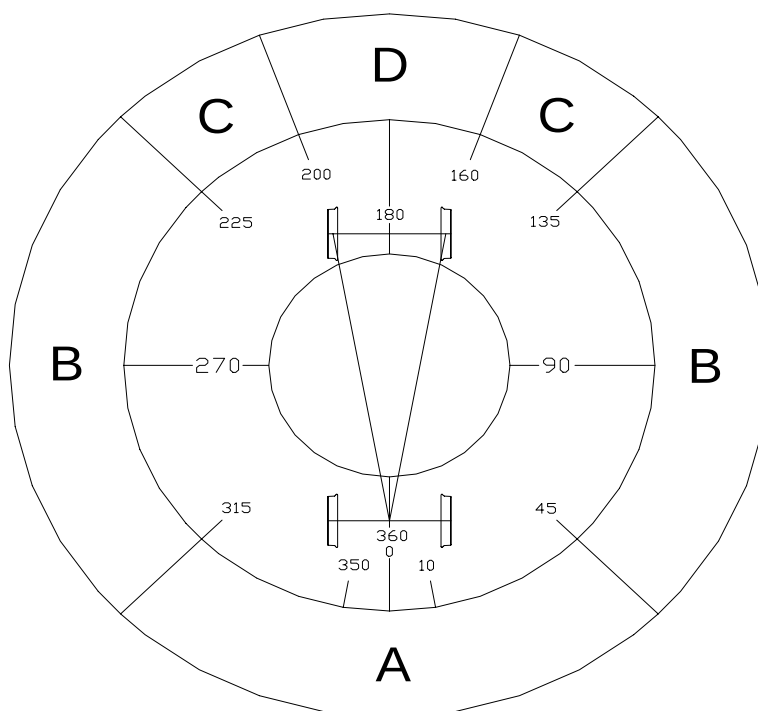


REXQUOTE

Broadgauge Business Park
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Fixed Axle



Oscillating Axle

ROAD DUTIES WITH COUNTERWEIGHT IN

Machine Type:	COLMAR T10,000
Serial Number:	8034
Network Rail Number:	99709 940558-8
Equipment:	Boom 4.080m Arm 2.105m
Date:	31 August 2010
Issue:	3
Software Version:	V 2.11.14.00

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, 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 30mm.

ROAD DUTIES SECTOR A

**DIPPER
RETRACTED
Road**

71% SWL

Unlocked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
6.0m	-	-	-	-	-	4.21	-	-	-	-	-
5.0m	-	-	-	-	-	4.2	3.61	3.11	-	-	-
4.0m	-	-	-	-	4.82	4.1	3.55	3.09	-	-	-
3.0m	-	-	-	5.47	4.61	3.96	3.44	3.03	2.68	-	-
2.0m	-	-	-	5.19	4.41	3.81	3.33	2.95	2.63	-	-
1.0m	-	-	-	5.01	4.26	3.69	3.25	2.89	2.59	-	-
0.0m	-	-	5.98	4.93	4.19	3.64	3.2	2.86	-	-	-
-1.0m	-	-	-	-	-	-	-	-	-	-	-

**DIPPER
EXTENDED
Road**

71% SWL

Unlocked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	-	-	2.44	-	-	-	-
6.0m	-	-	-	-	-	-	-	2.14	1.85	-	-
5.0m	-	-	-	-	-	-	-	2.13	1.87	1.64	-
4.0m	-	-	-	-	-	-	2.41	2.1	1.84	1.63	1.44
3.0m	-	-	-	-	-	2.7	2.34	2.05	1.81	1.6	1.43
2.0m	-	-	-	-	3.03	2.6	2.26	1.98	1.76	1.57	1.41
1.0m	-	-	-	3.43	2.9	2.5	2.18	1.93	1.72	1.54	1.39
0.0m	-	-	4.03	3.32	2.82	2.43	2.13	1.88	1.68	1.52	1.38
-1.0m	-	5.05	3.99	3.28	2.77	2.39	2.1	1.86	1.67	-	-

**DIPPER
RETRACTED
Road**

71% SWL

Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
6.0m	-	-	-	-	-	9.27b	-	-	-	-	-
5.0m	-	-	-	-	-	9.15b	8.45	6.92	-	-	-
4.0m	-	-	-	-	10.36b	9.58b	8.35	6.89	-	-	-
3.0m	-	-	-	12.89b	11.37b	10.19	8.18	6.79	5.76	-	-
2.0m	-	-	-	14.19b	12.27b	9.92	8	6.67	5.69	-	-
1.0m	-	-	-	14.60b	12.63b	9.71	7.85	6.57	5.63	-	-
0.0m	-	-	13.47a	13.90b	12.15b	9.61	7.78	6.53	-	-	-
-1.0m	-	-	-	-	-	-	-	-	-	-	-

**DIPPER
EXTENDED
Road**

71% SWL

Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	-	-	5.67	-	-	-	-
6.0m	-	-	-	-	-	-	-	4.7	3.93	-	-
5.0m	-	-	-	-	-	-	-	4.69	3.95	3.37	-
4.0m	-	-	-	-	-	-	5.63	4.64	3.92	3.37	2.92
3.0m	-	-	-	-	-	6.89	5.51	4.56	3.86	3.33	2.91
2.0m	-	-	-	-	8.79	6.7	5.37	4.46	3.79	3.28	2.88
1.0m	-	-	-	12.2	8.53	6.52	5.25	4.37	3.73	3.23	2.85
0.0m	-	-	13.63a	11.94	8.36	6.4	5.16	4.3	3.68	3.2	2.84
-1.0m	-	10.45a	15	11.82	8.27	6.33	5.11	4.27	3.66	-	-

ROAD DUTIES SECTOR B

**DIPPER
RETRACTED
Road**

71% SWL

Unlocked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
6.0m	-	-	-	-	-	4.21	-	-	-	-	-
5.0m	-	-	-	-	-	4.2	3.61	3.11	-	-	-
4.0m	-	-	-	-	4.82	4.1	3.55	3.09	-	-	-
3.0m	-	-	-	5.47	4.61	3.96	3.44	3.03	2.68	-	-
2.0m	-	-	-	5.19	4.41	3.81	3.33	2.95	2.63	-	-
1.0m	-	-	-	5.01	4.26	3.69	3.25	2.89	2.59	-	-
0.0m	-	-	5.98	4.93	4.19	3.64	3.2	2.86	-	-	-
-1.0m	-	-	-	-	-	-	-	-	-	-	-

**DIPPER
EXTENDED
Road**

71% SWL

Unlocked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	-	-	2.44	-	-	-	-
6.0m	-	-	-	-	-	-	-	2.14	1.85	-	-
5.0m	-	-	-	-	-	-	-	2.13	1.87	1.64	-
4.0m	-	-	-	-	-	-	2.41	2.1	1.84	1.63	1.44
3.0m	-	-	-	-	-	2.7	2.34	2.05	1.81	1.6	1.43
2.0m	-	-	-	-	3.03	2.6	2.26	1.98	1.76	1.57	1.41
1.0m	-	-	-	3.43	2.9	2.5	2.18	1.93	1.72	1.54	1.39
0.0m	-	-	4.03	3.32	2.82	2.43	2.13	1.88	1.68	1.52	1.38
-1.0m	-	5.05	3.99	3.28	2.77	2.39	2.1	1.86	1.67	-	-

**DIPPER
RETRACTED
Road**

71% SWL

Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
6.0m	-	-	-	-	-	8.34	-	-	-	-	-
5.0m	-	-	-	-	-	8.33	7.22	6.31	-	-	-
4.0m	-	-	-	-	9.63	8.23	7.15	6.29	-	-	-
3.0m	-	-	-	11.22	9.41	8.07	7.04	6.22	5.56	-	-
2.0m	-	-	-	10.91	9.19	7.91	6.92	6.14	5.5	-	-
1.0m	-	-	-	10.71	9.03	7.79	6.83	6.08	5.46	-	-
0.0m	-	-	13.06	10.63	8.96	7.73	6.79	6.05	-	-	-
-1.0m	-	-	-	-	-	-	-	-	-	-	-

**DIPPER
EXTENDED
Road**

71% SWL

Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	-	-	4.82	-	-	-	-
6.0m	-	-	-	-	-	-	-	4.26	3.75	-	-
5.0m	-	-	-	-	-	-	-	4.25	3.77	3.36	-
4.0m	-	-	-	-	-	-	4.79	4.21	3.75	3.36	3.02
3.0m	-	-	-	-	-	5.42	4.72	4.16	3.71	3.33	3.01
2.0m	-	-	-	-	6.19	5.31	4.63	4.09	3.66	3.3	2.99
1.0m	-	-	-	7.2	6.06	5.21	4.55	4.03	3.61	3.26	2.97
0.0m	-	-	8.71	7.09	5.96	5.13	4.49	3.99	3.58	3.24	2.96
-1.0m	-	10.45a	8.66	7.04	5.92	5.09	4.46	3.97	3.56	-	-

ROAD DUTIES SECTOR C

**DIPPER
RETRACTED
Road**

71% SWL

Unlocked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
6.0m	-	-	-	-	-	9.27b	-	-	-	-	-
5.0m	-	-	-	-	-	9.15b	8.12	7.07	-	-	-
4.0m	-	-	-	-	10.36b	9.34	8.05	7.05	-	-	-
3.0m	-	-	-	12.89b	10.8	9.17	7.94	6.98	6.2	-	-
2.0m	-	-	-	12.73	10.56	9	7.82	6.89	6.14	-	-
1.0m	-	-	-	12.51	10.39	8.87	7.72	6.82	6.1	-	-
0.0m	-	-	13.47a	12.43	10.31	8.8	7.67	6.79	-	-	-
-1.0m	-	-	-	-	-	-	-	-	-	-	-

**DIPPER
EXTENDED
Road**

71% SWL

Unlocked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	-	-	5.42	-	-	-	-
6.0m	-	-	-	-	-	-	-	4.76	4.18	-	-
5.0m	-	-	-	-	-	-	-	4.76	4.2	3.74	-
4.0m	-	-	-	-	-	-	5.39	4.72	4.18	3.73	3.35
3.0m	-	-	-	-	-	6.16	5.31	4.66	4.13	3.7	3.34
2.0m	-	-	-	-	7.11	6.03	5.22	4.59	4.08	3.66	3.32
1.0m	-	-	-	8.41	6.96	5.92	5.14	4.53	4.03	3.63	3.29
0.0m	-	-	10.41	8.28	6.86	5.84	5.08	4.48	4	3.61	3.29
-1.0m	-	10.45a	10.35	8.23	6.81	5.8	5.05	4.46	3.99	-	-

**DIPPER
RETRACTED
Road**

71% SWL

Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
6.0m	-	-	-	-	-	9.27b	-	-	-	-	-
5.0m	-	-	-	-	-	9.15b	8.75b	7.76a	-	-	-
4.0m	-	-	-	-	10.36b	9.58b	8.96b	8.47b	-	-	-
3.0m	-	-	-	12.89b	11.37b	10.25b	9.39b	8.66	6.45	-	-
2.0m	-	-	-	14.19b	12.27b	10.87b	9.79b	8.42	6.32	-	-
1.0m	-	-	-	14.60b	12.63b	11.11b	9.90b	8.23	6.22	-	-
0.0m	-	-	13.47a	13.90b	12.15b	10.70b	9.45b	8.15	-	-	-
-1.0m	-	-	-	-	-	-	-	-	-	-	-

**DIPPER
EXTENDED
Road**

71% SWL

Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	-	-	6.47a	-	-	-	-
6.0m	-	-	-	-	-	-	-	6.15	4.47	-	-
5.0m	-	-	-	-	-	-	-	6.13	4.51	3.49	-
4.0m	-	-	-	-	-	-	6.95a	6.03	4.45	3.47	2.79
3.0m	-	-	-	-	-	7.86a	8.03a	5.86	4.35	3.41	2.77
2.0m	-	-	-	-	11.23b	10.06b	8.37	5.67	4.23	3.34	2.72
1.0m	-	-	-	0	12.26b	10.81b	8.08	5.5	4.12	3.27	2.68
0.0m	-	-	13.63a	14.64b	12.63b	11.10b	7.86	5.37	4.04	3.22	2.66
-1.0m	-	10.45a	16.33b	14.00b	12.16b	10.69b	7.75	5.31	4.01	-	-

ROAD DUTIES SECTOR D

**DIPPER
RETRACTED
Road**

87% SWL

Unlocked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
6.0m	-	-	-	-	-	9.27b	-	-	-	-	-
5.0m	-	-	-	-	-	9.15b	8.75b	7.76a	-	-	-
4.0m	-	-	-	-	10.36b	9.58b	8.96b	8.47b	-	-	-
3.0m	-	-	-	12.89b	11.37b	10.25b	9.39b	8.70b	8.12b	-	-
2.0m	-	-	-	14.19b	12.27b	10.87b	9.79b	8.92b	8.16b	-	-
1.0m	-	-	-	14.60b	12.63b	11.11b	9.90b	8.89b	7.92b	-	-
0.0m	-	-	13.47a	13.90b	12.15b	10.70b	9.45b	8.30b	-	-	-
-1.0m	-	-	-	-	-	-	-	-	-	-	-

**DIPPER
EXTENDED
Road**

87% SWL

Unlocked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	-	-	6.47a	-	-	-	-
6.0m	-	-	-	-	-	-	-	6.59a	5.30a	-	-
5.0m	-	-	-	-	-	-	-	6.81a	6.22	5.44a	-
4.0m	-	-	-	-	-	-	6.95a	7.13	6.19	5.45	4.55a
3.0m	-	-	-	-	-	7.86a	8.03a	7.05	6.14	5.42	4.83
2.0m	-	-	-	-	11.23b	9.71	8.13	6.96	6.07	5.37	4.81
1.0m	-	-	-	14.20b	11.8	9.56	8.02	6.88	6.01	5.33	4.78
0.0m	-	-	13.63a	14.64b	11.66	9.45	7.93	6.82	5.97	5.3	4.77
-1.0m	-	10.45a	15	14.00b	11.59	9.4	7.89	6.79	5.95	-	-

**DIPPER
RETRACTED
Road**

87% SWL

Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
6.0m	-	-	-	-	-	9.27b	-	-	-	-	-
5.0m	-	-	-	-	-	9.15b	8.75b	7.76a	-	-	-
4.0m	-	-	-	-	10.36b	9.58b	8.96b	8.47b	-	-	-
3.0m	-	-	-	12.89b	11.37b	10.25b	9.39b	8.70b	8.12b	-	-
2.0m	-	-	-	14.19b	12.27b	10.87b	9.79b	8.92b	8.16b	-	-
1.0m	-	-	-	14.60b	12.63b	11.11b	9.90b	8.89b	7.92b	-	-
0.0m	-	-	13.47a	13.90b	12.15b	10.70b	9.45b	8.30b	-	-	-
-1.0m	-	-	-	-	-	-	-	-	-	-	-

**DIPPER
EXTENDED
Road**

87% SWL

Locked

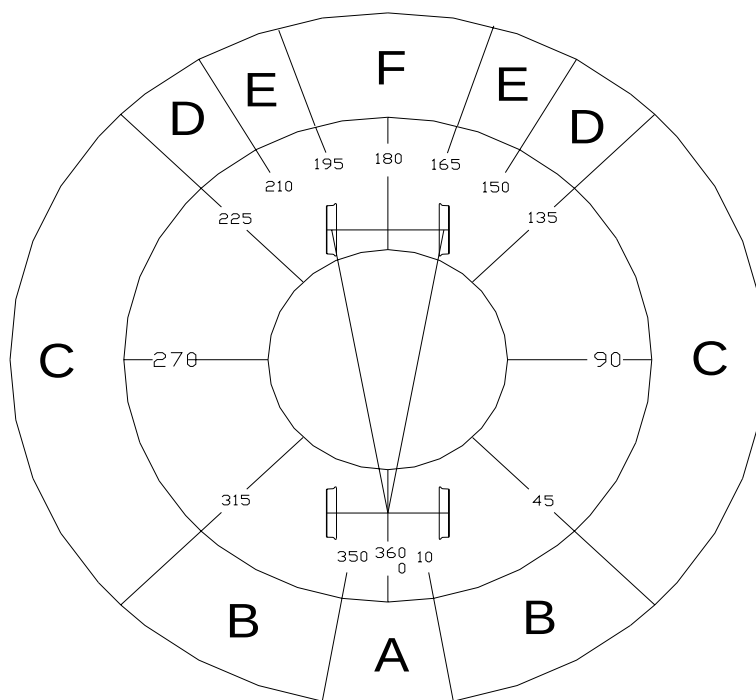


	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
7.0m	-	-	-	-	-	-	6.47a	-	-	-	-
6.0m	-	-	-	-	-	-	-	6.59a	5.30a	-	-
5.0m	-	-	-	-	-	-	-	6.81a	6.59a	5.44a	-
4.0m	-	-	-	-	-	-	6.95a	7.14a	7.08a	6.33	4.55a
3.0m	-	-	-	-	-	7.86a	8.03a	7.95b	7.12	6.29	5.61
2.0m	-	-	-	-	11.23b	10.06b	9.16b	8.08	7.05	6.23	5.57
1.0m	-	-	-	14.20b	12.26b	10.81b	9.3	7.98	6.98	6.18	5.54
0.0m	-	-	13.63a	14.64b	12.63b	10.97	9.2	7.91	6.93	6.15	5.30a
-1.0m	-	10.45a	15	14.00b	12.16b	10.69b	9.15	7.88	6.91	-	-

REXQUOTE

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Fixed Axle



Oscillating Axle

LEVEL & CANTED RAIL DUTIES WITH COUNTERWEIGHT IN

Machine Type:	COLMAR T10,000
Serial Number:	8034
Network Rail Number:	99709 940558-8
Equipment:	Boom 4.080m Arm 2.105m
Date:	31 August 2010
Issue:	3
Software Version:	V 2.11.14.00

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, 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 30mm.

NETWORK RAIL DUTIES SECTOR A LEVEL RAIL 0-50mm

**DIPPER
RETRACTED**

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
6.0m	-	-	-	-	-	6.48	5.68	-	-	-	-
5.0m	-	-	-	-	-	6.45	5.7	5.08	-	-	-
4.0m	-	-	-	8.39	7.25	6.35	5.64	5.05	4.54	-	-
3.0m	-	-	-	8.15	7.07	6.23	5.55	4.98	4.51	-	-
2.0m	-	-	-	7.93	6.91	6.11	5.46	4.92	4.47	-	-
1.0m	-	-	-	7.81	6.81	6.02	5.39	4.87	4.44	-	-
0.0m	-	-	9.11	7.77	6.76	5.98	5.36	4.86	-	-	-
-1.0m	-	-	-	-	-	-	-	-	-	-	-

**DIPPER
EXTENDED**

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
6.0m	-	-	-	-	-	-	-	3.42	3.06	-	-
5.0m	-	-	-	-	-	-	-	3.41	3.07	2.77	-
4.0m	-	-	-	-	-	-	3.78	3.38	3.04	2.76	2.51
3.0m	-	-	-	-	4.77	4.19	3.72	3.33	3.01	2.73	2.5
2.0m	-	-	-	-	4.66	4.1	3.65	3.28	2.97	2.7	2.48
1.0m	-	-	-	5.24	4.56	4.02	3.59	3.23	2.93	2.68	2.46
0.0m	-	-	6.07	5.17	4.5	3.97	3.54	3.2	2.91	2.66	-
-1.0m	-	7.31	6.04	5.14	4.47	3.95	3.53	3.18	2.9	-	-

**DIPPER
RETRACTED**

87% SWL

Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
6.0m	-	-	-	-	-	9.16b	7.94a	-	-	-	-
5.0m	-	-	-	-	-	9.21b	8.76b	8.45b	-	-	-
4.0m	-	-	-	11.70b	10.57b	9.72b	9.05b	8.51b	7.89a	-	-
3.0m	-	-	-	13.23b	11.60b	10.41b	9.49b	8.76b	8.14b	-	-
2.0m	-	-	-	14.37b	12.41b	10.97b	9.85b	8.94b	8.14b	-	-
1.0m	-	-	-	14.54b	12.60b	11.08b	9.86b	8.82b	7.79b	-	-
0.0m	-	-	14.84a	13.58b	11.90b	10.48b	9.24b	8.03b	-	-	-
-1.0m	-	-	-	-	-	-	-	-	-	-	-

**DIPPER
EXTENDED**

87% SWL

Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
6.0m	-	-	-	-	-	-	-	6.67a	5.87a	-	-
5.0m	-	-	-	-	-	-	-	6.85a	6.70a	5.82a	-
4.0m	-	-	-	-	-	-	7.10a	7.28a	7.17	6.32	5.05a
3.0m	-	-	-	-	8.27a	8.41a	8.44a	8.06b	7.1	6.27	5.6
2.0m	-	-	-	-	11.51b	10.26b	9.30b	8.05	7.03	6.22	5.57
1.0m	-	-	-	14.39b	12.41b	10.93b	9.27	7.96	6.96	6.17	5.54
0.0m	-	-	13.92a	14.59b	12.61b	10.95	9.19	7.9	6.92	6.15	-
-1.0m	-	11.39a	15	13.69b	11.92b	10.47b	9.15	7.88	6.91	-	-

NETWORK RAIL DUTIES **SECTOR A** **CANTED RAIL 50-150mm**

**DIPPER
RETRACTED**

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
6.0m	-	-	-	-	-	4.84	4.21	-	-	-	-
5.0m	-	-	-	-	-	4.81	4.23	3.74	-	-	-
4.0m	-	-	-	6.29	5.4	4.72	4.16	3.71	3.31	-	-
3.0m	-	-	-	6.04	5.23	4.59	4.07	3.64	3.28	-	-
2.0m	-	-	-	5.83	5.07	4.47	3.98	3.58	3.24	-	-
1.0m	-	-	-	5.7	4.96	4.38	3.92	3.53	3.21	-	-
0.0m	-	-	6.65	5.66	4.92	4.35	3.89	3.52	-	-	-
-1.0m	-	-	-	-	-	-	-	-	-	-	-

**DIPPER
EXTENDED**

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
6.0m	-	-	-	-	-	-	-	2.54	2.25	-	-
5.0m	-	-	-	-	-	-	-	2.53	2.26	2.02	-
4.0m	-	-	-	-	-	-	2.81	2.49	2.23	2.01	1.81
3.0m	-	-	-	-	3.56	3.1	2.74	2.44	2.2	1.98	1.8
2.0m	-	-	-	-	3.44	3.02	2.67	2.39	2.16	1.96	1.78
1.0m	-	-	-	3.85	3.34	2.94	2.61	2.34	2.12	1.93	1.77
0.0m	-	-	4.44	3.78	3.28	2.89	2.57	2.31	2.1	1.91	-
-1.0m	-	5.36	4.42	3.75	3.25	2.86	2.55	2.3	2.09	-	-

**DIPPER
RETRACTED**

90% SWL

Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
6.0m	-	-	-	-	-	8.98	7.88	-	-	-	-
5.0m	-	-	-	-	-	8.94	7.9	7.04	-	-	-
4.0m	-	-	-	11.62	10.04	8.81	7.82	7	6.31	-	-
3.0m	-	-	-	11.29	9.81	8.64	7.7	6.92	6.26	-	-
2.0m	-	-	-	11	9.59	8.48	7.57	6.83	6.21	-	-
1.0m	-	-	-	10.84	9.45	8.36	7.49	6.77	6.17	-	-
0.0m	-	-	12.65	10.78	9.39	8.31	7.45	6.75	-	-	-
-1.0m	-	-	-	-	-	-	-	-	-	-	-

**DIPPER
EXTENDED**

90% SWL

Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
6.0m	-	-	-	-	-	-	-	4.75	4.25	-	-
5.0m	-	-	-	-	-	-	-	4.73	4.25	3.85	-
4.0m	-	-	-	-	-	-	5.24	4.68	4.22	3.83	3.49
3.0m	-	-	-	-	6.62	5.8	5.15	4.62	4.17	3.8	3.47
2.0m	-	-	-	-	6.46	5.68	5.06	4.55	4.12	3.76	3.44
1.0m	-	-	-	7.27	6.32	5.58	4.98	4.49	4.07	3.72	3.42
0.0m	-	-	8.42	7.18	6.24	5.51	4.92	4.44	4.04	3.7	-
-1.0m	-	10.14	8.39	7.14	6.21	5.48	4.9	4.42	4.03	-	-

NETWORK RAIL DUTIES SECTOR B LEVEL RAIL 0-50mm

**DIPPER
RETRACTED**

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
6.0m	-	-	-	-	-	3.36	2.87	-	-	-	-
5.0m	-	-	-	-	-	3.33	2.89	2.52	-	-	-
4.0m	-	-	-	4.38	3.73	3.23	2.83	2.49	2.2	-	-
3.0m	-	-	-	4.13	3.56	3.1	2.73	2.43	2.17	-	-
2.0m	-	-	-	3.92	3.4	2.98	2.64	2.36	2.13	-	-
1.0m	-	-	-	3.79	3.29	2.9	2.58	2.31	2.1	-	-
0.0m	-	-	4.42	3.75	3.25	2.86	2.55	2.3	-	-	-
-1.0m	-	-	-	-	-	-	-	-	-	-	-

**DIPPER
EXTENDED**

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
6.0m	-	-	-	-	-	-	-	1.74	1.52	-	-
5.0m	-	-	-	-	-	-	-	1.73	1.52	1.34	-
4.0m	-	-	-	-	-	-	1.92	1.69	1.5	1.33	1.18
3.0m	-	-	-	-	2.45	2.12	1.86	1.64	1.46	1.31	1.17
2.0m	-	-	-	-	2.34	2.03	1.79	1.59	1.42	1.28	1.15
1.0m	-	-	-	2.59	2.24	1.96	1.73	1.54	1.38	1.25	1.14
0.0m	-	-	2.97	2.52	2.18	1.91	1.69	1.51	1.36	1.23	-
-1.0m	-	3.59	2.95	2.49	2.15	1.88	1.67	1.5	1.35	-	-

**DIPPER
RETRACTED**

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
6.0m	-	-	-	-	-	7.64	6.69	-	-	-	-
5.0m	-	-	-	-	-	7.61	6.71	5.97	-	-	-
4.0m	-	-	-	9.96	8.57	7.5	6.64	5.94	5.34	-	-
3.0m	-	-	-	9.68	8.37	7.35	6.54	5.87	5.3	-	-
2.0m	-	-	-	9.43	8.19	7.22	6.43	5.79	5.25	-	-
1.0m	-	-	-	9.29	8.07	7.12	6.36	5.74	5.22	-	-
0.0m	-	-	10.89	9.24	8.02	7.07	6.33	5.72	-	-	-
-1.0m	-	-	-	-	-	-	-	-	-	-	-

**DIPPER
EXTENDED**

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
6.0m	-	-	-	-	-	-	-	4.02	3.6	-	-
5.0m	-	-	-	-	-	-	-	4.01	3.6	3.25	-
4.0m	-	-	-	-	-	-	4.45	3.97	3.57	3.24	2.94
3.0m	-	-	-	-	5.65	4.94	4.38	3.92	3.53	3.21	2.93
2.0m	-	-	-	-	5.51	4.84	4.3	3.86	3.49	3.18	2.91
1.0m	-	-	-	6.23	5.4	4.75	4.23	3.8	3.45	3.15	2.89
0.0m	-	-	7.25	6.15	5.33	4.69	4.18	3.77	3.42	3.13	-
-1.0m	-	8.79	7.22	6.12	5.3	4.66	4.16	3.75	3.41	-	-

NETWORK RAIL DUTIES **SECTOR B** **CANTED RAIL 50-150mm**

**DIPPER
RETRACTED**

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
6.0m	-	-	-	-	-	3.06	2.54	-	-	-	-
5.0m	-	-	-	-	-	3.02	2.56	2.18	-	-	-
4.0m	-	-	-	4.18	3.45	2.91	2.49	2.15	1.86	-	-
3.0m	-	-	-	3.89	3.25	2.76	2.38	2.08	1.82	-	-
2.0m	-	-	-	3.63	3.06	2.62	2.28	2	1.77	-	-
1.0m	-	-	-	3.48	2.93	2.53	2.21	1.95	1.74	-	-
0.0m	-	-	4.2	3.43	2.88	2.48	2.17	1.93	-	-	-
-1.0m	-	-	-	-	-	-	-	-	-	-	-

**DIPPER
EXTENDED**

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
6.0m	-	-	-	-	-	-	-	1.52	1.3	-	-
5.0m	-	-	-	-	-	-	-	1.51	1.3	1.12	-
4.0m	-	-	-	-	-	-	1.71	1.47	1.27	1.11	0.97
3.0m	-	-	-	-	2.27	1.91	1.64	1.41	1.23	1.08	0.95
2.0m	-	-	-	-	2.13	1.81	1.56	1.36	1.19	1.05	0.93
1.0m	-	-	-	2.4	2.01	1.72	1.49	1.3	1.15	1.02	0.91
0.0m	-	-	2.84	2.32	1.94	1.66	1.44	1.27	1.12	1	-
-1.0m	-	3.62	2.81	2.28	1.91	1.63	1.42	1.25	1.12	-	-

**DIPPER
RETRACTED**

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
6.0m	-	-	-	-	-	7.02	6.05	-	-	-	-
5.0m	-	-	-	-	-	6.98	6.07	5.34	-	-	-
4.0m	-	-	-	9.43	7.96	6.86	5.99	5.3	4.72	-	-
3.0m	-	-	-	9.11	7.74	6.7	5.88	5.22	4.68	-	-
2.0m	-	-	-	8.83	7.53	6.55	5.77	5.14	4.62	-	-
1.0m	-	-	-	8.67	7.4	6.44	5.69	5.08	4.59	-	-
0.0m	-	-	10.41	8.62	7.34	6.39	5.65	5.06	-	-	-
-1.0m	-	-	-	-	-	-	-	-	-	-	-

**DIPPER
EXTENDED**

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
6.0m	-	-	-	-	-	-	-	3.61	3.19	-	-
5.0m	-	-	-	-	-	-	-	3.6	3.2	2.86	-
4.0m	-	-	-	-	-	-	4.03	3.56	3.17	2.84	2.56
3.0m	-	-	-	-	5.24	4.52	3.95	3.5	3.12	2.81	2.55
2.0m	-	-	-	-	5.09	4.4	3.86	3.43	3.07	2.78	2.52
1.0m	-	-	-	5.84	4.97	4.31	3.79	3.37	3.03	2.74	2.5
0.0m	-	-	6.94	5.74	4.89	4.24	3.74	3.33	3	2.72	-
-1.0m	-	8.71	6.91	5.71	4.85	4.21	3.71	3.32	2.99	-	-

NETWORK RAIL DUTIES SECTOR C LEVEL RAIL 0-50mm

**DIPPER
RETRACTED**

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
6.0m	-	-	-	-	-	3.36	2.87	-	-	-	-
5.0m	-	-	-	-	-	3.33	2.89	2.52	-	-	-
4.0m	-	-	-	4.38	3.73	3.23	2.83	2.49	2.2	-	-
3.0m	-	-	-	4.13	3.56	3.1	2.73	2.43	2.17	-	-
2.0m	-	-	-	3.92	3.4	2.98	2.64	2.36	2.13	-	-
1.0m	-	-	-	3.79	3.29	2.9	2.58	2.31	2.1	-	-
0.0m	-	-	4.42	3.75	3.25	2.86	2.55	2.3	-	-	-
-1.0m	-	-	-	-	-	-	-	-	-	-	-

**DIPPER
EXTENDED**

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
6.0m	-	-	-	-	-	-	-	1.74	1.52	-	-
5.0m	-	-	-	-	-	-	-	1.73	1.52	1.34	-
4.0m	-	-	-	-	-	-	1.92	1.69	1.5	1.33	1.18
3.0m	-	-	-	-	2.45	2.12	1.86	1.64	1.46	1.31	1.17
2.0m	-	-	-	-	2.34	2.04	1.79	1.59	1.42	1.28	1.15
1.0m	-	-	-	2.59	2.24	1.96	1.73	1.54	1.38	1.25	1.14
0.0m	-	-	2.97	2.52	2.18	1.91	1.69	1.51	1.36	1.23	-
-1.0m	-	3.59	2.95	2.49	2.15	1.88	1.67	1.5	1.35	-	-

**DIPPER
RETRACTED**

90% SWL

Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
6.0m	-	-	-	-	-	6.13	5.23	-	-	-	-
5.0m	-	-	-	-	-	6.09	5.26	4.57	-	-	-
4.0m	-	-	-	8.27	6.94	5.94	5.16	4.53	4	-	-
3.0m	-	-	-	7.89	6.68	5.75	5.02	4.44	3.95	-	-
2.0m	-	-	-	7.55	6.43	5.57	4.89	4.34	3.89	-	-
1.0m	-	-	-	7.35	6.27	5.44	4.79	4.27	3.84	-	-
0.0m	-	-	8.83	7.29	6.2	5.38	4.75	4.25	-	-	-
-1.0m	-	-	-	-	-	-	-	-	-	-	-

**DIPPER
EXTENDED**

90% SWL

Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
6.0m	-	-	-	-	-	-	-	3.13	2.73	-	-
5.0m	-	-	-	-	-	-	-	3.11	2.74	2.42	-
4.0m	-	-	-	-	-	-	3.49	3.06	2.7	2.4	2.14
3.0m	-	-	-	-	4.57	3.91	3.4	2.99	2.65	2.37	2.13
2.0m	-	-	-	-	4.39	3.78	3.3	2.91	2.59	2.32	2.1
1.0m	-	-	-	5	4.24	3.66	3.21	2.84	2.54	2.29	2.07
0.0m	-	-	5.91	4.88	4.14	3.58	3.14	2.79	2.5	2.26	-
-1.0m	-	7.44	5.88	4.84	4.1	3.55	3.12	2.77	2.49	-	-

NETWORK RAIL DUTIES SECTOR C CANTED RAIL 50-150mm

**DIPPER
RETRACTED**

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
6.0m	-	-	-	-	-	3.06	2.54	-	-	-	-
5.0m	-	-	-	-	-	3.02	2.56	2.18	-	-	-
4.0m	-	-	-	4.18	3.45	2.91	2.49	2.15	1.86	-	-
3.0m	-	-	-	3.89	3.25	2.76	2.38	2.08	1.82	-	-
2.0m	-	-	-	3.63	3.06	2.62	2.28	2	1.77	-	-
1.0m	-	-	-	3.48	2.93	2.53	2.21	1.95	1.74	-	-
0.0m	-	-	4.2	3.43	2.88	2.48	2.17	1.93	-	-	-
-1.0m	-	-	-	-	-	-	-	-	-	-	-

**DIPPER
EXTENDED**

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
6.0m	-	-	-	-	-	-	-	1.52	1.3	-	-
5.0m	-	-	-	-	-	-	-	1.51	1.3	1.12	-
4.0m	-	-	-	-	-	-	1.71	1.47	1.27	1.11	0.97
3.0m	-	-	-	-	2.27	1.91	1.64	1.41	1.23	1.08	0.95
2.0m	-	-	-	-	2.13	1.81	1.56	1.36	1.19	1.05	0.93
1.0m	-	-	-	2.4	2.01	1.72	1.49	1.3	1.15	1.02	0.91
0.0m	-	-	2.84	2.31	1.94	1.66	1.44	1.27	1.12	1	-
-1.0m	-	3.62	2.81	2.28	1.91	1.63	1.42	1.25	1.12	-	-

**DIPPER
RETRACTED**

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
6.0m	-	-	-	-	-	5.65	4.78	-	-	-	-
5.0m	-	-	-	-	-	5.61	4.8	4.15	-	-	-
4.0m	-	-	-	7.83	6.47	5.48	4.72	4.11	3.61	-	-
3.0m	-	-	-	7.48	6.23	5.31	4.6	4.03	3.57	-	-
2.0m	-	-	-	7.16	6	5.14	4.48	3.95	3.52	-	-
1.0m	-	-	-	6.98	5.86	5.03	4.39	3.88	3.48	-	-
0.0m	-	-	8.57	6.92	5.8	4.98	4.35	3.86	-	-	-
-1.0m	-	-	-	-	-	-	-	-	-	-	-

**DIPPER
EXTENDED**

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
6.0m	-	-	-	-	-	-	-	2.84	2.47	-	-
5.0m	-	-	-	-	-	-	-	2.82	2.47	2.18	-
4.0m	-	-	-	-	-	-	3.19	2.78	2.44	2.16	1.92
3.0m	-	-	-	-	4.26	3.61	3.11	2.71	2.39	2.13	1.91
2.0m	-	-	-	-	4.09	3.48	3.02	2.64	2.34	2.09	1.88
1.0m	-	-	-	4.74	3.96	3.38	2.94	2.58	2.3	2.06	1.86
0.0m	-	-	5.74	4.63	3.87	3.31	2.88	2.54	2.27	2.04	-
-1.0m	-	7.47	5.7	4.6	3.83	3.28	2.86	2.52	2.26	-	-

NETWORK RAIL DUTIES SECTOR D LEVEL RAIL 0-50mm

**DIPPER
RETRACTED**

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
6.0m	-	-	-	-	-	5.43	4.62	-	-	-	-
5.0m	-	-	-	-	-	5.39	4.65	4.04	-	-	-
4.0m	-	-	-	7.44	6.2	5.28	4.57	4.01	3.53	-	-
3.0m	-	-	-	7.14	5.99	5.13	4.47	3.93	3.5	-	-
2.0m	-	-	-	6.87	5.79	4.99	4.36	3.86	3.45	-	-
1.0m	-	-	-	6.71	5.66	4.89	4.28	3.8	3.42	-	-
0.0m	-	-	8.17	6.66	5.61	4.84	4.25	3.79	-	-	-
-1.0m	-	-	-	-	-	-	-	-	-	-	-

**DIPPER
EXTENDED**

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
6.0m	-	-	-	-	-	-	-	2.75	2.41	-	-
5.0m	-	-	-	-	-	-	-	2.74	2.41	2.13	-
4.0m	-	-	-	-	-	-	3.09	2.7	2.38	2.12	1.9
3.0m	-	-	-	-	4.08	3.48	3.01	2.64	2.34	2.09	1.88
2.0m	-	-	-	-	3.94	3.37	2.93	2.58	2.3	2.06	1.86
1.0m	-	-	-	4.54	3.82	3.28	2.86	2.53	2.26	2.03	1.84
0.0m	-	-	5.46	4.45	3.74	3.22	2.81	2.49	2.23	2.01	-
-1.0m	-	7.02	5.43	4.42	3.71	3.19	2.79	2.48	2.22	-	-

**DIPPER
RETRACTED**

90% SWL

Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
6.0m	-	-	-	-	-	7.46	6.51	-	-	-	-
5.0m	-	-	-	-	-	7.42	6.53	5.8	-	-	-
4.0m	-	-	-	9.67	8.33	7.29	6.45	5.76	5.17	-	-
3.0m	-	-	-	9.34	8.1	7.12	6.33	5.67	5.12	-	-
2.0m	-	-	-	9.05	7.88	6.95	6.2	5.59	5.07	-	-
1.0m	-	-	-	8.88	7.74	6.84	6.12	5.52	5.03	-	-
0.0m	-	-	10.36	8.83	7.68	6.79	6.08	5.5	-	-	-
-1.0m	-	-	-	-	-	-	-	-	-	-	-

**DIPPER
EXTENDED**

90% SWL

Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
6.0m	-	-	-	-	-	-	-	3.92	3.5	-	-
5.0m	-	-	-	-	-	-	-	3.91	3.5	3.15	-
4.0m	-	-	-	-	-	-	4.33	3.86	3.47	3.14	2.84
3.0m	-	-	-	-	5.49	4.8	4.25	3.8	3.42	3.1	2.82
2.0m	-	-	-	-	5.33	4.68	4.16	3.73	3.37	3.06	2.8
1.0m	-	-	-	5.98	5.19	4.58	4.08	3.66	3.32	3.03	2.78
0.0m	-	-	6.91	5.88	5.11	4.51	4.02	3.62	3.29	3	-
-1.0m	-	8.33	6.88	5.85	5.08	4.48	3.99	3.6	3.28	-	-

NETWORK RAIL DUTIES SECTOR D CANTED RAIL 50-150mm

**DIPPER
RETRACTED**

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
6.0m	-	-	-	-	-	4.43	3.79	-	-	-	-
5.0m	-	-	-	-	-	4.4	3.81	3.32	-	-	-
4.0m	-	-	-	5.93	5	4.29	3.74	3.29	2.9	-	-
3.0m	-	-	-	5.65	4.8	4.15	3.64	3.22	2.87	-	-
2.0m	-	-	-	5.41	4.63	4.02	3.54	3.15	2.82	-	-
1.0m	-	-	-	5.27	4.51	3.93	3.47	3.1	2.79	-	-
0.0m	-	-	6.28	5.22	4.46	3.89	3.44	3.08	-	-	-
-1.0m	-	-	-	-	-	-	-	-	-	-	-

**DIPPER
EXTENDED**

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
6.0m	-	-	-	-	-	-	-	2.27	1.99	-	-
5.0m	-	-	-	-	-	-	-	2.26	1.99	1.76	-
4.0m	-	-	-	-	-	-	2.53	2.22	1.96	1.75	1.56
3.0m	-	-	-	-	3.29	2.82	2.46	2.17	1.93	1.72	1.55
2.0m	-	-	-	-	3.16	2.73	2.39	2.11	1.88	1.69	1.53
1.0m	-	-	-	3.58	3.05	2.64	2.32	2.06	1.84	1.66	1.51
0.0m	-	-	4.21	3.5	2.98	2.59	2.28	2.02	1.82	1.65	-
-1.0m	-	5.24	4.18	3.47	2.95	2.56	2.26	2.01	1.81	-	-

**DIPPER
RETRACTED**

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
6.0m	-	-	-	-	-	7.02	6.05	-	-	-	-
5.0m	-	-	-	-	-	6.98	6.07	5.33	-	-	-
4.0m	-	-	-	9.43	7.96	6.86	5.99	5.3	4.72	-	-
3.0m	-	-	-	9.11	7.74	6.7	5.88	5.22	4.68	-	-
2.0m	-	-	-	8.83	7.53	6.55	5.77	5.14	4.62	-	-
1.0m	-	-	-	8.67	7.4	6.44	5.69	5.08	4.59	-	-
0.0m	-	-	10.41	8.62	7.34	6.39	5.65	5.06	-	-	-
-1.0m	-	-	-	-	-	-	-	-	-	-	-

**DIPPER
EXTENDED**

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
6.0m	-	-	-	-	-	-	-	3.61	3.19	-	-
5.0m	-	-	-	-	-	-	-	3.6	3.2	2.86	-
4.0m	-	-	-	-	-	-	4.03	3.56	3.17	2.84	2.56
3.0m	-	-	-	-	5.24	4.52	3.95	3.5	3.12	2.81	2.55
2.0m	-	-	-	-	5.09	4.4	3.86	3.43	3.07	2.78	2.52
1.0m	-	-	-	5.84	4.97	4.31	3.79	3.37	3.03	2.74	2.5
0.0m	-	-	6.94	5.74	4.89	4.24	3.74	3.33	3	2.72	-
-1.0m	-	8.71	6.91	5.71	4.85	4.21	3.71	3.32	2.99	-	-

NETWORK RAIL DUTIES SECTOR E LEVEL RAIL 0-50mm

**DIPPER
RETRACTED**

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
6.0m	-	-	-	-	-	8.96	7.65	-	-	-	-
5.0m	-	-	-	-	-	8.92	7.68	6.69	-	-	-
4.0m	-	-	-	11.70b	10.4	8.8	7.6	6.66	5.89	-	-
3.0m	-	-	-	12.29	10.16	8.64	7.48	6.58	5.85	-	-
2.0m	-	-	-	11.99	9.95	8.48	7.37	6.5	5.8	-	-
1.0m	-	-	-	11.81	9.81	8.37	7.29	6.44	5.77	-	-
0.0m	-	-	14.77	11.75	9.75	8.32	7.25	6.42	-	-	-
-1.0m	-	-	-	-	-	-	-	-	-	-	-

**DIPPER
EXTENDED**

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
6.0m	-	-	-	-	-	-	-	4.51	3.97	-	-
5.0m	-	-	-	-	-	-	-	4.49	3.97	3.54	-
4.0m	-	-	-	-	-	-	5.09	4.45	3.94	3.52	3.17
3.0m	-	-	-	-	6.85	5.8	5.01	4.39	3.9	3.49	3.16
2.0m	-	-	-	-	6.69	5.68	4.92	4.33	3.85	3.46	3.13
1.0m	-	-	-	7.92	6.56	5.58	4.85	4.27	3.81	3.43	3.11
0.0m	-	-	9.83	7.82	6.48	5.52	4.79	4.23	3.78	3.41	-
-1.0m	-	11.39a	9.79	7.78	6.44	5.49	4.77	4.21	3.77	-	-

**DIPPER
RETRACTED**

90% SWL

Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
6.0m	-	-	-	-	-	8.55	7.5	-	-	-	-
5.0m	-	-	-	-	-	8.51	7.52	6.69	-	-	-
4.0m	-	-	-	11.08	9.56	8.38	7.44	6.65	5.99	-	-
3.0m	-	-	-	10.75	9.33	8.21	7.31	6.57	5.95	-	-
2.0m	-	-	-	10.46	9.11	8.05	7.19	6.48	5.89	-	-
1.0m	-	-	-	10.29	8.97	7.94	7.1	6.42	5.85	-	-
0.0m	-	-	12.01	10.23	8.91	7.88	7.06	6.4	-	-	-
-1.0m	-	-	-	-	-	-	-	-	-	-	-

**DIPPER
EXTENDED**

90% SWL

Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
6.0m	-	-	-	-	-	-	-	4.52	4.04	-	-
5.0m	-	-	-	-	-	-	-	4.5	4.04	3.65	-
4.0m	-	-	-	-	-	-	4.99	4.45	4.01	3.64	3.31
3.0m	-	-	-	-	6.3	5.52	4.9	4.39	3.96	3.6	3.29
2.0m	-	-	-	-	6.14	5.4	4.81	4.32	3.91	3.56	3.26
1.0m	-	-	-	6.91	6.01	5.3	4.73	4.26	3.86	3.53	3.24
0.0m	-	-	8	6.81	5.93	5.23	4.67	4.21	3.83	3.51	-
-1.0m	-	9.63	7.97	6.78	5.89	5.2	4.65	4.19	3.82	-	-

NETWORK RAIL DUTIES **SECTOR E** **CANTED RAIL 50-150mm**

**DIPPER
RETRACTED**

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
6.0m	-	-	-	-	-	6.15	5.28	-	-	-	-
5.0m	-	-	-	-	-	6.11	5.3	4.64	-	-	-
4.0m	-	-	-	8.34	7	6	5.23	4.61	4.09	-	-
3.0m	-	-	-	8.04	6.8	5.86	5.12	4.54	4.05	-	-
2.0m	-	-	-	7.78	6.61	5.72	5.02	4.46	4	-	-
1.0m	-	-	-	7.63	6.48	5.62	4.95	4.41	3.97	-	-
0.0m	-	-	9.23	7.58	6.43	5.57	4.91	4.39	-	-	-
-1.0m	-	-	-	-	-	-	-	-	-	-	-

**DIPPER
EXTENDED**

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
6.0m	-	-	-	-	-	-	-	3.14	2.77	-	-
5.0m	-	-	-	-	-	-	-	3.13	2.77	2.47	-
4.0m	-	-	-	-	-	-	3.52	3.09	2.75	2.46	2.21
3.0m	-	-	-	-	4.61	3.95	3.44	3.04	2.71	2.43	2.2
2.0m	-	-	-	-	4.47	3.85	3.37	2.98	2.66	2.4	2.18
1.0m	-	-	-	5.15	4.36	3.76	3.3	2.93	2.62	2.37	2.16
0.0m	-	-	6.16	5.06	4.28	3.7	3.25	2.89	2.6	2.35	-
-1.0m	-	7.81	6.13	5.03	4.25	3.67	3.23	2.88	2.59	-	-

**DIPPER
RETRACTED**

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
6.0m	-	-	-	-	-	8.2	7.21	-	-	-	-
5.0m	-	-	-	-	-	8.17	7.23	6.46	-	-	-
4.0m	-	-	-	10.61	9.18	8.06	7.16	6.42	5.79	-	-
3.0m	-	-	-	10.33	8.98	7.92	7.06	6.35	5.76	-	-
2.0m	-	-	-	10.09	8.8	7.78	6.96	6.28	5.71	-	-
1.0m	-	-	-	9.95	8.68	7.69	6.88	6.23	5.68	-	-
0.0m	-	-	11.62	9.91	8.63	7.64	6.85	6.21	-	-	-
-1.0m	-	-	-	-	-	-	-	-	-	-	-

**DIPPER
EXTENDED**

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
6.0m	-	-	-	-	-	-	-	4.34	3.9	-	-
5.0m	-	-	-	-	-	-	-	4.33	3.9	3.53	-
4.0m	-	-	-	-	-	-	4.79	4.29	3.87	3.52	3.21
3.0m	-	-	-	-	6.05	5.31	4.72	4.24	3.83	3.49	3.2
2.0m	-	-	-	-	5.91	5.21	4.64	4.18	3.79	3.46	3.17
1.0m	-	-	-	6.67	5.8	5.12	4.58	4.13	3.75	3.43	3.16
0.0m	-	-	7.73	6.59	5.73	5.07	4.53	4.09	3.72	3.41	-
-1.0m	-	9.3	7.7	6.56	5.7	5.04	4.51	4.07	3.71	-	-

NETWORK RAIL DUTIES SECTOR F LEVEL RAIL 0-50mm

**DIPPER
RETRACTED**

87% SWL

Unlocked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
6.0m	-	-	-	-	-	9.16b	7.94a	-	-	-	-
5.0m	-	-	-	-	-	9.21b	8.76b	8.45b	-	-	-
4.0m	-	-	-	11.70b	10.57b	9.72b	9.05b	8.51b	7.89a	-	-
3.0m	-	-	-	13.23b	11.60b	10.41b	9.49b	8.76b	8.14b	-	-
2.0m	-	-	-	14.37b	12.41b	10.97b	9.85b	8.94b	8.14b	-	-
1.0m	-	-	-	14.54b	12.60b	11.08b	9.86b	8.82b	7.79b	-	-
0.0m	-	-	14.84a	13.58b	11.90b	10.48b	9.24b	8.03b	-	-	-
-1.0m	-	-	-	-	-	-	-	-	-	-	-

**DIPPER
EXTENDED**

87% SWL

Unlocked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
6.0m	-	-	-	-	-	-	-	6.67a	5.87a	-	-
5.0m	-	-	-	-	-	-	-	6.85a	6.70a	5.82a	-
4.0m	-	-	-	-	-	-	7.10a	7.28a	7.17	6.32	5.05a
3.0m	-	-	-	-	8.27a	8.41a	8.44a	8.06b	7.1	6.27	5.6
2.0m	-	-	-	-	11.51b	10.26b	9.30b	8.05	7.03	6.22	5.57
1.0m	-	-	-	14.39b	12.41b	10.93b	9.27	7.96	6.96	6.17	5.54
0.0m	-	-	13.92a	14.59b	12.61b	10.95	9.19	7.9	6.92	6.15	-
-1.0m	-	11.39a	15	13.69b	11.92b	10.47b	9.15	7.88	6.91	-	-

**DIPPER
RETRACTED**

87% SWL

Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
6.0m	-	-	-	-	-	9.16b	7.94a	-	-	-	-
5.0m	-	-	-	-	-	9.21b	8.76b	8.45b	-	-	-
4.0m	-	-	-	11.70b	10.57b	9.72b	9.05b	8.51b	7.89a	-	-
3.0m	-	-	-	13.23b	11.60b	10.41b	9.49b	8.76b	8.14b	-	-
2.0m	-	-	-	14.37b	12.41b	10.97b	9.85b	8.94b	8.14b	-	-
1.0m	-	-	-	14.54b	12.60b	11.08b	9.86b	8.82b	7.79b	-	-
0.0m	-	-	14.84a	13.58b	11.90b	10.48b	9.24b	8.03b	-	-	-
-1.0m	-	-	-	-	-	-	-	-	-	-	-

**DIPPER
EXTENDED**

87% SWL

Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
6.0m	-	-	-	-	-	-	-	6.67a	5.87a	-	-
5.0m	-	-	-	-	-	-	-	6.85a	6.70a	5.82a	-
4.0m	-	-	-	-	-	-	7.10a	7.28a	7.17	6.32	5.05a
3.0m	-	-	-	-	8.26a	8.41a	8.44a	8.06b	7.1	6.27	5.6
2.0m	-	-	-	-	11.51b	10.26b	9.30b	8.05	7.03	6.22	5.57
1.0m	-	-	-	14.39b	12.41b	10.93b	9.27	7.96	6.96	6.17	5.54
0.0m	-	-	13.92a	14.59b	12.61b	10.95	9.19	7.9	6.92	6.15	-
-1.0m	-	11.39a	15	13.69b	11.92b	10.47b	9.15	7.88	6.91	-	-

NETWORK RAIL DUTIES SECTOR F CANTED RAIL 50-150mm

**DIPPER
RETRACTED**

87% SWL

Unlocked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
6.0m	-	-	-	-	-	9.16b	7.94a	-	-	-	-
5.0m	-	-	-	-	-	9.21b	8.76b	8.45b	-	-	-
4.0m	-	-	-	11.70b	10.57b	9.72b	9.05b	8.51b	7.89a	-	-
3.0m	-	-	-	13.23b	11.60b	10.41b	9.49b	8.76b	8.14b	-	-
2.0m	-	-	-	14.37b	12.41b	10.97b	9.85b	8.94b	8.14b	-	-
1.0m	-	-	-	14.54b	12.60b	11.08b	9.86b	8.82b	7.79b	-	-
0.0m	-	-	14.84a	13.58b	11.90b	10.48b	9.24b	8.03b	-	-	-
-1.0m	-	-	-	-	-	-	-	-	-	-	-

**DIPPER
EXTENDED**

87% SWL

Unlocked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
6.0m	-	-	-	-	-	-	-	6.67a	5.87a	-	-
5.0m	-	-	-	-	-	-	-	6.85a	6.70a	5.82a	-
4.0m	-	-	-	-	-	-	7.10a	7.28a	7.17	6.32	5.05a
3.0m	-	-	-	-	8.26a	8.41a	8.44a	8.06b	7.1	6.27	5.6
2.0m	-	-	-	-	11.51b	10.26b	9.30b	8.05	7.03	6.22	5.57
1.0m	-	-	-	14.39b	12.41b	10.93b	9.27	7.96	6.96	6.17	5.54
0.0m	-	-	13.92a	14.59b	12.61b	10.95	9.19	7.9	6.92	6.15	-
-1.0m	-	11.39a	15	13.69b	11.92b	10.47b	9.15	7.88	6.91	-	-

**DIPPER
RETRACTED**

87% SWL

Locked



	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
6.0m	-	-	-	-	-	9.16b	7.94a	-	-	-	-
5.0m	-	-	-	-	-	9.21b	8.76b	8.45b	-	-	-
4.0m	-	-	-	11.70b	10.57b	9.72b	9.05b	8.51b	7.89a	-	-
3.0m	-	-	-	13.23b	11.60b	10.41b	9.49b	8.76b	8.14b	-	-
2.0m	-	-	-	14.37b	12.41b	10.97b	9.85b	8.94b	8.14b	-	-
1.0m	-	-	-	14.54b	12.60b	11.08b	9.86b	8.82b	7.79b	-	-
0.0m	-	-	14.84a	13.58b	11.90b	10.48b	9.24b	8.03b	-	-	-
-1.0m	-	-	-	-	-	-	-	-	-	-	-

**DIPPER
EXTENDED**

87% SWL

Locked

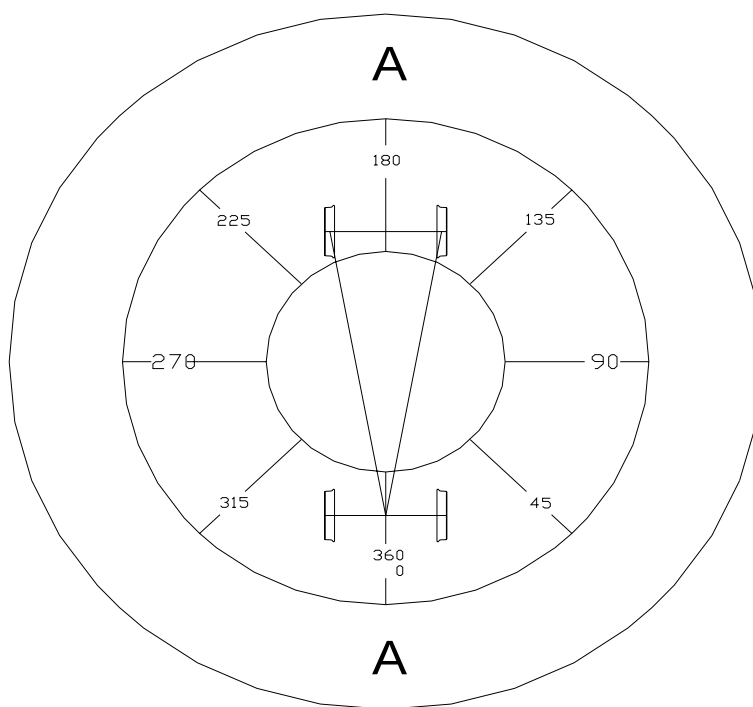


	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	7.0m
6.0m	-	-	-	-	-	-	-	6.67a	5.87a	-	-
5.0m	-	-	-	-	-	-	-	6.85a	6.70a	5.82a	-
4.0m	-	-	-	-	-	-	7.10a	7.28a	7.17	6.32	5.05a
3.0m	-	-	-	-	8.26a	8.41a	8.44a	8.06b	7.1	6.27	5.6
2.0m	-	-	-	-	11.51b	10.26b	9.30b	8.05	7.03	6.22	5.57
1.0m	-	-	-	14.39b	12.41b	10.93b	9.27	7.96	6.96	6.17	5.54
0.0m	-	-	13.92a	14.59b	12.61b	10.95	9.19	7.9	6.92	6.15	-
-1.0m	-	11.39a	15	13.69b	11.92b	10.47b	9.15	7.88	6.91	-	-

REXQUOTE

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Fixed Axle



Oscillating Axle

MAX CANT + TWIST RAIL DUTIES WITH COUNTERWEIGHT IN

Machine Type:	COLMAR T10,000
Serial Number:	8034
Network Rail Number:	99709 940558-8
Equipment:	Boom 4.080m Arm 2.105m
Date:	31 August 2010
Issue:	3
Software Version:	V 2.11.14.00

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, 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 30mm.

NETWORK RAIL DUTIES SECTOR F MAX CANT & TWIST RAIL 150mm + 30mm

DIPPER

Unlocked



	DUTY BARRED

**DIPPER
RETRACTED**

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
6.0m	-	-	-	-	-	5.64	4.72	-	-	-	-
5.0m	-	-	-	-	-	5.6	4.75	4.08	-	-	-
4.0m	-	-	-	7.99	6.52	5.46	4.66	4.04	3.52	-	-
3.0m	-	-	-	7.61	6.25	5.28	4.53	3.95	3.48	-	-
2.0m	-	-	-	7.27	6.01	5.1	4.41	3.86	3.42	-	-
1.0m	-	-	-	7.07	5.86	4.98	4.32	3.8	3.38	-	-
0.0m	-	-	8.84	7.01	5.79	4.92	4.28	3.78	-	-	-
-1.0m	-	-	-	-	-	-	-	-	-	-	-

**DIPPER
EXTENDED**

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
6.0m	-	-	-	-	-	-	-	2.79	2.41	-	-
5.0m	-	-	-	-	-	-	-	2.78	2.42	2.12	-
4.0m	-	-	-	-	-	-	3.16	2.73	2.38	2.1	1.86
3.0m	-	-	-	-	4.29	3.59	3.07	2.66	2.34	2.07	1.84
2.0m	-	-	-	-	4.11	3.46	2.97	2.59	2.28	2.03	1.82
1.0m	-	-	-	4.81	3.96	3.35	2.89	2.53	2.23	1.99	1.79
0.0m	-	-	5.93	4.7	3.87	3.28	2.83	2.48	2.2	1.97	-
-1.0m	-	7.95	5.89	4.65	3.83	3.24	2.8	2.46	2.19	-	-