

Fire Door Hardware

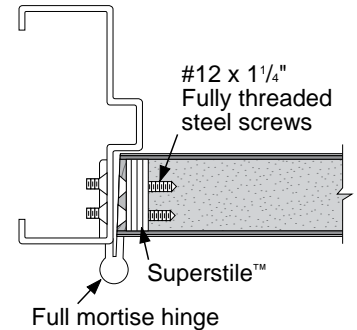
Locksets, Hinges, Closers and Frames

Lock Sets for Algoma® Made Fire Doors

Lock and latchsets with ½" bolt throw (or greater) as listed by Underwriters Laboratories must be specified. It is recommended that locksets with screwless roses be used to avoid the problem of very short rose attachment screws which may in time work loose.

Hinges for Algoma® Made Fire Door

With Algoma's Superstile™ on FD ¾, 1 and 1½ hour fire doors, half surface hinges are not necessary. (See individual door specifications in the **Doors** section of this binder.) Full mortised ball-bearing steel hinges can be installed on the hinge stile edge, the hinge being secured with #12 x 1¼" flathead, fully threaded steel screws with constant diameter wood type threads. When applying screws always predrill ⅝" diameter pilot holes to the same depth as the screw. Mortised hinges should be a minimum of .134" x 4½" x 4½". They must be of the ball-bearing type. Two (2) hinges for the first 5' and one (1) hinge for every 2½' of height thereafter are required. **The standard weight hinge leaf (.134") is approved for use on all Algoma doors through 4' x 10'**. Cycle testing has been conducted with Algoma doors of this size and Underwriters Laboratories has verified the test results. Heavy weight hinges are not required on Algoma doors.

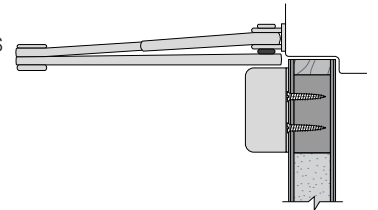


Superstile™ Edge Performance

All Algoma Grade Mineral Core Fire Doors have been tested for superior screw holding strength and split resistance. See page **Doors 15** for more complete information.

Door Closers And Exit Devices

Surface-mounted closers and exit devices are suitable for Algoma Made Fire Doors in singles and pairs. (See FD ¾, 1 and 1½ hour fire door specifications in the **Doors** section of this binder). Surface-mounted door closers and exit devices must be installed with throughbolts, unless doors are ordered with heavy duty reinforcement at the top rail and/or lock block positions as illustrated on page **Doors 18**. Proper testing has been conducted to verify that screws are suitable with this reinforcement in the door. Self tapping or combination wood/metal screws should not be used.



Heavy Duty Reinforcement Performance

Testing results, when pulling throughbolt heads through the door and withdrawing screws from various door core materials, show a marked advantage with Algoma Hardwoods optional heavy duty reinforcement rail/lockblock material.

Through Bolt Pull Through	Lbs. of Pull
Bolt Head Pulled Through Mineral Core	428
Algoma's Reinforcement	1472
Screw Withdrawal	Lbs. of Pull
Withdrawal from Hardwood Stave Core	920
Algoma's Reinforcement Rail/Lockblock	866
Withdrawal from Softwood Stave Core	593
Withdrawal from Particle Core	262
Withdrawal from Mineral Core	126