Standard Cabinet Specs

[Diagram showing standard cabinet specifications]
STANDARD CABINET SPECS: Certification

KCMA Certified
All cabinetry manufactured by Shenandoah is certified by the Kitchen Cabinet Manufacturers Association (KCMA).

KCMA sets the American National Standards Institute/KCMA 161.1-2000 uniform performance and construction standards for kitchen and vanity cabinets. The program is referenced by U.S. Government agencies; architects; builders; remodelers; and other specifiers.

Cabinets that bear the KCMA seal of certification are recognized as a quality product with the ability to perform after a rigorous battery of tests, simulating years of typical household use. Tests are performed by approved third-party independent laboratories.

Shenandoah is proud to display the KCMA seal of certification for cabinet construction.

Environmentally Responsible Stewardship
As a leading U.S. manufacturer of fine cabinetry, American Woodmark Corporation is committed to conducting business in a manner that both protects the environment and safeguards public health and safety. To achieve this end, the company proactively identifies potential environmental risks and monitors compliance with appropriate federal, state, local and internal standards.

The company has received certification by the Kitchen Cabinet Manufacturers Association (KCMA) Environmental Stewardship Program on all products. The certification was awarded based on compliance across a broad range of activity including air quality, product resource management, process resource management, environmental stewardship and community relations.

The company works with all suppliers to encourage sustainable forestry practices. Wood doors, drawer fronts and cabinet front frames are made from solid hardwoods. Particle board and plywood are purchased from suppliers that meet either the Composite Panel Association requirements for Environmentally Preferred Products or the Composite Panel Associations Eco-Certified Composite Standards.

The company uses leading edge technologies to limit both hazardous and non-hazardous emissions, byproducts and waste. Ongoing, formal programs identify opportunities for recycling and reusing materials. When waste ultimately requires disposal, steps are taken to minimize the environmental impact.

The American Woodmark Foundation supports local programs serving the community, including activities focused on maintaining the quality of life.

Our company is dedicated to doing our part in the preservation and sustainability of the environment.
**Cabinet Front Face Frames**
Cabinet front face frames are made from \( \frac{3}{4}'' \times 1\frac{5}{8}'' \) solid hardwood. They are kiln-dried to prevent warping and finished with our BeautyGuard finishing system. Face frame joints are pressure-fitted, glued, double-doweled and stapled.

**Cabinet Side Panels**
Cabinet side panels are 1/2” thick and made of engineered wood with our rigorous multi-step TuffTech® UV-cured finish; exterior sides match cabinet finish and interior sides are Natural Woodgrain. They are captured into a grooved front face frame and secured using high-strength fasteners and glue.

**Cabinet Tops, Bottoms and Floors**
Tops, bottoms and floors are \( \frac{1}{2}'' \) thick and made from engineered wood. They are finished with our TuffTech finishing system in Natural Woodgrain. They are fitted and glued into the cabinet front face frame grooves, then captured in the grooves of the cabinet side panels.

**Cabinet Back**
The cabinet back is made from \( \frac{1}{8}'' \) thick hardboard substrate. The inside cabinet surface is finished with our TuffTech finishing system.

**Hanging Rails**
The base and vanity top hanging rail is \( \frac{3}{4}'' \) thick solid hardwood, mortise and tenon joined and glued to the cabinet side panels. The wall cabinet hanging rails are \( \frac{3}{8}'' \) thick engineered wood, glued and pinned into the cabinet back, cabinet side panels and top/bottom.

**Cabinet Shelves**
Cabinet shelves are \( \frac{3}{4}'' \) thick engineered wood with our TuffTech finishing system in Natural Woodgrain. Shelves are banded on one side with PVC edge banding. All shelves are adjustable and meet KCMA load standards of 15 pounds per square foot.

**Drawer Systems**
Cabinets utilize natural finish dovetail hardwood drawers with plywood bottoms and Full-Access Hidden Glides® or Full-Access CushionClose Glides. All drawers meet KCMA load standards of 15 pounds per square foot.

**Drawer Systems–Deep Roll Out Trays**
Deep Roll Out Trays utilize natural finish dovetail hardwood drawers with printed MDF bottoms. Deep Roll Out Trays feature side-mounted \( \frac{3}{4}'' \) access drawer glides or Full-Access CushionClose glides. All Deep Roll Out Trays meet KCMA load standards of 15 pounds per square foot.

**Corner Blocks**
Corner blocks are attached to help ensure cabinet squareness and allow for proper countertop installation.

**Hinges**
Fully concealed, self-closing Hidden Hinges® are standard on all door styles.

**Inset Toe Kick**
Inset toe kicks are constructed of \( \frac{3}{8}'' \) thick unfinished engineered wood and are recessed 3 1/2”.

**BTK8 (matching toe kick) required for installation.**

**Continuous Improvement**
In keeping with our policy of continuous product refinement, Shenandoah Cabinetry reserves the right to change specifications in design and materials as conditions require.
STANDARD CABINET SPECS: Finishing Systems

Finishing Systems
The finishing systems used on our products are designed to ensure the beauty and durability of our cabinetry. State-of-the-art equipment allows precise sanding, filling and finish coverage of each of our products.

BeautyGuard® Finishing System
BeautyGuard is an extremely sophisticated and environmentally responsible coating that offers durability, ease of cleaning and water resistance. We use a combination of mechanical systems to bring out the richness, luster and natural grain definition of the wood, as well as computerized automation to ensure color consistency and surface smoothness. Our BeautyGuard Finishing System is a rigorous multi-step process that includes sanding, brushing, cleaning, stain application, computerized oven drying and a catalyzed topcoat to protect and beautify cabinets for years to come.

TuffTech Finishing System
Our TuffTech Finishing System uses only 100% solids. This multi-step panel finishing system begins with three sanding operations followed by a top and bottom brush cleaning to provide a smooth surface for material adhesion. Next, an ultraviolet (UV) filler is cured using light ovens to seal the board completely. Once again the board is sanded and a waterborne adhesion material is applied and dried to provide an interlocking bond with the water-based paints. Depending on the product, two or three coats of paint are applied, dried and then covered with an ultraviolet topcoat. This topcoat is made of acrylics and urethane and acts as a sealant to protect the paint.

Environmentally Responsible Finishing
Our panel finishing system uses only water-based paints and fillers, yielding neither hazardous waste nor water contamination. Our acrylic and urethane materials are 100% solids, dried using high-intensity lights, yielding no atmospheric emissions. Our products are extremely resistant to stains and surface damage that can be caused by common household chemicals. Our products exceed KCMA and ANSI standards for resistance to stains like coffee, grape juice and moisture.

Cabinet Care
Remove dust from cabinets frequently with a soft lint-free cloth. The cloth may be slightly dampened with water or a spray type dust remover. Wood and laminate cabinet surfaces may be polished once every few months with a high-quality, non-oil-based furniture polish. Do not use a paste wax type material. Wax buildup is difficult to remove and will leave a residue that attracts dust and moisture. Polishes containing silicon should not be used. Clean spills immediately. Use a clean cloth and mild soap if necessary. Wipe dry with a clean soft cloth. Do not use detergents, citrus or ammonia-based cleaners, steel wool, soap pads or abrasive cleaners on cabinets.

Extra care should be taken that cabinet finishes are not exposed to heat in excess of 200° Fahrenheit (174° for Thermofoil wrapped door styles). Do not place or mount small appliances beneath wall cabinets. These appliances (such as coffee makers and Toasters) can produce excessive heat, which can damage the finish of cabinets. Do not expose doors or drawer fronts (especially Thermofoil) to heat created from self-cleaning ovens or ranges. The HSK (Heat Shield Kit) should be used when Thermofoil cabinets are installed or mounted directly next to ovens or ranges.

Allow Cabinets To Age Beautifully
Our cabinets showcase the careful selection of natural and engineered materials to achieve the best possible look. While every effort is made to match wood grain as closely as possible, no two pieces of wood are exactly alike, even from the same tree. These differences in natural color and grain mean that each piece will respond differently to the finishing materials used. For example, close-grained woods absorb less and will vary in color from more open-grained pieces from the very same tree. It’s these variations that contribute to the beauty and distinction of quality wood products. However, exposure to sunlight, smoke and chemicals may cause some materials to fade or vary from their original color over time.

This is why cabinets, doors, drawer fronts and accessories added at a later date may not exactly match cabinets installed now. For the same reasons, door samples or displays may not represent the exact color of cabinets received at the time of shipment. Consumers should also read all cleaning agent instructions carefully before application.

Due to changes that occur from natural and environmental factors a cabinet is exposed to over its lifetime, we cannot be responsible for variations that occur in the finish of natural and engineered materials as they age.
Wood Species & Materials

Shenandoah Cabinetry incorporates solid hardwoods and hardwood veneers. These are natural materials with inherent variations. As such, our quality standards establish tolerance ranges for matching the hardwood pieces. Consumers should review actual samples of hardwoods in our buying centers and cabinet displays to help establish realistic expectations of variations involving wood grain, color tones, presence of knots and so forth.

These variations are at the heart of the unique natural beauty of finished hardwood. In addition, exposure of wood products to sunlight, some chemical agents and smoke can cause wood colors to change over time.

Cherry
Cherry is a close-grained, multicolored hardwood with occasional pin knots and fine grain variations appearing as curls and waves. Features described below are typical and not considered defects:
- Small sap pockets, pin knots and streaks
- Color ranges from pale yellow sapwood to deep reddish-brown heartwood, with occasional shades of white, green, pink or even gray
- Staining reveals subtle variations and colors that typically darken over time
- Variations within a single door
- May accept nicks and bumps over time

Hickory
Hickory is a very tough, dense hardwood, making it an extremely durable cabinet material. Unlike other hardwoods, wood selection for Hickory does not attempt to minimize discrepancies in wood color tones. Darker stains will moderate the color variance. Features described below are typical and not considered defects:
- Dramatic color variations ranging from deep reddish brown heartwood to pale white sapwood
- Random burls, mineral streaks, knots and pecks
- Doors and parts of doors that range in color from light to deep brown when finished

Maple
Maple is an exceptionally hard, finely grained wood species with a fine, even texture. Darker stains will moderate the color variance; lighter stains mellow with golden hues over time. Features described below are typical and not considered defects:
- White to light blonde tones to dark reddish-brown tones
- Small mineral streaks of light blond or reddish brown that darken with stain
- Wavy, curly bird’s-eye or burl graining as well as worm tracking across the grain that will darken when stained
- Variations within a single door

Oak
Oak is a prominently grained hardwood with pattern variations from straight grain to arcs. It is durable and forgiving of nicks and bumps, and mellows with golden hues over time. Darker stains provide a more uniform appearance. Features described below are typical and not considered defects:
- Oak colors range from light tans to deep reddish browns
- Streaks of yellow or black mineral deposits
- Noticeable differences in color between open and close-grained areas which may be more evident with light-colored stain
- Variations within a single door

Painted
Painted finishes combine hardwoods and engineered materials including solid wood, medium density fiberboard (MDF), high density fiberboard (HDF) and similar materials to achieve a product with superior stability, consistency, coverage and durability. Features described below are typical and not considered defects:
- Joint lines caused by the natural expansion and contraction of wood
- The natural aging process may change the tone of paint colors over time

Thermofoil
Thermofoil is thick vinyl film bonded to warp-resistant medium density fiberboard (MDF) which allows cabinet doors and drawer fronts to exhibit the same styling and detail found in solid wood doors.
- The color is consistent throughout the film
- The core is medium density fiberboard (MDF) with a melamine back
- The surface is durable, easy to clean and especially resistant to chipping and cracking

Duraform
Duraform uses a highly-technological manufacturing process to bond foils and coatings to medium density fiberboard (MDF), high density fiberboard (HDF) and similar materials to achieve a product with exceptional stability, consistency and durability.
- The color is consistent throughout the coating
- The surface is durable and easy to clean
- Finishes are resistant to heat, humidity and fading
Shenandoah Cabinetry wall cabinets are constructed using high-quality materials and hardware.

The drawing below illustrates and identifies the parts of a standard Shenandoah Cabinetry wall cabinet.

**NOTE:** Wall single square door cabinets are hinged left and can be reversed in the field.
Wall single cathedral door cabinets must be ordered hinged left or right.
Shenandoah Cabinetry base cabinets are constructed using high-quality materials and hardware.

The drawing below illustrates and identifies the parts of a standard Shenandoah Cabinetry base cabinet.

**NOTE:** Base single door cabinets are hinged left and can be reversed in the field.
**STANDARD CABINET SPECS: Hardware**

### 6-Way Adjustable Full Overlay (FOL) Door Hinge

All steel construction with nickel-plated finish, 1 3/8" Full Overlay hinge with self-closing feature that allows door to close unassisted when approximately 20–30 degrees open. Hinge allows less than 3/16" frame-to-door gap. Six-way adjustability allows superior in/out adjustment of 1/8", up/down adjustment of 1/4" and side-to-side adjustment of 1/8". Exceeds industry standard for durability. Standard feature on all Full Overlay (FOL) door styles. Hinges permit doors to open to approximately 105 degrees.

### 6-Way Adjustable Standard Overlay (SOL) Door Hinge

All steel construction with nickel-plated finish, 9/16" Standard Overlay hinge with self-closing feature that allows door to close unassisted when approximately 20–30 degrees open. Hinge allows less than 3/16" frame-to-door gap. Six-way adjustability allows superior in/out adjustment of 1/8", up/down adjustment of 1/4" and side-to-side adjustment of 1/8". Exceeds industry standard for durability. Standard feature on all Standard Overlay (SOL) door styles. Hinges permit doors to open to approximately 105 degrees.

### Full-Access Hidden Glides System

The one-piece Full-Access Hidden Glides System features steel-ball bearings providing quiet, stable operation. 21" extension provides full-access to drawer contents. It provides self-closing convenience and smooth, dependable performance.

### Side-Mounted Drawer Glides

This ¾ access glide system features twin self-aligning side-mounted drawer glides. They are constructed of epoxy-coated steel for quiet opening and closing. Rollers are made of Delrin for smooth operation.

### Metal Shelf Rest

1/4" steel, nickel plated. Standard feature on all wall cabinets and bookshelves.

### Base Locking Shelf Rest

Locks base shelves in place and prevents shelves from sliding. Designed to allow easy shelf removal. Molded from clear high-strength polycarbonate. Standard feature on all base and tall cabinets.

### Mullion Shelf Rest

These illustrations specify dimensions of vertical stiles, horizontal rails, cabinet heights and standard interior opening heights for Wall and Base cabinets. **Wall cabinets 39” wide and larger feature a 3¼” center stile.**

### Wall Cabinets

**Wall Cabinet 42” High**

**Wall Cabinet 39” High**

**Wall Cabinet 36” High**

**Wall Cabinet 30” High**

**Wall Cabinet 27” High**

**Wall Cabinet 24” High**

**Wall Cabinet 21” High**

**Wall Cabinet 18” High**

**Wall Cabinet 15” High**

**Wall Cabinet 12” High**

### Base Cabinets

**Inset Toe Kick**

**Standard Base Cabinet with BUTT Doors**

**Standard Base Cabinet w/ Center Stile**

**Full-Height Base Cabinet**

Inset toe kick construction requires BTK8 matching toe kick—must be ordered separately.
STANDARD CABINET SPECS: Drawer Base, Vanity & Desk Cabinet Dimensions

These illustrations specify dimensions of vertical stiles, horizontal rails, inset toe kick, cabinet heights and standard interior opening heights for Drawer Base, Vanity and Desk cabinets. Butt door cabinets do not have a center stile.

**Drawer Base Cabinets**

4 Drawer Base Cabinet

3 Drawer Base Cabinet

2 Drawer Base Cabinet

**Vanity Cabinets**

Vanity Base Cabinet

Base Height

Vanity Drawer Base

Base Height

Vanity Full-Height

Base Cabinet

Vanity Base Cabinet

Standard Height

Vanity Drawer Base

Standard Height

**Desk Cabinets**

Desk Base Cabinet

Desk Drawer Cabinet

File Drawer Base

Kneehole Drawer

Trimmable in height to 4 ¾”

*Dimension for KDC36/33 is 3 ⅛”*
STANDARD CABINET SPECS: Tall Cabinet Dimensions & Ceiling Requirements

These illustrations specify dimensions of vertical stiles, horizontal rails, inset toe kick, cabinet heights and standard interior opening heights for Vanity Linen, Utility and Oven cabinets.

**Tall Cabinets**

Vanity Linen Cabinet  
Utility Cabinet  
Single Oven Cabinet*  
Double Oven Cabinet*

*Actual height of oven opening shown. For actual width, maximum width and maximum height dimensions, please refer to Cut Out Dimensions Chart in specific cabinet SKU box.

### Ceiling Height Requirements for Tall Cabinets

**Notes**
- 93” and 96” high Tall cabinets are shipped with 4” inset toe kick assembly shipped inside cabinet.
These illustrations specify dimensions of the height requirements for top alignment of Wall and Tall cabinets (Linen, Utility, Oven) installation.

### 84” Top Alignment Cabinet Installation

**Notes:**
- 84” top alignment cabinet installation includes standard Wall cabinets (30 1/8” high) installed 53 7/8” above the finished floor, allowing 17 7/8” clearance between the Wall cabinets and a standard countertop height of 36”.
- Tall cabinetry (Linen, Utility, Oven) is 84” high.
- When selecting cabinetry for installation above or near any appliance, refer to the appliance manufacturer’s specifications for clearance and venting requirements.

### 90” Top Alignment Cabinet Installation

**Notes:**
- 90” top alignment cabinet installation includes taller Wall cabinets (36 ¾” high) installed 53 ¾” above the finished floor, allowing 17 ¾” clearance between the Wall cabinets and a standard countertop height of 36”.
- Tall cabinetry (Utility, Oven) is 90” high.
- When selecting cabinetry for installation above or near any appliance, refer to the appliance manufacturer’s specifications for clearance and venting requirements.
93” Top Alignment Cabinet Installation

Notes:
• 93” top alignment cabinet installation includes full-height Wall cabinets (39 ¾” high) installed 53 7/8” above the finished floor, allowing 17 7/8” clearance between the Wall cabinets and a standard countertop height of 36”.
• Tall cabinetry (Utility, Oven) is 93” high.
• When selecting cabinetry for installation above or near any appliance, refer to the appliance manufacturer’s specifications for clearance and venting requirements.

96” Top Alignment Cabinet Installation

Notes:
• 96” top alignment cabinet installation includes full-height Wall cabinets (42 ¾” high) installed 53 ¾” above the finished floor, allowing 17 ¾” clearance between the Wall cabinets and a standard countertop height of 36”.
• Tall cabinetry (Utility, Oven) is 96” high.
• When selecting cabinetry for installation above or near any appliance, refer to the appliance manufacturer’s specifications for clearance and venting requirements.
STANDARD CABINET SPECS: Overlay Dimensions

These drawings illustrate the relationship between the cabinet face frame and Standard Overlay (SOL) and Full Overlay (FOL) doors. They show the amount of the cabinet face frame that is visible when Standard Overlay doors or Full Overlay doors are selected.

**Full Overlay**

Full Overlay (FOL) doors are sized to cover nearly all of the cabinet face frame. Full Overlay door styles require decorative hardware. **To facilitate proper door operation, include at least a ¾” filler between the hinged side of Full Overlay door styles and deeper adjacent objects including cabinets, walls, appliances and countertops.**

**Standard Overlay**

Standard Overlay (SOL) doors are sized to show about an inch of the cabinet face frame, giving the door some visual depth.