

2D CONCEALED *Hydraulic Concealed Closer*



Customer Tested & Approved

- Two-dimensional adjustment ability, quick installation and easy adjustment.
 - Concealed non-handed system allows for universal applications.
 - Smooth hydraulic closing and hold open capabilities.
 - Precise adjustability.

01 Product Features

- The 2D concealed hydraulic hinge is non-handed and has a **maximum** opening of 170 °
- Hydraulic self-closing system
- Door or leaf can be adjusted up and down, and left and right, in **two** dimensions.
- Adjustable closing speed
- Exceeds load testing of 300,000 cycles
- Heavy duty castings demonstrate superior load-bearing strength, withstanding a load of **790 lbs** while maintaining normal operation.
- 5-Year Warranty
- Patent #10633905

Note: **Hold Open is Standard, non-Hold Open is unavailable**



**790 lbs (360 kg)
Load-Bearing Test**



**300,000 Cycles
Durability Test**

02 Product Functions

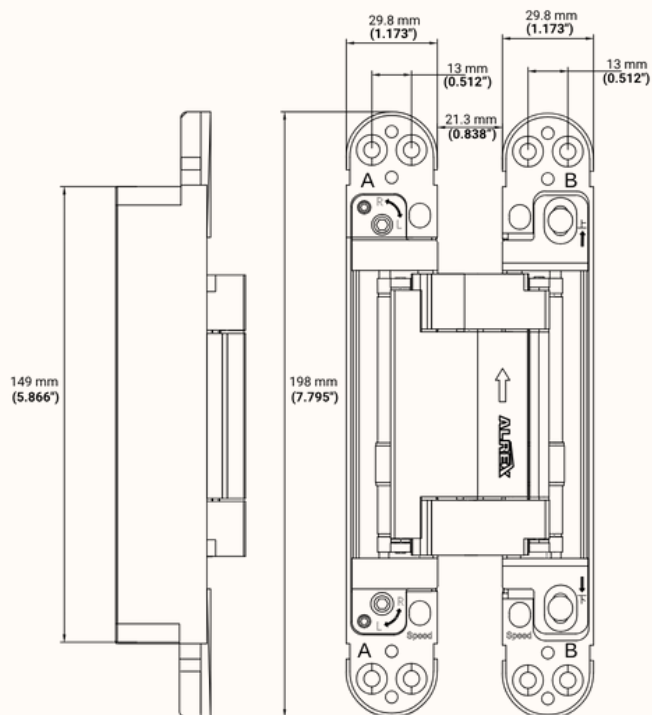
- ■ ■ Universal Installation (non-handed)
- ■ ■ Adjustment (vertical and horizontal)
- ■ ■ Hydraulic Closing System
- ■ ■ Adjustable Closing Speed
- ■ ■ Door stays open anywhere past 85°

03 Application Range

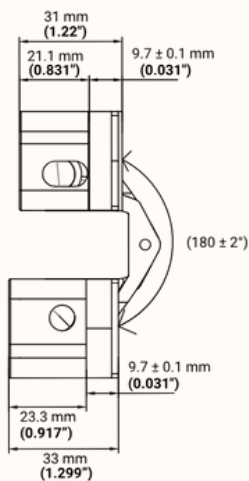
- ■ ■ Load Capacity: 88 lbs (40kg) per hinge
- ■ ■ Suitable for wood, aluminum, and hollow metal doors. The number of hinges required depends on the door's weight and size

Door Weight	Door Size	Hinge Qty (pc)
Up to 176 lbs	Up to 2'8" x 7'0" Up to 3'0 x 7'6"	2 Closer Hinges / 1 Free Swing Hinge
Up to 220 lbs	Up to 3'6" x 7'6" Up to 3'6" x 9'0"	3 Closer Hinges 3 Closer Hinges / 1 Free Swing Hinge

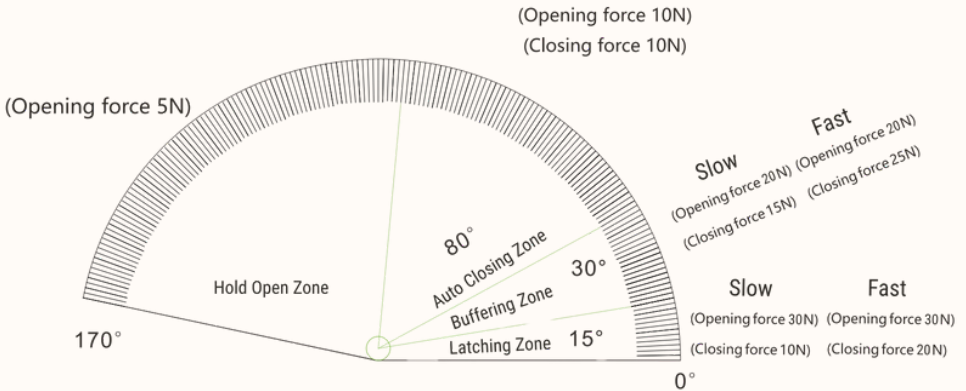
04 Product Dimensions



±0.011"



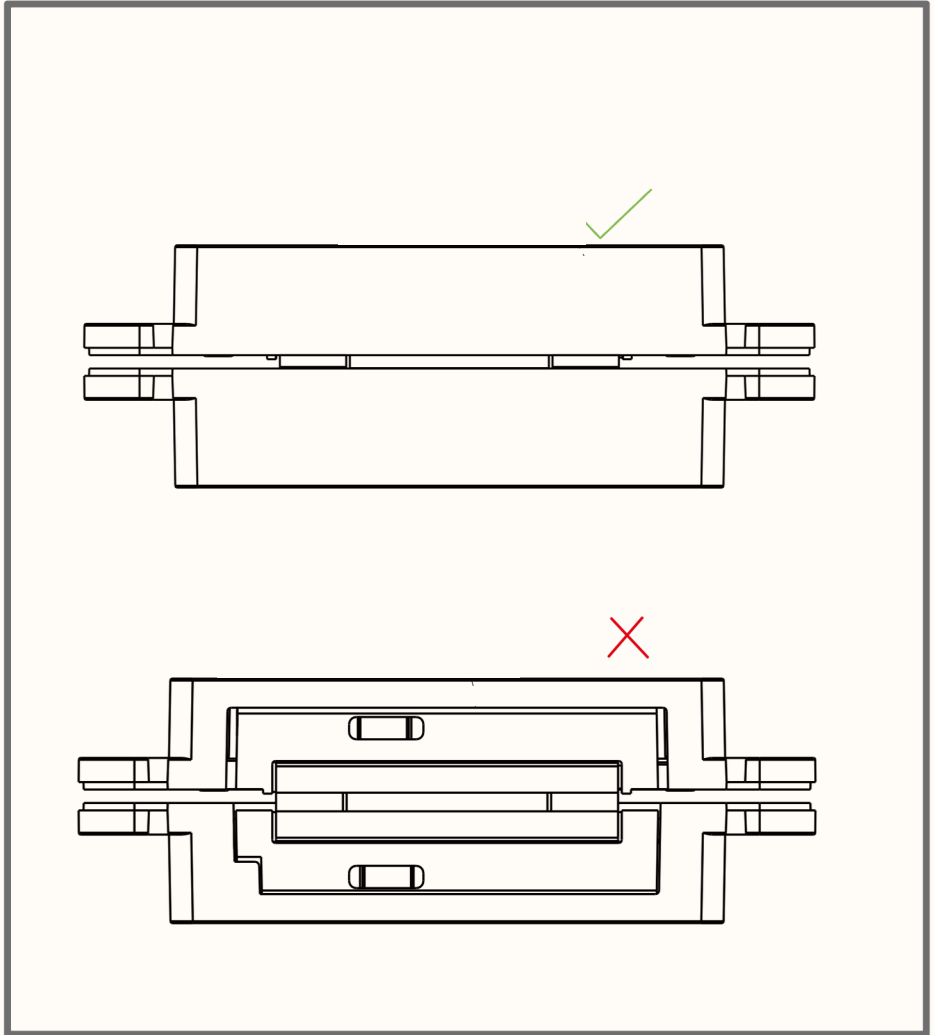
05 Technical Specifications

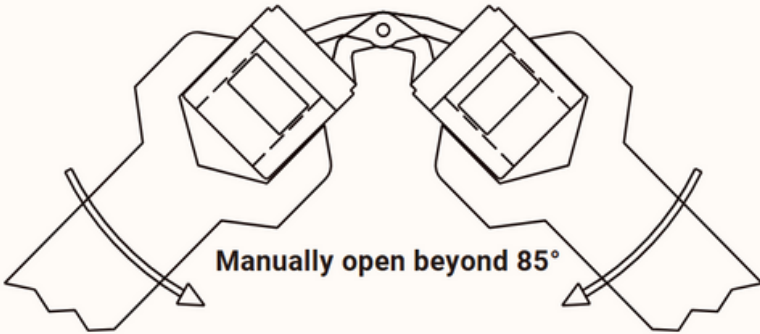
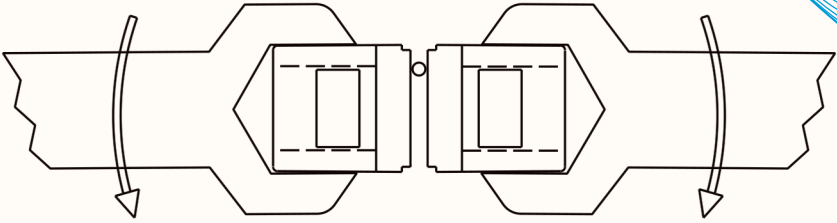


1. Non-Handed product. Maximum opening of 170°
2. Hold Open at 80° to 170°
3. Automatic door closing at 85° to 0°
4. External adjustment of closing speed. Ability to adjust buffering speed and latching speed, allowing for soft or fast closures (depending on your application and preference).

06 Opening the Hinge

The 2D Hydraulic Concealed Hinge operates freely between 85° and 180°, making installation simple. If it is accidentally closed to 0°, an external tool can be used to reopen the hinge.

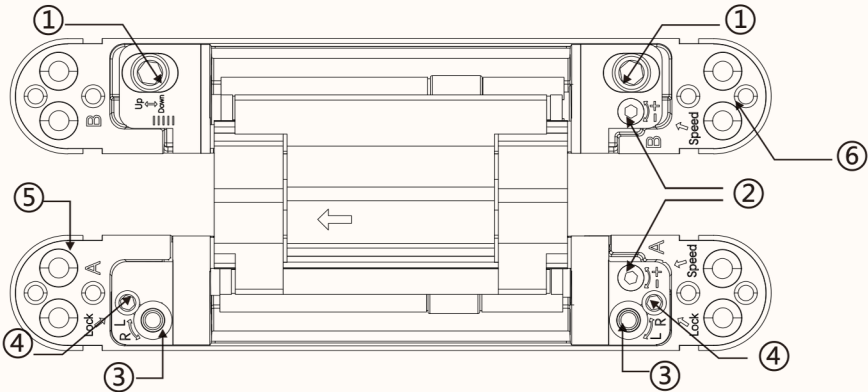




Manually open beyond 85°

08 Door Gap Adjustment

- ① Up/Down adjustment screw
- ② Speed adjustment screw
- ③ Left/Right adjustment screw
- ④ Left/Right adjustment locking screw
- ⑤ Door leaf wood screw attaching hole
- ⑥ Decorative cover attaching hole



- IF NEEDED: Adjust the upper and lower door gaps of the door leaf $\pm 2.5\text{mm}$ (0.098")
 - Loosen the upper and lower screw ①; Loosen the locking screw ④; Move the door leaf up and down to the appropriate position, then lock the door leaf upper and lower screw ①. Lastly, tighten down the locking screw ④ to lock the position.
- IF NEEDED: Adjust the left and right door gaps of the door leaf $\pm 2\text{mm}$ (0.079"). Loosen screws ⑤ then adjust screws ③. During the adjustment process, adjust the screws ③ the same amount to ensure heights of both ends are adjusted as consistently as possible.

9 Accessories Overview

After making adjustments, open and close the door several times to verify door alignment. Finally, insert the decorative covers.

*Note: Ensure the decorative covers are installed in the correct positions: A, B, and C.



A. Decorative cover X2



B. Decorative cover X2



4mm Allen key X1



3mm Allen key X1




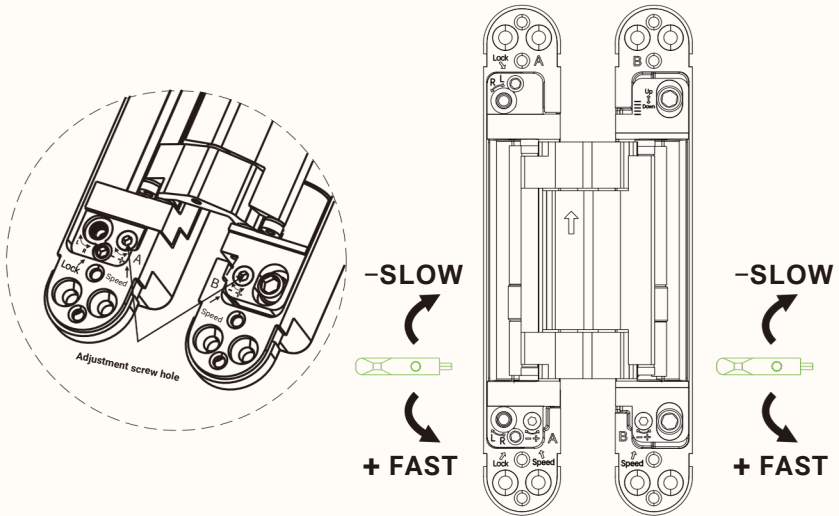
5X30 self-tapping screws X8

Note: All hinges must be adjusted evenly. Improper or uneven adjustment can compromise the door's sealing performance and may lead to operational issues.

10 Speed Adjustment

Speed Adjustment Instructions

 Insert the hex key into the adjustment hole, then gently press in and turn the speed control screw to adjust the closing speed.



Note: During adjustment, if there is a noticeable torque change (e.g., internal gear engagement noise), stop twisting immediately. This indicates the adjustment limit has been reached. Continuing to adjust may damage the mechanism.

