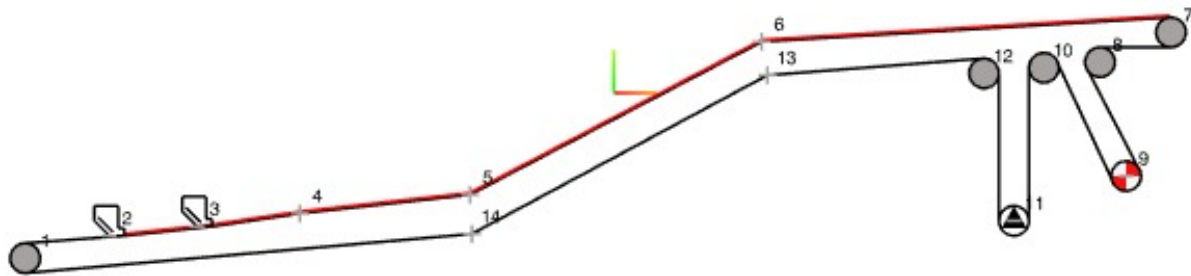


Project	Demo 02 Conveyor High Lift	Client	ABC Iron
Project No.	P9823	Prepared By	Peter Burrow
Conveyor No.	C223_Copy	Design Date	01 Oct 2019



C223\_Copy



**Takeup Travel**

Takeup Type	<b>Vertical Gravity</b>
Takeup Mass Calculation Method	<b>Manual</b>
Takeup Mass Step Increment	<b>500 kg</b>
Max number of calc Increments	<b>100</b>
Takeup Mass kg (manual input)	<b>26,700 kg</b>
Takeup Tension (manual input)	<b>130.92 kN</b>
Takeup Mass calculated	<b>26,700 kg</b>

**Takeup Travel Estimate**

Safety Margin Top	+	<b>0.50 m</b>
Belt Splice Allowance	+	<b>1.20 m</b>
Dynamic Travel Up	+	<b>0.40 m</b>
Dynamic Travel Down	+	<b>0.40 m</b>
Safety Margin Bottom	+	<b>0.50 m</b>

**Thermal Expansion Distance**

Minimum Site Temperature	<b>0 °C</b>	
Maximum Site Temperature	<b>45 °C</b>	
Belt Expansion Coefficient mm per °C	<b>0.0000117 mm/°C</b>	
Total Belt Length	<b>628.80 m</b>	
Thermal Expansion Distance	+	<b>0.166 m</b>

**Permanent Belt Stretch**

Permanent Stretch Co-efficient % of belt Length	<b>0.15 %</b>	
Permanent Belt Stretch Distance	+	<b>0.472 m</b>
Total Takeup Travel Distance	=	<b>3.64 m</b>

