

ASTRAGALS POWERED BY ENDURA®

FRENCH DOOR SOLUTIONS

THE ULTIMATE ASTRAGAL PRODUCT LINE

The Ultimate Astragal Family delivers proven performance for your French door system. Designed to work in the real world, our astragals address the unique needs of every application while providing easy operation, enhanced sealing and security, and eliminate common French door problems better than every other solution on the market.



STOP FEARING FRENCH DOORS

PROTECT WITH ULTIMATE ASTRAGAL SOLUTIONS POWERED BY ENDURA™



PUT AN END TO TYPICAL FRENCH DOOR PROBLEMS, HASSLES AND HEADACHES WITH **ENDURA'S ULTIMATE ASTRAGAL SOLUTIONS.**

Each solution within our Ultimate Astragal Product Line:

- Supports an easier, more forgiving installation process, even in imperfect conditions;
- Uses patented systems to fight deflection and air and water infiltration, even as conditions change over time;
- Delivers unmatched security and protection for enhanced peace of mind;
- Provides easy operation and consistent, error-free use over time;
- Solves problems specific to your needs.

WHAT DOES THAT MEAN FOR YOU?

Whether you need to adhere to a tight budget without compromising performance, meet strict codes for performance in high-velocity wind zones, provide Enhanced Accessibility, or deliver the protection and peace of mind that only a multi-point lock can provide - we have a high-performing, easy-to-use astragal solution for you.

ONE PORTFOLIO TO END ALL FRENCH DOOR PROBLEMS.

Our expansive portfolio of French door solutions includes seven astragals, covering a wide range of performance and protection needs. Offered in three core operating styles, French door solutions Powered By Endura never stop working for you.



EASY FLIP OPERATION

1. ULTIMATE FLIP LEVER™ ASTRAGAL
Enhanced performance and accessibility with effortless one-flip operation.

EASY FLIP OPERATION + MULTI-POINT LOCKING

2. ULTIMATE MULTI-POINT ASTRAGAL
Multi-point locking and enhanced sealing without the multi-point price tag.

3. ULTIMATE TRILENNIUM® ASTRAGAL
Unmatched security to complement the Trilennium Multi-Point Locking System.



DUAL PUSH BUTTON OPERATION

4. ULTIMATE PUSH BUTTON ASTRAGAL
Added features combine with easy operation and enhanced performance.

5. ULTIMATE HURRICANE ASTRAGAL
Hurricane-rated performance for high-velocity wind zones.



SIMPLE SLIDE OPERATION

6. ULTIMATE LITE ASTRAGAL
Uncompromised performance in a light and cost-effective design.

7. ULTIMATE SLIDE BOLT ASTRAGAL
Lasting performance and strength in a clean and simple design.

ULTIMATE FLIP LEVER™ ASTRAGAL

EFFORTLESS OPERATION. ULTIMATE PERFORMANCE.

Endura's Ultimate Flip Lever Astragal delivers superior sealing power and security combined with effortless operation. One flip is all you need to secure your inactive door and keep leaks at bay.

- ▶ **Effortless One-Flip Operation. Enhanced Accessibility:** A single flip of the built-in lever activates both bolts and secures the door. No reaching or bending necessary.
- ▶ **Ultimate Security:** When each of the astragal's bolts are engaged, the inactive door is secured in place. No extra locking steps necessary.
- ▶ **Extended Sealing Power:** Spring-loaded Floating Boot, Simple Solution® Corner Pad and weatherstrip get an added boost with a full-length Sealing Fin for an extra layer of protection against air and water infiltration.
- ▶ **4-Way Adjustable Strike Retainer**

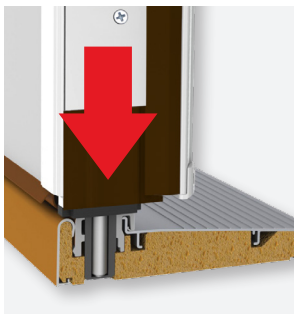


FLIP LEVER: HOW DOES IT WORK?



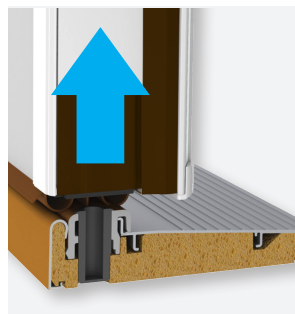
FLIP LEVER DOWN.

A single flip of the lever activates both the bolts in one effortless motion. The Spring-loaded Floating Boot securely seals, independently of the bolt, against the sill fighting air and water infiltration, even in imperfect conditions.



FLIP LEVER UP.

Raising the Flip Lever retracts both the bolts. The Spring-loaded Floating Boot lifts clear of the sill preventing wear and damage for problem-free use of the inactive door.



MULTI-POINT ASTRAGAL (MPA)

MULTI-POINT SEALING WITHOUT MULTI-POINT PRICE TAG.



Endura's Ultimate Multi-Point Astragal combines all the features of the Ultimate Flip Lever™ Astragal with the added benefit of multi-point locking built right into the astragal.

- ▶ **Multi-Point Performance:** With two additional locking points built into the astragal, MPA provides multi-point performance without requiring the added purchase of a multi-point lock, delivering exceptional value and savings.
- ▶ **Works with Standard Deadbolt Packages:** No special hardware required.
- ▶ **Fights Deflection:** Typical French door installations only hold the door panels together at one point: the deadbolt. This permits door panel deflection, and air and water infiltration. MPA's two additional locking points, prevent deflection and resulting leaks.
- ▶ **Same Sealing Features... and More:** MPA boasts the same weathersealing features as the Flip Lever Astragal, with the Spring-loaded Floating Boot, Simple Solution® Corner Pad, weatherstrip and full-length Sealing Fin, plus the added performance of two additional locking points to fight leaks at every possible source.
- ▶ **Same One-Flip Operation:** No more reaching or bending.
- ▶ **Same 4-Way Adjustable Strike Retainer**

ULTIMATE TRILENNIUM® ASTRAGAL

INCREASED SECURITY. UNMATCHED TRILENNIUM LOCK STRENGTH.



Built to complement the unmatched strength of the Trilennium Multi-Point Lock, the Ultimate Trilennium Astragal delivers ultimate French door security and protection.

- ▶ **Unmatched Multi-Point Security:** The Ultimate Trilennium Astragal works with the Trilennium Multi-Point Locking System's solid I-beam construction and three full deadbolts to deliver a high security system that cannot be matched.
- ▶ **Fights Deflection at All Times:** Trilennium bolts pre-engage even when the door is unlocked fighting deflection at all times. Once locked, bolts work with the astragal's unique strike plates to pull both doors into perfect alignment.
- ▶ **Superior Sealing:** Boasts the same weathersealing features as the Ultimate Flip Lever Astragal, with the Spring-loaded Floating Boot, Simple Solution Corner Pad, weatherstrip and full-length Sealing Fin, working with added locking points to fight leaks from top to bottom.
- ▶ **Same One-Flip Operation:** No more reaching or bending.
- ▶ **Works with Trilennium Compatible Hardware**
- ▶ **Same 4-Way Adjustable Strike Retainer**

ULTIMATE PUSH BUTTON ASTRAGAL

DUAL-PUSH OPERATION. ENHANCED PERFORMANCE.

Endura's Ultimate Push Button Astragal delivers enhanced sealing power and added built-in security in a solution that's easier to use, operating with the simple push of a button.

- ▶ **Dual-Push Operation:** Each Spring-loaded Bolt automatically engages with the simple push of a button and conveniently retracts with one easy motion.
- ▶ **Enhanced Standard Security:** Each 24" bolt automatically secures the unit with a push of a button for enhanced security and peace of mind. No extra locking steps necessary.
- ▶ **Extended Sealing Power:** Spring-loaded Floating Boot, Simple Solution® Corner Pad and weatherstrip get an added boost with a full-length Sealing Fin for an extra layer of protection against air and water infiltration.
- ▶ **Easy Hardware Customization:** 4-way adjustable strike retainers feature Snap-n-Size™ functionality and can be easily removed, resized and repositioned without additional cutting tools to accommodate various hardware sizes and styles.

Spring-Loaded Floating Boot

Simple Solution Corner Pad

Lower Push Button Operates Lower Bolt

Lower Finger Grip Retracts Lower Bolt

Dummy Strike Plates with Snap-n-Size Retainers

Upper Finger Grip Retracts Upper Bolt

Upper Push Button Operates Upper Bolt

Auto-Locking 24" Bolt

Double Protection
With Weatherstrip (1) and Sealing Fin (2)

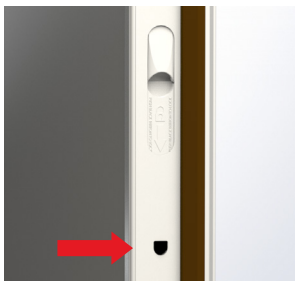
ALUMINUM & WOOD VENEER FINISHES



*Also available in Compatible Options

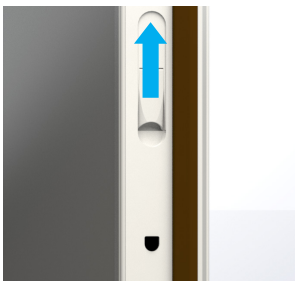
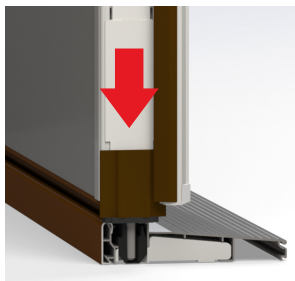
**Non-thermal Only

HOW DOES IT WORK?



PUSH BUTTON TO ENGAGE.

Each Spring-loaded Bolt is activated with an easy push of a button. The Spring-loaded Floating Boot securely seals, independently of the bolt, against the sill fighting air and water infiltration, even in imperfect conditions.

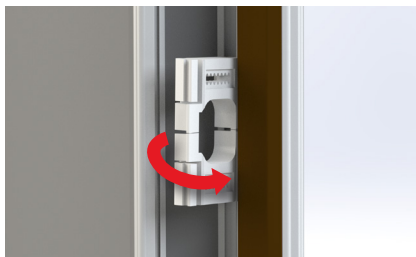


RETRACT WITH ONE EASY MOTION.

Each Spring-loaded Bolt retracts with one easy motion and the Spring-loaded Floating Boot lifts clear of the sill preventing wear and damage for problem-free use of the inactive door.



SNAP-N-SIZE™ STRIKE RETAINERS: HOW DO THEY WORK?



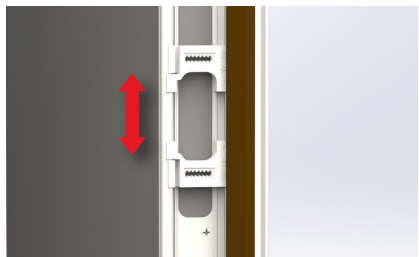
REMOVE.

Innovative strike retainer design allows effortless removal from the astragal. Simply snap out to remove. No extra steps required.



RESIZE.

Built-in break lines allow easy resizing. No tools necessary.



REPLACE & REPOSITION.

Snap the strike retainer pieces into the astragal and position as needed to meet your hardware needs.

ULTIMATE HURRICANE ASTRAGAL

ENHANCED STRENGTH. HURRICANE-RATED PERFORMANCE.



Maintaining the appearance and benefits of the Ultimate Push Button Astragal, the Ultimate Hurricane Astragal provides the additional performance and protection needed in severe weather with its reinforced design and strengthened components.

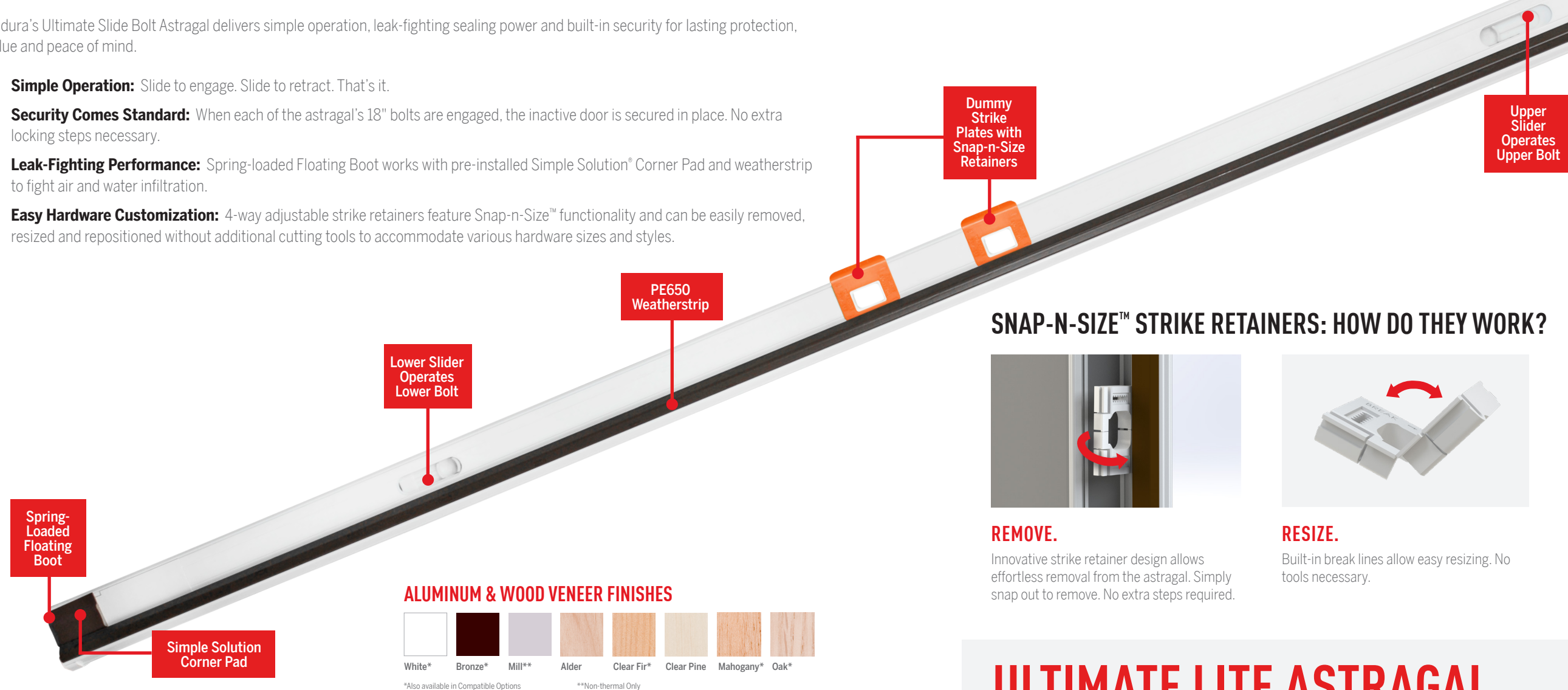
- ▶ **Hurricane-Rated Protection:** Meets structural performance needs in high-velocity wind zones.
- ▶ **24" Glass-filled Nylon Bolts:** For additional strength.
- ▶ **Added Strike Support & Reinforced Installation:** For enhanced strength and protection.
- ▶ **Same Extended Sealing Power:** Spring-loaded Floating Boot, Simple Solution® Corner Pad, weatherstrip, plus Sealing Fin.
- ▶ **Same Dual-Push Operation:** And easy one-motion retraction.
- ▶ **4-Way Adjustable Strike Retainer:** Snap-n-Size functionality not available in Hurricane.

ULTIMATE SLIDE BOLT ASTRAGAL

SIMPLE OPERATION. LASTING PERFORMANCE.

Endura's Ultimate Slide Bolt Astragal delivers simple operation, leak-fighting sealing power and built-in security for lasting protection, value and peace of mind.

- ▶ **Simple Operation:** Slide to engage. Slide to retract. That's it.
- ▶ **Security Comes Standard:** When each of the astragal's 18" bolts are engaged, the inactive door is secured in place. No extra locking steps necessary.
- ▶ **Leak-Fighting Performance:** Spring-loaded Floating Boot works with pre-installed Simple Solution® Corner Pad and weatherstrip to fight air and water infiltration.
- ▶ **Easy Hardware Customization:** 4-way adjustable strike retainers feature Snap-n-Size™ functionality and can be easily removed, resized and repositioned without additional cutting tools to accommodate various hardware sizes and styles.

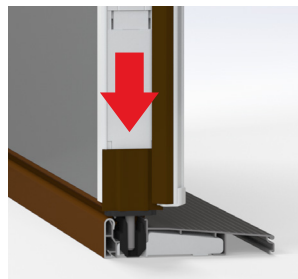


HOW DOES IT WORK?



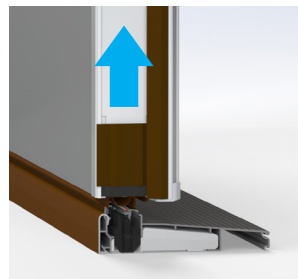
SLIDE TO ENGAGE.

Each bolt engages with a simple sliding action. Spring-loaded Floating Boot seals, independently from the bolt, against the sill to fight air and water infiltration even in imperfect conditions.

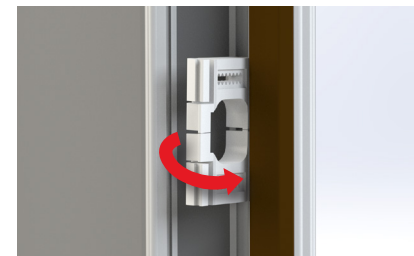


SLIDE TO RETRACT.

Each bolt retracts with a simple sliding action. Spring-loaded Floating Boot lifts clear of the sill preventing wear and damage, allowing problem-free use of the inactive door.



SNAP-N-SIZE™ STRIKE RETAINERS: HOW DO THEY WORK?



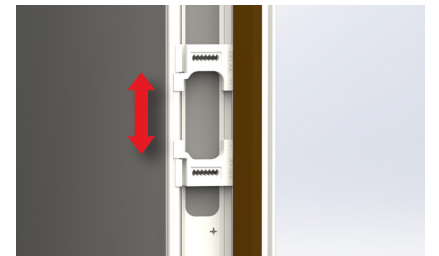
REMOVE.

Innovative strike retainer design allows effortless removal from the astragal. Simply snap out to remove. No extra steps required.



RESIZE.

Built-in break lines allow easy resizing. No tools necessary.



REPLACE & REPOSITION.

Snap the strike retainer pieces into the astragal and position as needed to meet your hardware needs.

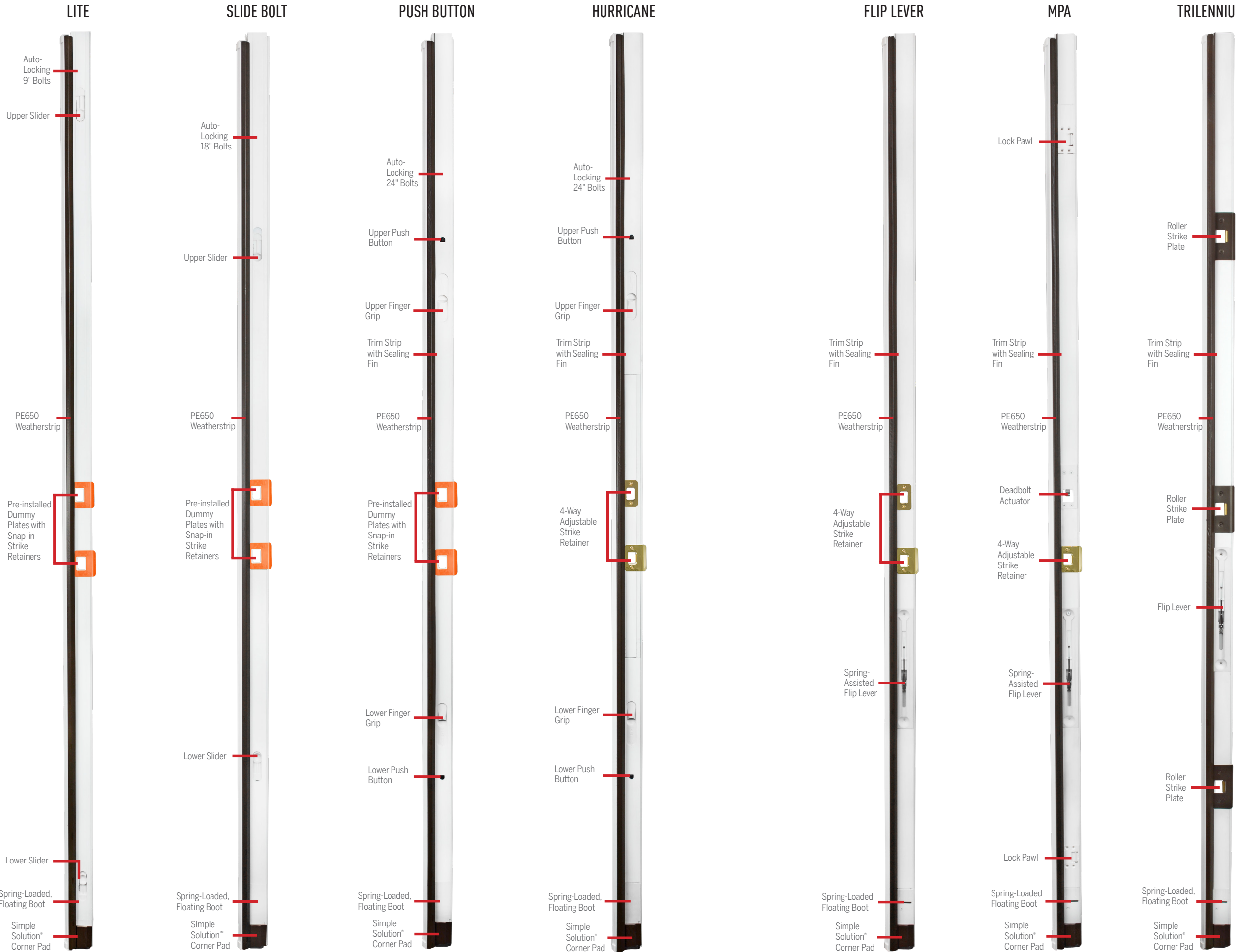
ULTIMATE LITE ASTRAGAL

SHORTER BOLT. UNCOMPROMISED PERFORMANCE.



Keep costs in check without compromising on performance with Endura's Ultimate Lite Astragal. The Ultimate Lite Astragal delivers the same benefits of the Ultimate Slide Bolt Astragal with a shorter 9" bolt.

- ▶ **Shorter 9" Bolt:** For increased cost efficiency.
- ▶ **Same Simple Sliding Bolt Operation:** Slide to engage. Slide to retract.
- ▶ **Same Sealing Performance:** Spring-loaded Floating Boot, Simple Solution® Corner Pad and weatherstrip come standard.
- ▶ **Same Auto-Locking Bolt Feature:** 9" bolt automatically locks for security and peace of mind.
- ▶ **Same Hardware Customization:** With 4-way adjustable Snap-n-Size™ strike retainers.



SPECIFICATIONS OVERVIEW							
FEATURES							
	LITE	SLIDE BOLT	PUSH BUTTON	HURRICANE	FLIP LEVER	MPA	TRILENNIUM®
SPRING-LOADED, INDEPENDENTLY-SEALING FLOATING BOOT	✓	✓	✓	✓	✓	✓	✓
SIMPLE SOLUTION® CORNER PAD	✓	✓	✓	✓	✓	✓	✓
PE650 WEATHERSTRIP	✓	✓	✓	✓	✓	✓	✓
FULL-LENGTH SEALING FIN	✗	✗	✓	✓	✓	✓	✓
4-WAY ADJUSTABLE STRIKE RETAINER	✓	✓	✓	✓	✓	✓	✓
SNAP-N-SIZE™ FEATURE ON STRIKE RETAINER	✓	✓	✓	✗	✗	✗	✗
REPLACEABLE DUMMY PLATES	✓	✓	✓	✗	✗	✗	✗
STRONGER BOLTS & REINFORCED CONSTRUCTION	✗	✗	✗	✓	✗	✗	✗
BOLT ENGAGEMENT	Slide Bolt	Slide Bolt	Push Button	Push Button	Flip Lever	Flip Lever	Flip Lever
AUTO-LOCKING FEATURE ON BOLTS	✓	✓	✓	✓	✓	✓	✓
MULTI-POINT LOCKING	✗	✗	✗	✗	✗	✓	✓ ⁺
AVAILABILITY & OPTIONS							
THERMAL & NON-THERMAL BODIES	✓	✓	✓	✓	✓	✓	✓
COMPATIBILITY WITH 7/8" SPACING, 1-11/16" DOOR PANELS	✓	✓	✓	✓	✓	✓	✓
LEFT & RIGHT HAND POSITIONING	✓	✓	✓	✓	✓	✓	✓
AVAILABLE FOR 6/8, 7/0 & 8/0 PANELS	✓	✓	✓	✓	✓	✓	✓
OPTIONAL SECURITY FLANGE FOR OUTSWING APPLICATIONS	✓	✓	✓	✓	✓	✓	✓
REVERSIBILITY OPTION	✗	✓	✓	✓	✗	✗	✗
MAXIMUM CUT DOWN LENGTH	7"	5"	7"	7"	7"	7"	7"

✓ Available

✗ Not Available

+ Lock Sold Separately

White*

Bronze*

Mill**

Alder

Clear Fir*

Clear Pine

Mahogany*

Oak*

*Also available in Compatible Options

**Non-thermal Only



TESTED FOR ULTIMATE PERFORMANCE.

Testing at Endura goes beyond the basic industry requirements. Our tests are inspired by real-world conditions and ensure that our products are up for the challenge while outperforming all others.

- Certified Air Infiltration Testing
- Certified Water Testing
- Certified Structural Testing
- Flip Lever/MPA Cycle Testing
- Salt Spray Resistance Testing

WOOD VENEER ASTRAGALS

Get the aesthetic appeal of real wood with wood veneer finishes for astragals Powered By Endura®. Complemented by bronze end caps, wood veneer wrapped astragals are ready to stain or finish to match specific preferences.

INTUITIVE CUT DOWN AND ADJUSTMENT

French doors come in many sizes. Whether it's a first-time installation at a new construction or a replacement, you need an astragal system that suits every application. Astragals Powered By Endura can be cut down by at least 5" on all (and up to 7" on most) astragals based on original length. Reduce SKUs and broaden the range of sizes you can offer. It's simple.

WOOD VENEER FINISH OPTIONS:

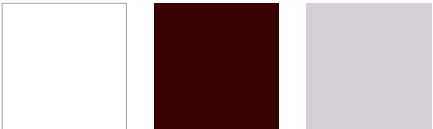


Alder Clear Fir* Clear Pine



Mahogany* Oak*

ALSO AVAILABLE IN ALUMINUM:



White* Bronze* Mill**

*Also available in Compatible Options
**Non-thermal Only