Technical Bulletin: Ultimate Astragal™ Floating Boot Update

Effective immediately, Endura Products has implemented a change to the entire family of Ultimate Astragals. Specifically, the patented Floating Boot has been redesigned to deliver enhanced sealing power and better account for real-world, imperfect installations and conditions.

Overview of Revisions

In the previous design, a thin pad and the corner pad were used to form a seal with the cap, relying on correct installation of two sealing surfaces. This design was less forgiving—if either the corner pad or bottom pad were installed incorrectly, leaking could occur. Additionally, this design required vertical compression of the corner pad, which can cause deformation of the corner pad skin, leading to leaks.

With the new design, a thicker bottom pad is used as the only sealing surface against the cap, with the newly redesigned Simple Solution™ Corner Pad (see below) installed on top of the pad. This creates a continuous, single sealing surface, which is more forgiving in real world conditions, relying on the installation of one component as opposed to two.

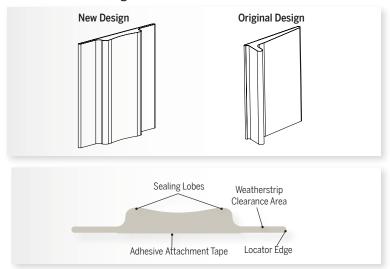
Redesigned Bottom Pad

Understanding that the real world is not perfect and that proper installation is not a guarantee, the thicker and softer bottom pad design enables the pad to better mold against the shape of the cap while allowing for more variance in vertical margins, ensuring a tighter seal in a wider range of conditions, including installations with the Z-Articulating Cap Sill™. In these installations, the pad accounts for articulation of the cap, up or down, maintaining a consistent seal for the cap's full range of motion.

Redesigned Simple Solution™ Corner Pad

The Simple Solution® Corner Pad has been redesigned to offer enhanced protection against air and water leaks. The new symmetrical square design is easier to install, featuring locator edges as well as a weatherstip

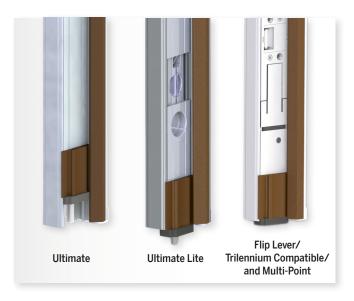
New Corner Pad Design



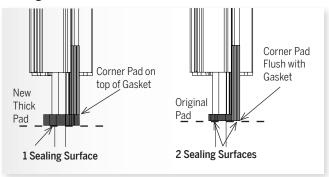
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US Patents: 6,219,971; 5,857,291; 6,491,326; 8,157,298; 8,157,299; D571,932; and US Patents Pending. Canadian Patents: 2,342,941; 2,693,833 and

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Redesigned Bottom Pad



New Bottom Pad Interaction With Cap



Thicker bottom pad molds to fit shape of the Z-Articulating Cap, forming a tight, continuous seal.



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clearance area for easy placement.

The new corner pad shape works with the weatherstrip to create a larger channel/space between the weatherstrip and corner pad, reducing upward water pressure and counteracting water infiltration through the weatherstrip channel.

Additionally, the new design is thicker, featuring dual sealing lobes for enhanced sealing power, even in door units with wider margins.

This product redesign will be effective for all Endura components. The new Ultimate Astragal™ has been designed to work exclusively with the new corner pad. Older versions will not work with the astragal. More information about the new corner pad design will be distributed.

Redesigned Bottom Trim Cap

The bottom trim cap has been redesigned to incorporate Weatherstrip Locators which help to ensure proper placement of the weatherstrip while plugging the base of the weatherstrip channel to better fight against upward water travel and prevent leaks.

The new bottom trim cap also includes slots that are designed specifically to allow the new Simple Solution™ Corner Pad shape to easily and smoothly pass through, up or down, while the astragal is in use.

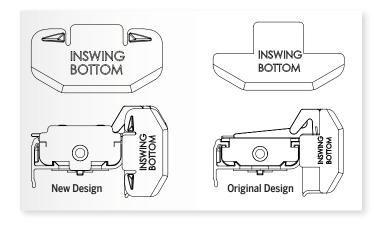
Products Affected

The updated Floating Boot design will be effective for all Endura astragals. This includes: Ultimate Astragal™, Ultimate Astragal™, Ultimate Veneer Astragal™, Ultimate Hurricane Astragal™, Ultimate Multi-Point Astragal™, Ultimate Compatible Astragal™ and Trilennium Compatible Astragal™.

New Corner Pad Design



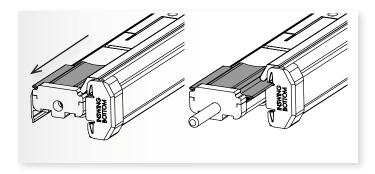
Bottom Trim Caps



Weatherstrip Locator



Corner Pad Clearance Slots



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