



General Mezzanine Installation Instructions

Preliminary Job Review

- 1) These Instructions are intended for personnel with experience in constructing mezzanines
- 2) Review the Final Erection Drawings, the drawings are in the Hardware Box shipped with the Structure
- 3) The safety precautions used during erection are the responsibility of the installer. OSHA Guidelines are suggested
- 4) Make sure you have all necessary tools. Refer to tool list
- 5) Site Check: Make sure there are no obstructions to hinder the erection of the mezzanine

Receiving and Unloading of Material

- 1) Verify that ALL required parts for installation were shipped to the job site. A “Bill of Material” is shipped with the mezzanine. Contact Schmidt Structural Products immediately if there are ANY discrepancies between the “Bill of Material” and actual shipped goods.
- 2) If Material is delivered in a damaged condition, do not reject shipment. The driver must note any damages or shortages on the freight bill. Purchaser must notify Schmidt Structural Products of any freight damages. The purchaser must retain damaged material until inspected by Schmidt Structural Products.
- 3) Move ALL Mezzanine components to the area of assembly. Arrange the pieces on the floor so that the identification codes can be easily read.



Tool List

- 1) 25', 50' & 100' Tape Measures
- 2) Chalk Line
- 3) Markers
- 4) 6' Level
- 5) Hammer Drill
- 6) Socket Wrenches
- 7) Impact Wrench
- 8) Screw Gun
- 9) "C" Clamps
- 10) Circular Saw
- 11) Reciprocating Saw
- 12) Fork Lift
- 13) Mechanical Lift
- 14) Ladders
- 15) 2 lb. Hammer
- 16) Shop-Vac
- 17) Paint Brushes for Touch-Up
- 18) Pry Bars

Recommended Minimum Safety Equipment

- 1) Protective Eyewear
- 2) Steel-Toe Boots
- 3) Gloves
- 4) Hearing Protection
- 5) Hard Hat



Installation of Mezzanine System

Listed below are guidelines for the installation of the columns and beams. Remember that this is an overview and that all mezzanines are not the same. Consult the Final Erection drawings sent with your mezzanine. As an installer, you will want to select a starting point for the mezzanine. This will normally be in the most critical area, such as next to a wall.

Framework

- 1) Locate the starting point
- 2) Using the Column Layout Plan on the Final Erection drawings, mark out the location of all columns. Check layout for square by using the “6-8-10” triangle method. On larger projects, use equal dimensions for diagonal measurements.
- 3) Install the column at the starting point, use the wedge anchors provided to anchor the column. Do not anchor the column until it has been checked for plumb with your 6’ Level. Shim if necessary, all columns must be plumb and square.
- 4) Install the wedge anchor by using a hammer drill to drill a hole the same diameter as the anchor bolt. Thoroughly clean the hole, removing all dust and debris. Drive the anchor into the hole so that 1 ½” of the anchor is exposed above the slab.
(Note: Put nut and washer on anchor bolt when driving into slab. Use a flat washer, followed by a lock washer.) Tighten the nuts finger tight, and then do 2 or 3 additional turns to achieve proper torque.
- 5) Locate the support and deck beams by matching the beam mark numbers on the beams with the beam mark numbers on the Final Erection drawing. Beams mark numbers are designated as “B-“
- 6) Locate the bar joist by matching the mark number on the joist with the mark numbers on the Final Erection drawing. Bar joist mark numbers are designated as “J-“
- 7) The ends of the bar joists sit ON TOP of the main support beams.
- 8) See column detail for instructions for fastening to the beams and columns.
- 9) Install the bridging angle perpendicular to the bottom chord of the bar joist. The number and general layout of rows of bridging rod will be shown on your Final Erection drawing. See Bridging detail for instructions on fastening to the bar joists.



Corrugated Decking

- 1) Lay out all corrugated decking material as shown on decking layout plan.
Caution: DO NOT place entire stack of decking in one location on the mezzanine. The material is heavy, and must be spread out in several stacks so as not to overload the beams and bar joists during construction.
- 2) Start with the B-Deck filler pieces, marked as BF-1 on your Final Erection drawings. Skip this step if there is no BF-1 on your material list.
- 3) Verify that all deck seams occur over a beam or joist.
- 4) If white B-Deck is used, make sure the white side is facing down.
- 5) See decking detail for instructions on fastening to the framework.

Plywood

- 1) Layout all plywood as shown on the plywood layout plan.
- 2) The plywood runs perpendicular to the B-Deck
- 3) The rows of plywood are staggered in a brick pattern so the seams do not line up.
- 4) See decking detail for instructions on fastening to the B-Deck. Keep ALL screws 1" to 2" from the edge of the plywood.

Bar Grating

- 1) Lay out all bar grating as shown on bar grating plan.
- 2) See decking detail for instructions for fastening to the framework.

Kickplate

- 1) The kickplate is 1/8" thick material bent at a 90° angle, with two 4" legs.
- 2) Kickplate is to be installed with the 4" leg up and against the handrail post. See handrail post detail for instructions on fastening to the handrail posts and decking.

Schmidt Structural Products

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