

RISK ASSESSMENT / SITE PLACEMENT GUIDELINES

- Operatives to ensure correct PPE is used (gloves, safety boots, high-visibility clothing and hard hat, plus additional PPE subject to site conditions e.g. ear protection etc).
- Ensure the Site Management Team have given consideration / approve the use of Alimats™.
- Ensure the prepared hardstanding area is level.
- The crane should drive into the correct position as marked on the Lift Plan and extend outriggers.
- If the ground is not completely level a sand bed is advised, to provide a more even load distribution.
- Alimats™ should be lifted into position by two people to avoid strains - each clean mat weighs approx. 38 kg.
- Each set of Alimats™ consists of 20 mats; Five mats to be placed beneath each crane outrigger.
- Three interlocked sections should be placed on the lower layer and two above placed at 90° to those beneath.
- Each section should be slotted into the adjacent mat as it is laid and pushed into position.
- To ensure mats interlock correctly: - The orientation of the Alimats™ logo and ID marks, need to be consistent for each mat which is to be placed side by side in the same layer (see photos below).



- The top layer joint should be positioned half of the width of the completed lower layer (central).
- Ensure there are no stones between the mat layers, to avoid potential point load indentation / damage.
- The standard crane mat should be placed centrally on the completed Alimats™ configuration.
- Repeat to all four outrigger positions.
- Ensure that all completed Alimats™ sets are positioned central to the outrigger pad.
- Apply full outrigger loading and observe mats for any sign of undue stress / settlement.



- If there is any concern regarding the stability of the outrigger pads – Seek advice from the Appointed Person / Site Engineer.
- To function as intended ALIMATS™ must be placed / used as specified above – not as seen below!



RISK ASSESSMENT FORM

1. General Data

Assessor's name	Mike Allanson	Assessment Date	4 th August 2006
Task title & description of activity.	PROVISION OF ALIMAT™ CRANE OUTRIGGER SUPPORT		

2. Assessment

	Task Step	Significant Hazard(s)	Adverse effect/ possible injury	Number of people at risk	Frequenc y	Duration
1	Accessing site	a) Site Debris b) Mobile plant / vehicle movement	<u>SLIP / TRIP</u> Cuts, bruises, sprains <u>CRUSH COLLISION</u> Death Broken Bones	2	Once for each crane rig location	20 minutes
2	Unloading and loading of equipment from vehicle	a) Weight of equipment and distance it has to be carried b) Site Debris c) Finger entrapment	<u>MANUAL HANDLING</u> Strains, Back Strain <u>SLIP / TRIP</u> Cuts, bruises, sprain <u>ENTRAPMENT</u> Broken Bones	2	Once for each crane rig location	20 minutes
3	Placement of Alimats™ beneath crane outriggers	a) Weight of equipment and distance it has to be carried b) Site Debris c) Finger entrapment d) Incorrect placement / setup of Alimats™ jeopardising crane instability.	<u>MANUAL HANDLING</u> Strains, Back Strain <u>SLIP / TRIP</u> Cuts, bruises, sprains <u>ENTRAPMENT</u> Broken Bones <u>CONTACT COLLISION</u> Death Crushing Broken Bones	2 All site personnel	Once for each crane rig location Once for each crane rig location	20 Minutes Daily
4	Subsequent movement of Alimats™	a) Weight of equipment and distance it has to be carried b) Site Debris c) Finger entrapment d) Incorrect placement / setup of Alimats™ jeopardising crane instability.	<u>MANUAL HANDLING</u> Strains, Back Strain <u>SLIP / TRIP</u> Cuts, bruises, sprains <u>ENTRAPMENT</u> Broken Bones <u>CONTACT COLLISION</u> Death Crushing Broken Bones	2 All site personnel	Once for each crane rig location Once for each crane rig location	20 Minutes Daily
5	Use of Alimats™ for uses other than crane outrigger support	a) Failure of Alimats™ in alternative use	<u>CONTACT COLLISION</u> Death Crushing Broken Bones	All site personnel	Once	Daily
6	Preparation of ground beneath Alimats™	a) Inadequate preparation / consideration jeopardising crane stability.	<u>CONTACT COLLISION</u> Death Crushing Broken Bones	All site personnel	Once	Daily

Using the formula on page 2 every hazard identified must be risk rated

Calculate using this formula: -

Probability x Severity = Risk

This gives a range of risk rating between 1 and 100 probability)

Probability Index		Severity Index	
The probability or likelihood that an accident or incident could be caused as a result of a particular activity.		The severity of the outcome of that accident in terms of injury, damage or loss.	
	Description		Description
10	Inevitable	10	Death
9	Almost certain	9	Permanent total incapacity
8	Very likely	8	Permanent severe incapacity
7	Probable	7	Permanent slight incapacity
6	More than even chance	6	Absent from work for more than 3 weeks with recurring problems
5	Even chance	5	Absent from work for more than 3 weeks with complete recovery
4	Less than even chance	4	Absent from work more than 3 days, less than three weeks
3	Improbable	3	Absent from work less than 3 days
2	Very improbable	2	Minor injury with no lost time
1	Almost impossible	1	No injury expected
Probability (P) x Severity (S) = The Total Risk Rating			
Total Risk Rating	Priority of Action	Total Risk Rating	Priority of Action
Below 10	No immediate action necessary, but keep under review.	10 - 30	Action within 12 months
30 - 40	Action within 9 months	40 - 60	Action within 6 months
60 - 70	Action within next 3 months	70 - 80	Action within next month
80 - 100 Immediate action / possible prohibition of use Action within next month			

Risk Rating of Hazards identified on page one

Hazard Number	Hazards	(P)	(S)	Total R Rating
1a, 2b, 3b, 4b	Site Debris	3	6	18
1b	Mobile Plant / Vehicle Movement	2	10	20
2a, 3a, 4a	Weight of equipment and the distance it has to be carried	3	6	18
2c, 3c, 4c	Finger entrapment	3	7	21
3d, 4d	Incorrect placement / setup of Alimats™ jeopardising crane instability.	3	10	30
5a	Failure of Alimats™ in alternative use	2	10	20
6a	Inadequate preparation / consideration of hardstanding area beneath Alimats™ jeopardising crane stability.	3	10	30

3. Action List (Complete as required on day of Alimat™ placement)

Hazard	Existing Control	Further Action (if necessary)	Action Required On Day Of Alimat™ Placement	Complete
1a, 2b, 3b, 4b Site Debris	Good housekeeping by Contractor	Operatives installing Alimats™ should raise any concerns with the Site Management Team prior to placement		
1b Mobile Plant / Vehicle Movement	Site Induction detailing site traffic movements and safety procedures	Operatives installing Alimats™ should raise any concerns with the Site Management Team prior to placement		
2a, 3a, 4a Weight of equipment and the distance it has to be carried	Delivery vehicle to be located as close as practicable to the crane rig position to minimize the manual handling. The use of site handling equipment is advised for moving the mats significant distances across site. Operatives to have a good knowledge of manual handling techniques	A two man lift is recommended due to the weight (38kg / module) and size (1.74 x 0.58m) of the mats. Operatives installing Alimats™ should raise any concerns with the Site Management Team prior to placement		
2c, 3c, 4c Finger entrapment	Operatives to wear safety gloves to ensure adequate grip and protection	Operatives installing Alimats™ should raise any concerns with the Site Management Team prior to placement		
3d, 4d Incorrect placement / setup of Alimats™ jeopardising crane stability	Operatives to follow “Alimat™ Site Placement Guidelines” at all times	Operatives installing Alimats™ should raise any concerns with the Site Management Team prior to placement		
5a Failure of mats in alternative use	Alimats™ only to be used to spread known outrigger support loads in conjunction with standard crane outrigger support mats. Any other use to be approved by the provider prior to commencement	Operatives installing Alimats™ should raise any concerns with the Site Management Team prior to placement		
6a Inadequate preparation / consideration of hardstanding area beneath Alimats™ jeopardising crane stability	Site Management Team should establish the bearing capacity of the ground to ensure the 3.00m ² Alimats™ surface area is adequate to spread the specified outrigger loading	All outrigger loading information / ground investigations to be provided / undertaken by suitably qualified and competent persons		

A copy of this Risk Assessment and Alimats™ Site Placement Guidelines must be provided to the Hirer and acknowledgement received at the time of delivery.

The Hirer should subsequently ensure each operative who handles the Alimats™ system has read and fully understands this document.