

Schedule of Piling Rig Component Weights, Dimensions, Forces and Pressures				
Rig Manufacturer :		Colets Piling		Rig Type : SOILMEC R210
Operation Mode:		CFA		Date: 20/01/2011
Completed by:			Checked by:	
Item	Mass (kg)	Moment arm (m)	Moment (kNm)	
UPPER WORKS	5650	2.08	115.29	
LOWER WORKS	13750	-0.35	-47.21	
ROPE / KELLY / CHAIN SUSPENDED EQUIPMENT	5200	3.16	161.20	
COUNTERWEIGHT	2650	-2.90	-75.39	
OTHER	0	0.00	0.00	
TOTAL	27250	0.58	153.88	
Tracks				
Track bearing length (m)			3.08	
Track pad width (m)			0.6	
Distance between centrelines of tracks (m)			2.80	
Front Foot Pads				
Pad Bearing Area (m ²)	1.00	Actual Dimensions	1.25m x 0.60m	
Pad Maximum Loading (kN)	320.00	Actual Shape	Rectangular	
Pad Moment Arm (m)	2.35			
Rear Foot Pads				
Pad Bearing Area (m ²)	0.00	Actual Dimensions	None	
Pad Maximum Loading (kN)	0.00	Actual Shape	None	
Pad Moment Arm (m)	0.00			
Forces				
Maximum Extraction Force (kN)		280.00		
Maximum Penetration Force (kN)		37.00		
Maximum Auxiliary Force (kN)		10.00		
Auxiliary Force Moment Arm (m)		3.85		
Pressure Summary for Platform Design (unfactored)				
MODE	BRE LOAD CASE (1 or 2)	Length (m)	Width (m)	UDL Pressure (kPa)
Standing	1	2.08	0.6	129
Travelling	1	2.08	0.6	129
Handling	1	1.88	0.6	154
Penetrating	2	1.55	0.6	99
Extracting	2	0.87	0.6	279
Other	NOT USED	N/A	0.6	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		Notes	
Standing	Front Foot Pad Force OK	Rear Foot Pad Force OK	<p>Only for rig operation on level ground with a vertical mast, unless noted below !</p> <p>Only for use where the rig is working on a ground supported platform !</p> <p>Foot pad pressures are adjusted to equalise with the track pressures !</p> <p>Rigs to be operated in accordance with manufacturer's & employer's instructions</p> <p>No limits on working practice</p>	
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		