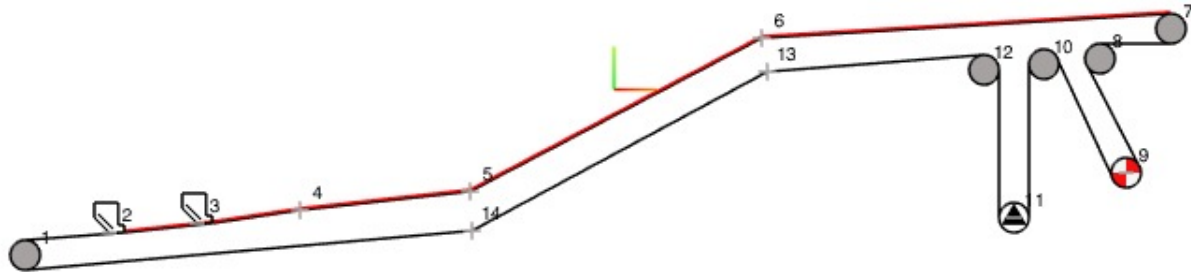


Project	Demo 02 Conveyor High Lift	Client	ABC Iron
Project No.	P9823	Prepared By	Peter Burrow
Conveyor No.	C223	Design Date	01 Oct 2019



C223



Drive Torque Start-up Factor Loaded	<b>122 %</b>	Takeup Pulley Belt Tension	<b>130.92 kN</b>
Drive Torque Start-up Factor Empty	<b>122 %</b>	Takeup Mass	<b>26700 kg</b>

Station No	Running				Starting		Braking		Coasting	
	Fully Loaded Tension kN	Empty Tension kN	Inclines Loaded Tension kN	Declines Loaded Tension kN	Fully Loaded Tension kN	Empty Tension kN	Fully Loaded Tension kN	Empty Tension kN	Fully Loaded Tension kN	Empty Tension kN
1 Tail	119.62	119.62	119.62	119.62	122.85	167.55	93.39	107.99	97.29	115.87
2 Hopper	121.40	121.40	121.40	121.40	124.87	172.91	93.20	108.89	97.39	117.36
3 Hopper	142.78	121.88	142.78	139.75	147.02	175.76	108.29	108.80	113.41	117.65
4 Int. Pt	155.17	122.39	155.17	149.09	160.44	179.42	112.27	108.54	118.64	117.92
5 Int. Pt	169.73	123.86	169.73	152.10	177.98	187.36	102.62	108.44	112.59	118.88
6 Int. Pt	371.50	147.48	371.50	175.72	394.26	242.65	186.42	124.37	213.90	140.01
7 Head	418.40	153.10	418.40	181.34	447.43	262.60	182.32	126.51	217.38	144.51
8 Bend	422.63	154.64	422.63	183.17	452.36	274.62	180.81	125.51	216.72	145.23
9 Drive	421.64	150.93	421.64	179.76	451.75	276.46	176.78	120.45	213.15	141.09
10 Bend	134.48	134.47	134.68	134.46	134.27	131.31	138.57	134.84	140.17	135.43
11 Takeup	130.92	130.92	130.92	130.92	130.92	130.92	130.92	130.92	130.92	130.92
12 Bend	137.58	137.58	137.58	137.58	137.79	140.77	135.83	136.80	136.09	137.33
13 Int. Pt	137.89	137.89	137.89	137.89	138.56	147.74	132.51	135.51	133.31	137.12
14 Int. Pt	119.29	119.29	119.29	119.29	121.84	157.08	98.61	110.12	101.69	116.33
Minimum Tension	<b>119.29</b>	<b>119.29</b>	<b>119.29</b>	<b>119.29</b>	<b>121.84</b>	<b>130.92</b>	<b>93.20</b>	<b>107.99</b>	<b>97.29</b>	<b>115.87</b>
Maximum Tension	<b>422.63</b>	<b>154.64</b>	<b>422.63</b>	<b>183.17</b>	<b>452.36</b>	<b>276.46</b>	<b>186.42</b>	<b>136.80</b>	<b>217.38</b>	<b>145.23</b>
Effective Tension	<b>296.76</b>	<b>24.70</b>	<b>296.46</b>	<b>53.68</b>						
Ave.Belt Tension	<b>222.07</b>	<b>134.20</b>	<b>222.07</b>	<b>149.11</b>	<b>232.75</b>	<b>192.38</b>	<b>135.27</b>	<b>120.06</b>	<b>148.22</b>	<b>129.66</b>
Belt Elong. m	<b>0.262</b>	<b>0.025</b>	<b>0.262</b>	<b>0.065</b>	<b>0.290</b>	<b>0.182</b>	<b>0.028</b>	<b>-0.013</b>	<b>0.063</b>	<b>0.013</b>
T/up Travel m	<b>0.131</b>	<b>0.012</b>	<b>0.131</b>	<b>0.032</b>	<b>0.145</b>	<b>0.091</b>	<b>0.014</b>	<b>-0.007</b>	<b>0.031</b>	<b>0.006</b>