



Lusail Real Estate Development Company

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

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

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COMPANY PROPRIETARY INFORMATION

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Lift Calculation Sheet – Dual Crane Lift

The following Calculation Sheets shall be used for all two crane lifts in conjunction with an industry-standard Lift Plans which must be submitted to and received by LREDC Representatives 7 working days prior to the lift taking place.

CRANE 1 – LOAD DETAILS			WEIGHT	CAPACITY
Crane Components Crane No. 1 – All Crane Components attached to or below the Boom Head of Crane No. 1			kg	Check capacities below or equal or exceed the Assessed Combined Weight for Crane No. 1
– Main Hook Block			kg	
– Auxiliary Hook Block			kg	
– Allowance for Fly or Jib if Applicable			kg	
– Ropes including extra falls if applicable; Number of Fall:			kg	
– Other Crane Components			kg	
Sub-Total – Weight Crane Components			kg	
Lifting Accessories (Gear) – All accessories for lifting the load below the Crane Hook of Crane No. 1				
	Number	Type Slings, Shackles etc.		
– Slings			kg	
– Shackles			kg	
– Lifting Beams			kg	
– Other Accessories			kg	
Sub-Total – Weight Crane Components			kg	
The Load				
– The Assessed Weight of the load to be lifted:				
– Portion of the assessed weight lifted by Crane No. 1			kg	
TOTAL COMBINED WEIGHT CRANE No 1. (Crane Components, Lifting Accessories and Load)			kg	
ADJUSTED COMBINED WEIGHT CRANE No 1, Two Crane Lift, De Rate Crane by increasing load by 20% (Crane Components, Lifting Accessories and Load)			kg	
CRANE DETAILS				
Make:	Model:		Check that Max radius of lift is equal to or less than the Radius for the Rated Lifting Capacity from the Load Chart	
Lifting Position:	<input type="checkbox"/> Side	<input type="checkbox"/> Rear		
Rated Lifting Capacity:	kg			
Boom Length:	meters		Check Less than 100%	
Radius:	meters			
Max Measured Radius of Lift:	meters			
% of Rated Lifting Capacity: Total Adjusted Combined Weight / Rated Lifting Capacity	Total Adj Comb Wt / Rated Lifting Capacity /=.....%			
Description of item being lifted:			Comments:	
Crane Operator's Name:				
Signature:				
Date:				
Department:				
Area:				

NB: Divide the total adjusted combined weight by the rated lifting capacity at the given radius from the load chart to get the % of crane rated lifting capacity for the lift.

CRANE 2 – LOAD DETAILS			WEIGHT	CAPACITY	
Crane Components Crane No. 2 – All Crane Components attached to or below the Boom Head of Crane No. 2			kg	Check capacities below or equal or exceed the Assessed Combined Weight for Crane No. 2	
– Main Hook Block			kg		
– Auxiliary Hook Block			kg		
– Allowance for Fly or Jib if Applicable			kg		
– Ropes including extra falls if applicable; Number of Fall:			kg		
– Other Crane Components			kg		
Sub-Total – Weight Crane Components			kg		
Lifting Accessories (Gear) – All accessories for lifting the load below the Crane Hook of Crane No. 2					
	Number	Type Slings, Shackles etc.			
– Slings			kg		
– Shackles			kg		
– Lifting Beams			kg		
– Other Accessories			kg		
Sub-Total – Weight Crane Components			kg		
The Load					
– The Assessed Weight of the load to be lifted:					
– Portion of the assessed weight lifted by Crane No. 2			kg		
TOTAL COMBINED WEIGHT CRANE No 2. (Crane Components, Lifting Accessories and Load)				kg	
ADJUSTED COMBINED WEIGHT CRANE No 2, Two Crane Lift, De Rate Crane by increasing load by 20%				kg	
CRANE DETAILS, CRANE No. 2					
Make:	Model:		Check that Max radius of lift is equal to or less than the Radius for the Rated Lifting Capacity from the Load Chart		
Lifting Position:	<input type="checkbox"/> Side	<input type="checkbox"/> Rear			
Rated Lifting Capacity:					kg
Boom Length:					meters
Radius:			meters		
Max Measured Radius of Lift:			meters		
% of Rated Lifting Capacity: Total Adjusted Combined Weight / Rated Lifting Capacity	Total Adj Comb Wt / Rated Lifting Capacity /=.....%		Check Less than 100%		
Description of item being lifted:			Comments:		
Crane Operator's Name:					
Signature:					
Date:					
Department:					
Area:					
Authorized by Construction Manager:					
Authorized by Lifting Supervisor:					

NB: Divide the total adjusted combined weight by the rated lifting capacity at the given radius from the load chart to get the % of crane rated lifting capacity for the lift.