

# macdata

(materials and components development and testing association)

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## TEST REPORT

SUBJECT: Timber Horizontal Pivot Window, 1200 mm x 1200 mm,  
fitted with Titon Sobinco Pivots.

CLIENT: Titon Hardware Limited  
91 London Road,  
Copford, Colchester, Essex.

## MECHANICAL WEAR TEST

The window as delivered to our laboratory was installed in our Mechanical wear test rig and subjected to 30,000 cycles of opening and closing.

In each cycle the window was opened to the limit of the safety stop and closed. Following each set of 1000 cycles, the window was reversed 25 times in order to simulate cleaning operations.

Signs of abrasion of the sealing gasket became evident during the test but there were no signs of deterioration in the pivots and the window continued to function normally on completion of the 30,000 cycles.

It is usually considered that a test of 30,000 cycles duration is approximately equivalent to 30 years of normal use:-

NOTE: In this case the locking handles were excluded from the test.

## LOADING TEST ON PIVOT SAFETY STOPS

The window was subjected to a loading test on the integral safety stop in accordance with the Agreement Board Specification MOAT 1 : cl 1.3.3.5 (2).

The pivot safety stop sustained the required load of 500 N, in both the opening and the reversed positions, for a period of 1 minute without failure.



M Arthur  
Technical Manager

MAC/MA/CK50, CI80  
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