

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: 02/01/2020

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 |