

Product Performance Summary

050-0100 Two Rotor Latch

Durability:

The 050-0100 Two Rotor Latch will withstand a cycle life of 100,000 cycles at a door seal load of 80 lbs (36 kg). This latch met a reliability/confidence level of R90/C60 in an ambient lab environment.

The 050-0100 Two Rotor Latch will withstand a cycle life of 100,000 at a door seal load of 80 lbs (36 kg) while subjected to a dust environment, simulating conditions like that of an agricultural or construction environment.

Door Seal Load:

Recommended DSL for this latch is 50 lbs (22kg), not to exceed 150 lbs (45 kg) to achieve

maximum longevity.

(Door seal load may vary depending on application, which may impact the life of the latch)

FMVSS 206 (Per SAE J839) Strength Performance:

Latch meets and exceeds load requirements of FMVSS 206 in transverse and longitudinal orientations, in both primary and secondary positions, when paired with approved TriMark Strike in accordance with SAE J839.

The FMVSS206 strength requirements are listed below.

Transverse Primary 9000N (2023 lbf) Secondary 4500 N (1112 lbf)

Longitudinal Primary 11000 N (2473 lbf) Secondary 4500 N (1112 lbf)

Recommended Mount Fastener:

Mount fastener shall be either M6 x 1.00, class 8.8 or ¼-20 UNC grade 5 or better to comply with FMVSS 206 and EC-11 strength requirements.

The axles used in the 050-0100 Two Rotor Latch are capable of withstanding a maximum recommended fastener torque however do not exceed 120 in lbf (14 N-m).

(Latch must be used with a TriMark approved strike - 070-0200 17mm Diameter Strike)

Note: Additional testing information is available upon request.

The Product performance values shown are intended to be applied as a general guideline only, as specific applications and installation may affect the results. It is recommended that the Customer request a sample and conduct their own testing to determine the suitability of the Product for the intended purpose and specific application. Strength data is given as maximum loads at which the product is operable, however no safety factor has been applied.



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