



AutoCAD DRAWING REQUIREMENTS FOR ALL NATURAL STONE AND QUARTZ SURFACING

Policy

- All AutoCAD drawings must be transmitted as AutoCAD 2000 .dxf or .dwg files
- All drawings are to be emailed to cad.drawings@towersurfaces.com. The subject line of the email shall read as follows: "*Customer Name_Job Name_PO Number*"
- All pieces on the order must be contained in one (1) AutoCAD drawing. Multiple drawings for a single project will not be accepted.
- All AutoCAD drawings must include a title block containing the following information:
 1. Installer Name
 2. Job Name
 3. Installer's Purchase Order Number
 4. Material (i.e. Granite, Cambria, etc...)
 5. Material Color
 - If multiple material colors are included within a single drawing, the color within the title block shall be noted as "Various" and the color noted separately on each piece. The colors noted on each piece shall then take precedence.
 6. Edge Profile
 - If multiple finished edge profiles are included in a single drawing (i.e. Bullnose *AND* Ogee), the edge profile within the title block shall be noted as "Various" and the edge finish codes noted on each piece shall take precedence. (See Below for Edge Finish Codes)
- The Installer is ultimately responsible for the accuracy of the drawings provided.
 - Tower Industries will not modify installer's drawings. All seams, edges, corners, cutouts, and other details will be supplied as drawn.
 - Tower Industries does not qualify cutout or template information of any kind.
- Please note that finished dimensions for all stone products are subject to a tolerance of +/- 1/8"

Drawing Conventions

All submitted AutoCAD drawings are to include the following layers at minimum:

- Countertop Layer Includes countertops, backsplashes, seams, and cutouts ONLY.
- Dimension Layer Includes Dimensions and Leader Notes ONLY.
- Text Layer Includes Title Block, Piece IDs, Profile Codes, and Cutout Notes ONLY.

The above layers are to include ONLY those items listed.

All other drawing items and notes are to be included on separate layers.

Piece Identification

- All Countertop Pieces must be labeled Alphabetically within the drawing (Piece A, Piece B, etc...)
- All Backsplash Pieces must be labeled Numerically within the drawing (Splash 1, Splash 2, etc...)

We will refer to these piece identification tags when quoting your order and will also refer to them if we need to call with questions on a particular piece.

Edge Profiles

- All edges of all pieces are to be noted with the appropriate edge finish code as noted below:
 1. Raw Unfinished Edge
 2. AE Appliance End (Flat Polished)
 3. Z Square Eased Edge
 4. ZS Bevel Edge
 5. A Waterfall Edge
 6. T Double Roundover Edge
 7. V Bullnose Edge
 8. FS Ogee Edge
 9. F Classic Ogee Edge
- If a finished edge profile is to start or stop at a given point along the length of an edge, the point at which the profile stops must be dimensioned from both ends of the piece.
 - Keep in mind that starting or stopping a finished profile at a given point along an edge will result in a radiused lead-in/lead-out. The radius of the lead-in/lead-out will vary with your selected edge profile. The end of the lead-in/lead-out will stop at the dimensioned point.

Piece Dimensions

Dimensions are required within the AutoCAD drawing to allow Tower personnel to use a tape measure to verify the accuracy of your order.

- Dimension at least TWO edges of each "in-square" piece.
- Dimension ALL edges of each "out-of-square" or irregularly-shaped piece.
- Seam Locations and Lengths must be dimensioned on both adjoining pieces.
- Cutouts Locations and Sizes must be dimensioned from edge to edge (not CenterLine) The following items must be specifically called out:
 - Overall size of the cutout
 - Setback from the front edge
 - Whether it is a finished or unfinished cutout
- The smallest inside radius at all cutouts must have the radius dimensioned.
(See [Sink Cutouts](#) section below for minimum acceptable radius)
- All inside radius corners must have the radius dimensioned.
(See [Corners](#) section below for minimum acceptable radius)
- All outside radius corners must have the radius dimensioned.
(See [Corners](#) section below for additional information)
- Overall Dimensions are required for each piece.
 - Overall dimensions are to be taken from "high-point" to "high-point", resulting in a set of rectangular dimensions that will be used to calculate the square footage of your order.
 - Keep in mind that "pick points" for the overall dimension(s) may not be on the same edge if your piece is out of square.

Seams

- European Miter seams shall be used wherever possible in order to maximize slab yield during the fabrication process. The drawing procedure for the European Miter is available upon request.
- Seams shall be drawn, dimensioned, and labeled with the word "Seam" within the drawing.
- Where seams occur, the drawing shall contain an assembly drawing showing the various pieces assembled together with the seam(s) called out.
Tower Industries reserves the right to suggest and/or enforce alternate seam locations as required for proper material yield.

Sink Cutouts

- Inside Corners at finished sink cutouts will be subject to a minimum 1 1/2" radius.
- The only available edge profile for finished sink cutouts is the ZR edge (approx 5mm radius)
- Sink cutouts are to be dimensioned to the outside edges of the cutout, NOT to the center line. The following items must be specifically called out:
 - Overall size of the cutout
 - Setback from the front edge
 - Whether it is a finished or unfinished cutout.
- All sink cutouts are to be drawn at the size and shape required. Tower Industries will not procure sink template information. PLEASE DO NOT FORWARD YOUR SINK TO TOWER INDUSTRIES.

Drillings & Holes

- **Faucet Drillings** are to be completed by the installer at the time of install.
- **Custom-Sized Holes:**
 - Unfinished Holes: Minimum diameter of 6"
 - Finished Holes: Minimum diameter of 10"

Corners

Finished Outside Corners

- Outside Corners will be hand-eased to a non-specific radius unless otherwise specified.
- If a radius corner is requested, it must be drawn and the radius dimensioned within the drawing.

Finished Inside Corners:

- Inside Corners that are not located at a seam will be subject to a minimum 2 1/2" radius.
- Inside Corners that are located at a seam will be fabricated with no radius.

Unfinished Inside Corners:

- Inside corners that are not located at a seam will be subject to a minimum 1/2" radius.

Backsplashes

- Backsplashes are available with a Square-Eased (Z) edge only.
- Backsplashes with at least one raw end will be supplied longer than the specified dimension for scribing in the field at the time of installation.