



NZFD FIRE RATED DOORSETS SYSTEM GUIDE

DOOR FUNCTION - FIRE DOORS

How the doorset is to be operated will affect the design. The overriding consideration is that the door must be latched shut during the fire. Functions that may potentially interfere with this must be nullified.

Examples include deadbolts and flushbolts, hold open functions (unless connected to the alarm), holdback functions on locksets (unless an additional roller catch is fitted), uncoordinated closing of double leaf doors (unless plain meeting stiles and roller catches fitted).

Electronic door holders are a useful means of maintaining unrestricted access, but must be activated by a smoke alarm.

Refer C/AS1 Appendix C 8.1.6.

PUSH/PULL (Up to 120 minutes FRR) where unrestricted access is required without security.

This is achieved using roller catches fitted to the head of the leaf. For double doors specify flush meeting stiles. (Note: Specialised hardware is required for doors over 60 minutes FRR).

SECURITY

Access is to be limited by conventional lockset functions and, in the case of double doors, by the inclusion of a rebated meeting stile and a head latch to the inactive leaf accessed from the secure side. Not suitable if both leaves are required for egress. A door selector (co-ordinator) will be required. Rebated lock kits will be necessary if timber rebated meeting styles are specified.

ELECTRONIC SECURITY

Electric locks will require a conduit hole to be provided through the leaf. maximum hole sizes apply and only approved power transfer devices may be fitted. Locks must be failsafe if egress is required. Refer Section 13.

Additional security may be provided for push/pull doors or secure doors using magnetic clamps. Installation options are limited for fire doors and may affect available headroom clearance when mounted under the frame. Magnetic clamps must be additional to a primary latchset or roller catch as the clamping function will fail during the fire, allowing the leaf to swing open.

EXIT DOORS

Where egress is required but external security retained, Panic Exit Devices may be necessary with rebated meeting stiles and door selectors for double doors. Consider if both leaves are to open to achieve required width of egress. Roller catches may also be required to maintain closure during the fire. Refer Section 13.

DOUBLE ACTION DOORS

For use in high traffic areas where direction of egress could be from either direction. Flush meeting stiles and roller catches must be specified.

Note: All hardware Brands and Models must be identified in order to meet installation compliance. Refer Section 13 for NZFD Standards ratings.

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