

Schedule of Piling Rig Component Weights, Dimensions, Forces and Pressures					
Rig Manufacturer :		Colets Piling		Rig Type :	CAM2/CAM3
Operation Mode:		Auger/Kelly bar		Date:	12/04/2007
Completed by:			Checked by:		
Item	Mass (kg)	Moment arm (m)	Moment (kNm)		
UPPER WORKS	22138	0.55	118.58		
LOWER WORKS	0	0.00	0.00		
ROPE / KELLY / CHAIN SUSPENDED EQUIPMENT	0	0.00	0.00		
COUNTERWEIGHT	0	0.00	0.00		
OTHER	0	0.00	0.00		
TOTAL	22138	0.55	118.58		
<b>Tracks</b>					
Track bearing length (m)		3.03			
Track pad width (m)		0.7			
Distance between centrelines of tracks (m)		2.15			
<b>Front Foot Pads</b>					
Pad Bearing Area (m <sup>2</sup> )	0.36	Actual Dimensions	0.6x0.6m		
Pad Maximum Loading (kN)	90.00	Actual Shape	Square		
Pad Moment Arm (m)	3.45				
<b>Rear Foot Pads</b>					
Pad Bearing Area (m <sup>2</sup> )	0.00	Actual Dimensions	None		
Pad Maximum Loading (kN)	0.00	Actual Shape	None		
Pad Moment Arm (m)	0.00				
<b>Forces</b>					
Maximum Extraction Force (kN)		50.00			
Maximum Penetration Force (kN)		30.00			
Maximum Auxillary Force (kN)		10.00			
Auxillary Force Moment Arm (m)		4.00			
<b>Pressure Summary for Platform Design.(unfactored)</b>					
MODE	BRE LOAD CASE ( 1 or 2 )	Length (m)	Width (m)	UDL Pressure (kPa)	
Standing	1	2.26	0.7	93	
Travelling	1	2.26	0.7	93	
Handling	1	1.82	0.7	118	
Penetrating	2	1.93	0.7	90	
Extracting	2	2.82	0.7	68	
Other	NOT USED	N/A	0.7	N/A	
MODE	WARNING MESSAGES	ERROR MESSAGES FOR FORCES			
Standing	None	Auxiliary Line Force OK	Extraction Force OK	Penetration Force OK	
Travelling	None	Auxiliary Line Force OK	Extraction Force OK	Penetration Force OK	
Handling	None	Auxiliary Line Force OK	Extraction Force OK	Penetration Force OK	
Penetrating	None	Auxiliary Line Force OK	Extraction Force OK	Penetration Force OK	
Extracting	None	Auxiliary Line Force OK	Extraction Force OK	Penetration Force OK	
Other	None	Auxiliary Line Force OK	Extraction Force OK	Penetration Force OK	
MODE	ERROR MESSAGES FOR FOOT PADS		<b>Notes</b>		
Standing	Front Foot Pad Force OK	Rear Foot Pad Force OK	Only for rig operation on level ground with a vertical mast, unless noted below ! Only for use where the rig is working on a ground supported platform ! Foot pad pressures are adjusted to equalise with the track pressures ! Rigs to be operated in accordance with manufacturer's & employer's instructions No limits on working practice		
Travelling	Front Foot Pad Force OK	Rear Foot Pad Force OK			
Handling	Front Foot Pad Force OK	Rear Foot Pad Force OK			
Penetrating	Front Foot Pad Force OK	Rear Foot Pad Force OK			
Extracting	Front Foot Pad Force OK	Rear Foot Pad Force OK			
Other	Front Foot Pad Force OK	Rear Foot Pad Force OK			

} Allow 3.0m