

DIVISION 12 - FURNISHINGS

Section 12000 - General Discussion

Introduction

This General Discussion Section contains material which is important to the successful fabrication and/or installation of furnishings and equipment in construction projects. The issues are fundamental to the basic design of the project, and the long term success of those elements of the project., as well as the fabrication and installation process.

The consultant is expressly responsible for incorporating these overall requirements into the project, and for insuring that all the sub consultants are aware of the requirements and incorporate them into their designs as well.

Furniture

Items available through the Tri-University Purchasing Agreement are purchased by that means. Other items are bid through the Purchasing Dept. in compliance with the University Procurement Code. Furnishings are not usually a part of the building construction contract.

End of Section 12000

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Section 12345 - Laboratory Casework

Introduction

These Standards differentiate between Laboratory Casework and Architectural Woodwork / Custom Casework because of the specialized nature and use of the product. Architectural Woodwork / Custom Casework Shall be specified separately in **Division 6 Wood and Plastics**.

Because the University anticipates a longer than average building life and higher than average use and abuse, durable, high quality Laboratory Casework is essential to the long term success and serviceability of any project. Section 12000 - Laboratory Casework specifies current Standards of the American Woodworking Institute (AWI) but modifies the standard to omit the use of certain materials in certain conditions and in certain portions of the work. Although used extensively industry wide, in the experience of the University, these materials have proven unsatisfactory and must be specifically excluded from the specifications. Specific pre-approved fabricators and/or manufacturers are listed, who, in the experience of the University, provide the necessary quality of work. Other fabricators/ manufacturers may be used through the pre-approval process.

Part 1 - General

- Laboratory Casework shall be fabricated to current standards of the American Woodworking Institute (AWI) and within the guidelines of the Scientific Apparatus Manufacturers Association (SAMA). Specific project requirements will determine the need for acid and chemical resistant acrylic, chemical resistant solid phenolic plastic, acid resistant plastic laminate, or standard plastic laminate counter tops.
- Indicate requirements for utility provisions which must be coordinated by the fabricator.
- Reference appropriate sections for Laboratory Tops and Equipment. (See Tab C3 Laboratory Planning and Design Criteria.)

Part 2 - Products

- All Laboratory Casework shall be "Custom" grade according to the American Woodwork Institute (AWI) and subject to the following:
- No particle board or particle board core plywood may be used in any part of the work (including laminate tops) and shall be specifically excluded. Plywood shall be industrial quality.
- Casework shall be opaque or transparent finish rotary cut uniform color light birch hardwood (unless otherwise approved by the Project Manager). Architect shall specify finish and call for sample submittal for review and approval. Interior of millwork shall receive opaque or transparent finish to match exterior.
- Pre-approved fabricators and manufacturers of **Laboratory Casework** are:
 - Atkinson's Cabinet Shop, (520) 792-4775
 - ISEC, Inc., (602) 926-1667
 - Carreto Custom Cabinet, (520) 624-3733
 - Sierra Woodworks, (520) 881-0222
 - Showcase Custom Cabinetry, Inc.,
 - Turnkey Corporation, (520) 571-8819
 - Creative Cabinets, (520) 624-3202
 - Collegedale, (423) 238-8113
- The lists in this section are non-exclusionary and not intended to be a comprehensive list of qualified fabricators and manufacturers. These lists are intended to identify Fabricators and manufacturers that have met the design and specification standards that are identified in this Section. Other fabricators and

manufacturers that can meet the design and specification standards in this Section may be considered.

- The pre-approved manufacturer of solid phenolic plastic lab tops is: **Pionite**.
- Minimum grades for plastic laminates shall be as follows (NEMA / ISO / Inch Thickness). For horizontal surfaces use HW62/HCS/.062" or GP50/HGS/.050" and for vertical surfaces use BK50/BGS/.050". Do not specify post forming grades of Laminates.
- Approved manufacturers of plastic laminate are:
 - Wilson Art
 - Formica
 - Nevamar
 - Pionite
- Hardware shall be indicated in a schedule in this section or in Section 08710, Finish Hardware. If in Section 08710, reference to that section.
- Drawer glides shall be full extension Heavy duty rated.
- Hinges shall be concealed type full metal with no plastic parts, 180° degree opening capacity.
- Hardware for adjustable shelves in cabinet bodies shall be K-V adjustable track with metal shelf support.
- Hardware for adjustable shelves on walls shall be heavy duty type equal to the K-V standard and bracket system.
- Approved hardware manufacturers are:
 - McKinney
 - K&V
 - Blum
 - Stanley
 - Gras

Part 3 - Execution

- Fabricate case bodies with stop dadoes if transparent finish.
- All "Custom" grade Casework concealed surfaces shall be treated at the shop with spray or brush application of 50% Pentachlorophenol solution in a 1:10 mixture with deodorized spray base. In the field all concealed scribed and cut surfaces shall receive a brush application of the same material.
- Drawers shall be lock shouldered or multiple dovetailed and have applied fronts. Bodies shall be hardwood or 7 ply plywood. Bottoms shall be hardwood panel product or masonite hardboard full or stop dadoed. Exposed surfaces shall be hardwood. All drawers shall ride on full extension, full suspension drawer glides.
- Plastic laminate application shall be specified as follows:
 - Apply side edging first, then top surface, with top surface overlapping side edging.
- Installations shall be by skilled tradesmen. In the cases where fabricator and installer are not one and the same, product and project guarantee shall not be compromised.

End of Section 12345

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Section 12510 - Blinds

Introduction

Window blinds may be a part of the construction contract (preferable if there is no furniture contract) or a part of the FF&E budget. Check with the University Project Coordinator to see what method is appropriate.

Details should provide for proper attachment with backing as required for the attachment. If blinds will sit in front of windows, insure that they will clear furnishings. If blinds sit within window recess, make certain depth of recess is adequate for proper installation.

Vertical or horizontal blinds may be at the discretion of the Design Consultant. (Users occasionally have preferences.) Overall building appearance should be considered and if a standard has been established, that standard should be maintained so exterior appearance is consistent. Generally, vertical blinds do not retain dust and horizontal blinds do. Mini-blinds are preferred if horizontal and in either case, metal is preferred.

Specifically indicate on the plans the locations of the blinds.

Part 1 - General

- There are no unique University requirements.

Part 2 - Products

- There are no unique University requirements.

Part 3 - Execution

- There are no unique University requirements.

End of Section 12510

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Section 12690 - Floor Mats and Frames

Introduction

Recessed floor mats must be provided at building entrances. Exterior installations are preferred.

Part 1 - General

- Require submittal of appropriate samples for approval and review of colors if applicable.

Part 2 - Products

- Frames shall be recessed and of aluminum, bronze, or other material complimentary to the building design.
- Metal foot grille type shall be specified. Size of panels shall be such that they are easily removed for cleaning. Joints shall divide the units into equal sections and material pattern in each section shall align with the adjacent sections.

Part 3 - Execution

- Comply with manufacturers instructions and coordinate top of mat surfaces with doors so that swing across mats provides under door clearance.

End of Section 12690

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Section 12710 - Fixed Seating

Introduction

No discussion.

Part 1 - General

- Seating Layout: Design and install seating to optimize sight lines and space utilization. Comply with ADA Rules and Regulations. Architect shall provide initial layout and plans in a diagrammatic form showing number of seats, minimum aisle widths, H.C. seating spaces and armrest locations, aisle lighting and other requirements.
- Specify single-source responsibilities. Obtain seating, accessories, mounting components, including installation and coordination responsibilities from a single manufacturer.

Part 2 - Products

- Lecture Hall and Auditorium Seating:
 - Floor mounted fully padded, fabric covered seats with molded plastic backs and heavy gauge steel seat frame and pan. Provide self rising mechanisms. Do not use rail mounted systems.
 - Lecture Hall seating shall have folding tablet arms with nominal plastic laminate writing surface on hardwood plywood core, with rounded edges. Provide 13% of tablet arms for left-handers located on aisle seats.
- Arena Seating:
 - Riser mounted molded plastic with and without fabric covered padded seats (as required by the building program). Standards shall be cast iron.
- All seats shall be provided with Manufacturer's standard number and letter plates after determining seat/row designations with the University.
- Acceptable Manufacturers:
 - American Seating Col.
 - Hussey Mfg. Co.
 - Irwin

Part 3 - Execution

- Comply with recommendations of seating manufacturer for secure and proper installation.
- Install chairs using manufacturer's recommended hardware and fasteners. Chairs in curved rows shall be installed at smooth radius.
- Mounting bolts and assembly hardware shall be cut, capped and/or otherwise finished to achieve both a finished appearance to the installation and eliminate protrusions and sharp edges which could cut and tear.

End of Section 12710