



# Lusail Real Estate Development Company

Health, Safety, Security, Environment, Logistics & Quality  
Department

## Lusail Construction Safety Procedural Forms/Checklist – Lift Calculation Sheet – Single Crane Lift

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## Lift Calculation Sheet – Single Crane Lift

- Any lift where the payload weight is 20 tonnes or less requires only a Lift Calculation Sheet.
- Any lift where the payload weight is over 20 tonnes and less than 50 tonnes requires an industry-standard Lift Plan to be submitted to LREDC Representatives 2 working days prior to the lift taking place.
- Any lift where the payload weight is 50 tonnes or more will for part of what is termed “Critical”, Lift Plans must be submitted to and received by LREDC Representative 7 working days prior to the lift taking place.

LOAD DETAILS			WEIGHT	CAPACITY
<b>Crane Components – All Crane Components attached to or below the Boom Head</b>			kg	Check capacities below or equal or exceed the Assessed Weight of the load plus weight of relevant Accessories & Crane Components
– Main Hook Block			kg	
– Auxiliary Hook Block			kg	
– Allowance for Fly or Jib if Applicable			kg	
– Ropes including extra falls if applicable; <b>Number of Fall:</b>			kg	
– Other Crane Components			kg	
<b>Sub-Total – Weight Crane Components</b>			kg	
<b>Lifting Accessories (Gear) – All accessories for lifting the load below the Crane Hook</b>				
	<b>Number</b>	<b>Type Slings, Shackles etc.</b>		
– Slings			kg	
– Shackles			kg	
– Lifting Beams			kg	
– Other Accessories			kg	
<b>Sub-Total – Weight Crane Components</b>			kg	
<b>The Load</b>				
– The Assessed Weight of the load to be lifted:			kg	
<b>TOTAL COMBINED WEIGHT (Crane Components, Lifting Accessories and Load)</b>			<b>kg</b>	
CRANE DETAILS				
<b>Make:</b>	<b>Model:</b>			Check that Max radius of lift is equal to or less than the Radius for the Rated Lifting Capacity from the Load Chart
<b>Lifting Position:</b>	<input type="checkbox"/> Side	<input type="checkbox"/> Rear	<input type="checkbox"/> 360°	
<b>Rated Lifting Capacity:</b>	<b>kg</b>			
<b>Boom Length:</b>	<b>meters</b>			
<b>Radius:</b>	<b>meters</b>			
<b>Max Measured Radius of Lift:</b>	<b>meters</b>			
<b>Check that:</b> Rated Lifting Capacity is greater than the Total Combined Weight	<input type="checkbox"/> <b>Yes</b>	<input type="checkbox"/> <b>No</b>		Redo with different configuration/ use a different crane if Rated Lifting Capacity is not greater than the Total Combined Weight
<b>Authorized by Construction Manager:</b>				
<b>Authorized by Lift Supervisor:</b>				