

CUBIC MEZZANINE SPECIFICATIONS

Cubic Mezzanine Specifications

GENERAL

The mezzanine system shall be custom designed for a uniform live load as specified by the owner and shall meet all requirements of IBC, UBC, BOCA, SBC and/or local building codes. All designs, calculations and drawings are to be prepared under the supervision of a registered Professional Engineer who shall be a full-time employee of the mezzanine manufacturer. PE stamps shall appear on all calculations and drawings.

DESCRIPTION

The custom mezzanine system shall consist, in general, of columns, framing, decking, hardware, accessories and paint finish as specified in this document.

EXPERIENCE

The mezzanine manufacturer shall have a minimum of 20 years experience in providing custom mezzanine systems.

DESIGN CRITERIA

Mezzanine system shall be designed for a minimum 125 PSF live load (exact live load capacity is dependent on application requirements). Mezzanine system shall be designed for a minimum 7' clear height (exact clear height and top of deck shall be designed to meet specific requirements). Mezzanine shall be designed to meet seismic zone requirements for customer's geographic location.

INSTALLATION

Installation of the mezzanine system shall be per drawings and manuals provided by the mezzanine manufacturer. Installation shall be performed by factory trained or supervised personnel. If owner chooses to provide installation, factory supervision shall be available upon request.

PERMITS

If requested, the mezzanine manufacturer shall assist the owner in obtaining building permits for the mezzanine.

DECKING

Deck material shall be minimum 1-1/2", 20 gauge heavy duty roof deck painted light reflective white, meeting ASTM A611 Grade C requirements. The deck shall be covered with plywood flooring, high density wood, polytextured floor, poured concrete, steel floor plate or alternate surface as required by the owner. If grating is the deck material, it shall be 19W4 bar grating with minimum 1" x 1/8" bearing bars meeting NAAMM requirements.

STAIRS & RAILING

Stairs shall be designed to meet riser and tread requirements of applicable codes. Stairs shall be shipped knocked down and treads shall be solid floor plate. Mezzanine rails and stair handrails are to consist of square tubing and shall be designed to meet strength and rail opening requirements of applicable codes.



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Engineering Specifications

BOLTED CHANNEL SYSTEM MATERIALS

Columns

Mezzanine support shall be provided by square structural steel tubing meeting ASTM A500 Grade B, 46 ksi yield requirements. Columns are to be designed per AISC steel codes for vertical, lateral and seismic loadings (typical column sizes range from 5" x 5" to 8" x 8"). Support shall not be provided by building walls or columns and cross bracing shall not be required for lateral stability.

Framing

Framing members shall be typically 12 gauge or heavier cold formed "C" channels meeting ASTM A570 Grade E, modified to 50 ksi yield requirements and are designed per AISI steel codes.

Framing Connections

All stringers shall be mounted directly on top of mezzanine columns within factory welded support channels. Joist to stringer connections shall utilize factory welded hangers. When required by application, high strength bolts meeting ASTM A325 requirements shall be used.

BAR JOIST SYSTEM MATERIALS

Columns

Mezzanine support shall be provided by square structural steel tubing meeting ASTM A500 Grade B, 46 ksi yield requirements. Columns are to be designed per AISC steel codes for vertical, lateral and seismic loadings (typical column sizes range from 5" x 5" to 8" x 8"). Support shall not be provided by building walls or columns and cross bracing shall not be required for lateral stability.

Framing

Bar joist framing members shall be open web steel designed and manufactured to AISI and SJI specifications. Girders and beams shall be structural steel designed to meet ASTM requirements.

Fasteners

Bar joist shall be fastened to girders and beams with 1/2" high strength steel bolts. Girders and beams shall be fastened to columns with ASTM A325 bolts.

PAINT FINISH

Mezzanine components shall feature a powder coated paint finish. The owner shall select from 14 standard powder coat colors or specify a special color of his choice.

WARRANTY

Mezzanine manufacturer shall provide a Lifetime Structural Warranty that covers all structural components of the mezzanine.

