Mataverde® EUROTEC® Deck System – Installation Guidelines

Planning your Mataverde EUROTEC Deck System project

Before you start construction of your project, it is imperative to plan for a safe and successful installation. If you are constructing a deck over a concrete patio, this would include properly inspecting the suitability of the concrete pad for a pedestal deck.

If you are considering a rooftop or balcony deck system, this would include having an inspection by a registered architect or professional engineer to determine the suitability of your existing rooftop structure. Additionally, if a building permit is required for your project, you must check with your local building inspector for local loading requirements and any other applicable building code rules and regulations.

Make sure you take accurate measurements including; the length of the deck in the direction you will be running your joists, the length of the deck perpendicular to the joist direction, the joist spacing and finally the height from the top of your roof (or patio) to the top of the decking. It is also very helpful to know which thickness and wood decking species you plan to use. The Mataverde Eurotec Quotation/Estimate Form is a very helpful tool to use to ensure you include all the necessary information for proper project planning. Click here to download the Mataverde Eurotec Quotation/Estimate Form.

Ordering, Receiving and Preparing the Right Materials

We love happy, satisfied customers. They make us happy, too. We have developed some helpful tools to guide you along the way. To minimize any surprises, delays, shortages and potential frustrations when you are ready to build your deck, we have developed a checklist to help you prepare for a successful project. The Mataverde Success Plan is a great tool to make sure you are properly prepared to build an awesome project that you can be proud of and enjoy for many years to come.

The Mataverde Success Plan shares information about the proper quantity, quality, size and use of materials, receiving your delivery, proper wood acclimation and much more. Please download the Mataverde Success Plan here.

Getting Started with Construction of your Mataverde Eurotec Deck

Making sure the area underneath the deck (whether it is a roof, balcony or patio, is your responsibility and is essential for short term and long term performance. ***After*** you have received any permits (if required), and have had the surface area where the deck will be assembled inspected by a licensed architect or engineer for structural soundness and suitability, you should be ready to start the actual deck assembly.

Mataverde® EUROTEC® DECK SYSTEM

Lay out Your Eurotec Pedestals

Start by positioning the appropriate Eurotec pedestals in rows with the proper spacing for your project's design. For example, if your deck will be built at 16" on center joist spacing, start by lining the pedestals up at 16" apart. Next, space each pedestal the appropriate distance apart along where the joists will line up. Please refer to the maximum spacing and loading requirements chart for the proper spacing. *(For example, the maximum spacing of pedestals along the Aluminum System Profile (joist) for a 16" O.C. deck designed for 50 pounds per square foot working load is 30".)*

Lay out the Aluminum System Profile (joists)

Once you have placed your Eurotec pedestals in their proper locations, you are ready to "click" the Aluminum System Profile joists into position on the pedestals.

1.) Simply "click" the Aluminum System Profile into place on the Clickfoot pedestals.

2.) Check all of Aluminum System Profile joists for levelness. Adjust the height of the ClickFoot pedestals until the entire framework is set to the proper desired pitch and levelness.

3.) For joist lengths, shorter than 13'-1-1/2", cut your joists to the proper length using an aluminum cutting saw blade.

4.) If the length of your joists is longer than 13'-1-1/2", use an Aluminum System Profile Connector to join additional lengths together. Always place an additional ClickFoot Pedestal under this joint for support.

OPTIONAL:

5.) For an even stronger deck, after your main joists are in place, cut pieces of the Aluminum System Profile into the proper lengths for lateral bracing at appropriate intervals. Fasten the lateral bracing pieces into place using Eurotec Corner Connectors and Bighty screws.

6.) If additional weight or bracing is desired, you can install additional bracing at the corners of your deck and insert concrete pavers for weight. Use corner connectors to create a "shelf" for your concrete pavers and be sure to set the pavers as low as possible to leave adequate ventilation for the decking that will be installed above these pavers.

7.) Double-check your completed frame and make sure everything is squared up and level before installing your decking boards.

Check out the online video for additional Mataverde Eurotec Aluminum System installation information

Installing Your Deck Boards

After you have set up the Eurotec deck framework properly, double-check all fastening and check your framework for levelness and squareness one more time. You are now ready to install your decking boards. The two options for installing the Mataverde Eurotec Deck System are the Profile Screw for visible fastening or the Deck Glider for hidden fastening.

The Eurotec Profile Screw Fastening Method

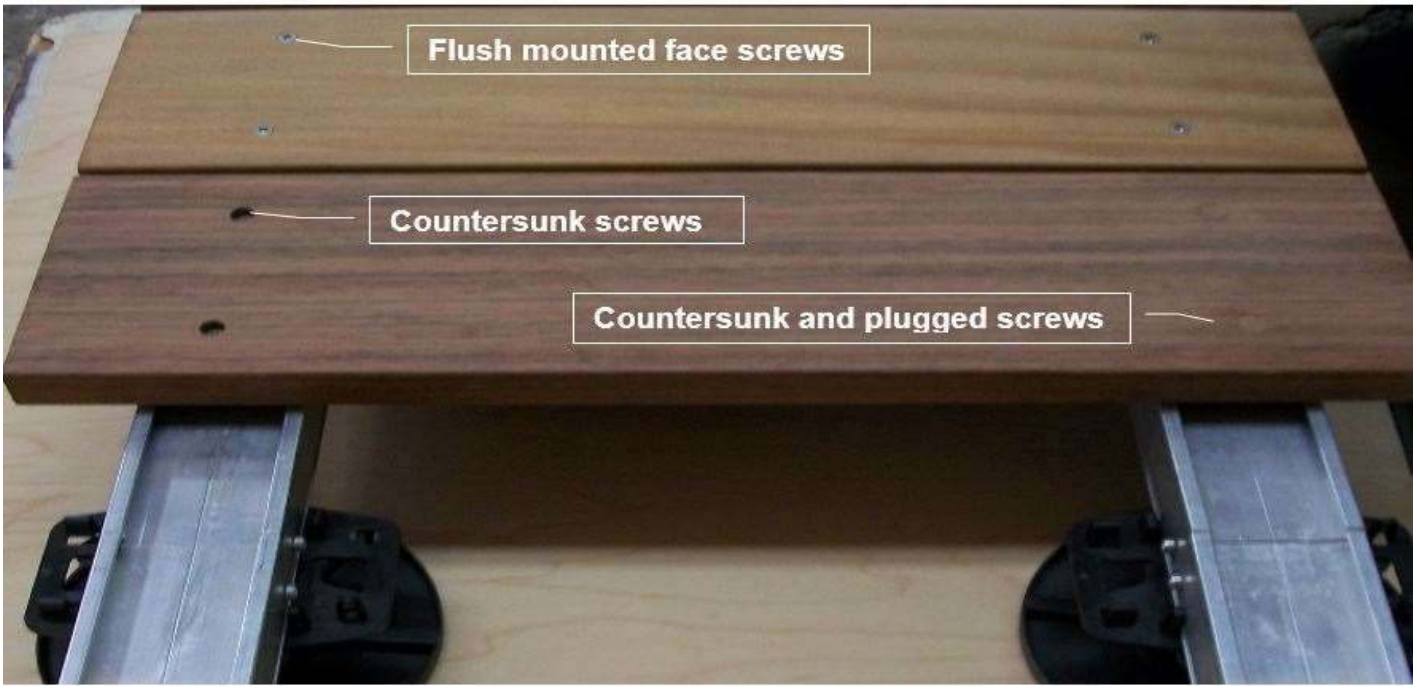
Because of the strength of the holding power of the fastener, perpendicularly screwing a deck board into a joist is the strongest of all decking fastening methods. Additionally, face screwing provides extra strength laterally and increase the overall strength of the entire structure measurably.

The Eurotec Profile Screw is made of stainless steel for longer life span and durability. Two stainless steel screw options are available; #304 for use with all types of decking and #316 for marine environments. When using Mataverde Premium Hardwood Decking species such as Ipe, Cumaru, Garapa or FSC Machiche, the deck boards must be pre-drilled. Then the Eurotec Profile Screw can be used to attach the deck boards to the framing. The drill point allows for direct penetration into the Aluminum System profile joists for exceptionally strong fastening power.

There are two widely used 'tried and true' methods of face screwing hardwood decking to the framework:

Option 1: Standard pre-drilling (for visible flush mounted or slightly recessed screw heads). This method is faster to install than the following option and is often used on high traffic or public decks, walkways and boardwalks.

Option 2: Pre-drilling the deck boards with a countersink drill bit and then plugging the screw heads (for non-visible screw heads). This method, although time consuming, is often the preferred fastening method for artisans and master craftsmen.



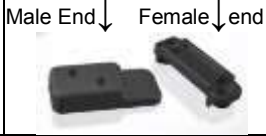
See the on-line Mataverde Eurotec Profile Screw installation video for more information

Mataverde® EUROTEC® DECK SYSTEM

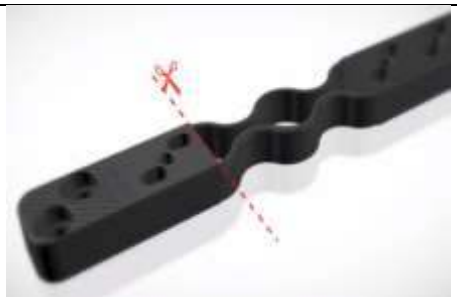
HIDDEN DECK FASTENER METHOD 1

The Mataverde Eurotec Deck Glider Hidden Fastening Method

For a clean and sleek decking appearance, many clients prefer the unencumbered look of hidden fastening. The Mataverde Eurotec Deck Glider fastening method is a great way to achieve this pristine look. Deck Gliders are installed to the bottom of each deck board with the provide screws. Use the Deck Glider for 6” (nominal) deck boards and the Mini Glider for 4” (nominal) deck boards.

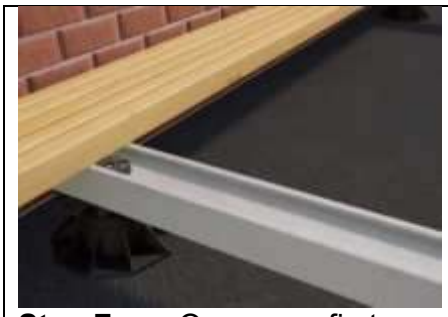
				
Deck Glider	*Mini Glider*	*Glider Starter Clip*	*Starter and End Glider*	*Deck Spacer*

Step One: Start your decking installation by screwing the female end of the Glider Starter Clip onto the Aluminum System Profile. The male end of the Glider Starter Clip is screwed onto your first decking board.



Step Two: Cut off the ‘fastening end’ of a Deck Glider (the one that has two screw holes on the end). This piece will be screwed into bottom of the deck board in the appropriate place to line up with your aluminum joist.

Step Three: Screw the male end of the Glider Starter Clip into the bottom of the deck board and the “cut off” end of the Deck Glider on the other edge of your deck board. (Pre-drilling pilot holes is required.)



Step Four: Once your first deck board is lined up and in place, fasten your first deck board by screwing the exposed edge of the Deck Glider to the Aluminum System Profile into the two screw holes.

Step Five: Now line up your next rows of deck boards and start fastening the Deck Gliders to the bottom of each deck board. Alternate the spacing left and right for each row of deck boards so they will fit into the Aluminum System Profile joist properly.

Step Six: Choose any of the four spacing options available on the Deck Spacer, Flip the board over and slide it into place. The unfastened end will be held in place by the prior row of decking. Fasten the other end of the Deck Glider to the joist.

See the on-line Mataverde Eurotec Deck Glider Hidden Fastener installation video for more information

HIDDEN DECK FASTENER METHOD 2

The Mataverde Eurotec Twin System Holder Hidden Fastening Method

An alternative hidden fastener method is also available - the Eurotec Twin System Holder. The big benefit of this option is that it saves significant labor time and labor cost. This method uses pre-grooved decking boards and the Twin System Holder fasteners are screwed directly into the Aluminum System Profile. Because wood moves as it acclimates, and then seasonally afterwards, we recommend using 5/4x4 pre-grooved decking for best performance. The fastening for this method of installation is faster, easier and more effective than any other hardwood deck fasteners we have ever seen.

Install Your First Deck Board

After your pedestals and aluminum system profiles are in place, start with your first decking board. Because the Twin System Holder only works when you are using it between two boards, you can start your first board by either:

- Pre-drilling the first pre-grooved deck board on the starting edge and fasten with a profile screw, *OR*
- Use the Deck Glider Starter as shown in steps 1, 2 and 3 in the Deck Glider installation steps on the prior page.

Installing the Rest of the Pre-Grooved Decking Boards

Once your first deck board is in place, you are ready to start with the Twin System Holders by twisting these innovative fasteners into place on the Aluminum System Profile.

- Set the fasteners in place loosely into the groove of your first deck board.
- Then, position your next row of decking into place.
- Hold the board tightly in place while fastening. The built-in spacers on the top of the Twin System Holder will automatically set the correct gap between deck boards.
- EXPERT TIP: To hold the deck board tightly into place, use a clamp or Bow Wrench to hold the board tight until it is fastened, especially if you are working alone.
- Now, screw your Twin System Holder into the Aluminum System Profile. Tighten the screw securely, being careful not to overtighten.
- EXPERT TIP: To prevent overtightening, it is helpful to test the proper torque setting of your driver gun first on an area of your Aluminum System Profile that won't interfere with your deck board layout. Don't worry, the test hole you leave behind will serve as a weep hole.
- Repeat the process until you reach your last deck board.

Installing Your Last Deck Board

Just like your first board, you can either:

- Pre-drill and use a face screw on the outer edge, *OR*
- Use the Deck Glider End piece on the outer edge

Wow, that deck looks beautiful! We hope this was helpful. Please contact us for additional information. Thank you.