5.39a	5.49a	-	-	-	-	-
6.0m	-	3.25a	3.93a	4.48a	4.71a	4.92a	5.05b	4.58	-	-	-
5.0m	-	-	3.74a	4.34a	4.64a	4.84a	4.99a	4.61	4.02	-	-
4.0m	-	-	4.94a	5.46a	5.58a	5.60a	5.23	4.59	4.05	3.54	-
3.0m	-	-	5.26b	6.51b	6.96b	6	5.2	4.55	4.02	3.52	3.12
2.0m	-	-	6.04r	7.51r	7.04	5.95	5.13	4.49	3.97	3.49	3.1
1.0m	-	8.43r	9.98r	8.48r	6.95r	5.86	5.07	4.44	3.91	3.45	3.07
0.0m	10	10	10	8.43	6.89	5.83	5.02	4.39	3.83	3.4	-
-1.0m	10	10	10	8.44r	6.89	5.82	4.96	4.3	-	-	-
-2.0m	10	10	10	8.41	6.82	5.71	-	-	-	-	-

Level Rail  
 0-50mm  
 66% 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	-	4.42a	4.70a	4.27b	4.65b	5.24b	-	-	-	-	-
6.0m	-	3.21a	3.60a	4.00a	3.56b	3.70b	4.35b	4.77a	-	-	-
5.0m	-	-	3.45a	3.75a	3.54b	3.01b	3.55b	4.19b	4.66a	-	-
4.0m	-	-	4.94a	4.15b	3.49b	2.98b	2.62r	3.34r	4.15r	4.33a	-
3.0m	-	-	4.95b	4.07b	3.43b	2.56r	2.35r	3.12r	3.74r	4.73b	4.52a
2.0m	-	-	3.76r	3.15r	2.91r	2.71r	2.59r	2.97r	3.83r	4.82r	4.65b
1.0m	-	5.86r	4.54r	3.82r	3.33r	3.12r	2.95r	3.67r	4.61r	5.04b	4.51b
0.0m	6.47a	7.06a	6.29r	4.97r	4.15r	3.69r	4.22r	4.78r	5.38b	4.80b	-
-1.0m	7.54a	8.30a	8.93r	6.76r	5.40r	5.83r	6.35r	5.70b	-	-	-
-2.0m	10	10	10	9.88b	8.42b	7.36b	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.42a	5.05a	5.23b	5.39a	5.49a	-	-	-	-	-
6.0m	-	3.25a	3.93a	4.48a	4.71a	4.92a	5.05b	5.05b	-	-	-
5.0m	-	-	3.74a	4.34a	4.64a	4.84a	4.99a	5.08a	4.90b	-	-
4.0m	-	-	4.94a	5.46a	5.58a	5.60a	5.57a	5.37b	5.04b	4.82b	-
3.0m	-	-	5.26b	6.51b	6.96b	6.93b	6.26b	5.71b	5.28b	4.95b	4.52a
2.0m	-	-	6.04r	7.51r	7.85b	7.46b	6.65b	6.00b	5.48b	5.05b	4.66b
1.0m	-	8.43r	9.98r	9.80b	8.75b	7.73b	6.84b	6.13b	5.55b	5.09b	4.51b
0.0m	10	10	10	10	8.93b	7.77b	6.88b	6.17b	5.62b	4.91b	-
-1.0m	10	10	10	10	9.05b	7.89b	6.98b	6.14b	-	-	-
-2.0m	10	10	10	10	8.93b	7.45b	-	-	-	-	-

**NETWORK RAIL DUTIES**

**SECTOR A**

**LOWER SAFE WORKING LOADS**

**UPPER SAFE WORKING LOADS**

**Canted Rail**

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.42a	4.70a	4.27b	4.65b	4.4	-	-	-	-	-
6.0m	-	3.21a	3.60a	4.00a	3.56b	3.70b	3.82	3.33	-	-	-
5.0m	-	-	3.45a	3.75a	3.54b	3.01b	3.55b	3.32	2.93	-	-
4.0m	-	-	4.94a	4.15b	3.49b	2.98b	2.62r	3.26	2.9	2.59	-
3.0m	-	-	4.95b	4.07b	3.43b	2.56r	2.35r	3.12r	2.84	2.55	2.3
2.0m	-	-	3.76r	3.15r	2.91r	2.71r	2.59r	2.97r	2.78	2.51	2.28
1.0m	-	5.86r	4.54r	3.82r	3.33r	3.12r	2.95r	3.04	2.74	2.48	2.26
0.0m	6.47a	7.06a	6.29r	4.97r	4.15r	3.69r	3.37	3.01	2.71	2.47	-
-1.0m	7.54a	8.23	6.42	5.25	4.44	3.84	3.38	3.02	-	-	-
-2.0m	10	8.38	6.55	5.37	4.54	3.96	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.42a	5.05a	5.23b	5.23	4.41	-	-	-	-	-
6.0m	-	3.25a	3.93a	4.48a	4.71a	4.49	3.87	3.34	-	-	-
5.0m	-	-	3.74a	4.34a	4.64a	4.47	3.91	3.4	2.95	-	-
4.0m	-	-	4.94a	5.46a	5.14	4.44	3.9	3.42	2.98	2.61	-
3.0m	-	-	5.26b	6.01	5.09	4.4	3.84	3.38	2.97	2.6	2.3
2.0m	-	-	6.04r	5.87	4.98	4.3	3.77	3.33	2.93	2.57	2.29
1.0m	-	8.43r	6.99	5.76	4.88	4.22	3.7	3.26	2.85	2.53	2.26
0.0m	10	8.81	6.92	5.69	4.82	4.16	3.63	3.17	2.79	2.48	-
-1.0m	10	8.67	6.83	5.62	4.77	4.07	3.53	3.09	-	-	-
-2.0m	10	8.64	6.78	5.52	4.63	3.98	-	-	-	-	-

**Canted Rail**

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.42a	4.70a	4.27b	4.65b	5.24b	-	-	-	-	-
6.0m	-	3.21a	3.60a	4.00a	3.56b	3.70b	4.35b	4.6	-	-	-
5.0m	-	-	3.45a	3.75a	3.54b	3.01b	3.55b	4.19b	4.01	-	-
4.0m	-	-	4.94a	4.15b	3.49b	2.98b	2.62r	3.34r	3.96	3.5	-
3.0m	-	-	4.95b	4.07b	3.43b	2.56r	2.35r	3.12r	3.74r	3.46	3.09
2.0m	-	-	3.76r	3.15r	2.91r	2.71r	2.59r	2.97r	3.81	3.41	3.06
1.0m	-	5.86r	4.54r	3.82r	3.33r	3.12r	2.95r	3.67r	3.75	3.36	3.04
0.0m	6.47a	7.06a	6.29r	4.97r	4.15r	3.69r	4.22r	4.18	3.72	3.35	-
-1.0m	7.54a	8.30a	8.93r	6.76r	5.40r	5.55	4.78	4.2	-	-	-
-2.0m	10	10	10	8.34	6.77	5.72	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.42a	5.05a	5.23b	5.39a	5.49a	-	-	-	-	-
6.0m	-	3.25a	3.93a	4.48a	4.71a	4.92a	5.05b	4.62	-	-	-
5.0m	-	-	3.74a	4.34a	4.64a	4.84a	4.99a	4.64	4.03	-	-
4.0m	-	-	4.94a	5.46a	5.58a	5.60a	5.28	4.62	4.07	3.53	-
3.0m	-	-	5.26b	6.51b	6.96b	6.07	5.24	4.59	4.03	3.51	3.09
2.0m	-	-	6.04r	7.51r	7.14	6.01r	5.17r	4.52	3.98	3.48	3.07
1.0m	-	8.43r	9.98r	8.64	7.03	5.92	5.1	4.46	3.9	3.43	3.04
0.0m	10	10	10	8.59	6.98	5.86	5.05	4.4	3.82	3.37	-
-1.0m	10	10	10	8.59	6.98	5.85	4.98	4.3	-	-	-
-2.0m	10	10	10	8.56	6.89	5.75	-	-	-	-	-

**Max Cant + Twist**

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	3.02	2.5	2.09	-	-	-	-	-
6.0m	-	-	-	1.88b	2.52	2.13	1.82	1.55	-	-	-
5.0m	-	-	-	1.89b	1.50b	2.09	1.79	1.56	1.35	-	-
4.0m	-	-	-	1.82b	1.48b	1.55r	1.73	1.51	1.33	1.16	-
3.0m	-	-	-	1.74b	1.43b	0.96r	1.56r	1.44	1.28	1.14	-
2.0m	-	-	-	1.31r	1.10r	1.09r	1.47r	1.38	1.23	1.1	0.99
1.0m	-	-	-	1.34r	1.29r	1.23r	1.51	1.32	1.19	1.07	0.97
0.0m	-	-	-	1.76r	1.67r	1.68	1.44	1.29	1.16	1.05	-
-1.0m	-	-	-	2.25	1.89	1.63	1.44	1.29	1.18	-	-
-2.0m	-	-	-	2.29	1.96	1.71	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	3.06	2.52	2.09	-	-	-	-	-
6.0m	-	-	-	3.14	2.63	2.19	1.84	1.55	-	-	-
5.0m	-	-	-	3.12	2.64	2.26	1.9	1.61	1.36	-	-
4.0m	-	-	-	3.07	2.61	2.25	1.92	1.63	1.38	1.17	-
3.0m	-	-	-	3.01	2.56	2.2	1.9	1.62	1.37	1.17	-
2.0m	-	-	-	2.87	2.46	2.12	1.85	1.57	1.34	1.14	0.99
1.0m	-	-	-	2.75	2.36	2.05	1.78	1.5	1.29	1.11	0.97
0.0m	-	-	-	2.67	2.29	1.99	1.68	1.44	1.23	1.07	-
-1.0m	-	-	-	2.63	2.21	1.85	1.59	1.36	1.2	-	-
-2.0m	-	-	-	2.46	2.07	1.76	-	-	-	-	-

**Max Cant + Twist**

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	3.93	3.26	2.74	-	-	-	-	-
6.0m	-	-	-	1.88b	2.97b	2.78	2.39	2.06	-	-	-
5.0m	-	-	-	1.89b	1.5b	2.42r	2.37	2.07	1.81	-	-
4.0m	-	-	-	1.82b	1.48b	1.55r	2.19r	2.02	1.78	1.56	-
3.0m	-	-	-	1.74b	1.43b	0.96r	1.56r	1.95	1.74	1.55	-
2.0m	-	-	-	1.31r	1.10r	1.09r	1.47r	1.88	1.68	1.52	1.37
1.0m	-	-	-	1.34r	1.29r	1.23r	1.96r	1.82	1.64	1.48	1.35
0.0m	-	-	-	1.76r	1.67r	2.01r	2	1.79	1.62	1.47	-
-1.0m	-	-	-	2.81r	2.62	2.29	2	1.79	1.64	-	-
-2.0m	-	-	-	3.16	2.69	2.35	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	3.96	3.27	2.74	-	-	-	-	-
6.0m	-	-	-	4.02	3.38	2.85	2.42	2.06	-	-	-
5.0m	-	-	-	3.98	3.37	2.9	2.47	2.12	1.82	-	-
4.0m	-	-	-	3.50b	3.33	2.87	2.49	2.14	1.84	1.59	-
3.0m	-	-	-	3.22r	3.25	2.81r	2.44	2.13	1.83	1.58	-
2.0m	-	-	-	2.95r	3.14	2.72	2.39	2.08	1.8	1.56	1.37
1.0m	-	-	-	3.57	3.05	2.65	2.32	2.01	1.74	1.53	1.35
0.0m	-	-	-	3.5	2.99	2.6	2.25	1.94	1.69	1.49	-
-1.0m	-	-	-	3.47	2.95	2.49	2.15	1.86	1.65	-	-
-2.0m	-	-	-	3.33	2.81	2.4	-	-	-	-	-

**NETWORK RAIL DUTIES**

**SECTOR B**

**LOWER SAFE WORKING LOADS**

**UPPER SAFE WORKING LOADS**

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
7.0m	-	4.82a	5.01a	4.50b	4.61	3.77	-	-	-	-	-
6.0m	-	3.43a	3.80a	4.17a	3.56b	3.84	3.24	2.74	-	-	-
5.0m	-	-	3.25a	3.73a	3.55b	3.01b	3.21	2.75	2.38	-	-
4.0m	-	-	4.49a	4.18b	3.50b	2.99b	2.91r	2.7	2.35	2.06	-
3.0m	-	-	4.97b	4.08b	3.44b	2.76r	2.42r	2.6	2.29	2.02	-
2.0m	-	-	4.12r	3.36r	2.79r	2.66r	2.49r	2.51	2.22	1.98	1.77
1.0m	-	5.44r	4.39r	3.68r	3.19r	2.97r	2.77	2.43	2.16	1.94	1.75
0.0m	6.66a	7.40a	5.87	4.55	3.69	3.12	2.71	2.39	2.13	1.91	-
-1.0m	6.29a	6.85a	5.7	4.48	3.68	3.11	2.7	2.38	2.14	-	-
-2.0m	10	7.93	5.84	4.6	3.79	3.22	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.82a	5.40a	5.49a	4.63	3.77	-	-	-	-	-
6.0m	-	3.43a	4.09a	4.58a	4.72	3.95	3.27	2.74	-	-	-
5.0m	-	-	3.69a	4.31a	4.59a	3.96	3.37	2.83	2.39	-	-
4.0m	-	-	4.49a	4.90a	4.63	3.92	3.38	2.86	2.43	2.07	-
3.0m	-	-	4.97b	5.52	4.57	3.88	3.32	2.85	2.43	2.07	-
2.0m	-	-	5.72r	5.38	4.45	3.77	3.24	2.8	2.38	2.04	1.77
1.0m	-	6.78r	6.51	5.20r	4.32	3.66	3.15	2.71	2.32	1.99	1.75
0.0m	9.71a	8.59	6.41	5.1	4.22	3.57r	3.04	2.59	2.24	1.95	-
-1.0m	10	8.42	6.27	4.99	4.12	3.45	2.9	2.49	2.17	-	-
-2.0m	10	8.32	6.19	4.87	3.99	3.31	-	-	-	-	-

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
7.0m	-	4.82a	5.01a	4.50b	5.19b	4.43	-	-	-	-	-
6.0m	-	3.43a	3.80a	4.17a	3.56b	3.98b	3.89	3.38	-	-	-
5.0m	-	-	3.25a	3.73a	3.55b	3.01b	3.62b	3.39	2.99	-	-
4.0m	-	-	4.49a	4.18b	3.50b	2.99b	2.91r	3.34	2.97	2.65	-
3.0m	-	-	4.97b	4.08b	3.44b	2.76r	2.42r	3.18r	2.91	2.61	-
2.0m	-	-	4.12r	3.36r	2.79r	2.66r	2.49r	3.04r	2.85	2.57	2.33
1.0m	-	5.44r	4.39r	3.68r	3.19r	2.97r	2.77r	3.1	2.8	2.53	2.31
0.0m	6.66a	7.40a	5.91r	4.72r	3.97r	3.57r	3.42	3.06	2.76	2.51	-
-1.0m	6.29a	6.85a	6.38	5.25	4.45	3.86	3.41	3.05	2.78	-	-
-2.0m	10	8.23	6.5	5.35	4.55	3.96	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.82a	5.40a	5.49a	5.27	4.44	-	-	-	-	-
6.0m	-	3.43a	4.09a	4.58a	4.82b	4.56	3.92	3.38	-	-	-
5.0m	-	-	3.69a	4.31a	4.59a	4.55	3.98	3.46	3	-	-
4.0m	-	-	4.49a	4.90a	5.17a	4.51	3.97	3.49	3.03	2.66	-
3.0m	-	-	4.97b	6.07	5.15	4.48	3.92	3.46	3.04	2.66	-
2.0m	-	-	5.72r	5.94	5.06	4.38	3.85	3.41	2.99	2.63	2.34
1.0m	-	6.78r	7	5.81	4.95	4.3	3.77	3.34r	2.94	2.59	2.31
0.0m	9.71a	8.72	6.92	5.72	4.87	4.23	3.72	3.24	2.87	2.55	-
-1.0m	10	8.59	6.84	5.68	4.83	4.16	3.59	3.16	2.8	-	-
-2.0m	10	8.52	6.78	5.58	4.72	4.04	-	-	-	-	-

Level Rail  
 0-50mm  
 66% 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	-	4.42a	4.70a	4.12	3.43	2.9	-	-	-	-	-
6.0m	-	3.21a	3.60a	4.00a	3.44	2.92	2.51	2.17	-	-	-
5.0m	-	-	3.45a	3.75a	3.35	2.87	2.48	2.16	1.9	-	-
4.0m	-	-	4.94a	3.93	3.21	2.75	2.4	2.11	1.87	1.66	-
3.0m	-	-	4.84	3.83	3.13	2.56r	2.29	2.03	1.81	1.62	1.45
2.0m	-	-	3.76r	3.15r	2.91r	2.49	2.2	1.96	1.76	1.59	1.43
1.0m	-	5.4	4.2	3.39	2.81	2.39	2.13	1.9	1.71	1.55	1.42
0.0m	6.47a	4.94	3.91	3.21	2.7	2.36	2.09	1.87	1.69	1.54	-
-1.0m	6.39	4.83	3.86	3.2	2.72	2.37	2.1	1.88	-	-	-
-2.0m	6.55	4.96	3.97	3.3	2.82	2.48	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.42a	5.05a	4.19	3.47	2.9	-	-	-	-	-
6.0m	-	3.25a	3.93a	4.22	3.56b	3.02	2.56	2.18	-	-	-
5.0m	-	-	3.74a	4.18	3.55	3.07	2.63	2.24	1.92	-	-
4.0m	-	-	4.94a	4.12	3.51	3.05	2.65	2.27	1.94	1.68	-
3.0m	-	-	4.87	4.07b	3.48	3	2.61	2.24	1.93	1.67	1.45
2.0m	-	-	4.7	3.94	3.36	2.92	2.55	2.2	1.89	1.64	1.44
1.0m	-	5.58	4.54r	3.81	3.26	2.81	2.45	2.11	1.82	1.6	1.42
0.0m	6.89	5.33	4.33	3.64	3.12	2.71	2.33	2.03	1.76	1.56	-
-1.0m	6.77	5.21	4.22	3.53	3.03	2.59	2.24	1.95	-	-	-
-2.0m	6.76	5.19	4.17	3.44	2.9	2.5	-	-	-	-	-

Level Rail  
 0-50mm  
 66% 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	-	4.42a	4.70a	4.27b	4.65b	4.8	-	-	-	-	-
6.0m	-	3.21a	3.60a	4.00a	3.56b	3.70b	4.12	3.55	-	-	-
5.0m	-	-	3.45a	3.75a	3.54b	3.01b	3.55b	3.54	3.1	-	-
4.0m	-	-	4.94a	4.15b	3.49b	2.98b	2.62r	3.34r	3.07	2.72	-
3.0m	-	-	4.95b	4.07b	3.43b	2.56r	2.35r	3.12r	3	2.67	2.4
2.0m	-	-	3.76r	3.15r	2.91r	2.71r	2.59r	2.97r	2.92	2.63	2.37
1.0m	-	5.86r	4.54r	3.82r	3.33r	3.12r	2.95r	3.21	2.87	2.59	2.35
0.0m	6.47a	7.06a	6.29r	4.97r	4.15r	3.69r	3.58	3.17	2.84	2.57	-
-1.0m	7.54a	8.30a	7.23	5.78	4.81	4.11	3.59	3.19	-	-	-
-2.0m	10	9.79	7.4	5.93	4.94	4.26	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.42a	5.05a	5.23b	5.39a	4.81	-	-	-	-	-
6.0m	-	3.25a	3.93a	4.48a	4.71a	4.88	4.19	3.56	-	-	-
5.0m	-	-	3.74a	4.34a	4.64a	4.84a	4.20b	3.64	3.13	-	-
4.0m	-	-	4.94a	5.46a	5.56	4.8	4.18	3.65	3.16	2.74	-
3.0m	-	-	5.26b	6.51b	5.55	4.76r	4.13	3.61	3.15	2.73	2.4
2.0m	-	-	6.04r	6.49	5.43	4.64	4.04	3.55	3.1	2.69	2.38
1.0m	-	8.43r	7.87	6.35	5.31	4.55	3.96r	3.48	3.01	2.65	2.35
0.0m	10	10	7.81	6.28	5.25	4.49	3.89	3.37	2.93	2.59	-
-1.0m	10	10	7.75	6.24	5.22	4.4	3.77	3.27	-	-	-
-2.0m	10	10	7.69	6.11	5.05	4.28	-	-	-	-	-

**NETWORK RAIL DUTIES**

**SECTOR B**

**LOWER SAFE WORKING LOADS**

**UPPER SAFE WORKING LOADS**

**Canted Rail**

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.42a	4.70a	3.74	3.05	2.52	-	-	-	-	-
6.0m	-	3.21a	3.60a	3.73	3.05	2.55	2.15	1.83	-	-	-
5.0m	-	-	3.45a	3.6	2.96	2.49	2.12	1.82	1.57	-	-
4.0m	-	-	4.6	3.54	2.81	2.37	2.03	1.76	1.54	1.34	-
3.0m	-	-	4.47	3.43	2.72	2.22	1.92	1.68	1.48	1.31	1.16
2.0m	-	-	3.76r	3.15r	2.55	2.09	1.82	1.6	1.42	1.27	1.13
1.0m	-	5.03	3.75	2.94	2.38	1.98	1.74	1.54	1.38	1.24	1.12
0.0m	6.3	4.49	3.43	2.73	2.25	1.94	1.7	1.51	1.35	1.22	-
-1.0m	6.1	4.36	3.37	2.72	2.28	1.95	1.71	1.52	-	-	-
-2.0m	6.29	4.52	3.5	2.84	2.39	2.08	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.42a	4.77	3.82	3.09	2.53	-	-	-	-	-
6.0m	-	3.25a	3.93a	3.85	3.2	2.66	2.21	1.84	-	-	-
5.0m	-	-	3.74a	3.81	3.18	2.71	2.27	1.9	1.6	-	-
4.0m	-	-	4.6	3.75	3.14	2.7	2.31	1.93	1.62	1.37	-
3.0m	-	-	4.5	3.69	3.11	2.67r	2.28	1.9	1.61	1.35	1.16
2.0m	-	-	4.36	3.58	3.02	2.56	2.19	1.86	1.57	1.33	1.14
1.0m	-	5.23	4.15	3.4	2.86	2.43	2.09	1.77	1.49	1.29	1.12
0.0m	6.7	4.95	3.9	3.21	2.71	2.32	1.96	1.68	1.43	1.24	-
-1.0m	6.55	4.81	3.77	3.09	2.61	2.19	1.86	1.6	-	-	-
-2.0m	6.54	4.78	3.72	2.99	2.47	2.1	-	-	-	-	-

**Canted Rail**

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.42a	4.70a	4.27b	4.64	3.85	-	-	-	-	-
6.0m	-	3.21a	3.60a	4.00a	3.56b	3.70b	3.31	2.84	-	-	-
5.0m	-	-	3.45a	3.75a	3.54b	3.01b	3.26	2.83	2.47	-	-
4.0m	-	-	4.94a	4.15b	3.49b	2.98b	2.62r	2.76	2.43	2.14	-
3.0m	-	-	4.95b	4.07b	3.43b	2.56r	2.35r	2.66	2.36	2.1	1.87
2.0m	-	-	3.76r	3.15r	2.91r	2.71r	2.59r	2.57	2.29	2.05	1.85
1.0m	-	5.86r	4.54r	3.82r	3.33r	3.12r	2.82	2.5	2.24	2.01	1.83
0.0m	6.47a	7.06a	5.61	4.47	3.68	3.17	2.78	2.46	2.21	2	-
-1.0m	7.54a	7.26	5.54	4.46	3.72	3.18	2.78	2.48	-	-	-
-2.0m	10	7.45	5.7	4.6	3.85	3.33	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.42a	5.05a	5.23b	4.68	3.86	-	-	-	-	-
6.0m	-	3.25a	3.93a	4.48a	4.71a	4.00b	3.37	2.85	-	-	-
5.0m	-	-	3.74a	4.34a	4.64a	3.99b	3.45	2.92	2.49	-	-
4.0m	-	-	4.94a	5.44a	4.62	3.95	3.44	2.95	2.52	2.17	-
3.0m	-	-	5.26b	5.44	4.57	3.9	3.37	2.93	2.51	2.15	1.87
2.0m	-	-	6.04r	5.26	4.42	3.79	3.28r	2.87	2.46	2.12	1.85
1.0m	-	8.1	6.28	5.13r	4.3	3.68	3.2	2.76	2.37	2.07	1.83
0.0m	10	7.98	6.19	5.02	4.21	3.61	3.08	2.66	2.29	2.02	-
-1.0m	10	7.81	6.03	4.9	4.12	3.46	2.96	2.56	-	-	-
-2.0m	10	7.78	5.97	4.77	3.95	3.35	-	-	-	-	-

**Max Cant + Twist**

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	3.02	2.5	2.09	-	-	-	-	-
6.0m	-	-	-	1.88b	2.52	2.13	1.82	1.55	-	-	-
5.0m	-	-	-	1.89b	1.50b	2.09	1.79	1.56	1.35	-	-
4.0m	-	-	-	1.82b	1.48b	1.55r	1.73	1.51	1.33	1.16	-
3.0m	-	-	-	1.74b	1.43b	0.96r	1.56r	1.44	1.28	1.14	-
2.0m	-	-	-	1.31r	1.10r	1.09r	1.47r	1.38	1.23	1.1	0.99
1.0m	-	-	-	1.34r	1.29r	1.23r	1.51	1.32	1.19	1.07	0.97
0.0m	-	-	-	1.76r	1.67r	1.68	1.44	1.29	1.16	1.05	-
-1.0m	-	-	-	2.25	1.89	1.63	1.44	1.29	1.18	-	-
-2.0m	-	-	-	2.29	1.96	1.71	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	3.06	2.52	2.09	-	-	-	-	-
6.0m	-	-	-	3.14	2.63	2.19	1.84	1.55	-	-	-
5.0m	-	-	-	3.12	2.64	2.26	1.9	1.61	1.36	-	-
4.0m	-	-	-	3.07	2.61	2.25	1.92	1.63	1.38	1.17	-
3.0m	-	-	-	3.01	2.56	2.2	1.9	1.62	1.37	1.17	-
2.0m	-	-	-	2.87	2.46	2.12	1.85	1.57	1.34	1.14	0.99
1.0m	-	-	-	2.75	2.36	2.05	1.78	1.5	1.29	1.11	0.97
0.0m	-	-	-	2.67	2.29	1.99	1.68	1.44	1.23	1.07	-
-1.0m	-	-	-	2.63	2.21	1.85	1.59	1.36	1.2	-	-
-2.0m	-	-	-	2.46	2.07	1.76	-	-	-	-	-

**Max Cant + Twist**

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	3.93	3.26	2.74	-	-	-	-	-
6.0m	-	-	-	1.88b	2.97b	2.78	2.39	2.06	-	-	-
5.0m	-	-	-	1.89b	1.5b	2.42r	2.37	2.07	1.81	-	-
4.0m	-	-	-	1.82b	1.48b	1.55r	2.19r	2.02	1.78	1.56	-
3.0m	-	-	-	1.74b	1.43b	0.96r	1.56r	1.95	1.74	1.55	-
2.0m	-	-	-	1.31r	1.10r	1.09r	1.47r	1.88	1.68	1.52	1.37
1.0m	-	-	-	1.34r	1.29r	1.23r	1.96r	1.82	1.64	1.48	1.35
0.0m	-	-	-	1.76r	1.67r	2.01r	2	1.79	1.62	1.47	-
-1.0m	-	-	-	2.81r	2.62	2.29	2	1.79	1.64	-	-
-2.0m	-	-	-	3.16	2.69	2.35	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	3.96	3.27	2.74	-	-	-	-	-
6.0m	-	-	-	4.02	3.38	2.85	2.42	2.06	-	-	-
5.0m	-	-	-	3.98	3.37	2.9	2.47	2.12	1.82	-	-
4.0m	-	-	-	3.50b	3.33	2.87	2.49	2.14	1.84	1.59	-
3.0m	-	-	-	3.22r	3.25	2.81r	2.44	2.13	1.83	1.58	-
2.0m	-	-	-	2.95r	3.14	2.72	2.39	2.08	1.8	1.56	1.37
1.0m	-	-	-	3.57	3.05	2.65	2.32	2.01	1.74	1.53	1.35
0.0m	-	-	-	3.5	2.99	2.6	2.25	1.94	1.69	1.49	-
-1.0m	-	-	-	3.47	2.95	2.49	2.15	1.86	1.65	-	-
-2.0m	-	-	-	3.33	2.81	2.4	-	-	-	-	-

**NETWORK RAIL DUTIES**

**SECTOR C**

**LOWER SAFE WORKING LOADS**

**UPPER SAFE WORKING LOADS**

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
7.0m	-	4.82a	5.01a	4.50b	4.61	3.77	-	-	-	-	-
6.0m	-	3.43a	3.80a	4.17a	3.56b	3.84	3.24	2.74	-	-	-
5.0m	-	-	3.25a	3.73a	3.55b	3.01b	3.21	2.75	2.38	-	-
4.0m	-	-	4.49a	4.18b	3.50b	2.99b	2.91r	2.7	2.35	2.06	-
3.0m	-	-	4.97b	4.08b	3.44b	2.76r	2.42r	2.6	2.29	2.02	-
2.0m	-	-	4.12r	3.36r	2.79r	2.66r	2.49r	2.51	2.22	1.98	1.77
1.0m	-	5.44r	4.39r	3.68r	3.19r	2.97r	2.77	2.43	2.16	1.94	1.75
0.0m	6.66a	7.40a	5.87	4.55	3.69	3.12	2.71	2.39	2.13	1.91	-
-1.0m	6.29a	6.85a	5.7	4.48	3.68	3.11	2.7	2.38	2.14	-	-
-2.0m	10	7.93	5.84	4.6	3.79	3.22	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.82a	5.40a	5.49a	4.63	3.77	-	-	-	-	-
6.0m	-	3.43a	4.09a	4.58a	4.72	3.95	3.27	2.74	-	-	-
5.0m	-	-	3.69a	4.31a	4.59a	3.96	3.37	2.83	2.39	-	-
4.0m	-	-	4.49a	4.90a	4.63	3.92	3.38	2.86	2.43	2.07	-
3.0m	-	-	4.97b	5.52	4.57	3.88	3.32	2.85	2.43	2.07	-
2.0m	-	-	5.72r	5.38	4.45	3.77	3.24	2.8	2.38	2.04	1.77
1.0m	-	6.78r	6.51	5.20r	4.32	3.66	3.15	2.71	2.32	1.99	1.75
0.0m	9.71a	8.59	6.41	5.1	4.22	3.57r	3.04	2.59	2.24	1.95	-
-1.0m	10	8.42	6.27	4.99	4.12	3.45	2.9	2.49	2.17	-	-
-2.0m	10	8.32	6.19	4.87	3.99	3.31	-	-	-	-	-

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
7.0m	-	4.82a	5.01a	4.50b	5.19b	4.43	-	-	-	-	-
6.0m	-	3.43a	3.80a	4.17a	3.56b	3.98b	3.89	3.38	-	-	-
5.0m	-	-	3.25a	3.73a	3.55b	3.01b	3.62b	3.39	2.99	-	-
4.0m	-	-	4.49a	4.18b	3.50b	2.99b	2.91r	3.34	2.97	2.65	-
3.0m	-	-	4.97b	4.08b	3.44b	2.76r	2.42r	3.18r	2.91	2.61	-
2.0m	-	-	4.12r	3.36r	2.79r	2.66r	2.49r	3.04r	2.85	2.57	2.33
1.0m	-	5.44r	4.39r	3.68r	3.19r	2.97r	2.77r	3.1	2.8	2.53	2.31
0.0m	6.66a	7.40a	5.91r	4.72r	3.97r	3.57r	3.42	3.06	2.76	2.51	-
-1.0m	6.29a	6.85a	6.38	5.25	4.45	3.86	3.41	3.05	2.78	-	-
-2.0m	10	8.23	6.5	5.35	4.55	3.96	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.82a	5.40a	5.49a	5.27	4.44	-	-	-	-	-
6.0m	-	3.43a	4.09a	4.58a	4.82b	4.56	3.92	3.38	-	-	-
5.0m	-	-	3.69a	4.31a	4.59a	4.55	3.98	3.46	3	-	-
4.0m	-	-	4.49a	4.90a	5.17a	4.51	3.97	3.49	3.03	2.66	-
3.0m	-	-	4.97b	6.07	5.15	4.48	3.92	3.46	3.04	2.66	-
2.0m	-	-	5.72r	5.94	5.06	4.38	3.85	3.41	2.99	2.63	2.34
1.0m	-	6.78r	7	5.81	4.95	4.3	3.77	3.34r	2.94	2.59	2.31
0.0m	9.71a	8.72	6.92	5.72	4.87	4.23	3.72	3.24	2.87	2.55	-
-1.0m	10	8.59	6.84	5.68	4.83	4.16	3.59	3.16	2.8	-	-
-2.0m	10	8.52	6.78	5.58	4.72	4.04	-	-	-	-	-

Level Rail  
 0-50mm  
 66% 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	-	4.42a	4.54	3.68	3.06	2.57	-	-	-	-	-
6.0m	-	3.21a	3.60a	3.68	3.06	2.59	2.22	1.91	-	-	-
5.0m	-	-	3.45a	3.56	2.98	2.54	2.18	1.9	1.66	-	-
4.0m	-	-	4.44	3.5	2.84	2.42	2.1	1.84	1.63	1.43	-
3.0m	-	-	4.32	3.4	2.75	2.29	2	1.77	1.57	1.4	1.25
2.0m	-	-	3.76r	3.15r	2.6	2.16	1.9	1.69	1.51	1.36	1.22
1.0m	-	4.77	3.68	2.96	2.44	2.06	1.83	1.63	1.47	1.33	1.21
0.0m	5.75	4.31	3.4	2.77	2.32	2.03	1.8	1.6	1.45	1.32	-
-1.0m	5.58	4.2	3.34	2.76	2.35	2.04	1.8	1.62	-	-	-
-2.0m	5.74	4.33	3.46	2.87	2.45	2.15	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.42a	4.59	3.76	3.09	2.57	-	-	-	-	-
6.0m	-	3.25a	3.93a	3.79	3.19	2.69	2.27	1.91	-	-	-
5.0m	-	-	3.74a	3.75	3.18	2.74	2.33	1.98	1.68	-	-
4.0m	-	-	4.44	3.69	3.14	2.73	2.36	2	1.7	1.45	-
3.0m	-	-	4.35	3.64	3.11	2.7	2.33	1.98	1.69	1.44	1.25
2.0m	-	-	4.24	3.55	3.02	2.61	2.25	1.93	1.65	1.41	1.23
1.0m	-	4.95	4.04	3.38	2.88	2.48	2.16	1.85	1.58	1.38	1.21
0.0m	6.08	4.7	3.82	3.2	2.74	2.38	2.04	1.76	1.52	1.33	-
-1.0m	5.95	4.58	3.7	3.1	2.66	2.26	1.94	1.69	-	-	-
-2.0m	5.94	4.56	3.66	3	2.53	2.17	-	-	-	-	-

Level Rail  
 0-50mm  
 66% 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	-	4.42a	4.70a	4.27b	4.65b	4.33	-	-	-	-	-
6.0m	-	3.21a	3.60a	4.00a	3.56b	3.70b	3.69	3.16	-	-	-
5.0m	-	-	3.45a	3.75a	3.54b	3.01b	3.55b	3.15	2.74	-	-
4.0m	-	-	4.94a	4.15b	3.49b	2.98b	2.62r	3.08	2.7	2.38	-
3.0m	-	-	4.95b	4.07b	3.43b	2.56r	2.35r	2.98	2.63	2.34	2.08
2.0m	-	-	3.76r	3.15r	2.91r	2.71r	2.59r	2.88	2.56	2.29	2.06
1.0m	-	5.86r	4.54r	3.82r	3.33r	3.12r	2.95r	2.81	2.5	2.25	2.04
0.0m	6.47a	7.06a	6.29r	4.97r	4.15r	3.61	3.14	2.77	2.47	2.23	-
-1.0m	7.54a	8.30a	6.52	5.16	4.26	3.62	3.14	2.79	-	-	-
-2.0m	10	9	6.69	5.31	4.4	3.77	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.42a	5.05a	5.23b	5.26	4.33	-	-	-	-	-
6.0m	-	3.25a	3.93a	4.48a	4.71a	4.45	3.76	3.17	-	-	-
5.0m	-	-	3.74a	4.34a	4.64a	4.43	3.81	3.25	2.77	-	-
4.0m	-	-	4.94a	5.46a	5.15	4.38	3.8	3.28	2.8	2.41	-
3.0m	-	-	5.26b	6.12	5.09	4.33	3.73	3.24	2.79	2.39	2.08
2.0m	-	-	6.04r	5.95	4.95	4.22	3.64	3.18	2.73	2.36	2.06
1.0m	-	8.43r	7.25	5.8	4.83	4.1	3.56	3.08	2.65	2.31	2.04
0.0m	10	9.55	7.16	5.72	4.74	4.04	3.46	2.97	2.56	2.25	-
-1.0m	10	9.4	7.06	5.64	4.68	3.91	3.33	2.87	-	-	-
-2.0m	10	9.36	6.99	5.5	4.5	3.8	-	-	-	-	-

**NETWORK RAIL DUTIES**

**SECTOR C**

**LOWER SAFE WORKING LOADS**

**UPPER SAFE WORKING LOADS**

**Canted Rail**

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.42a	3.93	3.18	2.64	2.21	-	-	-	-	-
6.0m	-	3.21a	3.60a	3.18	2.64	2.24	1.91	1.63	-	-	-
5.0m	-	-	3.45a	3.07	2.57	2.18	1.87	1.62	1.41	-	-
4.0m	-	-	3.82	3.01	2.43	2.07	1.8	1.57	1.38	1.21	-
3.0m	-	-	3.71	2.91	2.34	1.94	1.69	1.49	1.32	1.17	1.04
2.0m	-	-	3.46	2.72	2.2	1.82	1.6	1.42	1.27	1.14	1.02
1.0m	-	4.01	3.1	2.48	2.04	1.72	1.53	1.36	1.23	1.11	1
0.0m	4.72	3.57	2.82	2.3	1.93	1.69	1.49	1.33	1.2	1.09	-
-1.0m	4.56	3.46	2.77	2.29	1.95	1.7	1.5	1.35	-	-	-
-2.0m	4.71	3.59	2.88	2.39	2.05	1.81	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.42a	3.97	3.26	2.68	2.21	-	-	-	-	-
6.0m	-	3.25a	3.93a	3.28	2.77	2.33	1.95	1.64	-	-	-
5.0m	-	-	3.74a	3.25	2.76	2.38	2.02	1.7	1.43	-	-
4.0m	-	-	3.82	3.19	2.73	2.37	2.05	1.72	1.45	1.23	-
3.0m	-	-	3.74	3.14	2.69	2.35	2.02	1.7	1.44	1.22	1.04
2.0m	-	-	3.7	3.1	2.62	2.25	1.94	1.66	1.4	1.19	1.02
1.0m	-	4.18	3.44	2.89	2.47	2.13	1.85	1.57	1.33	1.15	1
0.0m	5.03	3.94	3.23	2.72	2.34	2.02	1.73	1.49	1.27	1.11	-
-1.0m	4.91	3.83	3.12	2.62	2.25	1.91	1.63	1.41	-	-	-
-2.0m	4.9	3.81	3.07	2.52	2.13	1.83	-	-	-	-	-

**Canted Rail**

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.42a	4.70a	4.27b	4.21	3.5	-	-	-	-	-
6.0m	-	3.21a	3.60a	4.00a	3.56b	3.54	3.01	2.58	-	-	-
5.0m	-	-	3.45a	3.75a	3.54b	3.01b	2.97	2.57	2.24	-	-
4.0m	-	-	4.94a	4.15b	3.49b	2.98b	2.62r	2.5	2.2	1.94	-
3.0m	-	-	4.95b	4.07b	3.43b	2.56r	2.35r	2.41	2.14	1.9	1.69
2.0m	-	-	3.76r	3.15r	2.91r	2.71r	2.59r	2.32	2.07	1.85	1.67
1.0m	-	5.86r	4.54r	3.82r	3.33r	2.88	2.54	2.25	2.01	1.81	1.65
0.0m	6.47a	6.5	4.97	3.98	3.29	2.84	2.49	2.21	1.99	1.8	-
-1.0m	7.54a	6.35	4.9	3.96	3.32	2.85	2.5	2.23	-	-	-
-2.0m	9.14	6.53	5.05	4.1	3.45	2.99	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.42a	5.05a	5.19	4.26	3.51	-	-	-	-	-
6.0m	-	3.25a	3.93a	4.48a	4.32	3.66	3.07	2.59	-	-	-
5.0m	-	-	3.74a	4.34a	4.29	3.67	3.15	2.67	2.26	-	-
4.0m	-	-	4.94a	5.05	4.24	3.64	3.16	2.69	2.29	1.96	-
3.0m	-	-	5.26b	4.96b	4.19	3.58	3.09	2.67	2.28	1.95	1.69
2.0m	-	-	5.85	4.8	4.04	3.47	3.02r	2.61	2.23	1.92	1.67
1.0m	-	7.21	5.67	4.66	3.92	3.37	2.94	2.51	2.15	1.87	1.65
0.0m	9.62	7.03	5.52	4.53	3.82	3.27	2.79	2.41	2.07	1.82	-
-1.0m	9.44	6.87	5.37	4.39	3.71	3.12	2.67	2.31	-	-	-
-2.0m	9.43	6.84	5.31	4.27	3.54	3.02	-	-	-	-	-

**Max Cant + Twist**

**150-177mm**

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	3.02	2.5	2.09	-	-	-	-	-
6.0m	-	-	-	1.88b	2.52	2.13	1.82	1.55	-	-	-
5.0m	-	-	-	1.89b	1.50b	2.09	1.79	1.56	1.35	-	-
4.0m	-	-	-	1.82b	1.48b	1.55r	1.73	1.51	1.33	1.16	-
3.0m	-	-	-	1.74b	1.43b	0.96r	1.56r	1.44	1.28	1.14	-
2.0m	-	-	-	1.31r	1.10r	1.09r	1.47r	1.38	1.23	1.1	0.99
1.0m	-	-	-	1.34r	1.29r	1.23r	1.51	1.32	1.19	1.07	0.97
0.0m	-	-	-	1.76r	1.67r	1.68	1.44	1.29	1.16	1.05	-
-1.0m	-	-	-	2.25	1.89	1.63	1.44	1.29	1.18	-	-
-2.0m	-	-	-	2.29	1.96	1.71	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	3.06	2.52	2.09	-	-	-	-	-
6.0m	-	-	-	3.14	2.63	2.19	1.84	1.55	-	-	-
5.0m	-	-	-	3.12	2.64	2.26	1.9	1.61	1.36	-	-
4.0m	-	-	-	3.07	2.61	2.25	1.92	1.63	1.38	1.17	-
3.0m	-	-	-	3.01	2.56	2.2	1.9	1.62	1.37	1.17	-
2.0m	-	-	-	2.87	2.46	2.12	1.85	1.57	1.34	1.14	0.99
1.0m	-	-	-	2.75	2.36	2.05	1.78	1.5	1.29	1.11	0.97
0.0m	-	-	-	2.67	2.29	1.99	1.68	1.44	1.23	1.07	-
-1.0m	-	-	-	2.63	2.21	1.85	1.59	1.36	1.2	-	-
-2.0m	-	-	-	2.46	2.07	1.76	-	-	-	-	-

**Max Cant + Twist**

**150-177mm**

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	3.93	3.26	2.74	-	-	-	-	-
6.0m	-	-	-	1.88b	2.97b	2.78	2.39	2.06	-	-	-
5.0m	-	-	-	1.89b	1.5b	2.42r	2.37	2.07	1.81	-	-
4.0m	-	-	-	1.82b	1.48b	1.55r	2.19r	2.02	1.78	1.56	-
3.0m	-	-	-	1.74b	1.43b	0.96r	1.56r	1.95	1.74	1.55	-
2.0m	-	-	-	1.31r	1.10r	1.09r	1.47r	1.88	1.68	1.52	1.37
1.0m	-	-	-	1.34r	1.29r	1.23r	1.96r	1.82	1.64	1.48	1.35
0.0m	-	-	-	1.76r	1.67r	2.01r	2	1.79	1.62	1.47	-
-1.0m	-	-	-	2.81r	2.62	2.29	2	1.79	1.64	-	-
-2.0m	-	-	-	3.16	2.69	2.35	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	3.96	3.27	2.74	-	-	-	-	-
6.0m	-	-	-	4.02	3.38	2.85	2.42	2.06	-	-	-
5.0m	-	-	-	3.98	3.37	2.9	2.47	2.12	1.82	-	-
4.0m	-	-	-	3.50b	3.33	2.87	2.49	2.14	1.84	1.59	-
3.0m	-	-	-	3.22r	3.25	2.81r	2.44	2.13	1.83	1.58	-
2.0m	-	-	-	2.95r	3.14	2.72	2.39	2.08	1.8	1.56	1.37
1.0m	-	-	-	3.57	3.05	2.65	2.32	2.01	1.74	1.53	1.35
0.0m	-	-	-	3.5	2.99	2.6	2.25	1.94	1.69	1.49	-
-1.0m	-	-	-	3.47	2.95	2.49	2.15	1.86	1.65	-	-
-2.0m	-	-	-	3.33	2.81	2.4	-	-	-	-	-

**NETWORK RAIL DUTIES**

**SECTOR D**

**LOWER SAFE WORKING LOADS**

**UPPER SAFE WORKING LOADS**

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
7.0m	-	4.82a	5.01a	4.50b	5.19b	5.52a	-	-	-	-	-
6.0m	-	3.43a	3.80a	4.17a	3.56b	3.98b	4.58b	4.75	-	-	-
5.0m	-	-	3.25a	3.73a	3.55b	3.01b	3.62b	4.32b	4.29	-	-
4.0m	-	-	4.49a	4.18b	3.50b	2.99b	2.91r	3.68r	4.26	3.87	-
3.0m	-	-	4.97b	4.08b	3.44b	2.76r	2.42r	3.18r	3.76r	3.84	-
2.0m	-	-	4.12r	3.36r	2.79r	2.66r	2.49r	3.04r	3.85r	3.8	3.49
1.0m	-	5.44r	4.39r	3.68r	3.19r	2.97r	2.77r	3.34r	4.11	3.76	3.47
0.0m	6.66a	7.40a	5.91r	4.72r	3.97r	3.57r	3.82r	4.47	4.08	3.75	-
-1.0m	6.29a	6.85a	8.25a	6.14r	5.07r	5.08r	4.92	4.46	4.09	-	-
-2.0m	10	10	8.5	7.23	6.29	5.57	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.82a	5.40a	5.49a	5.62a	5.62a	-	-	-	-	-
6.0m	-	3.43a	4.09a	4.58a	4.82b	5.00a	5.12b	4.75	-	-	-
5.0m	-	-	3.69a	4.31a	4.59a	4.82a	4.96b	4.79	4.3	-	-
4.0m	-	-	4.49a	4.90a	5.17a	5.31a	5.29	4.77	4.32	3.88	-
3.0m	-	-	4.97b	6.30b	6.66	5.89	5.27	4.76	4.3	3.88	-
2.0m	-	-	5.72r	7.19r	6.62	5.85	5.22	4.7	4.26	3.85	3.49
1.0m	-	6.78r	8.63r	7.51	6.54	5.78	5.16	4.66r	4.22	3.81	3.47
0.0m	9.71a	10	8.76	7.46	6.49	5.73	5.12	4.63	4.17	3.78	-
-1.0m	10	10	8.76	7.45	6.47r	5.72	5.08	4.55	4.11	-	-
-2.0m	10	10	8.73	7.43	6.44	5.65	-	-	-	-	-

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
7.0m	-	4.82a	5.01a	4.50b	5.17	4.46	-	-	-	-	-
6.0m	-	3.43a	3.80a	4.17a	3.56b	3.98b	3.96	3.49	-	-	-
5.0m	-	-	3.25a	3.73a	3.55b	3.01b	3.62b	3.5	3.13	-	-
4.0m	-	-	4.49a	4.18b	3.50b	2.99b	2.91r	3.46	3.1	2.8	-
3.0m	-	-	4.97b	4.08b	3.44b	2.76r	2.42r	3.18r	3.05	2.77	-
2.0m	-	-	4.12r	3.36r	2.79r	2.66r	2.49r	3.04r	3	2.73	2.5
1.0m	-	5.44r	4.39r	3.68r	3.19r	2.97r	2.77r	3.24	2.95	2.7	2.48
0.0m	6.66a	7.40a	5.91r	4.72r	3.97r	3.57r	3.54	3.2	2.92	2.68	-
-1.0m	6.29a	6.85a	6.09	5.16	4.48	3.95	3.53	3.2	2.93	-	-
-2.0m	9.51	7.51	6.19	5.25	4.56	4.03	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.82a	5.40a	5.49a	5.19	4.46	-	-	-	-	-
6.0m	-	3.43a	4.09a	4.58a	4.82b	4.57b	3.99	3.49	-	-	-
5.0m	-	-	3.69a	4.31a	4.59a	4.55b	4.05	3.56	3.14	-	-
4.0m	-	-	4.49a	4.90a	5.14	4.52	4.03	3.59	3.17	2.81	-
3.0m	-	-	4.97b	5.87	5.1	4.49	3.99	3.56	3.17	2.81	-
2.0m	-	-	5.72r	5.77	5.01	4.41	3.92	3.51	3.13	2.78	2.5
1.0m	-	6.78r	6.63	5.66	4.91r	4.33	3.86	3.45	3.08	2.74	2.48
0.0m	9.71a	7.93	6.56	5.58	4.84	4.27	3.81	3.37	3.01	2.71	-
-1.0m	9.77	7.8	6.47	5.53	4.81	4.21	3.69	3.29	2.95	-	-
-2.0m	9.74	7.74	6.42	5.44	4.71	4.1	-	-	-	-	-

Level Rail  
 0-50mm  
 66% 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	-	4.42a	4.70a	4.27b	4.15	3.54	-	-	-	-	-
6.0m	-	3.21a	3.60a	4.00a	3.56b	3.56	3.09	2.7	-	-	-
5.0m	-	-	3.45a	3.75a	3.54b	3.01b	3.06	2.69	2.38	-	-
4.0m	-	-	4.94a	4.15b	3.49b	2.98b	2.62r	2.64	2.35	2.1	-
3.0m	-	-	4.95b	4.07b	3.43b	2.56r	2.35r	2.56	2.3	2.07	1.87
2.0m	-	-	3.76r	3.15r	2.91r	2.71r	2.59r	2.49	2.24	2.03	1.85
1.0m	-	5.86r	4.54r	3.82r	3.33r	3.04	2.71	2.43	2.2	2	1.83
0.0m	6.47a	6.11	4.88	4.04	3.43	3.01	2.67	2.4	2.18	1.99	-
-1.0m	7.54a	6	4.83	4.03	3.45	3.02	2.68	2.41	-	-	-
-2.0m	8.01	6.13	4.95	4.13	3.55	3.13	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.42a	5.05a	4.98	4.19	3.54	-	-	-	-	-
6.0m	-	3.25a	3.93a	4.48a	4.25	3.67	3.14	2.71	-	-	-
5.0m	-	-	3.74a	4.34a	4.22b	3.67	3.2	2.77	2.4	-	-
4.0m	-	-	4.94a	4.88	4.18	3.65	3.2	2.79	2.43	2.12	-
3.0m	-	-	5.26b	4.82	4.14	3.6	3.16	2.77	2.42	2.11	1.87
2.0m	-	-	5.58	4.69	4.02	3.51	3.09	2.73	2.38	2.08	1.85
1.0m	-	6.67	5.43	4.57	3.93	3.42	3.02	2.64	2.31	2.05	1.83
0.0m	8.34	6.49	5.3	4.47	3.84	3.35	2.91	2.56	2.25	2	-
-1.0m	8.22	6.37	5.19	4.36	3.76	3.24	2.82	2.48	-	-	-
-2.0m	8.21	6.35	5.14	4.27	3.63	3.15	-	-	-	-	-

Level Rail  
 0-50mm  
 66% 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	-	4.42a	4.70a	4.27b	4.65b	5.24b	-	-	-	-	-
6.0m	-	3.21a	3.60a	4.00a	3.56b	3.70b	4.35b	4.5	-	-	-
5.0m	-	-	3.45a	3.75a	3.54b	3.01b	3.55b	4.19b	3.99	-	-
4.0m	-	-	4.94a	4.15b	3.49b	2.98b	2.62r	3.34r	3.96	3.56	-
3.0m	-	-	4.95b	4.07b	3.43b	2.56r	2.35r	3.12r	3.74r	3.52	3.19
2.0m	-	-	3.76r	3.15r	2.91r	2.71r	2.59r	2.97r	3.83	3.48	3.17
1.0m	-	5.86r	4.54r	3.82r	3.33r	3.12r	2.95r	3.67r	3.78	3.44	3.15
0.0m	6.47a	7.06a	6.29r	4.97r	4.15r	3.69r	4.22r	4.14	3.75	3.42	-
-1.0m	7.54a	8.30a	8.53	6.76r	5.40r	5.23	4.63	4.16	-	-	-
-2.0m	10	10	8.66	7.18	6.13	5.37	-	-	-	-	-


	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.42a	5.05a	5.23b	5.39a	5.49a	-	-	-	-	-
6.0m	-	3.25a	3.93a	4.48a	4.71a	4.92a	5.05b	4.51	-	-	-
5.0m	-	-	3.74a	4.34a	4.64a	4.84a	4.99a	4.54	4.02	-	-
4.0m	-	-	4.94a	5.46a	5.58a	5.60a	5.07	4.53	4.05	3.58	-
3.0m	-	-	5.26b	6.51b	6.54b	5.7	5.04	4.49	4.01	3.57	3.19
2.0m	-	-	6.04r	7.51r	6.47	5.63	4.97	4.43r	3.97	3.54	3.17
1.0m	-	8.43r	8.98	7.46	6.38	5.55r	4.9	4.38	3.91	3.49	3.15
0.0m	10	10	8.95	7.41	6.32	5.5	4.86	4.33	3.83	3.44	-
-1.0m	10	10	8.95	7.42	6.32	5.49	4.79	4.24	-	-	-
-2.0m	10	10	8.91	7.34	6.22	5.39	-	-	-	-	-

**NETWORK RAIL DUTIES**

**SECTOR D**


**LOWER SAFE WORKING LOADS**

**UPPER SAFE WORKING LOADS**

**Canted Rail**  



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.42a	4.70a	4.27b	3.6	3.04	-	-	-	-	-
6.0m	-	3.21a	3.60a	4.00a	3.56b	3.07	2.64	2.29	-	-	-
5.0m	-	-	3.45a	3.75a	3.52	3.01b	2.61	2.28	2.01	-	-
4.0m	-	-	4.94a	4.12	3.37	2.9	2.53	2.23	1.98	1.75	-
3.0m	-	-	4.95b	4.02	3.29	2.56r	2.35r	2.15	1.92	1.72	1.54
2.0m	-	-	3.76r	3.15r	2.91r	2.64	2.33	2.08	1.86	1.68	1.52
1.0m	-	5.68	4.42	3.58	2.98	2.54	2.26	2.02	1.82	1.65	1.51
0.0m	6.47a	5.21	4.13	3.4	2.86	2.5	2.22	1.99	1.8	1.64	-
-1.0m	6.75	5.11	4.08	3.39	2.89	2.51	2.23	2	-	-	-
-2.0m	6.91	5.24	4.2	3.49	2.99	2.63	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.42a	5.05a	4.38	3.63	3.05	-	-	-	-	-
6.0m	-	3.25a	3.93a	4.4	3.72	3.17	2.69	2.3	-	-	-
5.0m	-	-	3.74a	4.34a	3.7	3.21	2.76	2.36	2.03	-	-
4.0m	-	-	4.94a	4.29	3.67	3.18b	2.78	2.38	2.05	1.77	-
3.0m	-	-	5.08	4.24	3.63	3.14	2.73	2.36	2.04	1.76	1.54
2.0m	-	-	4.91	4.12	3.52	3.05	2.67	2.32	2	1.74	1.53
1.0m	-	5.86	4.75	3.98	3.41	2.95	2.58	2.23	1.93	1.7	1.51
0.0m	7.25	5.61	4.56	3.83	3.28	2.85	2.46	2.15	1.87	1.65	-
-1.0m	7.12	5.49	4.44	3.72	3.19	2.73	2.36	2.07	-	-	-
-2.0m	7.11	5.46	4.4	3.63	3.07	2.65	-	-	-	-	-

**Canted Rail**  



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.42a	4.70a	4.27b	4.65b	4.96	-	-	-	-	-
6.0m	-	3.21a	3.60a	4.00a	3.56b	3.70b	4.35b	3.84	-	-	-
5.0m	-	-	3.45a	3.75a	3.54b	3.01b	3.55b	3.83	3.41	-	-
4.0m	-	-	4.94a	4.15b	3.49b	2.98b	2.62r	3.34r	3.38	3.04	-
3.0m	-	-	4.95b	4.07b	3.43b	2.56r	2.35r	3.12r	3.32	3	2.73
2.0m	-	-	3.76r	3.15r	2.91r	2.71r	2.59r	2.97r	3.26	2.96	2.71
1.0m	-	5.86r	4.54r	3.82r	3.33r	3.12r	2.95r	3.53	3.21	2.93	2.69
0.0m	6.47a	7.06a	6.29r	4.97r	4.15r	3.69r	3.89	3.5	3.18	2.91	-
-1.0m	7.54a	8.30a	6.9	5.79	4.99	4.37	3.9	3.52	-	-	-
-2.0m	10	8.65	7.03	5.91	5.1	4.5	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.42a	5.05a	5.23b	5.39a	4.96	-	-	-	-	-
6.0m	-	3.25a	3.93a	4.48a	4.71a	4.92a	4.41	3.85	-	-	-
5.0m	-	-	3.74a	4.34a	4.64a	4.84a	4.41	3.92	3.44	-	-
4.0m	-	-	4.94a	5.46a	5.57a	4.94	4.39	3.92	3.46	3.07	-
3.0m	-	-	5.26b	6.5	5.6	4.91	4.34	3.87	3.45	3.05	2.73
2.0m	-	-	6.04r	6.37	5.5	4.82	4.27	3.81	3.41	3.02	2.71
1.0m	-	8.43r	7.42	6.26	5.4	4.73	4.2	3.76	3.33	2.98	2.69
0.0m	10	9.04	7.35	6.2	5.34	4.68	4.16	3.68	3.26	2.93	-
-1.0m	10	8.93	7.3	6.16	5.33	4.62	4.05	3.59	-	-	-
-2.0m	10	8.9	7.25	6.06	5.18	4.52	-	-	-	-	-

**Max Cant + Twist**  


	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	3.02	2.5	2.09	-	-	-	-	-
6.0m	-	-	-	1.88b	2.52	2.13	1.82	1.55	-	-	-
5.0m	-	-	-	1.89b	1.50b	2.09	1.79	1.56	1.35	-	-
4.0m	-	-	-	1.82b	1.48b	1.55r	1.73	1.51	1.33	1.16	-
3.0m	-	-	-	1.74b	1.43b	0.96r	1.56r	1.44	1.28	1.14	-
2.0m	-	-	-	1.31r	1.10r	1.09r	1.47r	1.38	1.23	1.1	0.99
1.0m	-	-	-	1.34r	1.29r	1.23r	1.51	1.32	1.19	1.07	0.97
0.0m	-	-	-	1.76r	1.67r	1.68	1.44	1.29	1.16	1.05	-
-1.0m	-	-	-	2.25	1.89	1.63	1.44	1.29	1.18	-	-
-2.0m	-	-	-	2.29	1.96	1.71	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	3.06	2.52	2.09	-	-	-	-	-
6.0m	-	-	-	3.14	2.63	2.19	1.84	1.55	-	-	-
5.0m	-	-	-	3.12	2.64	2.26	1.9	1.61	1.36	-	-
4.0m	-	-	-	3.07	2.61	2.25	1.92	1.63	1.38	1.17	-
3.0m	-	-	-	3.01	2.56	2.2	1.9	1.62	1.37	1.17	-
2.0m	-	-	-	2.87	2.46	2.12	1.85	1.57	1.34	1.14	0.99
1.0m	-	-	-	2.75	2.36	2.05	1.78	1.5	1.29	1.11	0.97
0.0m	-	-	-	2.67	2.29	1.99	1.68	1.44	1.23	1.07	-
-1.0m	-	-	-	2.63	2.21	1.85	1.59	1.36	1.2	-	-
-2.0m	-	-	-	2.46	2.07	1.76	-	-	-	-	-

**Max Cant + Twist**  


	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	3.93	3.26	2.74	-	-	-	-	-
6.0m	-	-	-	1.88b	2.97b	2.78	2.39	2.06	-	-	-
5.0m	-	-	-	1.89b	1.5b	2.42r	2.37	2.07	1.81	-	-
4.0m	-	-	-	1.82b	1.48b	1.55r	2.19r	2.02	1.78	1.56	-
3.0m	-	-	-	1.74b	1.43b	0.96r	1.56r	1.95	1.74	1.55	-
2.0m	-	-	-	1.31r	1.10r	1.09r	1.47r	1.88	1.68	1.52	1.37
1.0m	-	-	-	1.34r	1.29r	1.23r	1.96r	1.82	1.64	1.48	1.35
0.0m	-	-	-	1.76r	1.67r	2.01r	2	1.79	1.62	1.47	-
-1.0m	-	-	-	2.81r	2.62	2.29	2	1.79	1.64	-	-
-2.0m	-	-	-	3.16	2.69	2.35	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	3.96	3.27	2.74	-	-	-	-	-
6.0m	-	-	-	4.02	3.38	2.85	2.42	2.06	-	-	-
5.0m	-	-	-	3.98	3.37	2.9	2.47	2.12	1.82	-	-
4.0m	-	-	-	3.50b	3.33	2.87	2.49	2.14	1.84	1.59	-
3.0m	-	-	-	3.22r	3.25	2.81r	2.44	2.13	1.83	1.58	-
2.0m	-	-	-	2.95r	3.14	2.72	2.39	2.08	1.8	1.56	1.37
1.0m	-	-	-	3.57	3.05	2.65	2.32	2.01	1.74	1.53	1.35
0.0m	-	-	-	3.5	2.99	2.6	2.25	1.94	1.69	1.49	-
-1.0m	-	-	-	3.47	2.95	2.49	2.15	1.86	1.65	-	-
-2.0m	-	-	-	3.33	2.81	2.4	-	-	-	-	-

**NETWORK RAIL DUTIES**

**SECTOR E**

**LOWER SAFE WORKING LOADS**

**UPPER SAFE WORKING LOADS**

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
7.0m	-	4.82a	5.01a	4.50b	5.19b	5.52a	-	-	-	-	-
6.0m	-	3.43a	3.80a	4.17a	3.56b	3.98b	4.58b	4.75	-	-	-
5.0m	-	-	3.25a	3.73a	3.55b	3.01b	3.62b	4.32b	4.29	-	-
4.0m	-	-	4.49a	4.18b	3.50b	2.99b	2.91r	3.68r	4.26	3.87	-
3.0m	-	-	4.97b	4.08b	3.44b	2.76r	2.42r	3.18r	3.76r	3.84	-
2.0m	-	-	4.12r	3.36r	2.79r	2.66r	2.49r	3.04r	3.85r	3.8	3.49
1.0m	-	5.44r	4.39r	3.68r	3.19r	2.97r	2.77r	3.34r	4.11	3.76	3.47
0.0m	6.66a	7.40a	5.91r	4.72r	3.97r	3.57r	3.82r	4.47	4.08	3.75	-
-1.0m	6.29a	6.85a	8.25a	6.14r	5.07r	5.08r	4.92	4.46	4.09	-	-
-2.0m	10	10	8.5	7.23	6.29	5.57	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.82a	5.40a	5.49a	5.62a	5.62a	-	-	-	-	-
6.0m	-	3.43a	4.09a	4.58a	4.82b	5.00a	5.12b	4.75	-	-	-
5.0m	-	-	3.69a	4.31a	4.59a	4.82a	4.96b	4.79	4.3	-	-
4.0m	-	-	4.49a	4.90a	5.17a	5.31a	5.29	4.77	4.32	3.88	-
3.0m	-	-	4.97b	6.30b	6.66	5.89	5.27	4.76	4.3	3.88	-
2.0m	-	-	5.72r	7.19r	6.62	5.85	5.22	4.7	4.26	3.85	3.49
1.0m	-	6.78r	8.63r	7.51	6.54	5.78	5.16	4.66r	4.22	3.81	3.47
0.0m	9.71a	10	8.76	7.46	6.49	5.73	5.12	4.63	4.17	3.78	-
-1.0m	10	10	8.76	7.45	6.47r	5.72	5.08	4.55	4.11	-	-
-2.0m	10	10	8.73	7.43	6.44	5.65	-	-	-	-	-

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
7.0m	-	4.82a	5.01a	4.50b	5.17	4.46	-	-	-	-	-
6.0m	-	3.43a	3.80a	4.17a	3.56b	3.98b	3.96	3.49	-	-	-
5.0m	-	-	3.25a	3.73a	3.55b	3.01b	3.62b	3.5	3.13	-	-
4.0m	-	-	4.49a	4.18b	3.50b	2.99b	2.91r	3.46	3.1	2.8	-
3.0m	-	-	4.97b	4.08b	3.44b	2.76r	2.42r	3.18r	3.05	2.77	-
2.0m	-	-	4.12r	3.36r	2.79r	2.66r	2.49r	3.04r	3	2.73	2.5
1.0m	-	5.44r	4.39r	3.68r	3.19r	2.97r	2.77r	3.24	2.95	2.7	2.48
0.0m	6.66a	7.40a	5.91r	4.72r	3.97r	3.57r	3.54	3.2	2.92	2.68	-
-1.0m	6.29a	6.85a	6.09	5.16	4.48	3.95	3.53	3.2	2.93	-	-
-2.0m	9.51	7.51	6.19	5.25	4.56	4.03	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.82a	5.40a	5.49a	5.19	4.46	-	-	-	-	-
6.0m	-	3.43a	4.09a	4.58a	4.82b	4.57b	3.99	3.49	-	-	-
5.0m	-	-	3.69a	4.31a	4.59a	4.55b	4.05	3.56	3.14	-	-
4.0m	-	-	4.49a	4.90a	5.14	4.52	4.03	3.59	3.17	2.81	-
3.0m	-	-	4.97b	5.87	5.1	4.49	3.99	3.56	3.17	2.81	-
2.0m	-	-	5.72r	5.77	5.01	4.41	3.92	3.51	3.13	2.78	2.5
1.0m	-	6.78r	6.63	5.66	4.91r	4.33	3.86	3.45	3.08	2.74	2.48
0.0m	9.71a	7.93	6.56	5.58	4.84	4.27	3.81	3.37	3.01	2.71	-
-1.0m	9.77	7.8	6.47	5.53	4.81	4.21	3.69	3.29	2.95	-	-
-2.0m	9.74	7.74	6.42	5.44	4.71	4.1	-	-	-	-	-

Level Rail  
 0-50mm  
 66% 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	-	4.42a	4.70a	4.27b	4.65b	5.24b	-	-	-	-	-
6.0m	-	3.21a	3.60a	4.00a	3.56b	3.70b	4.35b	4.77a	-	-	-
5.0m	-	-	3.45a	3.75a	3.54b	3.01b	3.55b	4.19b	4.66a	-	-
4.0m	-	-	4.94a	4.15b	3.49b	2.98b	2.62r	3.34r	4.15r	4.33a	-
3.0m	-	-	4.95b	4.07b	3.43b	2.56r	2.35r	3.12r	3.74r	4.73b	4.52a
2.0m	-	-	3.76r	3.15r	2.91r	2.71r	2.59r	2.97r	3.83r	4.82r	4.65b
1.0m	-	5.86r	4.54r	3.82r	3.33r	3.12r	2.95r	3.67r	4.61r	5.04b	4.51b
0.0m	6.47a	7.06a	6.29r	4.97r	4.15r	3.69r	4.22r	4.78r	5.38b	4.80b	-
-1.0m	7.54a	8.30a	8.93r	6.76r	5.40r	5.83r	6.35r	5.70b	-	-	-
-2.0m	10	10	10	9.88b	8.42b	7.36b	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.42a	5.05a	5.23b	5.39a	5.49a	-	-	-	-	-
6.0m	-	3.25a	3.93a	4.48a	4.71a	4.92a	5.05b	5.05b	-	-	-
5.0m	-	-	3.74a	4.34a	4.64a	4.84a	4.99a	5.08a	4.90b	-	-
4.0m	-	-	4.94a	5.46a	5.58a	5.60a	5.57a	5.37b	5.04b	4.82b	-
3.0m	-	-	5.26b	6.51b	6.96b	6.93b	6.26b	5.71b	5.28b	4.95b	4.52a
2.0m	-	-	6.04r	7.51r	7.85b	7.46b	6.65b	6.00b	5.48b	5.05b	4.66b
1.0m	-	8.43r	9.98r	9.80b	8.75b	7.73b	6.84b	6.13b	5.55b	5.09b	4.51b
0.0m	10	10	10	10	8.93b	7.77b	6.88b	6.17b	5.62b	4.91b	-
-1.0m	10	10	10	10	9.05b	7.89b	6.98b	6.14b	-	-	-
-2.0m	10	10	10	10	8.93b	7.45b	-	-	-	-	-

Level Rail  
 0-50mm  
 66% 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	-	4.42a	4.70a	4.27b	4.65b	5.24b	-	-	-	-	-
6.0m	-	3.21a	3.60a	4.00a	3.56b	3.70b	4.35b	4.77a	-	-	-
5.0m	-	-	3.45a	3.75a	3.54b	3.01b	3.55b	4.19b	4.66a	-	-
4.0m	-	-	4.94a	4.15b	3.49b	2.98b	2.62r	3.34r	4.15r	4.33a	-
3.0m	-	-	4.95b	4.07b	3.43b	2.56r	2.35r	3.12r	3.74r	4.73b	4.52a
2.0m	-	-	3.76r	3.15r	2.91r	2.71r	2.59r	2.97r	3.83r	4.82r	4.65b
1.0m	-	5.86r	4.54r	3.82r	3.33r	3.12r	2.95r	3.67r	4.61r	5.04b	4.51b
0.0m	6.47a	7.06a	6.29r	4.97r	4.15r	3.69r	4.22r	4.78r	5.38b	4.80b	-
-1.0m	7.54a	8.30a	8.93r	6.76r	5.40r	5.83r	6.35r	5.70b	-	-	-
-2.0m	10	10	10	9.88b	8.42b	7.36b	-	-	-	-	-


	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.42a	5.05a	5.23b	5.39a	5.49a	-	-	-	-	-
6.0m	-	3.25a	3.93a	4.48a	4.71a	4.92a	5.05b	5.05b	-	-	-
5.0m	-	-	3.74a	4.34a	4.64a	4.84a	4.99a	5.08a	4.90b	-	-
4.0m	-	-	4.94a	5.46a	5.58a	5.60a	5.57a	5.37b	5.04b	4.82b	-
3.0m	-	-	5.26b	6.51b	6.96b	6.93b	6.26b	5.71b	5.28b	4.95b	4.52a
2.0m	-	-	6.04r	7.51r	7.85b	7.46b	6.65b	6.00b	5.48b	5.05b	4.66b
1.0m	-	8.43r	9.98r	9.80b	8.75b	7.73b	6.84b	6.13b	5.55b	5.09b	4.51b
0.0m	10	10	10	10	8.93b	7.77b	6.88b	6.17b	5.62b	4.91b	-
-1.0m	10	10	10	10	9.05b	7.89b	6.98b	6.14b	-	-	-
-2.0m	10	10	10	10	8.93b	7.45b	-	-	-	-	-

**NETWORK RAIL DUTIES**

**SECTOR E**


**LOWER SAFE WORKING LOADS**

**UPPER SAFE WORKING LOADS**

**Canted Rail**  
**50-150mm**  
**66% 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	-	4.42a	4.70a	4.27b	4.65b	5.24b	-	-	-	-	-
6.0m	-	3.21a	3.60a	4.00a	3.56b	3.70b	4.35b	4.77a	-	-	-
5.0m	-	-	3.45a	3.75a	3.54b	3.01b	3.55b	4.19b	4.66a	-	-
4.0m	-	-	4.94a	4.15b	3.49b	2.98b	2.62r	3.34r	4.15r	4.33a	-
3.0m	-	-	4.95b	4.07b	3.43b	2.56r	2.35r	3.12r	3.74r	4.73b	4.52a
2.0m	-	-	3.76r	3.15r	2.91r	2.71r	2.59r	2.97r	3.83r	4.82r	4.65b
1.0m	-	5.86r	4.54r	3.82r	3.33r	3.12r	2.95r	3.67r	4.61r	5.04b	4.51b
0.0m	6.47a	7.06a	6.29r	4.97r	4.15r	3.69r	4.22r	4.78r	5.38b	4.80b	-
-1.0m	7.54a	8.30a	8.93r	6.76r	5.40r	5.83r	6.35r	5.70b	-	-	-
-2.0m	10	10	10	9.88b	8.42b	7.36b	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.42a	5.05a	5.23b	5.39a	5.49a	-	-	-	-	-
6.0m	-	3.25a	3.93a	4.48a	4.71a	4.92a	5.05b	5.05b	-	-	-
5.0m	-	-	3.74a	4.34a	4.64a	4.84a	4.99a	5.08a	4.90b	-	-
4.0m	-	-	4.94a	5.46a	5.58a	5.60a	5.57a	5.37b	5.04b	4.82b	-
3.0m	-	-	5.26b	6.51b	6.96b	6.93b	6.26b	5.71b	5.28b	4.95b	4.52a
2.0m	-	-	6.04r	7.51r	7.85b	7.46b	6.65b	6.00b	5.48b	5.05b	4.66b
1.0m	-	8.43r	9.98r	9.80b	8.75b	7.73b	6.84b	6.13b	5.55b	5.09b	4.51b
0.0m	10	10	10	10	8.93b	7.77b	6.88b	6.17b	5.62b	4.91b	-
-1.0m	10	10	10	10	9.05b	7.89b	6.98b	6.14b	-	-	-
-2.0m	10	10	10	10	8.93b	7.45b	-	-	-	-	-

**Canted Rail**  
**50-150mm**  
**66% 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	-	4.42a	4.70a	4.27b	4.65b	5.24b	-	-	-	-	-
6.0m	-	3.21a	3.60a	4.00a	3.56b	3.70b	4.35b	4.77a	-	-	-
5.0m	-	-	3.45a	3.75a	3.54b	3.01b	3.55b	4.19b	4.66a	-	-
4.0m	-	-	4.94a	4.15b	3.49b	2.98b	2.62r	3.34r	4.15r	4.33a	-
3.0m	-	-	4.95b	4.07b	3.43b	2.56r	2.35r	3.12r	3.74r	4.73b	4.52a
2.0m	-	-	3.76r	3.15r	2.91r	2.71r	2.59r	2.97r	3.83r	4.82r	4.65b
1.0m	-	5.86r	4.54r	3.82r	3.33r	3.12r	2.95r	3.67r	4.61r	5.04b	4.51b
0.0m	6.47a	7.06a	6.29r	4.97r	4.15r	3.69r	4.22r	4.78r	5.38b	4.80b	-
-1.0m	7.54a	8.30a	8.93r	6.76r	5.40r	5.83r	6.35r	5.70b	-	-	-
-2.0m	10	10	10	9.88b	8.42b	7.36b	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	4.42a	5.05a	5.23b	5.39a	5.49a	-	-	-	-	-
6.0m	-	3.25a	3.93a	4.48a	4.71a	4.92a	5.05b	5.05b	-	-	-
5.0m	-	-	3.74a	4.34a	4.64a	4.84a	4.99a	5.08a	4.90b	-	-
4.0m	-	-	4.94a	5.46a	5.58a	5.60a	5.57a	5.37b	5.04b	4.82b	-
3.0m	-	-	5.26b	6.51b	6.96b	6.93b	6.26b	5.71b	5.28b	4.95b	4.52a
2.0m	-	-	6.04r	7.51r	7.85b	7.46b	6.65b	6.00b	5.48b	5.05b	4.66b
1.0m	-	8.43r	9.98r	9.80b	8.75b	7.73b	6.84b	6.13b	5.55b	5.09b	4.51b
0.0m	10	10	10	10	8.93b	7.77b	6.88b	6.17b	5.62b	4.91b	-
-1.0m	10	10	10	10	9.05b	7.89b	6.98b	6.14b	-	-	-
-2.0m	10	10	10	10	8.93b	7.45b	-	-	-	-	-

**Max Cant + Twist**  
**150-177mm**  
**66% 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	-	-	-	3.02	2.5	2.09	-	-	-	-	-
6.0m	-	-	-	1.88b	2.52	2.13	1.82	1.55	-	-	-
5.0m	-	-	-	1.89b	1.50b	2.09	1.79	1.56	1.35	-	-
4.0m	-	-	-	1.82b	1.48b	1.55r	1.73	1.51	1.33	1.16	-
3.0m	-	-	-	1.74b	1.43b	0.96r	1.56r	1.44	1.28	1.14	-
2.0m	-	-	-	1.31r	1.10r	1.09r	1.47r	1.38	1.23	1.1	0.99
1.0m	-	-	-	1.34r	1.29r	1.23r	1.51	1.32	1.19	1.07	0.97
0.0m	-	-	-	1.76r	1.67r	1.68	1.44	1.29	1.16	1.05	-
-1.0m	-	-	-	2.25	1.89	1.63	1.44	1.29	1.18	-	-
-2.0m	-	-	-	2.29	1.96	1.71	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	3.06	2.52	2.09	-	-	-	-	-
6.0m	-	-	-	3.14	2.63	2.19	1.84	1.55	-	-	-
5.0m	-	-	-	3.12	2.64	2.26	1.9	1.61	1.36	-	-
4.0m	-	-	-	3.07	2.61	2.25	1.92	1.63	1.38	1.17	-
3.0m	-	-	-	3.01	2.56	2.2	1.9	1.62	1.37	1.17	-
2.0m	-	-	-	2.87	2.46	2.12	1.85	1.57	1.34	1.14	0.99
1.0m	-	-	-	2.75	2.36	2.05	1.78	1.5	1.29	1.11	0.97
0.0m	-	-	-	2.67	2.29	1.99	1.68	1.44	1.23	1.07	-
-1.0m	-	-	-	2.63	2.21	1.85	1.59	1.36	1.2	-	-
-2.0m	-	-	-	2.46	2.07	1.76	-	-	-	-	-

**Max Cant + Twist**  
**150-177mm**  
**66% 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	-	-	-	3.93	3.26	2.74	-	-	-	-	-
6.0m	-	-	-	1.88b	2.97b	2.78	2.39	2.06	-	-	-
5.0m	-	-	-	1.89b	1.5b	2.42r	2.37	2.07	1.81	-	-
4.0m	-	-	-	1.82b	1.48b	1.55r	2.19r	2.02	1.78	1.56	-
3.0m	-	-	-	1.74b	1.43b	0.96r	1.56r	1.95	1.74	1.55	-
2.0m	-	-	-	1.31r	1.10r	1.09r	1.47r	1.88	1.68	1.52	1.37
1.0m	-	-	-	1.34r	1.29r	1.23r	1.96r	1.82	1.64	1.48	1.35
0.0m	-	-	-	1.76r	1.67r	2.01r	2	1.79	1.62	1.47	-
-1.0m	-	-	-	2.81r	2.62	2.29	2	1.79	1.64	-	-
-2.0m	-	-	-	3.16	2.69	2.35	-	-	-	-	-

	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	3.96	3.27	2.74	-	-	-	-	-
6.0m	-	-	-	4.02	3.38	2.85	2.42	2.06	-	-	-
5.0m	-	-	-	3.98	3.37	2.9	2.47	2.12	1.82	-	-
4.0m	-	-	-	3.50b	3.33	2.87	2.49	2.14	1.84	1.59	-
3.0m	-	-	-	3.22r	3.25	2.81r	2.44	2.13	1.83	1.58	-
2.0m	-	-	-	2.95r	3.14	2.72	2.39	2.08	1.8	1.56	1.37
1.0m	-	-	-	3.57	3.05	2.65	2.32	2.01	1.74	1.53	1.35
0.0m	-	-	-	3.5	2.99	2.6	2.25	1.94	1.69	1.49	-
-1.0m	-	-	-	3.47	2.95	2.49	2.15	1.86	1.65	-	-
-2.0m	-	-	-	3.33	2.81	2.4	-	-	-	-	-