Proven performance for your door system.

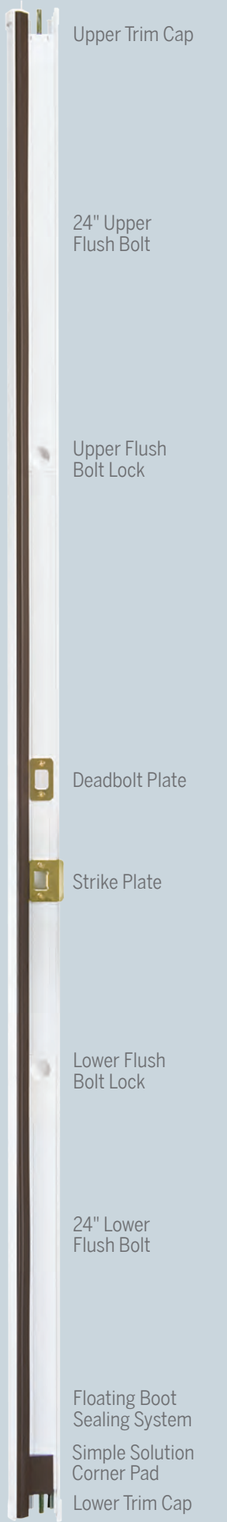
Ultimate Astragal Family

The patented floating boot delivers a perfect, secure seal, every time.

Ultimate performance for french door systems. A patented three-point sealing system eliminates water and air infiltration. A unique floating boot lifts up with the flush bolt to clear the threshold when the door is opened and is secured in place when the door is closed to provide a lasting seal. Our astragals stand up to their reputation and deliver unmatched performance, standard.

Endura™

PERFORMANCE STANDARD



All Aluminum Body
Provides strength and encapsulates the inactive door for a secure fit.

Patented Floating Boot
lifts with the flush bolt to prevent excessive rubbing and wear that lead to poor performance with traditional boot-type seals.

Simple Solution Corner Pad
Pre-applied to every astragal, the Simple Solution ensures proper weathersealing at the weatherstrip.

Flush Bolt Lock
Locks patented 24" flush bolt for additional security.

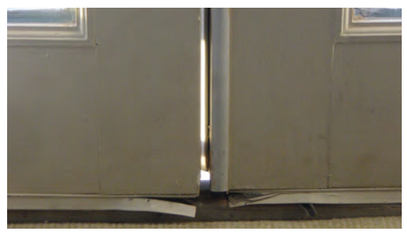
4-Way Adjustable Strike & Deadbolt Plates
Improved alignment for better compression of the weatherstrip

Why buy an Ultimate Astragal?

No more air and water infiltration.
No more leaks!

- **Patented three-point sealing system**–eliminates water and air infiltration
- **Retractable floating boot**–will not compress, become damaged or fall off after continued use. The boot lifts up with the flush bolt to clear the threshold when the door is opened and is secured in place when the door is closed to provide a lasting seal
- **4 way adjustable strike retainers**–Improved alignment for better compression of the weatherstrip
- **Easy installation**–save time and money
- **Patented performance**–engineered to be the best astragal you can buy. U.S. Patents: 5,857,291; 6,491,326 and other patents pending

End French Door Problems
The Ultimate Astragal solves the problems builder face in french door applications.



Patented Floating Boot
Lifts with the flush bolt to prevent excessive rubbing and wear that lead to poor performance with traditional boot-type seals.

Floating Boot Up

Floating Boot Down

Adjustable strike plates with hardware in place

The Ultimate Astragal Family

Endura's family of astragals is built around our Ultimate Astragal, the patented protection of the floating boot and the installation ease of 4-way adjustable deadbolt and strike plates. Choose other Ultimate models for unique benefits to fit every application.

Ultimate Astragal

Patented three-point sealing system eliminates water and air infiltration. Utilizes a locking mechanism to prevent unlocking from the outside.

Ultimate Lite

The same superior sealing system as the Ultimate Astragal, but uses a 9" one-piece flush bolt for cost efficiency. Locking bolt mechanism is optional.

Ultimate Multi-Point

Secured at five fortified points with the convenience of flip-lever operation to prevent door deflection. Eliminates traditional multi-point hardware.

Trilennium Compatible

For use with the Trilennium Multi-Point Locking System for enhanced locking features AND Endura's patented three-point sealing system.

Ultimate Astragal Family Features and Benefits

Performance Standard

Specifications Overview

Features	Ultimate Astragal	Ultimate Astragal Lite	Multi-Point Astragal	Multi-Point Compatible
Patented Floating Boot	●	●	●	●
3-Point sealing system	●	●	●	●
4-way Positionable Strike & Deadbolt Plates	●	●	●	●
Simple Solution Corner Pad	●	●	●	●
PE650 Weatherstripping	●	●	●	●
Thermally Broken Aluminum Body	●	●	●	●
Flush bolt lock	●	◐	○	◐
24" Flush Bolt	●	○	●	●
9" Flush Bolt	○	●	○	◐
Compatible for 7/8" spacing, 1-11/16" door panels	●	●	○	●
Availability/Options				
Available for 6/8, 7/0 and 8/0 door panels	●	●	●	●
Left or Right Hand Positioning available	●	●	●	●
Available for inswing or outswing applications	●	●	●	●
Non Thermally Broken Aluminum Body	●	●	●	●
Security Flange Option for outswing doors	●	●	●	●
Flip-Lever Operation	◐	○	●	●
Multi-Point Locking System	○	○	●	●
Multi-Point Compatible: Trilennium	○	○	○	●
Structurally Rated Hurricane Astragal	●	○	○	○
Painted finishes: White, Bronze, Brushed Nickel	●	●	●	●

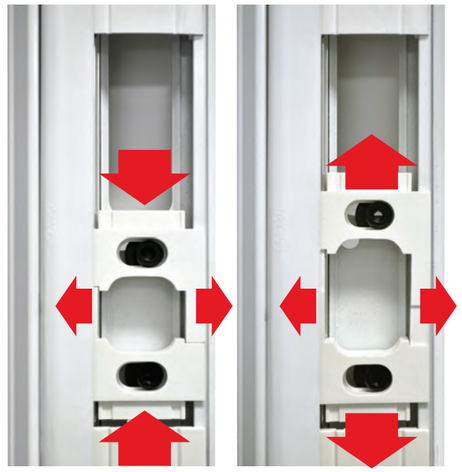
● Standard ◐ Option ○ Not Available

Aluminum Body Colors

White | Bronze | Mill

4-Way Adjustable Strike Retainer*

Provides improved alignment for better compression of the weatherstrip



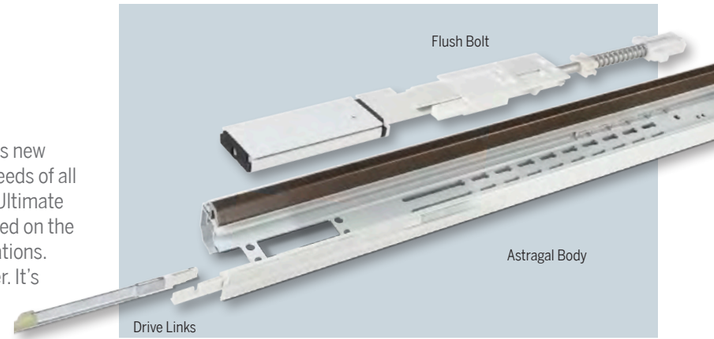
*Adjustable strike retainer available only on Flip Lever Upgrade and Multipoint Astragals.

Intuitive Cut Down and Adjustment.

Multi-Point Astragal and Flip Lever Astragal

Simplistic Modularity

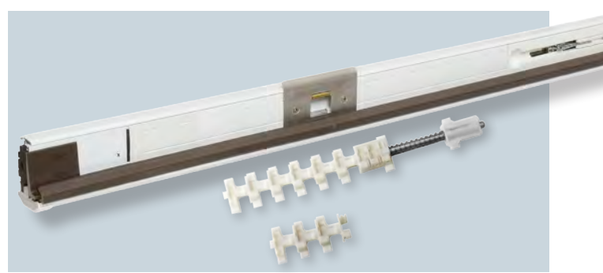
French doors come in many shapes and sizes. Whether it's new construction or a retrofit, you need items that fulfill the needs of all functions and applications. The Multi-Point Astragal and Ultimate Flip Lever Astragal can be cut down by up to 7 inches based on the original length of the astragal to accommodate all applications. Reduce SKUs and broaden the range of sizes you can offer. It's simple.



Trilennium Compatible Astragal

Intuitive Adjustments.

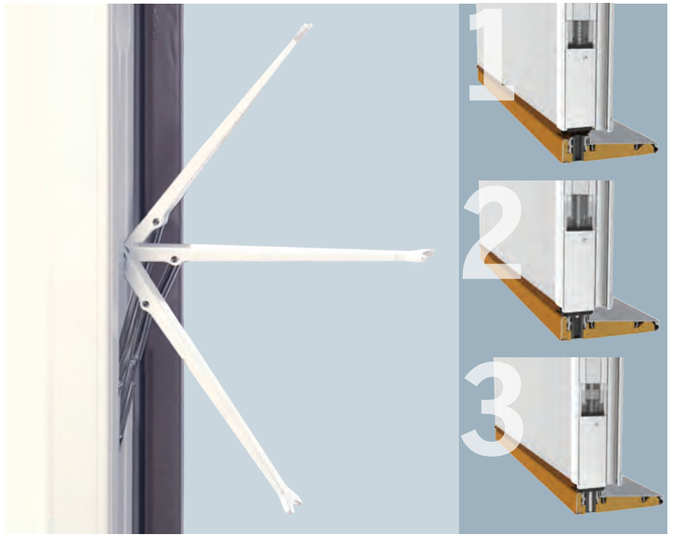
The Trilennium Compatible Ultimate Flip Lever Astragal features the new Modular Drive Lug Assembly Linkage System,which requires users to remove the number of links corresponding to the desired cut down length, then cut down the astragal. This intuitive shortening method is simple, and reduces the number of SKUs stocked while maintaining functionality and high performance of the astragal



Flip Lever Upgrade to Ultimate Astragal

Adds simplicity to flush bolt engagement. The flip-lever mechanism creates a synchronized flush bolt activation of both bolts into the top and bottom of the frame through one motion. Eliminates separate flush bolt locking mechanisms at the top and bottom of the astragal. With the flip-lever option, the floating boot is spring-loaded to find the lowest point on the sill, creating a tight seal regardless of the depth bored to fit the flush bolt.

- **Patent-pending**
- **Easy-to-use, Enhanced Accessibility -**Engages top and bottom flush bolts in one motion.
- **Enhanced sealing capabilities-** Spring-loaded floating boot finds the lowest point on the sill regardless of the depth bored for the flush bolt to create a tight seal
- Standard in Multi-Point Locking Astragal & Trilennium Compatible Astragals
- Upgrade option in Ultimate Astragal

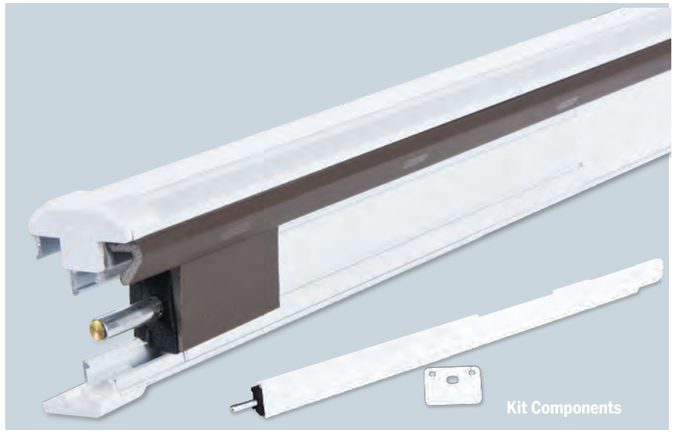


Ultimate Astragal Hurricane

Features a reinforced 24" flush bolt that adapts to the Ultimate Astragal* for excellent performance in high velocity wind zones without changing the appearance of the Ultimate Astragal.

- **24" Steel Reinforced Flush Bolt**
- Kit includes Header Flush Bolt Retainer and Sill Flush Bolt Retainer (outswing)
- **Available in Ultimate, Ultimate Lite, and Trilennium Compatible Astragals**
- **Structural Rating shown on testing chart**

*Not intended for use with Ultimate Astragal Lite


Kit Components

Ultimate Lite Astragal

The same superior sealing system as the Ultimate Astragal, but uses a 9" one-piece flush bolt for cost efficiency. Locking mechanism is optional.

- **Patented three-point sealing system**–eliminates water and air infiltration
- **Retractable floating boot**–will not compress or fall off after continued use for a lasting seal
- **4 way adjustable strike retainer**–easy installation of existing hardware
- **Patented performance**–U.S. Patents: 5,857,291; 6,491,326 and other patents pending

Performance Standard

Ultimate Astragal Veneer

Combines the Ultimate Astragal's patented three-point system with the aesthetic appeal of real wood to match many interior finishes. The veneers are complimented by bronze end caps.

- Available with all models

Veneer Finishes

Ultimate Astragal Compatible

Works with French door systems requiring 7/8" astragal spacing and door panels with 1-11/16" thickness. Available as an Ultimate Astragal, a Multi-point Trilennium® Astragal and as an Ultimate Hurricane Astragal. Also available in veneer finishes.

Ultimate Trilennium Compatible Astragal

Homeowners get ultimate protection and superior sealing performance from the Trilennium Compatible Ultimate Astragal. Built to compliment the strength of the Trilennium Multi-Point Lock, Endura's Ultimate Compatible Astragal the Trilennium™ creates a high security, high performance astragal system. Together, these products have been tested and achieved DP (design pressure) ratings of 50 or higher.

- **Integrated triple strike plates** to receive the 3 multi-point latches of the Trilennium Multi-Point Lock.
- **Flip Lever Standard**
- **Can be cut down up to 10"**

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.

Ultimate Astragal 6/8 Inswing					**Hurricane**		**Flip-Lever Upgrade**	
Manufacturer/Brand	**Panel Type**	**Glass Type**	**Water**	**Structural**	**Water**	**Structural**	**Water**	**Structural**
JELD-WEN® Design Pro®	Fiberglass	Insert	DP20	Pend.	DP20	DP35	DP20	DP+30/-35
JELD-WEN® Energy Saver®	Steel	Insert	DP30	DP25	DP30	DP40	DP30	DP40
Masonite® Bellville® Smooth	Fiberglass	Flush	DP25	DP35	DP25	DP50	DP25	DP+45/-50
Masonite® Bellville® Smooth	Fiberglass	Insert	DP15	DP+30/-25	DP15	DP+40/-45	DP15	DP+30/-35
Masonite® Masonite® HD	Steel	Insert	DP30	DP20	DP30	Pend.	DP30	DP+40/-45
Plastpro® Select Fiberglass	Fiberglass	Flush	DP25	DP30	DP25	DP40/-45	DP25	DP+45/-50
Plastpro® Select Fiberglass	Fiberglass	Insert	DP20	DP25	DP20	DP35	DP20	DP40
Therma-Tru® Fiber-Classic®	Fiberglass	Flush	DP25	Pend.	DP25	DP+40/-45	DP25	Pend.

Ultimate Astragal 8/0 Inswing					**Hurricane**		**Flip-Lever Upgrade**	
Manufacturer/Brand	**Panel Type**	**Glass Type**	**Water**	**Structural**	**Water**	**Structural**	**Water**	**Structural**
JELD-WEN® Design Pro®	Fiberglass	Insert	LWO	DP+25/-20	LWO	DP40	LWO	DP+40/-45
JELD-WEN® Energy Saver®	Steel	Insert	DP25	DP20	DP25	DP+25/-30	DP25	DP+35/-40
Masonite® Bellville® Smooth	Fiberglass	Flush	DP25	DP+25/-20	DP25	DP35	DP25	DP+40/-45
Masonite® Bellville® Smooth	Fiberglass	Insert	LWO	DP+25/-20	LWO	DP+30/-35	LWO	DP+25/-30
Masonite® Masonite® HD	Steel	Insert	DP35	DP20	DP35	DP+20/-25	DP35	DP+25/-30
Plastpro® Select Fiberglass	Fiberglass	Flush	LWO	DP20	LWO	DP+35/-40	LWO	DP+30/-35
Plastpro® Select Fiberglass	Fiberglass	Insert	DP20	DP20	DP20	DP+40/-45	DP20	DP+40/-45
Therma-Tru® Fiber-Classic®	Fiberglass	Flush	DP20	DP+25/-20	DP20	DP+40/-45	DP20	DP+35/-40

Other Testing

In addition to certified testing, the Ultimate Astragal and Flip-Lever Upgrade 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).

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

Endura™
PERFORMANCE STANDARD

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Rev. 1.19.15 Form# UAFamBro-15

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