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Rolling Door Component Substitution

Introduction

This Technical Data Sheet gives guidelines where substitution of one or more components becomes necessary in an installed rolling door, in order for the door to perform its intended functions.

General

Discretion and caution should be exercised any time component substitutions are made. All parts that look the same may not be the same. The original equipment (rolling door) manufacturer should be consulted if a part cannot be verified as an acceptable substitution.

Following is information on some common rolling door related components that may be subject to substitution.

Slats. Unlike commercial garage doors with sections that are mechanically hinged together, rolling doors rely on the interlocking connections of the slats to maintain integrity. Slats that have the same general shape and dimensions may be, but are not necessarily, interchangeable. Each rolling door manufacturer may use a unique slat design for slat interconnections. Improperly fitting slats may inhibit proper operation and compromise door performance.

Guides. Not only should the guide components be in accordance with the door manufacturer's specifications as to size and strength, but the guide components should be inspected to ensure they are not bent or curved. Guides must always be assembled and installed in accordance with the door manufacturer's instructions.

Bolts. An equal or greater strength bolt should always be used, as related to its shear and tensile capacity. Something as apparently simple as replacing one bolt without verifying the Grade of both the existing bolt and the replacement bolt can compromise safety if the bolt is used to support curtain dead load or is integral to door operation or performance.

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 Rolling 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.

Hood. The hood specifications, and the installation of the hood, should be closely followed so that necessary clearances are maintained and so that the door operates without interference from the hood.

Operating Chain. The replacement chain should be of the same type and size, and should ensure that the door can be manually operated in accordance with maximum forces per either the manufacturer's specifications or, in the absence of such specifications, the applicable rolling door standard.

Special Considerations for Rolling Steel Fire Doors

- Per NFPA 80, fire rated rolling doors must be repaired with parts obtained from the manufacturer of the door.
- Per NFPA 80, labeled retrofit operators are allowed to be used on other manufacturer's fire rated rolling doors when in accordance with the operator's listing and acceptable to the AHJ.
- The only other component substitutions allowed are in parts not integral to the door assembly, such as fusible links, cable/sash chains, S-hooks, ancillary release devices, and the like - but they must have the same "characteristics" (i.e. temperature rating, load rating, etc.)

Special Considerations for Air-Leakage Rated Rolling Doors

- By reference, the requirements in NFPA 105 are applicable to S-label doors that are also fire doors.
- Requirements should additionally apply to perimeter seals and heat resistant caulking.

Special Considerations for Wind Rated Rolling Doors

- Components critical to the wind performance of the door should always be coordinated with the door manufacturer. Affected components may include slats, windlocks, rivets, bottom bar, guides, assembly bolts and wall fasteners.
- The door manufacturer should also be consulted regarding installation of replacement components since specialized installation of components may be needed in some cases to maintain wind resistance integrity.

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