PART 1 - GENERAL

1.01 RELATED DOCUMENTS

1. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-l Specification sections, apply to work of this section.

1.02 DESCRIPTION OF WORK

1. Extent of each type of solid phenolic casework is shown on drawings.

2. Provide types of casework including the following:
   .1 Fixed storage cabinet with adjustable shelves.
   .2 Base cabinet and countertop.

1.03 REFERENCES

1. Comply with applicable fabrication requirements and installation from the phenolic panel manufacturer and with applicable requirements published by the Architectural Woodwork Standards (AWS).

1.04 SUBMITTALS

1. Submit manufacturer's product data for each product and process specified as work of this section and incorporated into items of architectural millwork during fabrication, finishing, and installation.

1.05 PRODUCT DELIVERY STORAGE AND HANDLING

1. Protect millwork during transit, delivery, storage and handling to prevent damage, soiling and deterioration.

2. Do not deliver millwork, until painting, wet work, grinding and similar operations which could damage, soil or deteriorate woodwork have been completed in installation areas. If, due to unforeseen circumstances, millwork must be stored in other than installation areas, store only in areas meeting requirements specified for installation areas.

1.06 JOB CONDITIONS

1. Installer shall advise Contractor of temperature and humidity requirements for millwork installation areas. Do not install millwork until required temperature and relative humidity have been stabilized and will be maintained in installation areas.

2. Maintain temperature and humidity in installation area as required to maintain moisture content of installed millwork within a l.0 percent tolerance of optimum moisture content, from date of installation through remainder of construction period. The fabricator of millwork shall determine optimum moisture content and required temperature and humidity condition.

3. Before proceeding with fabrication of millwork required to be fitted to other construction, obtain field measurements and verify dimensions and show drawing details as required for accurate fit.
    1. Where sequence of measuring substrates before fabrication would delay the project, proceed with fabrication (without field measurements) and provide ample borders and edges to allow for subsequent scribing and trimming of millwork for accurate fit.

PART - 2 PRODUCTS

2.01 BASIC MATERIALS AND FABRICATION METHODS

1. Provide solid phenolic core with Electron Beam Cured Acrylic surface with Matte finish made as an integral part of core material. Panels should have a minimum 70% biobased content.
    1. Material manufactured by Trespa North America and Formica Corporation, 10155 Reading Road, Cincinnati, OH 45241 – 919-500-6604.
    A. Trespa Fabricator: PerMar Ltd. (715-325-6040) 1169 Timberline Parkway , Nekoosa Wi 54457.

2. All panel material shall be constructed from Toplab products, countertops shall be TopLab Plus or TopLabPLUS ALIGN, scratch and wear resistant with SEFA 3 certification for chemical & stain resistance, GreenGuardGOLD certification for indoor air quality and

carry a 10 year warranty. Countertops shall be 1" or ¾" thick. Drawer bottoms and cabinet backs to be ¼" All other cabinet components to be ½" unless specified otherwise.

3. Product Material Specification:
    1. Modulus of Elasticity, 15 Million psi minimum
    2. Shear Strength, 2000 psi minimum
    3. Compression, 24000 psi minimum
    4. Weight 93 pounds per cubic foot maximum
    5. Flammability: Self Extinguishing
    6. Flame Spread 25 (16 mm thick)
    7. Smoke Developed 70 (16 mm thick)
    8. Water Absorption 3% maximum
    9. Use temperature 350°F maximum
    10. Non-porous surface and edges
    11. Will not support fungus or bacteria
    12. Uniform load deflection ¼" maximum - 800 lbs (base cabinet), 300 lbs (cabinet)
    13. Screw Pull out Strength Minimum - 600 lbs. minimum

4. Design and Construction Features: Comply with manufacturer's details and as shown for profile and construction of architectural millwork.

5. Fabricate architectural millwork with pre-cut openings, where possible, to receive hardware, appliances, plumbing fixtures, electrical work and similar items. Locate openings accurately and use templates or roughing-in diagrams for proper size and shape. Smooth edges of cutoffs and, where located in countertops and similar exposures.

2.02 HARDWARE

1. Pulls: Wire pull 96mm SS finish.

2. Concealed hinges:
    1. Salice hinge 110 degree.

3. Adjustable Shelf Supports:
    1. Poly carb shelf clips 4 per shelf.

PART 3 - EXECUTION

3.01 PREPARATION

1. Condition casework to average prevailing humidity conditions in installation areas prior to installing.

3.02 INSTALLATION

1. Install the work plumb, level, true and straight with no distortions. Shim as required using concealed shims. Install to a tolerance of l/8" in 8'-0" for plumb and level (including countertops); and l/l6" maximum offset in flush adjoining surfaces, l/8" maximum offsets in revealed adjoining surfaces.

2. Scribe and cut work to fit adjoining work, and refinish cut surfaces or repair damaged finish at cuts. Provide filler strips to match cabinetry in all locations as required by field conditions.

3. Install standing and running trim with minimum number of joints possible, using full-length pieces (from maximum length of lumber available) to the greatest extent possible. Stagger joints in adjacent and related members. Cope at returns, miter at corners, and comply with manufacturer's recommendations for joinery.

4. Anchor casework to anchors or blocking built-in or directly attached to substrates. Secure to grounds or blocking with countersunk, concealed fasteners and blind nailing as required for a complete installation. Prefinished matching fastener heads are required.

5. Install casework without distortion so that doors and drawers will fit openings properly and be accurately aligned. Adjust hardware to center doors and drawers in openings and to provide unencumbered operation. Complete the installation of hardware and accessory items as indicated.

3.03 ADJUSTMENT, CLEANING, FINISHING AND PROTECTION

1. Repair damaged and defective panels wherever possible to eliminate defects functionally and visually. Where not possible to repair properly, replace millwork. Adjust joinery for uniform appearance.

2. Contractor shall protect millwork during remainder of construction period to ensure that work will be without damage or deterioration at time of acceptance.

3. Clean hardware, lubricate and make final adjustments for proper operation.

END OF SECTION