

**CITY OF NEW YORK
DEPARTMENT OF BUILDINGS**

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use in accordance with the Report of Materials and Equipment Acceptance (MEA) Division.

**Richard C. Visconti, R.A., Acting Commissioner
MEA 185-00-E**

Report of Material and Equipment Acceptance Division

Manufacturer – Automated Parking Systems, 72-15 Metropolitan Avenue, Middle Village, New York 11379.

Trade Name(s) – Automated Parking Systems Automobile Parking Lift.

Product - Two level automobile parking car lift, model 2400.

Pertinent Code Section(s) - Reference Standard Section 27-909, 27-991 and RS 18-3

Test(s) - Load Test and Computations sealed by Seymour Warren Gage, New York State P.E. License No. 31662.

Test Report(s) - Computations and test performed by Seymour Gage, P.E., letter dated May 4, 2000. Top platform was tested with a load of 11,926 pounds. All safeties, connections, structural elements and platforms functioned adequately during the test. No significant deformations were observed during the test. The device passed this load test without cracks or permanent deformations.

Description - The Automated Parking Systems Automobile Parking Lift model 2400 is a two (2) level automobile lifting device, one vehicle above, and one vehicle below, on ground.

It consists of one platform and four support columns. The platform is capable of lifting one car 6'6" high, leaving space below for another car to be parked underneath at ground level.

The total lift height is 8'-6" and is made out of A36 steel. The columns are formed of A36 steel. The platform consists of 2.5"x2.5" steel tube sections supporting 1/8" thick steel diamond plate.

The entire assembly comes pre-welded and assembled in the field with Grade 5 Bolts.

The hydraulic system, which raises and lowers the platform, consists of a pump and motor, which are controlled by a 24-volt AC relay and valve combination. A hydraulic control circuit maintains a consistent rate of decent regardless of loading levers to stop all motion. A pressure compensated hydraulic overload prevention circuit precludes the operation of the unit with a greater load than 6,000 pounds.

The lift is equipped with safety sensors to stop the motor from running when the platform is at the uppermost position and has passed the positive mechanical lock. The platform raises and lowers in a horizontal position. A double suspension safety locking system holds the full weight of the car on its platform in the locked position, independent of the electric or hydraulic operation.

Recommendation - The Automated Parking System Automobile Parking Lift 2400 be accepted for indoor and outdoor use also with the following conditions:

Indoor Use:

1. Installation of the lift shall be in sprinklered garages, which also have side wall sprinklers to protect the lower vehicle parked on the lift. The side wall sprinklers shall be protected from mechanical injury. The sprinkler pipe sizes shall be adequate to supply the additional side wall sprinklers.
2. Plans shall be filed and approved by the Department of Buildings for the alteration of the existing sprinklers system and tie-in of the additional sprinklers. Hydrostatic tests of the sprinkler system components shall be witnessed and approved by the Fire Department and Department of Buildings.
3. The floor loads shall be recalculated for the additional weight of the lift and the cars, and filed with the Buildings Department by a structural Professional Engineer for adequacy.
4. The indoor use shall be limited to garages with a minimum of 9'-6" ceiling height for Model 2400 plus adequate distance for sprinkler coverage.
5. Garages that do not have pre-existing sprinklers, the sprinklers system shall be designed for "High Piled Storage".

Outdoor Use:

1. The car lift shall only be used in attended open parking lots.
2. The requirements of Section 27-4080 of the Administrative Code shall be complied with.

3. Each proposed use of the car lift shall be submitted to the Department of Buildings to determine whether it complies with the Zoning Resolution and whether the soil conditions are adequate. Each unit shall have suitable anchorage of its structural members and integral base plates into concrete footings, the strength, size, and depth of which shall be based on an assumed weight of 6,000 lbs. for each car.
4. Where the property is located in or about residentially zoned districts, this device shall not be located at the first row of cars or within 20 feet of the property line, whichever distance is greater.

For Both Indoor and Outdoor Use:

1. All regulations of Department of Consumer Affairs shall be complied with.
2. Each proposed use of the car lifts shall be submitted to the Department of Buildings to determine whether it complies with the Zoning Resolution.
3. Model 2400 lift shall not be used to park or store any vans, trucks, recreational vehicles or any other type of vehicle other than passenger cars capable of seating up to 6 persons and weighing a maximum of 5,000 lbs. each car.
4. Drawings and specifications shall be filed with Department of Buildings Elevator Division for each site.

All shipments and deliveries of such equipment shall be provided with a metal tag, suitably placed, certifying that the equipment shipped or delivered is equivalent to those tested and accepted for use, as provided for in Section 27-131 of the Building Code.

Final Acceptance May 25, 2000

Examined By Mark J. Kelly