

# **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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## **Amendment Record**

This document is reviewed to ensure its continuing relevance to the systems and process that it describes. A record of contextual additions or omissions is given below:

Rev .No	Description / Comments	Prepared By	Checked By	Approved By	Issue Date
0	New Form	HSE Working Group	Michael Ford	Uwe Krueger	06 Mar 16
1	Amendments to notes (Pg1)	Bruce Bester	Michael Ford	bwe Krueger	28 Mar '16
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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 <u>LREDC Representatives 7 working days prior to the lift taking place.</u>

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	
– Main Hook Block						kg	exceed the
<ul> <li>Auxiliary Hook Blo</li> </ul>	ck					kg	Assessed Combined Weight for Crane No. 1
Allowance for Fly	or Jib if App	olicable				kg	
<ul> <li>Ropes including ex</li> </ul>	ktra falls if	applicable; <b>N</b> u	ımber of Fa	II:		kg	
Other Crane Comp	onents					kg	
Sub-Total – Weight Crane	Compone	nts				kg	
Lifting Accessories (Gear)			ing the				
load below the Crane Ho	ok of Crane	e No. 1				Г	
	Number		Type Slin	gs, Shackles etc.			
- Slings						kg	
<ul><li>Shackles</li></ul>						kg	
<ul> <li>Lifting Beams</li> </ul>						kg	
<ul><li>Other</li><li>Accessories</li></ul>						kg	
1						1	
Sub-Total – Weight Crane	Compone	ents				kg	
The Load							
The Assessed Weight	ght of the I	oad to be lifte	ed:				
<ul> <li>Portion of the asse</li> </ul>	essed weigl	ht lifted by Cr	ane No. 1			kg	
TOTAL COMBINED WEIGHT							kg
(Crane Components, Lifting ADJUSTED COMBINED WEI			rana lift D	o Pata Crana hu i	nerossina		
load by 20% (Crane Compo				•	increasing		kg
CRANE DETAILS							
Make:		Model:					
Lifting Position:		Side		Rear			
Rated Lifting Capacity:					kg	Check that Max	radius of lift is equal
Boom Length:		meters			to or less than the Radius for the		
Radius:		meters			Rated Lifting Capacity from the Load		
Max Measured Radius of	Lift:				meters	Chart	
% 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 be	ing lifted:					Comments:	
Crane Operator's Nam							
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 – A Head of Crane No. 2	kg	below or equal or				
Main Hook Block	kg	exceed the				
Auxiliary Hook Block				kg	Assessed Combined Weight for Crane	
<ul> <li>Allowance for Fly or Jib if Ap</li> </ul>	plicable			kg	No. 2	
<ul> <li>Ropes including extra falls if</li> </ul>	applicable; <b>N</b> u	umber of Fa	all:	kg		
<ul> <li>Other Crane Components</li> </ul>				kg		
Sub-Total – Weight Crane Compon	Sub-Total – Weight Crane Components					
Lifting Accessories (Gear) – All acce load below the Crane Hook of Cran		ting the				
Number		Type Slin	igs, Shackles etc.			
– Slings				kg		
– Shackles				kg		
<ul><li>Lifting Beams</li></ul>				kg		
– Other				kg		
Accessories						
Sub-Total – Weight Crane Compon	ents			kg		
The Assessed Mariella of the	1 1 1: <b>f</b> t.	- d.				
The Assessed Weight of the  Bartian of the assessed wait				lea		
Portion of the assessed weight COMBINED WEIGHT CRANE N		ane No. 2		kg		
(Crane Components, Lifting Accessor					kg	
ADJUSTED COMBINED WEIGHT CRAN		Crane Lift, D	De Rate Crane by increasing			
load by 20%	,				kg	
CRANE DETAILS, CRANE NO	o. 2					
Make:	Model:					
Lifting Position:	☐ Side		☐ Rear			
Rated Lifting Capacity:			kg	Check that Max	radius of lift is equal	
Boom Length:			meters		he Radius for the	
Radius:			meters		pacity from the Load	
Max Measured Radius of Lift:			meters	Chart		
% 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:				ļ		
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.