



Secure performance for your door system.

Multi-Point Astragal

The Multi-Point Astragal combines the weather-sealing, energy-saving benefits of multi-point locking with our Ultimate Astragal. The Multi-Point Astragal operates from standard lock set deadbolt packages and requires no additional hardware or extensive machining, allowing for easy installation and retrofitting to existing door units. Three secure locking points deliver rock solid performance. Standard.



Typical french door installations only hold the active door at one point: the deadbolt. This permits door panel deflection, air and water infiltration.



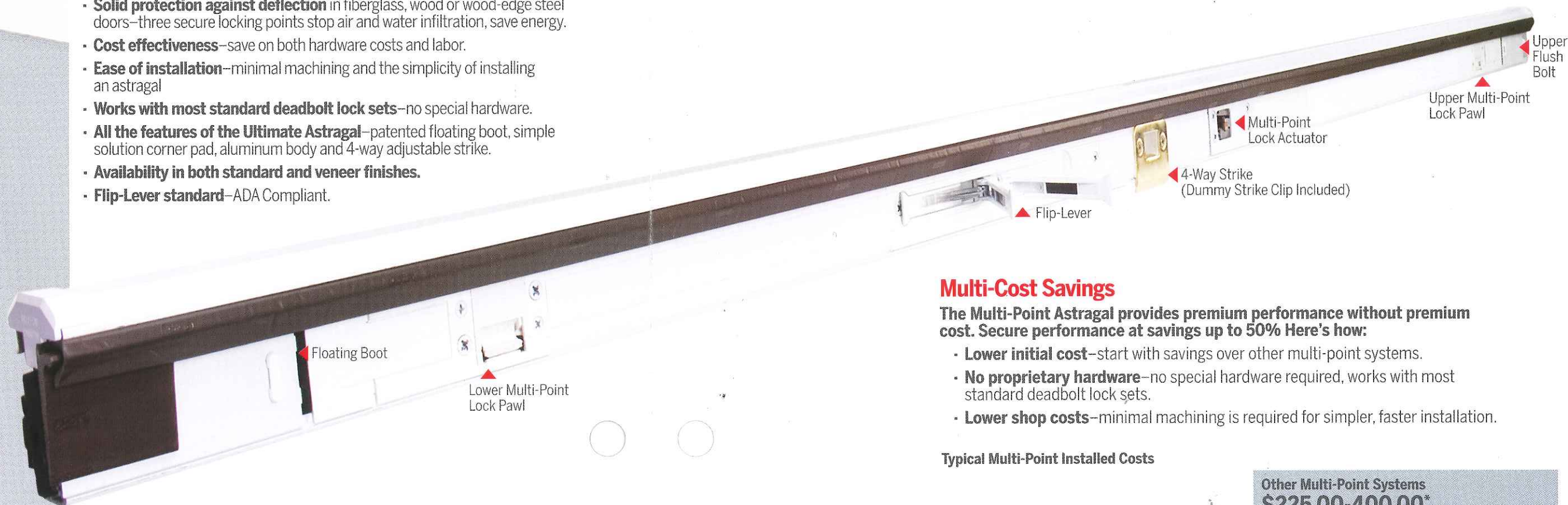
The Multi-Point features patent pending lock pawls activated by the deadbolt to engage keepers in the active door, providing three locking points. No deflection.



Why buy a Multi-Point Astragal?

Endura's Multipoint Astragal combines the strength and support of a multi-point lock with Endura's Ultimate Astragal to provide:

- **Solid protection against deflection** in fiberglass, wood or wood-edge steel doors—three secure locking points stop air and water infiltration, save energy.
- **Cost effectiveness**—save on both hardware costs and labor.
- **Ease of installation**—minimal machining and the simplicity of installing an astragal
- **Works with most standard deadbolt lock sets**—no special hardware.
- **All the features of the Ultimate Astragal**—patented floating boot, simple solution corner pad, aluminum body and 4-way adjustable strike.
- **Availability in both standard and veneer finishes.**
- **Flip-Lever standard**—ADA Compliant.



Multi-Cost Savings

The Multi-Point Astragal provides premium performance without premium cost. Secure performance at savings up to 50% Here's how:

- **Lower initial cost**—start with savings over other multi-point systems.
- **No proprietary hardware**—no special hardware required, works with most standard deadbolt lock sets.
- **Lower shop costs**—minimal machining is required for simpler, faster installation.

Typical Multi-Point Installed Costs

Multi-Point Astragal
\$134.00*

Other Multi-Point Systems
\$225.00-400.00*

* Includes cost for astragal and labor cost for installation.

* Includes estimated costs for multi-point lock hardware, handle sets and labor cost for installation.

A one-two punch for secure performance

The flip lever activates both flush bolts and the floating boot at the same time. Engaging the deadbolt activates both lock pawls into keepers. Secure Performance Standard.

1. Activate Flip Lever, Engage Floating Boot
Operate Flip-Lever to engage both flush bolts and patented Floating Boot at once.

Patented spring loaded Floating Boot finds the lowest point on the sill that maintains a perfect seal at all times.



2. Engage deadbolt, activate Multi-Point Lock
Engaging the deadbolt compresses the lock actuator to activate the patented locking system.

Upper and lower multi-point lock pawls are captured by keepers in the active door panel.



Save time, save money

Installation as easy as 1, 2, 3.

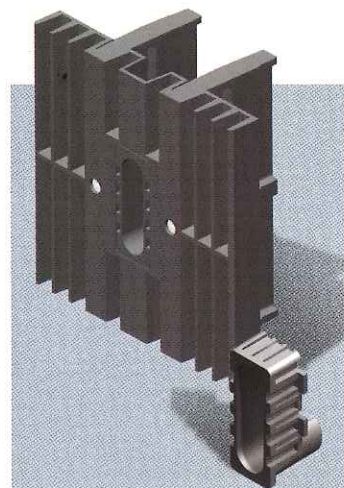
1. First rout out slots for the keeper hardware on the active door panel.



2. Next rout out the deadbolt bore center on the inactive panel.



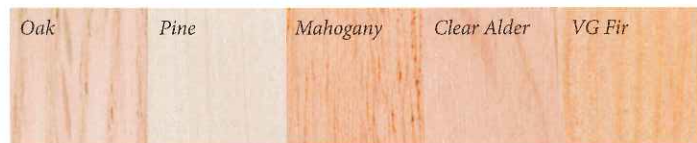
3. Install the Multi-Point Astragal on the inactive panel.



Router Template and Insert

Routing is simple using the available template and insert.

Veneer Finishes



Aluminum Body Colors



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U.S. Patents: 5, 426, 894; 6, 789, 358; 7, 350, 336; 5, 588, 266; 5, 611, 173, D354, 572 Other patents pending

Certified Testing

Performance of the Ultimate Multipoint Astragal was validated by certified testing through an independent, accredited laboratory. The following test protocols were utilized to verify performance: Air penetration resistance per ASTM E 283; Water penetration resistance performance per ASTM E 547; and Structural performance per ASTM E 330.

Endura Multi-Point Astragal 6/8 Certified Testing Result
6/8 Inswing

Manufacturer/Brand	Panel Type	Glass Type	Air	Water	Structural
JELD-WEN® Energy Saver®	Steel	Insert	0.03	DP40	DP45
JELD-WEN® Energy Saver®	Fiberglass	Insert	0.05	DP35	DP40
Masonite® Bellville® Smooth	Fiberglass	Flush	0.02	DP40	DP55
Masonite® Bellville® Smooth	Fiberglass	Insert	0.03	DP35	DP45
Masonite® Masonite® HD	Steel	Insert	0.03	DP45	DP50
Plastpro® Select Fiberglass	Fiberglass	Flush	0.03	DP45	DP55
Plastpro® Select Fiberglass	Fiberglass	Insert	0.04	DP40	DP45
Therma-Tru® Fiber Classic®	Fiberglass	Flush	0.05	DP40	DP+45/-50

Endura Multi-Point Astragal 8/0 Certified Testing Result
8/0 Inswing

Manufacturer	Panel Type	Glass Type	Air	Water	Structural
JELD-WEN® Energy Saver®	Steel	Insert	0.05	DP40	DP45
JELD-WEN® Energy Saver®	Fiberglass	Insert	0.03	DP30	DP40
Masonite® Bellville® Smooth	Fiberglass	Flush	0.03	DP35	DP+40/-45
Masonite® Bellville® Smooth	Fiberglass	Insert	0.01	DP35	DP40
Masonite® Masonite® HD	Steel	Insert	0.03	DP45	DP+40/-45
Plastpro® Select Fiberglass	Fiberglass	Flush	0.04	DP35	DP40
Plastpro® Select Fiberglass	Fiberglass	Insert	0.03	DP35	DP35
Therma-Tru® Fiber Classic®	Fiberglass	Flush	0.05	DP40	DP+45/-50

Other Testing

In addition to certified testing, the Ultimate Multipoint Astragal operation and durability were successfully evaluated based on additional industry standards. These include:

Bolt Operating Lever and Bolt Durability – The bolt lever, engagement bolts, and associated mechanisms were operated for 300,000 cycles (based on BHMA A156.5, Grade 2).

Deadbolt Actuator and Multipoint Latch Durability – The deadbolt actuator, multipoint latches, and associated mechanisms were operated for 300,000 cycles (based on BHMA A156.5, Dead Lock Grade 2).

Salt Spray Resistance – All components were exposed to a salt fog under elevated temperatures for 1,000 hours (per ASTM B 117).



PERFORMANCE STANDARD

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