

TECH UPDATE

FlameSafe™ & FlameSafe Plus™ Reinvent Stile Construction

Marshfield DoorSystems has reinvented the standard for fire-rated mineral core stile construction with the introduction of our newly engineered **FlameSafe™** and **FlameSafe Plus™** stiles. Precisely engineered to best perform under the real demands of fire protection, these innovative stiles boost many benefits for today's fire-rated door openings.

Additional considerations of this new innovation include improved stile consistency, an overall reduction in door weight and greater screw holding strength.

FlameSafe stiles are specially designed for mineral core 60- and 90-

minute neutral pressure fire-rated doors, as well as 45-, 60-, 90-minute positive pressure category B frame mounted intumescent doors. **FlameSafe Plus** is specially designed for positive pressure category A concealed intumescent doors.

Effective October 31, 2003 this engineering innovation will be the standard construction for *Marshfield Signature Series™* and *Marshfield Accent Series™* mineral core fire-rated doors. (See Figure 2)

Marshfield DoorSystems is actively involved in the product testing and development of fire rated doors and hardware

application approvals. Please call your Inside Sales Representative at 1-800-869-3667 for details on specific applications.

Figure 1:
FlameSafe™ Improvements

	Screw Holding (lbs) NWWDA TM-10	Impact Resistance (Rating) ASTM F476-84, Section 18	Cycle Endurance Slams (Cycles) NWWDA TM-7
AT Stiles	521	10	1,000,000
Tectonite Stiles	639	30	1,000,000
FlameSafe™ Stiles	788	40	1,000,000

Figure 2:
**Mineral Core Doors
Now Constructed with FlameSafe Stiles**

FlameSafe™	
Neutral Pressure	Singles & Pairs
Positive Pressure, Category B – Frame Mounted	Singles
FlameSafe Plus™	
Positive Pressure, Category A – Concealed Intumescent	Singles

