ALIMATS®
Aluminium Crane Outrigger Mats

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).
- Refer to site specific crane lift plan and relevant drawing for correct layout and geometry for the ALIMATS® module build up, as specified by the Temporary Works Design.
- 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.
- Where outrigger mats are used on a hard surface it is recommended that a compressible layer (ie: Sand or Ethafoam) is placed below the mat surface to ensure the system functions as structurally intended.
- ALIMATS® should be lifted into position by two people to avoid strains - each clean mat module weighs approximately: 25kg (1160mm) / 38kg (1740mm) / 48kg (2175mm & 3480mm).
- Each module should be slotted into the adjacent module as it is laid and pushed into position.
- To ensure modules interlock correctly the orientation of the ALIMATS® logo and ID marks needs to be consistent for each module which is to be placed side by side in the same layer (see photos below).







- To ensure the system works as structurally intended the module interlock must be engaged along the longitudinal joints.
- Ensure there are no stones between the mat layers, to avoid potential point load indentation/damage.
- The standard outrigger pad 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.

For advice on your site requirements, call Brilliant Ideas on 01335 345111

Risk Assessment Form

1. General Data

Assessor Team: I.Waring / C.Massey / A.Norris	**Assessment Date:** 06/01/2025
Task Title & Description of Activity: Provision of ALIMATS® Crane Outrigger Support 960	

2. Assessment

	Task Step	Significant Hazard(s)	Adverse effect / possible injury	Number of people at risk	Frequency	Duration
1	**Accessing Site**	a) Site debris b) ALIMATS®underfoot c) Mobile / plant vehicle movement	**SLIP TRIP** Cuts, bruises, sprains **CRUSH COLLISION** Death Broken bones	2	Once for each crane rig location	20 minutes
2	**Unloading & loading of equipment from vehicle**	a) Weight of equipment and distance it has to be carried b) Site debris c) Finger entrapment	**MANUAL HANDLING** Strains, back strain **SLIP TRIP** Cuts, bruises, sprains **ENTRAPMENT** 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	**MANUAL HANDLING** Strains, back strain **SLIP TRIP** Cuts, bruises, sprains **ENTRAPMENT** Broken bones **CONTACT COLLISION** 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	**MANUAL HANDLING** Strains, back strain **SLIP TRIP** Cuts, bruises, sprains **ENTRAPMENT** Broken bones **CONTACT COLLISION** 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	**CONTACT COLLISION** Death Crushing Broken bones	All site personnel	Once	Daily
6	**Preparation of ground beneath ALIMATS®**	a) Inadequate preparation / consideration jeopardising crane instability	**CONTACT COLLISION** Death Crushing Broken bones	All site personnel	Once	Daily

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

Risk Assessment Form

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	
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 for more than 3 days, less than 3 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 of hazards identified on P.1

Hazard Number	Hazards	(P)	(S)	Total R Rating
1a, 1b, 2b, 3b, 4b	Site debris / ALIMATS® underfoot	3	6	18
1c	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