

## **DIVISION 12 – FURNISHINGS**

### **12 2113 – HORIZONTAL LOUVER BLINDS**

- A. Mini-blinds are undesirable in all conditions.
- B. Adequate blocking shall be provided for future installation the window treatment(s). This shall be reviewed during the design with the UND PM.
- C. Coordinate electrical needs for motor operated blinds.
- D. In Classrooms where a projector is used, black-out shades shall be installed, verify with UND PM.
- E. Where horizontal louver blinds are indicated to fit to other construction, verify dimensions. Allow clearances for operating hardware of operable glazed units through entire operating range.
- F. Obtain horizontal louver blinds from single source from single manufacturer.
- G. Standard blind shall be .008 gauge aluminum with 1” slats (UND PM shall approve alternatives, color, style and brand).

### **12 2116 – VERTICAL LOUVER BLINDS**

- A. Vertical Blinds are preferred - either plastic or cloth covered inserts.
- B. Adequate blocking shall be provided for future installation the window treatment(s). This shall be reviewed during the design with the UND PM.
- C. Coordinate electrical needs for motor operated blinds
- D. Where vertical louver blinds are indicated to fit to other construction, verify dimensions. Allow clearances for operating hardware of operable glazed units through entire operating range.
- E. Obtain vertical louver blinds from single source from single manufacturer.
- F. Standard blind shall be .008 gauge aluminum with 2” slats (UND PM shall approve alternatives, color, style and brand).

### **12 2216 – DRAPERY TRACK AND ACCESSORIES**

- A. Drapery is undesirable in public and common areas.
- B. Design for maximum weights of drapes to be supported.
- C. Motorized Tracks: Indicate motor weights, motor-mounting requirements, and electrical requirements.

### **12 2400 – WINDOW SHADES**

University of North Dakota

- A. In classrooms, 1% - 3% room darkening roller blinds are preferred. Consult with UND PM for the approved percentage and color of window shade. The percentage is based upon room use, natural light conditions and building orientation.
- B. Preferred manufactures include: Hunter Douglas and Mecho-Systems
- C. Electrically or manually operated shades shall depend on the size of the window.
- D. Window shades shall cover full window opening unless the design is intended otherwise. Consult UND PM for non-standard window shade treatments.
- E. Preferred installation is soffit style mounting, however surface mounting is allowed when necessary. If surface mounting is to be used a fascia style system should be specified to cover shade and roller.
- F. When specifying window shades include product warranty on shade and all mechanical devices.
- G. Drive chain shall be stainless steel and have a minimum 90# breaking strength. Nickel plated bead chains will not be accepted.
- H. Chain tensioners / retainers shall be supplied; metal spring style tensioners are preferred.
- I. Stop beads or chain stops shall be included and shall be adjusted to the proper setting by the installer.
- J. Shades shall be reviewed during design with the Building Committee and approved by UND PM.

### **12 3530 – CASEWORK**

- A. Coordinate layout and installation of blocking and reinforcement in partitions for support of casework.
- B. Select materials for compatible color and grain. Do not use two adjacent exposed surfaces that are noticeably dissimilar in color, grain, figure, or natural character markings.
- C. Edge band exposed shelf edges with solid wood of same species as face.

### **12 3553.13 – METAL LABORATORY CASEWORK**

- A. Specify the appropriate work surface compatible with the specific use of the laboratory: review in detail with the users and UND PM.
- B. When the Project is of significant complexity, a Laboratory Consultant shall be contracted by the Architect.
- C. Review Educational and Institutional Cooperative preferred Vendors with UND PM.
- D. Laboratories in which program design has noted use or potential use of other hazardous materials (explosives, oxidizers, and peroxides; pyrophorics; water-reactives; poisons and carcinogens) shall have at least one metal cabinet per hazard group above, physically distinct and separate from other cabinets, for storage of these materials. The size of these storage cabinets shall be determined by program design. Hazardous materials cabinets shall be clearly marked in accordance applicable standard. In the absence of specific wording from applicable standards, base storage cabinets shall be marked "HAZARDOUS MATERIALS - KEEP FIRE AWAY," or other language as approved by UND PM and UND Safety Office.

University of North Dakota

- E. For casework for flammable liquid storage, corrosives-acids storage, corrosives-bases storage, other hazardous materials storage, flammable waste storage, and chemical waste storage refer to Wood Laboratory Casework specification (Section 123553.19).
- F. Each cabinet designed for reagent of waste storage shall have self-closing devices.

**12 3553.19 – WOOD LABORATORY CASEWORK**

- A. Wood is preferred over metal for general use, although in some projects metal may be appropriate.
- B. For casework for hazardous materials storage refer to Metal Laboratory Casework specification (Section 123553.13).
- C. Specify the appropriate work surface compatible with the specific use of the laboratory: review in detail with the users and UND PM.
- D. When the Project is of significant complexity, a Laboratory Consultant shall be contracted by the Architect.
- E. Review Educational and Institutional Cooperative preferred Vendors with UND PM.
- F. Comply with the most recent edition of the Uniform Fire Code (UFC) and/or the International Fire Code (IFC) as directed by the local Code Officials for Hazardous Materials cabinetry.
- G. Every laboratory shall have at least one (1) and no more than (3) flammable liquid storage cabinets. The number of flammable liquid storage cabinets shall be determined by program design, but shall never be less than 1. The size of flammable liquid storage cabinets shall be determined by program design. Flammable liquid storage cabinets shall be clearly marked. In the absence of specific wording from applicable standards, flammable liquids storage cabinets shall be marked "FLAMMABLE LIQUIDS - KEEP FIRE AWAY," or other language as approved by UND PM and the UND Safety Office.
- H. Laboratories in which program design has noted use or potential use of acidic materials shall have at least one wooden cabinet lined with sacrificial sheet goods (1/4" Resisto-Rock, e.g.) for acid storage. The size of acid storage cabinets shall be determined by program design. Acid cabinets shall be clearly marked in accordance with the applicable standard. In the absence of specific wording applicable standards, acid storage cabinets shall be marked "CORROSIVES-ACIDS," or other language as approved by UND PM and the UND Safety Office.
- I. Laboratories in which program design has noted use or potential use of basic materials shall have at least one wooden cabinet, physically distinct and separate from any acid or flammable liquid cabinets, for base storage. The size of base storage cabinets shall be determined by program design. Base cabinets shall be clearly marked in accordance with applicable standard. In the absence of specific wording applicable standards, base storage cabinets shall be marked "CORROSIVES-BASES," or other language as approved by UND PM and the UND Safety Office.
- J. Laboratories in which program design has noted use or potential use of any hazardous material shall have at least two cabinets for storage of hazardous and non-hazardous chemical wastes. The size of these storage cabinets shall be determined by program design. These cabinets shall be vented, except as approved by UND PM and the UND Safety Office. At least one of these cabinets shall be constructed of wood. At least one of these cabinets shall meet or exceed requirements for flammable liquid storage cabinets.
- K. Hazardous waste storage cabinets shall be clearly marked in accordance with applicable standard. In the absence of specific wording, hazardous flammable waste storage cabinets shall be marked "FLAMMABLE

October 15, 2023

University of North Dakota

WASTE STORAGE - KEEP FIRE AWAY," or other language as approved by Facilities Management and the UND Safety Office. Other chemical waste cabinets shall be clearly marked in accordance applicable standard. In the absence of specific wording from UFC, IFC or other applicable standard, chemical waste storage cabinets shall be marked "CHEMICAL WASTE STORAGE," or other language as approved by UND PM and the UND Safety Office.

- L. Each cabinet designed for liquid reagent or waste storage shall include a bottom that is liquid tight to a depth of 2 inches.
- M. Each cabinet designed for reagent or waste storage shall include a self-latching mechanism and locking mechanism. At least two keys shall be provided to UND PM.
- N. Each cabinet designed for reagent of waste storage shall have self-closing devices.

**12 3600– COUNTERTOPS**

- A. Solid surfacing counters are preferred in kitchens if budget allows otherwise plastic laminate counters shall be used. Must be approved by UND PM.
- B. Solid surfacing counters shall be used in bathrooms.

**12 4813 – ENTRANCE FLOOR MATS AND FRAMES**

- A. A walk-off entry mat is required at all building entrances to reduce soil tracking.
- B. The designer shall review needs with UND PM.

**12 6100 –FIXED AUDIENCE SEATING**

- A. The type, configuration and count shall be reviewed with UND PM during the design progress and the layout of the seating shall be indicated on the drawings.
- B. In Lecture Hall and Auditorium projects, the Architect shall provide the expertise and drawings to assure that optimum sight lines are maintained with the seating layout. Samples of the seating shall be inspected before finalizing the design.
- C. Review Educational and Institutional Cooperative preferred Vendors with UND PM.
- D. Low VOC and urea-formaldehyde content materials shall be considered as applicable and within the budgetary constraints.

**12 6613 –TELESCOPING BLEACHERS**

- A. Provide wheelchair-accessible seating as required.
- B. Provide slip-resistant, abrasive tread at aisles.
- C. Wheels shall be non-marring and incorporate a locking mechanism to prevent movement during use.

**12 9300 –SITE FURNISHINGS**

- A. Items included in this Section:
  - 1. Trash receptacles
  - 2. Planters
  - 3. Bollards
- B. Items under this section may be included in the FFE budget. Consult with UND PM.
- C. A schematic furniture layout shall be included in the Architect's Scope of Work for the purposes of verifying the space planning and coordination of related electrical, communications, equipment, etc. The schematic layout shall be included in the Design Development Submittal.
- D. Review Educational and Institutional Cooperative preferred Vendors with UND PM.

**12 9313 –BICYCLE RACKS**

- A. Frame, Style and Security features shall be consistent with existing design.
- B. Material finish shall be non-corrosive.

END OF DIVISION 12