



NYC Department of Buildings
280 Broadway, New York, NY 10007
Patricia Lancaster, FAIA, Commissioner
(212) 566-5000, TTY: (212) 566-4769

Report of Materials and Equipment Acceptance Division

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use subject to the terms and conditions contained herein.

MEA 96-07-E

Manufacturer: Tada Auto Parking Company, Laiwu City, Shandong Province, CHINA

Trade Name(s): SpaceMaker

Product: Two-level automobile stacking device

Pertinent Code Section(s): Administrative Code Section 27-990, 27-991, and Reference Standard RS18-3

Prescribed Test(s): Load Test and computations sealed by: Seymour Warren Gage, New York State PE, License #31662

Laboratory: Seymour Warren Gage, New York State PE, License #31662

Test Report(s): Computations and test letter dated December 5, 2006. Two stackers, with shared column, were tested concurrently with loads of 12,000 lbs. each. No discernable deflections were noted.

Description: The Park Plus SpaceMaker double parking lift, model DP005/6, is a two-level car stacker device for parking two automobiles, one above and another at ground level. The device is designed to lift an automobile on a platform and lock the platform in place so that a second automobile can be parked in the space below the platform.

The minimum ceiling height, in order to park one car above another, is 11 feet, 7 inches.

The platform frame is galvanized steel, 6mm in thickness and the platform itself is 3mm diamond plate, galvanized.

The entire assembly weighs 2,600 lbs., comes pre-welded and is assembled in the field with A307 bolts, except for certain critical bolts which are A325 (high tensile – 120,000 psi).

The stacker device is operated by hydraulics, and the telescoping-hydraulic cylinder rods are chrome-plated to prevent rusting. The hydraulic system, which raises and lowers the platform, consists of a pump and motor which are controlled by a 24-volt relay and valve combination. The hydraulic circuit maintains a constant rate of descent regardless of loading conditions. A manually-operated emergency pump is provided in case of electrical failure, to allow lowering of the platform without electrical power. A pressure-compensated hydraulic overload prevention circuit precludes operation of the unit with a load greater than 6,000 lbs.

The device is equipped with a safety-locking system. The “posi-lock” double suspension system holds the full weight of the automobile on the platform. Other safety features include a safety sensor which prevents the platform being lowered when the space below is not clear, by preventing release of the safety lever and integral wheel chocks which secure the automobile wheels.

Terms and Conditions: The above Model DP005/6 is accepted, for indoor and outdoor use, 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 New York City Department of Buildings for the alteration of the existing 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 re-calculated for the adequacy for the additional weight of the lift and the cars, and filed with the Buildings Department by a structural Professional Engineer.
4. The indoor use shall be limited to garages with a minimum of 11 feet, 7 inches ceiling height plus adequate distance for sprinkler coverage.
5. In garages that do not have pre-existing sprinklers, the sprinkler system shall be designed for “High Piles 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 installation of the car lifts shall be filed with 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 installation of the car lifts shall be filed with the Department of Buildings to determine whether it complies with the Zoning Resolution.
3. The Model DP005/6 series of lifts 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 6,000 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 that tested and acceptable for use, as provided in Section 27-131 of the New York City Building Code.

Final Acceptance August 3, 2007
Examined By Donald [Signature]

