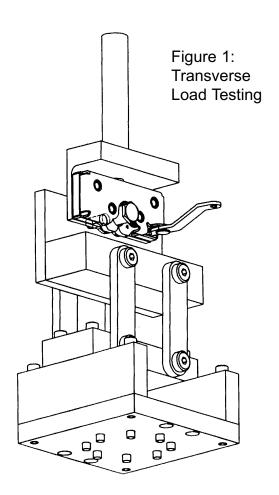
Tri Mark FMVSS 206 Load Testing

The FMVSS 206 standard "specifies requirements for door locks and door retention components including latches, hinges, and other supporting means, to minimize the likelihood of occupants being thrown from the vehicle as a result of impact".

-from Code of Federal Regulations (revised as of October 1, 1996), section 571.206, page 457

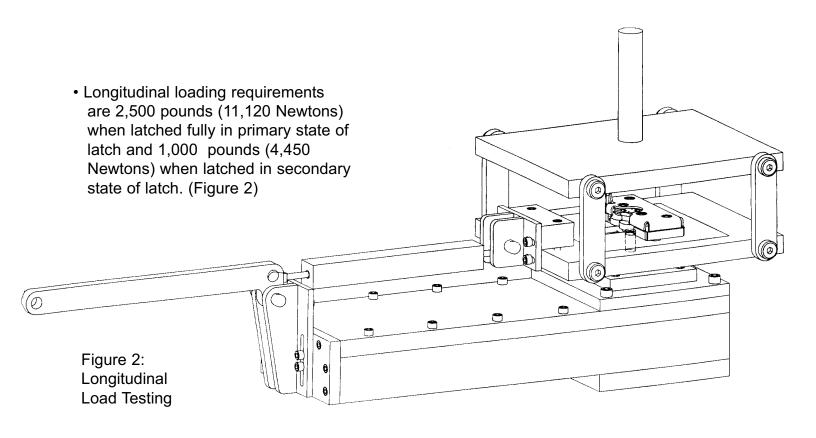


 Transverse loading requirements are 2,000 pounds (8,900 Newtons) when latched fully in primary state of latch and 1,000 pounds (4,450 Newtons) when latched in secondary state of latch. (Figure 1) FMVSS 206 standard requirements are dependent on door application, e.g. hinged doors, sliding doors, or hinged upward swinging doors. To determine specific requirements of FMVSS 206 for a particular application see recent version of Code of Federal Regulations.

For side hinged doors, FMVSS 206 specifies two different static loading capacities. Loading capacity requirements differ for transverse and longitudinal loading. See Figure 1 and 2 to examine how transverse and longitudinal loads are applied to the door latches and striker bolts.

Figure 1 and 2 illustrates how Tri*Mark* performs transverse and longitudinal testing to Tri*Mark* 050-0100 Two-Rotor Latch. Testing is very similar for other rotary latch product lines, including 050-0200/0250 Slimline Rotary Latch, 050-0400 Floating Striker Single Rotor Latch and 050-0700 12mm Single Rotor Latch.







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The purpose of this publication is to explain FMVSS 206 testing practices of Tri*Mark* latches and other FMVSS 206 compliant products. **It is not the intention of this publication to interpret and address all concerns of FMVSS 206**. It should be understood that FMVSS 206 compliance includes requirements in addition to load strength such as 30G inertial loading. Further analysis is needed than is described for full compliance with FMVSS 206.

It should be understood that FMVSS 206 compliance of an entire door system could be independent of load bearing capabilities of door hardware. It is important that customers follow application assistance and recommended practices of Tri*Mark*, when hardware is used in an application, which is included in the scope of FMVSS 206. **Tri***Mark* **does not claim to test all potential applications of the FMVSS 206 compliant products.**