

TOWN OF JUPITER BUILDING DIVISION FIELD INSPECTION SERVICES

Friday September 24, 2010

MECHANICAL LIFTS FOR LIGHTING FIXTURES

Revision 3

This revision updates this bulletin to the [2007 Florida Building Code Residential, with the 2009 supplement](#)

TRUSS REQUIREMENTS

The supporting structure (joists, trusses, etc.) must be rated for a concentrated load at the full rating of the winch. A 300 pound rated winch must have a supporting structure rated at 300 pounds. A 500 pound rated winch must have a supporting structure rated a 500 pounds, regardless of the weight of the original light fixture being installed.

Where the winch assembly is not located directly above the fixture location and is remotely located, additional care must be taken. Both the winch and the directional pulley(s) location must be designed for the full capacity rating of the winch assembly.

Wood or steel trusses are not designed for any loads to be placed on the bottom cord of the truss assembly. All loads are required to be supported from the top cord only and may only be stabilized by the bottom cord of the truss.

Concentrated loads such as those encountered by the lifts and their attached chandeliers require engineering review by the [truss engineer of record and a signed and sealed installation detail.](#)

A complete set of the manufacturer's installation instructions, [and two copies of the required signed and sealed truss engineering detail for the lift installation](#) must be on site at the time of the rough electrical inspection.

The [2007 Florida Building Code Residential, with the 2009 supplement](#) states:

ACCESS REQUIREMENTS

M1305.1.3 Appliances in attics. Attics containing appliances requiring access shall be provided with an opening and unobstructed passageway large enough to allow removal of the largest appliance. The passageway shall not be less than 30 inches (762 mm) high and 22 inches (559 mm) wide and not more than 6 feet (1829 mm) in length measured along the centerline of the passageway from the attic access opening to the appliance's service panel. The passageway shall have continuous solid flooring not less than 24 inches (610 mm) wide. A level service space not less than 30 inches (762 mm) deep and 30 inches (762 mm) wide shall be present at the front or service side of the appliance. The clear access opening dimensions shall be a minimum of 20 inches by 30 inches (508 mm by 762 mm), where such dimensions are large enough to allow removal of the largest appliance.

ELECTRICAL REQUIREMENTS

M1305.1.3.1 Electrical requirements. A luminaire controlled by a switch located at the required passageway opening and a receptacle outlet shall be installed at or near the appliance location in accordance with [Chapter 33](#). (references the National electrical Code)