

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.

Patricia J. Lancaster, A.I.A., Commissioner  
MEA 138-03-E

Report of Materials and Equipment Acceptance Division

Manufacturer – Rotary Lift.

Trade Name(s) - Vehicle Storage Solution.

Product - Electro-hydraulic, drive-on platform, two level automobile parking lift,  
Model No. VSS7-001.

Pertinent Code Sections – Reference Standard Section 28-909, 27-991, RS 18-3.

Test(s) - Load Test and computations sealed by: Seymour Warren Gage, New  
York State PE License No. 31662.

Laboratory – Seymour Warren Gage, New York State PE License No. 31662.

Test Report(s) - Computations and test performed by Seymour Gage P.E. letter  
dated May 7, 2003. Top platform was tested with a load of 14,000 pounds.

Description - Two level automobile parking lift that consists of two support  
columns, platform assembly and a power unit. This unit will lift one car 84"  
high while leaving space below to park an additional car under the  
platform at ground level.

The total height of the column is 139" and had a total lifting capacity of  
7,000 lbs. The columns are made out of steel and have a powder coat type  
paint finish. The platform is made out of steel and will have a galvanized  
coating on the frame and the top will be made of aluminum diamond plate  
riveted to the galvanized steel frame.

The entire assembly will weigh 2500 lbs. and will be welded together and  
assembled in the field with bolts. A 12VDC electric solenoid valve will  
control the flow of hydraulic oil to and from the unit. Each unit will have a  
single point dual lock release. The unit will have two (2) lock heights.

The hydraulic system consists of a motor and pump combination with a  
relief valve and lowering valve. The rate of descent is controlled by a fixed  
orifice device. The cylinders have a velocity fuse integral to the cylinder.  
The lift has an electric solenoid valve that is actuated for both the up travel  
and down travel.

Recommendation - That the above Model VSS7, be accepted for indoor and outdoor use also with the following conditions:

For 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 10'-6" ceiling height 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".

For 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. The Model VSS7 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 those tested and accepted for use, as provided for in Section 27-131 of the Building Code.

Final Acceptance June 11, 2003

Examined By [Signature]