



SECTION 06 40 00
ARCHITECTURAL WOODWORK
(WOOD COMPOSITE PANELS)

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PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Particleboard with ultra-low emitting formaldehyde resins (ULEF).
- B. Particleboard with (TSCA) – Title VI Formaldehyde Regulation
- C. Medium density fiberboard panels with no added formaldehyde resins (NAF).

1.2 RELATED SECTIONS

- A. Section 06 20 00 - Finish Carpentry.
- B. Section 06 25 00 - Prefinished Paneling.
- C. Section 06 40 13 - Exterior Architectural Woodwork.
- D. Section 06 41 00 - Architectural Wood Casework
- E. Section 06 41 13 - Wood Veneer Faced Architectural Cabinets
- F. Section 06 41 16 - Plastic Laminate Clad Architectural Cabinets
- G. Section 06 42 00 - Wood Paneling
- H. Section 06 42 16 - Flush Wood Paneling
- I. Section 06 42 19 - Plastic-Laminate-Faced Wood Paneling.
- J. Section 10 21 00 - Compartments and Cubicles.
- K. Section 10 51 00 - Lockers.
- L. Section 10 55 13 - Central Mail Delivery Boxes.
- M. Section 12 30 00 - Casework.
- N. Section 12 35 00 - Specialty Casework
- O. Section 12 35 30.13 - Kitchen Casework.
- P. Section 12 50 00 - Furniture.
- Q. Section 12 59 00 - Systems Furniture.

1.3 REFERENCES

- A. American National Standards Institute (ANSI):
 - 1. ANSI A208.1 - Particleboard, Mat-Formed Wood.
 - 2. ANSI A208.2 - Medium Density Fiberboard for Interior Use.
 - 3. ANSI Z124.3 - Plastic Lavatories.
- B. ASTM International (ASTM):
 - 1. ASTM D 1037 - Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials.
 - 2. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- C. Architectural Woodwork Institute (AWI):
 - 1. AWI Quality Standards; Sections 100, 200, 400, 500, 600, 700, 1500, and 1700.
- D. Composite Panel Association (CPA):
 - 1. CPA-4-19 - Eco-Certified Composite (ECC) Sustainability Standard.
- E. California Air Resources Board (CARB):
 - 1. CARB ATCM 93120 - California Formaldehyde Regulation (CARB rule).
- F. Environmental Protection Agency (EPA)
 - 1. Toxic Substance Control Act (TSCA) – Title VI Formaldehyde Regulation
- G. Forest Stewardship Certification (FSC):
 - 1. Scientific Certification System, Chain of Custody Number: SCS-COC- 000300, Roseburg Forest Products.
- H. International Organization for Standardization (ISO):
 - 1. ISO 14021 - Environmental Labels and Declarations - Self-Declared Environmental Claims (Type II Environmental Labelling).
- I. MEA New York Standard for Fire-Rated Panel:
 - 1. MEA 244, Material and Equipment Acceptance by Department of Buildings, City of New York, NY.
- J. National Electrical Manufacturers Association (NEMA):
 - 1. NEMA LD3 - Laminate Testing.
- K. Scientific Certification Systems (SCS):
 - 1. Certification by independent evaluation of 82-92 percent pre-consumer recycled wood fiber content depending on product standard and contains no added formaldehyde (made without the use of phenol formaldehyde and shown in lab testing to be free of formaldehyde down to a detection limit of 0.05 ppm). Furnished by Scientific Certification Systems, Oakland, CA.
- L. Standards Council of Canada –
 - 1. Formaldehyde Emission Standards for Composite Wood Products – CAN/CSA 0160-16
- M. UL Environment: A business unit of Underwriters Laboratories.
- N. U.S. Green Building Council (USGBC)
 - 1. LEED - Leadership in Energy and Environmental Design

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 30 00 - Administrative Requirements.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Manufacturer's printed installation instructions, showing required preparation and installation procedures.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
 - 4. Cleaning and maintenance instructions.
- C. Verification Samples:
 - 1. Particleboard: two samples, 3-1/8 by 4-1/8 in (89 x 127 mm).
 - 2. Medium Density Fiberboard: Samples of 3-1/8 by 8-1/2 in (101 by 203 mm) samples of finished for casework, paneling, and trim.
 - a. Submit 4 in (101 mm) minimum long color sample of vinyl edge banding for each MDF substrate.
- D. Manufacturer's Certification: Materials comply with specified requirements and suitable for intended application.
 - 1. Third-Party Certification:
 - a. USGBC Approved Certification thru (SCS) Scientific Certification Systems, Oakland, CA.
 - b. Pre-consumer Recycled Wood Fiber Content: Third-party certification.
 - c. FSC Mix Credit Certified: Third-party certification.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications:
 - 1. Panel manufacturer shall have 2 consecutive years of experience in manufacture of no-added formaldehyde medium density fiberboard panels and ULEF and TSCA – Title VI compliant Particleboard
- B. Fabricator Qualifications:
 - 1. Woodwork fabricator shall have 5 consecutive years of experience in fabrication of casework, paneling, and trim.
- C. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship for each type MDF paneling and MDF sanding and running trim using manufacturer approved installation methods.
 - 1. Finish areas designated by Architect.
 - 2. Do not proceed with remaining work until workmanship and appearance are approved by Architect.
 - 3. Subject to approval by Architect, mock-up may be retained as part of finish work.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials in manufacturer's original, unopened, undamaged pallets with identification labels intact.
- B. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions in strict compliance with manufacturer's instructions and industry standards.
 - 1. If unloaded outdoors, move and store under shelter as soon as possible. Avoid unloading in inclement weather.
 - 2. Inspect delivered products to verify products are not damaged, soiled or have been exposed to water.

- C. Handling: Protect materials during handling and installation to prevent damage.

1.7 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.

1.8 WARRANTY

- A. Manufacturer's Warranty: Manufacturer's standard limited warranty against defects in manufacturing.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Acceptable Manufacturer: Roseburg, which is located at: 3660 Gateway St.; Springfield, OR 97477; Toll Free Tel: 800-245-1115; Tel: 541-679-3311 ; Fax: 541-679-2543; Contact Mark Nelson - Email: [request info \(MarkN@rfpco.com\)](mailto:request info (MarkN@rfpco.com)); Web:www.roseburg.com

2.2 PARTICLEBOARD

- A. Basis of Design: SkyBlend particleboard as manufactured and supplied by Roseburg Forest Products Company.
 1. Type: Particleboard with ultra-low emitting formaldehyde resins (ULEF).
 2. Standards Compliance: ANSI A208.1 and ASTM D 1037.
 3. Grade: Industrial.
 4. Panel Thickness: 3/8 in (9 mm).
 5. Panel Thickness: 1/2 in (13 mm).
 6. Panel Thickness: 5/8 in (16 mm).
 7. Panel Thickness: 11/16 in (17 mm).
 8. Panel Thickness: 3/4 in (19 mm).
 9. Panel Thickness: 1 in (25 mm).
 10. Panel Thickness: 1-1/8 in (29 mm).
 11. Panel Thickness: As indicated on Drawings.
 12. Panel Size: 49 by 97 in (1245 by 2464 mm).
 13. Panel Size: 61 by 97 in (1245 by 2464 mm).
 14. Panel Size: 61 by 109 in (1549 by 2769 mm).
 15. Panel Size: 61 by 121 in (1549 by 3073 mm).
 16. Panel Size (in / mm): _____.
 17. Panel Size: As indicated on Drawings.
 18. Physical characteristics:
 19. Recycled Wood Fiber: 100 percent.
 - a. Certification: CPA 4-19 (ECC).
 - b. Total panel basis weight is at least 90 percent pre-consumer recycled wood fiber.
 - c. Third-party certified 100 percent recycled and/or recovered wood fiber in accordance with ISO 14021.
 20. FSC Mix Credit Certified: Product valued at 100 percent.
 - a. Specify "FSC Certified SkyBlend" at time of order.
 - b. SCS-COC-000300.
 21. Low Emitting Materials:
 - a. CARB Approved Ultra-Low Emitting Formaldehyde (ULEF) Resins.
 - b. Complies with CARB ATCM 93120 ULEF Exemption for Formaldehyde Emission Limits.
 - c. Complies with CAN / CSA 0160-16

22. Environmental Product Declaration (EPD):
 - a. Manufacturer is recognized participant by UL Environment, the program operator, in a Type III Product Specific EPD for particleboard.
 - 1) Raw particleboard valued as one whole product (per unique application) from one manufacturer for the purposes of this LEED credit.
 - b. Manufacturer is recognized participant by UL Environment, the program operator, in the industry-wide EPD for particleboard.
 - 1) Raw particleboard valued as 1/2 product (per unique application) from one manufacturer for the purposes of this LEED credit.
 23. Location:
 - a. Manufacturing Location: (SkyBlend Particleboard) Taylorsville, MS; Missoula, MT
 - 1) Wood Fiber Extraction: Within 300-mile radius of each manufacturing location.
- B. Basis of Design: UltraBlend particleboard as manufactured and supplied by Roseburg Forest Products Company.
1. Type: Particleboard made with CARB / TSCA Title VI compliant Resin:
 2. Standards Compliance: ANSI A208.1 and ASTM D 1037.
 3. Particleboard Grades:
 - a. Industrial – MS, M2 and M3
 - b. Door Core – LD1 and LD2
 4. Recycled Wood Fiber: 100 percent.
 - a. Certification: CPA 4-19 (ECC).
 - b. Total panel basis weight is at least 90 percent pre-consumer recycled wood fiber.
 - c. Third-party certified 100 percent recycled and/or recovered wood fiber in accordance with ISO 14021.
 5. FSC Mix Credit Certified: Product valued at 100 percent.
 - a. Specify "FSC Certified SkyBlend" at time of order.
 - b. SCS-COC-000300.
 6. Formaldehyde Emissions Regulation:
 - a. CARB / TSCA Title VI compliant Resin:
 - b. CAN / CSA 0160-16
 7. Environmental Product Declaration (EPD):
 - a. Manufacturer is recognized participant by UL Environment, the program operator, in a Type III Product Specific EPD for particleboard.
 - 1) Raw particleboard valued as one whole product (per unique application) from one manufacturer for the purposes of this LEED credit.
 - b. Manufacturer is recognized participant by UL Environment, the program operator, in the industry-wide EPD for particleboard.
 - 1) Raw particleboard valued as 1/2 product (per unique application) from one manufacturer for the purposes of this LEED credit.
 8. Location:
 - a. Manufacturing Location: (UltraBlend Particleboard) Taylorsville, MS; Simsboro, LA, Missoula, MT
 - 1) Wood Fiber Extraction: Within 300-mile radius of each manufacturing location.

2.3 MEDIUM DENSITY FIBERBOARD PANELS

- A. Moisture Resistant Medium Density Fiberboard Panels made with NAF Resin:
1. Basis of Design: Medex by Roseburg Forest Products Company.
 - a. Standards Compliance:
 - 1) ANSI A208.2 - Grade 155; MR50.
 - 2) ASTM D1037: Passed the 6-Cycle Accelerated Aging Test.

2. Medium Density Fiberboard (Moisture Resistant) Sustainable Design, Moisture Resistant, medium density fiberboard panel manufactured from 100 percent post-industrial recycled wood fiber complying with ANSI A208.2, having a minimum 48 pcf density; minimum for screw holding capacity on face and edge of 325 pounds and 275 pounds respectively; an ASTM E84 Class C flame spread rating; fabricated with binder containing no urea formaldehyde.
- B. Exterior Moisture Resistant Medium Density Fiberboard Panels made with NAF Resin:
1. Basis of Design: Armorite by Roseburg Forest Products Company.
 - a. Standards Compliance:
 - 1) ANSI A208.2 - Grade 130; MR50.
 - 2) ASTM D1037: Passed the 6-Cycle Accelerated Aging Test.
 2. Medium Density Fiberboard (Moisture Resistant) Sustainable Design, Exterior Moisture Resistant, medium density fiberboard panel manufactured from 100 percent post-industrial recycled wood fiber complying with ANSI A208.2, having a minimum 45 pcf density; minimum for screw holding capacity on face and edge of 325 pounds and 280 pounds respectively; an ASTM E84 Class C flame spread rating; fabricated with binder containing no urea formaldehyde. Pass AWPA E-10 for Rot Resistance and AWPA E-26 for Termite Resistance. ISO 21887 Durability of wood use class UC3A
- C. Interior Medium Density Fiberboard Panels made with NAF Resin:
1. Basis of Design: Arreis by Roseburg Forest Products Company.
 - a. Standards Compliance: ANSI A208.2 - Grade 130; MR10 for panels greater than or equal to 5/8 in (16 mm).
 2. Medium Density Fiberboard - No Added Formaldehyde (NAF) Sustainable Design medium density fiberboard panel manufactured from 100 percent post-industrial recycled wood fiber complying with ANSI A208.2, having a minimum 47 pcf density; minimum for screw holding capacity on face and edge of 225 pounds and 200 pounds respectively; an ASTM E84 Class C flame spread rating; fabricated with binder containing no urea formaldehyde.
- D. Interior Medium Density Fiberboard Panels made with NAF Resin:
1. Basis of Design: Arreis Ultra by Roseburg Forest Products Company.
 - a. Standards Compliance: ANSI A208.2 - Grade 130; MR30 for panels greater than or equal to 5/8 in (16 mm).
 2. Medium Density Fiberboard - No Added Formaldehyde (NAF) Sustainable Design medium density fiberboard panel manufactured from 100 percent post-industrial recycled wood fiber complying with ANSI A208.2, having a minimum 50 pcf density; minimum for screw holding capacity on face and edge of 275 pounds and 275 pounds respectively; an ASTM E84 Class C flame spread rating; fabricated with binder containing no urea formaldehyde.
- E. Interior Medium Density Fiberboard Panels for Profile Machining made with CARB / TSCA Title VI compliant Resin:
1. Basis of Design: Medite 3D by Roseburg Forest Products company.
 - a. Standards Compliance: ANSI A208.2 - Grade 130;
 2. Medium Density Fiberboard - Product meets CARB ATCM 93120 Phase 2 emission requirements - medium density fiberboard panel manufactured from 100 percent post-industrial recycled wood fiber complying with ANSI A208.2, having a minimum 49 pcf density; minimum for screw holding capacity on face and edge of 300 pounds and 280 pounds respectively; an ASTM E84 Class C flame spread rating.

- F. Interior Medium Density Fiberboard Panels made with NAF Resin:
 - 1. Basis of Design: Medite II by Roseburg Forest Products Company.
 - a. Standards Compliance: ANSI A208.2 - Grade 155; MR30 for panels greater than or equal to 5/8 in (16 mm).
 - 2. Medium Density Fiberboard - No Added Formaldehyde (NAF) Sustainable Design medium density fiberboard panel manufactured from 100 percent post-industrial recycled wood fiber complying with ANSI A208.2, having a minimum 47 pcf density; minimum for screw holding capacity on face and edge of 300 pounds and 250 pounds respectively; an ASTM E84 Class C flame spread rating; fabricated with binder containing no urea formaldehyde.
- G. Flame-Retardant Medium Density Fiberboard Panels made with NAF Resin:
 - 1. Basis of Design: Medite FR by Roseburg Forest Products Company with Class 1 (A) Fire Rating in accordance to ASTM E-84
 - a. Standards Compliance:
 - 1) ANSI208.2 - Grade 130.
 - 2) ASTM E 84.
 - 3) MEA 244,
 - 2. Medium Density Fiberboard made from 100 percent post-industrial recycled softwood fibers complying with ANSI A208.2, synthetic resins, and fire-retardant chemicals mixed together at time of panel manufacture to achieve flame spread index of 25 or less and smoke developed index of 200 or less per ASTM E84. having a minimum 48 pcf density; minimum for screw holding capacity on face and edge of 350 pounds and 275 pounds respectively; fabricated with binder containing no urea formaldehyde.
- H. Interior Medium Density Fiberboard Panels for Molding Profile Machining made with CARB / TSCA Title VI compliant Resin:
 - 1. Basis of Design: Medite Profile by Roseburg Forest Products Company.
 - Standards Compliance: ANSI A208.2 - Grade
 - 2. Medium Density Fiberboard - Product meets CARB ATCM 93120 Phase 2 / TSCA Title VI emission requirements - medium density fiberboard panel manufactured from 100 percent post-industrial recycled wood fiber complying with ANSI A208.2, having a minimum 41.2 pcf density; minimum for screw holding capacity on face and edge of 200 pounds and 175 pounds respectively; an ASTM E84 Class C flame spread rating.
- I. Interior Medium Density Fiberboard Panels for Doors, Drawer Fronts and Textured Wall Panel Profile Machining made with CARB / TSCA Title VI compliant Resin:
 - 1. Basis of Design: Medite Premium by Roseburg Forest Products Company.
 - Standards Compliance: ANSI A208.2 - Grade 130
 - 2. Medium Density Fiberboard - Product meets CARB ATCM 93120 Phase 2 / TSCA Title VI emission requirements - medium density fiberboard panel manufactured from 100 percent post-industrial recycled wood fiber complying with ANSI A208.2, having a minimum 45.3 pcf density; minimum for screw holding capacity on face and edge of 300 pounds and 250 pounds respectively; an ASTM E84 Class C flame spread rating.
- J. Interior Medium Density Fiberboard Panels for Door Profile Machining made with CARB / TSCA Title VI compliant Resin:
 - 1. Basis of Design: Medite Ultra by Roseburg Forest Products Company.
 - Standards Compliance: ANSI A208.2 - Grade 155
 - 2. Medium Density Fiberboard - Product meets CARB ATCM 93120 Phase 2 / TSCA Title VI emission requirements - medium density fiberboard panel manufactured from

100 percent post-industrial recycled wood fiber complying with ANSI A208.2, having a minimum 49 pcf density; minimum for screw holding capacity on face and edge of 325 pounds and 325 pounds respectively; an ASTM E84 Class C flame spread rating.

- K. Location:
- a. Manufacturing Location: (MDF Products) Medford, OR; El Dorado, AR, Pembroke, ON Canada
 - 1) Wood Fiber Extraction: Within 300-mile radius of each manufacturing location.
- L. Hardwood Panel Facings with Particleboard- CARB ULEF Exempt Core or MDF-NAF Core.
1. Basis of Design: SkyPly on MDF by Roseburg Forest Products Company.
 - a. Face Sheet: Premium grade, plain sliced hardwood.
 - b. Species: As indicated on Drawings.
 - c. Minimum Face and Backing Sheet Thickness: 1/50 in (0.51 mm).
 - d. Backing Sheet: Hardwood Veneer or Thermally Fused Laminate Face
 - e. Edge Trim: Premium grade solid hardwood in species and cut-to-match paneling face sheet.
 - f. Primer: Prime painted panel finish. Shop primed with primer acceptable to panel manufacturer.
- M. Thermally Fused Laminate Panel Facings:
1. Basis or Design: Duramine by Roseburg Forest Products Company.
 2. Standards compliance: ISO 4586-2 / (NEMA LD 3).
 3. Core Type:
 - a. MR50 - Moisture resistance MDF-NAF core.
 - b. Class 1 - Fire resistant MDF core.
 - c. Standard MDF core material laminated with Melamine saturated decorative paper layers thermally fused to both core face surfaces with heat and pressure.
 - d. _____ MDF core. (see optional cores above)
 - e. SkyBlend CARB ULEF Exempt – Particleboard Core
 - f. UltraBlend CARB/ TSCA Title VI – Particleboard Core
- N. High Pressure Laminate Panel Facings:
1. Standards Compliance:
 - a. ISO 4586-2, NEMA LD 3 - General Purpose 50.
 - b. ANSI Z124.3, Type 5 or 6.
 2. Facing Thickness; Square Edge Countertops: 0.050 in (1.27 mm).
 3. Facing Thickness; Post-Formed Edge Countertops: 0.040 in (1.02 mm).
 4. Facing Thickness; Vertical Surfaces: 0.030 in (0.76 mm).
 5. Backing Thickness: 0.020 in (0.51 mm).
 6. Low pressure laminate panel facings.
- O. Laminate Clad Countertops:
1. Construct laminate countertop substrate of 19 mm (3/4 inch).
 - a. Medium density fiberboard (MDF).
 - b. Particleboard
 2. Moisture-resistant where countertops receive sinks, lavatories, or are subjected to liquids.
 3. Sink cutout edges sealed with appropriate sealant against moisture.
 4. No joints to occur at cutouts.
 5. Balanced backer sheet.
- P. Fasteners:
1. Panel Z-Clips: As furnished by panel fabricator.

2. Plated Fasteners: Euro screws, sheet metal screws, finish nails, bolts, and nuts.
 3. Screw Withdrawal Force: For number 10 sheet metal screw.
 - a. Panel Face: 225 lbs (102 kg).
 - b. Panel Edge: 200 lbs (91 kg).
- Q. General Requirements:
1. Type: Medium density fiberboard panels with no added formaldehyde.
 2. Composition: Lignocellulose fibers and no-added formaldehyde synthetic resin.
 3. Density Range: 44 to 49 lbs per cu ft (704.8 to 784.9 kg per cu m).
 4. Density Range: 39 to 55 lbs per cu ft (624.7 to 881 kg per cu m).
 5. Thickness: 1/4 to 1-1/2 in (6 to 38 mm), as indicated on Drawings.
 6. Faced-paneling: Hardwood, faced on both surfaces.
 7. Faced-paneling: Low-pressure laminate, faced on both surfaces.
 8. Faced-paneling: High-pressure laminate faced on both surfaces.
- R. Sustainable Design Certification:
1. Product to be third party certified in accordance with CPA 4.
 2. CARB/TSCA Title VI - Third Party Certifier TPC-1.
 3. SFI Certified Wood – LEED V4.1 – Alternative Compliance Path
 4. SCS Scientific Certification Systems:
 - a. No Added Formaldehyde Guidelines.
 - b. FSC Certified Wood
 5. CPA – ECC: Recycled Content Certified
 6. Certification should be performed annually and shall be current.
- S. Environmental Product Declaration (EPD):
1. Manufacturer is recognized participant by UL Environment, the program operator, in a Type III Product Specific EPD for MDF produced in Medford, OR
 - a. Raw MDF valued as one whole product (per unique application) from one manufacturer for the purposes of this LEED credit.
- T. Low Emitting Materials:
1. CARB NAF Exemption due to Synthetic Resin System
 2. CARB Approved Ultra-Low Emitting Formaldehyde (ULEF) Resins.
- U. Location:
1. Manufacturing Location: Medford, OR; El Dorado, AR; Pembroke, ON, Canada (MDF - Medium Density Fiberboard)
 - a. Wood Fiber Extraction: Within 300-mile radius of manufacturing location.
- V. Fabrication Requirements:
1. Architectural Woodwork Quality Standards (AWI): Comply with sections 100, 200, 300, 400, 500, 700, 1500, and 1700.
 - a. Fabricate to AWI custom grade.
 - b. Fabricate to AWI premium grade.
 2. Casework Panel Construction:
 - a. Panel and Trim Thickness:
 - 1) Standard Panels: Top, bottom, side, and interior panels: 3/4 in (19 mm) thick.
 - 2) Cabinet Base: 3/4 in (19 mm) thick moisture resistant panels.
 - 3) Shelves up to 30 in (762 mm) wide: 3/4 in (19 mm) thick.
 - 4) Shelves 30 to 42 inch (762 to 1067 mm) wide: 1 in (25 mm) thick.
 - 5) Upper Cabinet Backs: 1/2 in (13 mm) thick.
 - 6) Lower Cabinet Backs: 1/4 in (6 mm) thick.
 - 7) Cabinet Doors: 3/4 in (19 mm) thick.
 - 8) Drawer Fronts: 3/4 in (19 mm) thick.
 - 9) Drawer Sides: 1/2 in (13 mm) thick. (Fabricator may face top edges with

- PVC.)
- 10) Drawer Sub-Front and Back Panels: 3/4 in (19 mm) thick.
 - 11) Drawer Bottoms: 1/4 in (6 mm) thick. (Fabricator may use 1/4 in (6 mm) thick tempered hardboard and set into sides and sub-front of drawers with continuous groove.)
 - 12) Drawer Cabinet Dividers between each Drawer: 3/4 in (19 mm) thick.
 - 13) Countertop Panels at Countertop Front Edge: 1-1/2 in (38 mm) thick, fabricated in two layers of no-added formaldehyde medium density fiberboard panels.
 - a) Moisture-resistant panels are required for countertops with sinks.
- b. Architectural Woodwork Shop Finishes:
- 1) Panel Edges: 0.020 in (0.51 mm) thick polyvinyl chloride.
 - 2) Panel Edges: 0.08 in (2 mm) thick impact resistant polyvinyl chloride.
 - 3) Hardwood-Faced Panels: AWI premium grade.
 - a) Clear catalyzed lacquer, AWI Finish number TR-2.
 - b) Clear polyurethane varnish, AWI Finish number TR-6.
 - c) Tinted catalyzed lacquer, AWI Finish number TR-2.
 - d) Tinted polyurethane varnish, AWI Finish number TR-6.
 - e) Opaque catalyzed lacquer, AWI Finish number OP-2.
 - f) Opaque polyurethane varnish, AWI Finish number OP-6.
 - 4) Concealed Panel Surfaces: 0.020 in (0.51 mm) thick Cabinet Liner or low or high pressure laminate.
 - 5) Laminate Finish:
 - a) High-Pressure on Exposed Vertical Panel Surfaces: Nominal 0.030 in (0.8 mm) thick.
 - b) Low-Pressure on Exposed Panel Surfaces: ANSI Z124.3, type 5 or type 6, polyester or melamine laminate in color, pattern, and surface texture as selected by Architect from manufacturer's standard colors, patterns, and surface textures.
 - 6) Abrasion-Resistant High-Pressure Laminate Surface for Countertops: ISO 4586-2 / NEMA LD-3, manufacturer's standard abrasion-resistant high-pressure laminate.
 - a) Thickness: 0.050 in (1.3 mm) for square-formed laminate.
 - b) Thickness: 0.043 in (1.1 mm) for post-formed laminate.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions to ensure that work can be completed with no adverse effects.

3.2 PREPARATION

- A. Prepare substrates using methods recommended by the manufacturer to achieve the best results for the panels under proper conditions.
- B. Do not proceed with installation until substrates have been fabricated based on recommended methods from the manufacturer. Commencement of installation constitutes acceptance of conditions of substrate.

3.3 INSTALLATION

- A. Comply with AWI AWS fabrication and installation standard as applicable to the project.
- B. Install fabricated TFL panels according to approved architectural drawings, shop drawings and manufacturer's published installation instructions, Shim as required for proper

installation.

3.4 CLEANING AND PROTECTION

- A. Clean panels in accordance to manufacturer's published care and maintenance instructions.
- B. Touch up, repair or replace damaged products before completing installation.

END OF SECTION