Matrix Alpha is an extremely versatile and customizable system with multiple configurations. These assembly guidelines are intended to serve as a general guideline only throughout the installation process. Note: dimension indicated in these instructions may vary based on site conditions, specifications, and preferences.

In determining the fence perimeter for Matrix Alpha, minimize curves and complete direction changes in single point corners between 0 degrees and 90 degrees at posts. The system is capable of completing curves of a radius no smaller than 250 linear feet without the use of specific corner components.

These instructions are based on a build with the following specifications:
8 ft Height | 3x6 direct bury posts | 10 ft on center post spacing | Infill installed 1” above grade

POST SETTING
1. Set Post on 10ft centers at designated depth for application (fig 1).
The curtain wall design allows for considerable tolerance and variations of post spacing.
POST BRACKET INSTALLATION

2. Set the centerline of the upper Post Bracket (MAXB36W) at 93 inches from grade on Post (fig 2).

3. Rails should be evenly spaced. Set lower Post Brackets at 44” from centerline to centerline (fig 2).

4. Secure Post brackets by first installing 5/16”-18 x 3-1/2” Carriage Bolt (2-0086) and 5/16” - 18 flange Nut (3-0051) (fig 3).

5. Install #12 Tek Screw (1-0067) into Rail side hole of Post Bracket as shown (fig 3).
2X2 RAIL INSTALLATION

6. Place 2x2 Rail (MAX24) into channel of Post Bracket against head of #12 Tek Screw (fig 4A).

7. Secure Rail by installing #12 Tek Screws through the Post Bracket and Rail as shown (fig 4B). Lower Tek Screw not required on bottom rail.

8. To connect Rails place Rail Splice (MAXS) to approximately half of it’s length and insert #12 Tek Screw on backside of Rail (fig 5A).

9. Slide connecting Rail on to Rail Splice, Butt up to adjoining Rail, and insert #12 Tek Screw in backside of rail as shown (fig 5B).
INFEILL SHEET INSTALLATION

Note: Variations in manufacturing techniques of fence infill material such as Expanded Metal and Welded Wire result in variations of sheet squareness. The Matrix Alpha system of flexibility to account for these variances. What follows are best practices for handling these differences but each type and sheet may be a different.

Matrix Alpha uses the Hanger Brackets on the top of the Infill sheet. This allows the sheet to be hung safely and securely without the need for immediate hardware installation.

10. Top of infill sheet to be 3” above top of Upper Rail (fig 06). Locate the center of the first Hanger Bracket (MAXB22H) attachment at 1-13/16” from top of Infill Sheet and approximately 20” from side as shown. Secure the top attachment point of the bracket with a 5/16” -18 x 1-1/4” Elevator Bolt (2-0102) and a 5/16” -18 Flange Nut (3-0051) (fig 7A). Do not overtighten due to the galling nature of the stainless steel hardware as there could be some adjustment required.
The placement of the second Hanger Bracket can be critical in dealing with the variation in squareness in the infill material. Rather than simply placing it exactly opposite the first bracket it is best to do as follows:

11. Locate the center of the attachment point for the second Hanger Bracket to be perpendicular to the opposite edge of the sheet through the location of the first Hanger Bracket as shown (fig 7B).

12. Attach the second Hanger Bracket with a 5/16” -18 x 1-1/4” Elevator Bolt (2-0102) and a 5/16” -18 Flange Nut (3-0051) (fig 7B). Again, do not overtighten as there could be some adjustment required.
13. Hang Infill Sheet with Hanger Brackets from top Rail as shown (fig 8). If required, use Ratcheting Installation Jack (90-671-15743) to prevent bowing of top rail during the period of time that it supports the entire weight of the Infill Sheet (fig 08).

14. At this point it is possible to make small adjustments in the Hanger Brackets location without removing the hardware. Ensure that the top of the Infill Sheet is parallel as possible to the upper Rail while the leading side of the Infill Sheet is vertical as possible (fig 9).

15. When the Infill Sheet is in the optimal position install the 5/16”-18 x 3-1/2” Elevator Bolts (2-0103) and 5/16”-18” Flange Nuts in the lower positions of the Hanger Brackets. Tighten all hardware to secure permanently when ready.
16. Install 3-1/2” long Elevator Bolts (2-0103) thru rails on lower Rails as shown and secure with 5/16” Washers (103414) and 5/16”-18 Flange Nuts as shown (fig 10).

17. Leave 7/8” between Infill Sheets for Infill Covers.

T-TRACK/INFILL COVER INSTALLATION

18. Install Infill Covers (MAXTC-8) between Infill Sheets. Install 5/16”-18 x 1-1/4” Carriage Bolts (2-0090) and secure with 5/16” Washers and 5/16”-18 Flange Nuts (3-0051) as shown (fig 11).
DIRECTION CHANGES/CORNERS

19. Install Corner Hinge Assembly (MAXCGB) into open end of Rails (MAX24) at corners. Secure to each Rail by installing a #12 Tek Screw (1-0067) through the Rail and into the Hinge Bracket as shown (fig 12).

20. Install solid side of Corner Bracket (MAXCB-8) to side of Infill Sheet with 5/16"-18 x 1-1/4" Carriage Bolts (2-0090), 5/16" Washers (103414) and 5/16"-18 Flange Nuts (3-0051).

21. Bend opposite side tabs of Corner Bracket (MAXCB-8) along perforated edge to match angle of direction change. This can be accomplished by affixing an adjustable wrench to the Corner Bracket edge.

22. Secure tab side of Corner Bracket to adjacent Infill Sheet using 5/16"-18 x 1-1/4" Carriage Bolts (2-0090), 5/16" Washers (103414) and 5/16"-18 Flange Nuts (3-0051), (fig 13).