



DASMA
Door & Access Systems
Manufacturers Association
International

COMMERCIAL & RESIDENTIAL GARAGE DOOR DIVISION

TECHNICAL DATA SHEET

#151

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General Code Inspection Guidelines For Wind Load Rated Garage Doors

WARNING: VISUALLY inspect components under spring tension, such as spring anchor brackets and parts to which cables are attached; DO NOT TOUCH. These components are under extreme tension. If any such part appears to be loose, the building owner should be advised to contact a trained door systems technician to take corrective action.

The following guidelines are intended for a code official performing a final inspection on an installed garage door system with a focus on wind-reinforced doors. The inspection is meant to be general, and relatively brief in nature, and is intended to quickly spot any deviation from either the code or the manufacturer's installation instructions/job approval drawings.

1. Obtain manufacturer's installation instructions.
2. If available, obtain job approval drawings.
3. Obtain, if available, applicable job performance requirements, e.g. wind load, air infiltration, fire compliance, etc.
4. Safety instructions provided by manufacturer must be properly applied and visible.
5. Check door against instructions and/or drawings to verify use of proper components and proper assembly. Components to check include door sections, track metal thickness, track bracket fasteners, door reinforcement and door reinforcement fasteners.
6. Check if door jambs are sufficient to withstand design wind loads as imposed by the door. Some buildings have separate wood jambs which must also be securely attached to the building structure. (see guidelines in TDS-161).
7. A wood pad beneath a spring mounting bracket (torsion spring systems) carries significant loads. The wood pad must be securely attached to the building and be made from a structurally sound wood material.
8. If door includes a torsion spring power unit, visually check if such unit appears to be properly secured.
9. If door includes extension springs, check if the safety containment cable has been installed lengthwise through each extension spring and that each cable has been properly secured at each end.

Note: Technical Data Sheets are information tools only and should not be used as substitutes for instructions from individual manufacturers. Always consult with individual manufacturers for specific recommendations for their products and check the applicable local regulations.

This Technical Data Sheet was prepared by the members of DASMA's Commercial & Residential Garage Door Division Technical Committee. DASMA is a trade association comprising manufacturers of rolling doors, fire doors, grilles, counter shutters, sheet doors, and related products; upward-acting residential and commercial garage doors; operating devices for garage doors and gates, sensing devices, and electronic remote controls for garage doors and gate operators; as well as companies that manufacture or supply either raw materials or significant components used in the manufacture and installation of the Active Members' products.

10. Check for secure connection of horizontal tracks to “backhangs”, and “backhangs” to garage ceiling structure.
11. Check for secure connection of vertical track brackets to the jambs.
12. Check the spacing between the track and the door to insure adherence to the manufacturer’s recommendations.
13. Manually open and close door several times to check for smooth operation, using appropriate lift handles or gripping points.
14. With door in manual mode, position door approximately 4 feet open and release. If the door is correctly counterbalanced, the door should not move more than a few inches in either direction.
15. Doors installed with electric motor operators should be properly tested for automatic reversal in accordance with the manufacturer’s instructions.

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