

EasAlign™ Installation Instructions



Tools Needed—Cordless Drill(1500RPM), Invis® Mini-Mag™, T-handle driver, EasAlign fixture, 12mm drill bit, 2-#8 X 1-3/4" square drive wood screws, square drive bit, Invis elements, 12mm X 1" wood dowels, wood glue.

1. The quality and accuracy of the end cuts determine the quality of the joinery. The ends of the 2 work pieces must be cut perpendicular. Double-check the accuracy of your saw. Make sure the blade is square to the fence and to the table. Also check to see that there is no wobble in the blade. Any misalignment of your saw will affect the quality of the joint. Dry-fit the 2 work pieces together to confirm the quality of the cuts.
2. Always insert the "active" Invis element in the straight work piece.
3. Clamp the straight work piece securely, using squeeze clamps.
4. Slide the EasAlign fixture over the end of the work piece and secure it with the #8 wood screws. Confirm that the fixture is drawn up tight with the cut surface. There should be no gap between the end of the work piece and the fixture.
5. Using the 12mm bushings in top and bottom holes, drill holes for the element and the wood stabilizer. The top hole needs to be 1-3/4" deep for the "active" element and 1-1/2" for the "passive" element. The bottom hole should be 1-1/4" deep to accommodate the wood stabilizing dowel.
6. Clear both holes of sawdust.
7. Remove the top bushing.
8. Use the patent-pending T-handle to drive the element into the work piece. Insert the element into the sleeve of the T-handle. Insert the T-handle in the hole that the bushing was removed from. Push firmly to engage the threads into the wood as you begin to screw the element into the work piece. Watch the top of the sleeve. Once it comes in contact with the shoulder of the handle, the element has been substantially installed. Each T-handle is slightly different and experience will tell you if you need another 1/4 to 1/2 turn of the T-handle to ensure the element is just past flush. Remove the T-handle. Remove the EasAlign fixture from the work piece.
9. Verify that the element is slightly below flush. Remove any wood burrs.
10. Dry-fit the wood stabilizing dowel.



KIT CONTENTS

- Hard Polycarbonate Case
- 5 EasAlign Tools
- Actuator
- 2 Bushings
- 30 Invis Active Elements
- 30 Invis Passive Elements
- 30 Wood Stabilizer Dowels
- Screws
- T-Handle Driver/Torque Wrench
- 12 mm Drill Bit
- 2 Wrench Bits

11. Repeat steps 3 through 8 for the other work piece.
12. Dry-fit the 2 pieces together. Hold them securely while activating the element. To fasten the elements, chuck the Invis Mini-Mag into your drill and put the drill in reverse. Lay the Mini-Mag on the straight rail, directly over the "active" element (The drill should be "pointing" at the joint.). Turn the drill on, high speed, and hold it down on the straight piece so that that the Mini-Mag does not spin. You should hear the element spin and notice the joint closing. Move the drill back and forth about 1-1/2" over the area for a few seconds. At this point the connection is complete. To undo the connection, put the drill in "forward", place the Mini-Mag over the "active" element with the drill pointed toward the connection and spin the drill at full speed for 5 seconds. The connection should pull apart.
13. Glue is recommended for the permanent connection on the ends of the dowel. It is not necessary to apply glue to the end grain surfaces.

EasAlign is intended for use in over-the-post installations, connecting straight rail to fittings. EasAlign can be used to join curved balcony rail provided the radius is 10' or greater. EasAlign will not work on ascending curved rail. Currently, there is no application for EasAlign in post-to-post systems.

EasAlign™

Invis® is a registered trademark of Lamello AG, Switzerland.
MiniMag™ is a trademark of Invis (NA), Inc.
Patent protection applies under Pat No. US 6,499,907 / US 6,765,330, the Geneva Convention and other international patent laws.



Old way

EasAlign way

Crown
Heritage