Company

Address

# Site Specific Erection Plan for

**Placing of Construction Loads on Joists**

**Project Information:**

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| --- | --- |
| Name of Project: |  |

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| Location of Project: |  |

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| --- | --- |
| Portion of Project this plan applies to: | (If all write "all" otherwise write a specific description of the areas, this applies to) |
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| The Steel Erection Competent Person on this project is: |  |

**Scope:**

This plan is limited to a single issue. Therefore there is no need to incorporate all the elements of a comprehensive site specific erection plan that might cover all aspects and all hazards of the steel erection. On this project this written plan relates only to the setting of construction loads on steel joists, prior to a complete assembly of the joist system, in accordance with 1926.757 (e)(4).

**Overview:**

This plan covers those instances when decking or other construction loads will be placed on joists, when such joists have not been fully bridged and/or where such bridging has not been fully attached to terminus points, (whether temporary or permanent terminus points):

In accordance with the OSHA standard and industry custom and practice, we will follow the following rules:

1. No bundle of decking may be placed on steel joists until all bridging has been installed and anchored and all joist bearing ends attached, unless all of the following conditions are met:
2. The employer steel erector and/or the controlling contractor has first determined from a qualified person that the structure or portion of the structure is capable of supporting the load.
3. The qualified person(s) that has determined that the structure or portion of the

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| structure is capable of supporting the load is | (Insert name and title of the |
| qualified person) |

1. In accordance with the OSHA standard the qualified person(s) named above are qualified to make this determination based on their:
2. recognized degree
3. certificate
4. professional standing
5. extensive knowledge, training and experience and has successfully demonstrated his/her ability to solve or resolve problems relating to this subject matter.
6. The qualified person has considered the staggered spacing of deck bundles if this method is used in accordance with item 3(d) of this plan.
7. The qualified person must consider factors other than type of joists and length of joists when making this determination. When considering whether to load the joists prior to complete installation of all the bridging, the qualified person has considered at least the following items:
8. slope of roof or deck
9. wind conditions
10. vibration
11. movement of personnel and loads on and around the steel structure
12. presence of other bolted diagonal bridging
13. amount and location of bracing or plumb cables, struts or other supports
14. weight of the construction load
15. location of bridging relative to the load
16. whether joists are top chord or bottom chord bearing type
17. the type and size of the joists
18. the total unbridged length of the joist beyond the area taking the load
19. All bundles of decking shall be placed on a minimum of three steel joists;
20. The joists supporting the bundles of decking shall be fully attached at both ends;
21. At least one row of bridging shall be installed and anchored

i. If permanent terminus points are not available, temporary terminus points shall be installed using designs provided by the manufacturer or Appendix C of the OSHA Subpart R standards (joists pair bridging terminus points or bridging terminus points secured by temporary guy cables);

1. The total weight of any bundle of decking shall not exceed 4,000 pounds;
2. The edge of the construction load shall be placed within 1 foot of the bearing surface of the joist end (except as noted in item 3 below).
3. For the purposes of 1(g) above, a row of bridging shall mean a pair or horizontal bridging, one on the top chord and one on the bottom chord, or a single row of X-bridging. When uplift bridging is required, it may be installed prior to loading the joists with decking or other construction loads, for the convenience of the erector, but this uplift bridging should not be considered part of the row of bridging required to stabilize the joists in 1(g) above. *(Note: Generally it is recommended that the single row of bridging should be the row closest to the construction load, however the qualified person should determine whether other bridging serves adequately to support the joists, or if additional bridging is needed before loading the joists.)*
4. Whenever possible the deck bundles must all be placed within 1 foot of the bearing surface, except if the following points apply.
5. If the competent person determines that placing all the bundles end to end is a greater hazard or is impossible, then the deck bundles shall be staggered so that one bundle (inside edge closest to the bearing surface of the joist) is within one foot of the bearing surface, and the next bundle is no more than one foot from the outside edge of the first bundle, in a staggered pattern.
6. The competent person has completed item 4 (below) in the job specific safety plan.
7. No more than every other bundle of decking is to be placed on this outer position.
8. When this staggered placement is used, the qualified person needs to evaluate this new condition to redetermine that the placement of the construction load is still allowable based on the structural capacity of the joists.
9. On this project the competent person has determined that all the bundles of decking cannot all be placed end to end within one foot of the bearing surface due to the fact that it is impossible or a greater hazard due to:
10. uneven ends of decking in the bundles
11. pinch and crush hazards between the ends of the deck bundles

ends of the deck bundles will be supported only on a small amount of the joist top surface which could allow a trap door

1. effect when and if someone steps on an unsupported piece (due to irregular ends)
2. the dunnage of the decking bundle may be trapped between joists and the decking bundle creating an unsafe condition due to instability of the bundle or dangerous point loading of the joist, and falling objects below.
3. overlapping ends of roof deck
4. last bay decking is too long
5. impossible to shake out the sheets safely when bound up with adjacent bundles
6. 

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| i. | other reasons |  |

1. Personnel on this object will be trained on the general requirements for steel erection safety, and will be specifically trained on the elements of this job specific erection safety plan.

6. The employer will comply with other parts of the OSHA steel erection standard except if modified as allowed under this or another site specific erection plan.