A History of Architectural Excellence

So many architects and builders select Turncraft Architectural Columns because they feature thoughtful product design, fine workmanship, superior assembly, precision turning and fluting, and artful finishing.

Round columns may be ordered with true architectural entasis in sizes consistent with the classic proportions of the Greek Doric, Tuscan, Roman Doric, Ionic, and Corinthian Orders, or in custom shaft diameters up to 36" and lengths to 30'. They can be smooth surfaced or given dramatic deep fluting (with increased stave thickness) as desired. Greek Doric Columns feature classic edge-to-edge fluting. Square columns and pilasters may be ordered to match (available in tapered or non-tapered and in various plan styles—see page 14). Non-tapered cylinders are available for use in casework, radius wall corners, and contemporary applications.

The making of Turncraft columns is an exacting process. Finger-jointed or solid staves are milled to the required dimensions, assembled using the strongest Type-I waterproof glue, and then are metal-banded for curing. In the computer-controlled lathe, the assembled shaft is turned to the precise taper desired, complete with true architectural entasis. The top of each column is profiled according to the style specified, and the entire column is machine sanded to ensure a smooth finish. Flutes are milled at precisely determined intervals and depths, always ending in full half-rounds at the top and bottom (except on Greek Doric). Each column, regardless of size, is visually inspected, any defects are corrected, and then it is finish sanded.

Turncraft exterior columns and paint-grade interior columns are fashioned from select, kiln-dried Western Pine staves (or clear, all-heart Redwood or Western Red Cedar by custom order). Use of finger-jointed pieces conserves valuable wood resources, reduces potential for warping and bow, and helps prevent checking or cracking of finished surfaces.

(Solid-stave assembly available by custom order.)

Stain-grade interior columns are fashioned primarily from solid-stave Red Oak, Poplar, Hard Maple, Pine, Cherry, Redwood, Mahogany, and Black Walnut lumber and feature matching wood Caps & Bases.

All paint-grade wood shafts and Caps & Bases are fully immersed in Woodt treat® MB wood preservative, formulated to protect against mold, mildew, and staining and decaying fungi; to control shrinking, swelling, end checking, splitting, grain raising, and warping; and for maximum compatibility with paint primers and topcoats. (Conforms to Industrial Standard IS4-00, is approved by the N.W.W.D.A., and meets all current and proposed government standards.)
### Architectural Specifications

#### Superposition

The view of Renaissance authority Scamozzi was that the lower diameter of a top column should equal the upper diameter of the column underneath. The superior order should always be placed over the inferior; that is Corinthian over Ionic, Doric, Tuscan. The more slender and elegant orders should be placed over the stockier and more solidly built if a top-heavy design is not desired. An ancient example of this descending order is the Colosseum in Rome, which has at least four stories of superpositioned orders.

### Calculated Safe-Load Capacities

<table>
<thead>
<tr>
<th>Shaft Dia.</th>
<th>Pine</th>
<th>Cedar</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>2,567</td>
<td>3,146</td>
</tr>
<tr>
<td>8&quot;</td>
<td>4,114</td>
<td>7,666</td>
</tr>
<tr>
<td>10&quot;</td>
<td>5,497</td>
<td>10,474</td>
</tr>
<tr>
<td>12&quot;</td>
<td>6,620</td>
<td>12,535</td>
</tr>
<tr>
<td>14&quot;</td>
<td>11,017</td>
<td>15,282</td>
</tr>
<tr>
<td>16&quot;</td>
<td>12,307</td>
<td>17,343</td>
</tr>
<tr>
<td>18&quot;</td>
<td>14,467</td>
<td>19,404</td>
</tr>
<tr>
<td>20&quot;</td>
<td>16,808</td>
<td>22,151</td>
</tr>
</tbody>
</table>

The sample columns tested supported loads at least four times the calculated value above prior to failure. The load was applied concentrically through the axis of the column. Loads shown are valid only if there is uniform contact between the full area of column ends and the Cap & Base units. Loads are provided for your convenience only and are not exact values. Consult a structural engineer for the most-accurate load estimates.

### Plan Types

Turncraft Columns are available in the following plan types. Please specify when you order:

- A
- B
- C
- D
- E
- F
- G
- H
- I
- J
- K
- L
- M
- N
- O
- P
- Q
- R
- S
- T
- U
- V
- W
- X
- Y
- Z

### Column Splitting

Using a precision splitting template machine, columns can be divided in halves to be used as pilasters or to be reassembled around existing structural members. Columns designed for reassembly come with realignment splines and installation instructions.

### Stave Thicknesses

<table>
<thead>
<tr>
<th>Shaft Dia.</th>
<th>Pine</th>
<th>Cedar</th>
</tr>
</thead>
<tbody>
<tr>
<td>2&quot;</td>
<td>2&quot;</td>
<td>3&quot;</td>
</tr>
<tr>
<td>2&quot;</td>
<td>2&quot;</td>
<td>3&quot;</td>
</tr>
<tr>
<td>2&quot;</td>
<td>2&quot;</td>
<td>3&quot;</td>
</tr>
<tr>
<td>2&quot;</td>
<td>2&quot;</td>
<td>3&quot;</td>
</tr>
<tr>
<td>3&quot;</td>
<td>3&quot;</td>
<td>3-1/2&quot;</td>
</tr>
<tr>
<td>3&quot;</td>
<td>3&quot;</td>
<td>3-1/2&quot;</td>
</tr>
<tr>
<td>3&quot;</td>
<td>3&quot;</td>
<td>3-1/2&quot;</td>
</tr>
<tr>
<td>3&quot;</td>
<td>3&quot;</td>
<td>3-1/2&quot;</td>
</tr>
</tbody>
</table>

### Architectural Standards

#### 1.0 GENERAL

- **1.1 PRODUCT DESCRIPTION**
  - Columns shall be standard tongue-and-groove construction by Turncraft according to Design No.
  - Columns will have the correct proportions based on orders of classical architecture.
- **1.2 MATERIALS**
  - Wood species shall be ________ (Clear) (Western Red Cedar) (Pine) (Poplar) (Hard Maple) (Western Red Cedar) (Cherry) (Poplar) (Black Walnut) (Other—Specify)

#### 1.3 DELIVERY, STORAGE, AND INSTALLATION

- Storage and installation of shafts and Caps & Bases shall be according to manufacturer-supplied instructions.
- Columns must be stored in a dry, well-ventilated area that is not exposed to heat or sunlight.

#### 1.4 WARRANTY

- Manufacturer shall furnish a 10-year limited warranty on all other wood species against manufacturing defects.

#### 2.0 PRODUCTS

- **2.1 ACCEPTABLE MANUFACTURER:**
  - Turncraft, P.O. Box 2429, White City, OR 97503
  - (541) 826-2911, (800) 423-3311

- **2.2 MATERIALS**
  - All glue joints are pressure-glued using Type-I waterproof glue and tongue and groove no more than 18" apart, with 90 to 100 pounds-per-square-inch pressure for a minimum of 24 hours.
  - Redwood/Cedar columns shall be factory primed with two coats of acrylic primer and hand sanded between coats. Exterior Western Pine columns shall be treated with Woodtreat MB wood preservative.
  - Columns shall be provided with internal or external wood preservative. Exterior Western Pine columns shall be treated with Woodtreat MB wood preservative.
  - Exterior columns shall be manufactured of composition plaster and fiberglass. Columns shall be sprayed with an acrylic vinyl waterproofer.
  - Interior columns shall be factory primed with two coats of acrylic primer and hand sanded between coats. Exterior Western Pine columns shall be treated with Woodtreat MB wood preservative.
  - Interior columns shall be provided with internal or external wood preservative. Exterior Western Pine columns shall be treated with Woodtreat MB wood preservative.

#### 3.0 EXECUTION

- **3.1 INSTALLATION**
  - A. Follow manufacturer’s detailed installation guidelines.
  - B. Submit Turncraft literature and shop drawings for customer approval.
  - C. Submit samples of ________ (Cap) (Base) (Column Shali) (Other—Specify)

#### Project Planning

Turncraft has become the country’s leading supplier of wood columns for residential and commercial applications, shipping columns to job sites daily from its East and West Coast warehouses. Architectural Columns can usually be shipped in four to six weeks from receipt of design specifications.

- Quantity Desired:
  - Column Style: ________ (Greek Doric) (Tuscan) (Roman Doric) (Ionic) (Corinthian)
  - Plan Type: ________ (A) (B) (C) (D) (E) (F) (G) (H) (I) (J) (K) (L) (O) (Other—Specify)
  - Shaft Type: ________ (Round) (Square) (Other—Specify)
  - Profile: ________ (Tapered) (Non-tapered) (Other—Specify)
  - Bottom Shaft Diameter or Width: ________ (Other—Specify)
  - Overall Length: ________ (Other—Specify)
  - Fluting: ________ (Doric) (Ionic) (None) (Other—Specify)
  - Wood Species: Western Pine (Redwood) (Poplar) (Red Oak) (Hard Maple) (Cherry) (Poplar) (Western Red Cedar) (High-Density Fiberglass) (Other—Specify)
  - Stave Construction: ________ (Finger-jointed Staves) (Solid Staves) (Other—Specify)
  - Usage: ________ (Interior Paint-grade) (Interior Stain-grade) (Exterior Paint-grade) (Exterior Stain-grade) (Other—Specify)
  - Project: ________ (New Construction) (Renovation Replacement) (Other—Specify)
  - Splitting: ________ (For Pilaster) (For Reassembly) (Other—Specify)
  - Base: ________ (Aluminum) (Polyurethane) (Composites) (Other—Specify)
  - Caps/Ornaments: ________ (Roman Corinthian) (Empire) (Greek Angular Ironic) (Other—Specify)
  - Architectural: ________ (Greek Doric) (Roman Doric) (Tuscan) (Other—Specify)
  - Interior Paint-grade (Exterior Paint-grade) (Other—Specify)
  - Column will have the correct proportions based on orders of classical architecture.
  - Columns designed for reassembly come with realignment splines and installation instructions.
  - Superposition: ________ (For Pilaster) (For Reassembly) (Other—Specify)
  - Additional Desired Items/Services: ________ (Project Shop Drawings) (Samples—Caps, Bases, Shafts) (Other—Specify)

#### Architectural Specifications

- Turncraft has become the country’s leading supplier of wood columns for residential and commercial applications, shipping columns to job sites daily from its East and West Coast warehouses. Architectural Columns can usually be shipped in four to six weeks from receipt of design specifications.

#### Column Splitting

Using a precision splitting template machine, columns can be divided in halves to be used as pilasters or to be reassembled around existing structural members. Columns designed for reassembly come with realignment splines and installation instructions.