SECTION 12 3119

OUTDOOR METAL CABINETRY

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Preassembled metal cabinetry units which may include:

1. Aluminum cabinets.

2. Countertops

3. Gas grill units.

4. Sink units.

B. Custom designed layouts assembled from manufactured cabinet units.

1.02 REFERENCE STANDARDS

A. AAMA 2604 - Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels (with Coil Coating Appendix); 2017a.

B. ASTM B209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate; 2014.

1.03 SUBMITTALS

A. Product Data: Component dimensions, configurations, construction details, joint details, and attachments; manufacturer's catalog literature on hardware, accessories, and service fittings, if any.

**(NOTE TO WRITER: Delete shop drawings if standard configuration is used)**

B. Custom Configuration Shop Drawings: Indicate cabinet types, sizes, locations, using large scale plans, elevations, cross sections. Include rough-in and anchors, placement dimensions and tolerances.

1.04 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Protect items provided by this section during handling and installation, including finished surfaces and hardware items. For metal surfaces, use polyethylene film or other protective material standard with the manufacturer.

B. Inspect cabinets on arrival for damage.

1.06 WARRANTY

A. Residential Purchasers:

1. Manufacturer's Product Warranty: Provide manufacturer’s limited lifetime warranty.

a. Warranty Period: From the date of original residential installation for as long as the residence is owned and occupied by the original consumer purchaser.

2. Manufacturer’s Finish Warranty:

a. Finish shall not fade from light or weathering more than 5 Delta E units in the first 3 years.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Basis of Design: Products specified herein and shown on the Drawings are based on Wolf Endurance Outdoor Cabinetry as manufactured by Challenger Designs, LLC for Wolf Home Products; other equivalent products will be acceptable.

2.02 FABRICATION

A. Cabinets: Die-formed metal sheet; each unit self-contained and not dependent on adjacent units or building structure for rigidity; factory-fabricated, factory-assembled, and factory-finished.

1. Style: Flush Inset - square edge doors and drawers.

2. Frame: Aluminum.

3. Primary Cabinet Material: Aluminum sheet, ASTM B209, 50% recycled.

4. Cabinet Nominal Dimensions:

a. Width: 18, 24 and 48 inch cabinets.

b. Depth: 28 inches.

1) Structural Performance: Provide components that safely support the following minimum loads, without deformation or damage:

(a) Base Units: 500 pounds per linear foot across the cabinet ends.

2) Corners and Joints: Without gaps or inaccessible spaces or areas where dirt or moisture could accumulate.

B. Swinging Doors: Hinges, pulls, and catches.

1. Hinges: Hidden 6-way adjustable hinges

2. Solid core doors, reinforced for hardware.

3. Fill with sound-deadening core.

4. Provide rubber seals on doors to keep storage dry.

C. Drawers: 24" deep, full access, soft-close drawers

1. Pulls: Stainless steel bar pulls.

2. Solid core drawer fronts, reinforced for hardware

2. Seals: Provide rubber seals on doors and drawers to keep storage dry.

D. Shelves in Cabinets: ¾" high, full-depth, adjustable aluminum shelves.

E. Legs: Provide 4 inch adjustable legs.

**(NOTE TO WRITER: Delete mobile cart base if configuration is stationary. If configuration is mobile select correct base width.)**

F. Mobile Cart Base: Aluminum framed base with rollers.

1. Cart Width: 48, 72, 96 inches.

2.03 FINISHES

A. Powder Coated:

1. High Performance Organic Coatings: AAMA 2604; multiple coats, thermally cured fluoropolymer system.

2. Shop finish all components.

B. Fasteners: Stainless Steel.

**(NOTE TO WRITER: Select one of the following preconfigured layouts for use with gas grill.)**

2.04 PRECONFIGURED UNITS GAS GRILL LAYOUTS

A. Preconfigured Grill Units: Grill Configuration Units are available the following configurations for use with integral gas grill and countertop:

1. Weekender:

a. Overall Size: 60 inches wide by 28 inches deep.

b. Configuration: 18 inch wide one drawer base plus 42 inch wide gas grill base.

2. Staycation:

a. Overall Size: 84 inches wide by 28 inches deep.

b. Configuration: One 18 inch wide one drawer base, one 42 inch wide gas grill base, plus one 24 inch wide two drawer base

3. Oasis:

a. Overall Size: 108 inches wide by 28 inches deep.

b. Configuration: One 18 inch wide one drawer base, one 42 inch wide gas grill base, one 24 inch wide two drawer base, plus one 24 inch wide full door base.

4. Entertainer: L-shaped unit.

a. Overall Size: 115 inches wide by 90 inches wide x 28 inches deep.

b. Configuration: One 18 inch wide one drawer base, one 42 inch wide gas grill base, one 24 inch wide two drawer base, one 48 inch wide one door base, one 24 inch wide 4 drawer base, plus one 24 inch wide one drawer base.

5. Regal: L-shaped unit.

a. Overall Size: 108 inches wide by 109 inches wide x 28 inches deep.

b. Configuration: One 36 inch wide sink base, one 24 inch wide two drawer base, one 48 inch wide one door base, one 18 inch wide one drawer base, one 42 inch wide gas grill base, plus one 24 inch wide one drawer base.

**(NOTE TO WRITER: Select one of the following preconfigured layouts when an integral gas grill is not part of the layout.)**

2.05 PRECONFIGURED UNITS WITHOUT INTEGRAL GAS GRILL

A. Preconfigured Units without Integral Grill:

1. Bistro:

a. Overall Size: 48 inches wide by 28 inches deep.

b. Configuration: One 24 inch wide two drawer base plus 24 inch wide one drawer base.

2. Classic:

a. Overall Size: 48 inches wide by 28 inches deep.

b. Configuration: Two 24 inch wide one door base.

3. Haven:

a. Overall Size: 48 inches wide by 28 inches deep.

b. Configuration: One 24 inch wide one door base, one 4 drawer base plus one 24 inch wide one door base.

4. Courtyard:

a. Overall Size: 96 inches wide by 28 inches deep.

b. Configuration: One 24 inch wide two drawer base, two 24 inch wide one door base, plus one 24 inch wide one drawer base.

5. Grillmaster:

a. Overall Size: 132 inches wide by 28 inches deep (based on 36 inch wide freestanding grill).

b. Configuration: One 24 inch wide one door base, one 24 inch wide two drawer base, one 24 inch wide one drawer base plus one 24 inch wide one door unit. (Grill is freestanding).

**(NOTE TO WRITER: Delete this article if there is not a custom configuration on the Project.)**

2.06 CUSTOM CONFIGURATIONS

A. Custom configurations can be designed using standard base units to fit custom design.

PART 3 EXECUTION

3.01 PREPARATION

A. Wear gloves and safety glasses when handling and installing cabinets.

B. Drawer assemblies and doors are made to be removable to aid in assembly and installation.

C. Before you begin installation, unpack and inspect cabinetry. Verify that you have all of the components necessary to complete the installation.

D. Mock up cabinets as they are intended to be installed.

E. Clean raw aluminum with isopropyl alcohol before attaching side panels.

3.02 INSTALLATION

A. Assemble and install cabinets, components and accessories in accordance with manufacturer's instructions.

1. Align front and top faces of cabinets using (2) clamps to hold cabinets in place.

2. Screw the cabinet fronts together using 3/4" long self-tapping screws. Use predetermined holes located top and bottom of units.

3. Remove clamps and adjust alignment at the rear of the cabinets.

4. Screw the backs of cabinets together through the predetermined holes.

B. Install Finished Sides:

1. Exposed side of cabinets require the installation of a finished side panel.

2. Slide the front edge of the side panel into the cavity between the face frame and the cabinet wall until the rear of the side panel is flush with the rear of the cabinet.

3. Remove backing on the adhesive and apply pressure to permanently secure the side panel in place.

4. Cabinets require back panels unless they are permanently installed to a wall or similar structure.

5. The back panels slip over the rear of the cabinet assemblies.

C. Finished End Panels: If a cabinet has a finished end panel, it also will be installed inside of the back panel. Using (4) 3/4" long self-tapping screws, attach the back panel to the cabinet.

D. Top Attachment: Attach the top, inside through the holes provided.

E. Bottom Panel Attachment: Attach the bottom by screwing up, through the frame into the cabinet assembly.

F. Leveling: Leveling cabinets is critical to the fit and function of the cabinets. Use a bubble level front to back and left to right.

**(NOTE TO WRITER: Delete this article if cabinets are not wall attached)**

3.03 WALL ATTACHED CABINETS

A. Fasten cabinets to walls using anchors and hardware designed for specific wall material.

B. Each cabinet has (2) pre-determined holes for attachment to walls. Drill additional holes to secure cabinets studs or other structural elements.

C. Shim attachment points as required to install cabinet square and level. Cabinets that are not square and level may not function properly.

D. Leveling: Leveling cabinets is critical to the fit and function of the cabinets. Use a bubble level front to back and left to right.

**(NOTE TO WRITER: Delete this article if layout does not have an integral grill)**

3.04 CUT-OUT FOR GRILL OPENING

A. Remove cabinet front for cutting. Do not cut cabinet corners or joints as this will alter the structural integrity and strength of the cabinet.

B. Mask off the cutting area. To protect from the cutting tool scratching the front, mask the entire area that will not be cut out.

C. Using a square, draw cut locations onto the masked area.

D. With the front piece secured, cut out grill location using a jigsaw with a fine tooth metal blade.

E. Remove burs and sharp edges with file or sand paper.

F. Touch-up paint as needed.

G. Reinstall front piece.

3.05 MOBILE BASE

A. With cabinets in correct order, flip the cabinets upside down on a protected surface, making sure the cabinets are against each other

B. Position the Mobile Base onto cabinets. Lip of mobile base shall be located right behind face frame.

C. Once the Mobile Base is in place, install self-tapping screws through front, back and end clearance holes.

D. Install caster onto mobile base using hardware provided.

3.06 ADJUSTING

A. Adjust operating parts, including doors, drawers, hardware, fixtures to function smoothly.

3.07 FINAL CLEANING

A. Clean cabinets, counters, shelves, legs, hardware, fittings and fixtures.

3.08 PROTECTION

A. Do not permit finished casework to be exposed to continued construction activity.

B. Protect cabinets and countertops from ongoing construction activities. Prevent installers from standing on or storing tools and materials on cabinet or countertops.

END OF SECTION