

SPECIALTIES

This section of the Washington University School of Medicine (WUSM) Design Standards addresses the following requirements for Specialties and its application in WUSM projects:

VISUAL DISPLAY SURFACES
SIGNAGE
TOILET PARTITIONS
OPERABLE WALLS
CORNER AND WALL GUARDS
TOILET ROOM ACCESSORIES
FIRE EXTINGUISHERS AND CABINETS
LOCKERS

References:

[Americans with Disabilities Act \(ADA\)](#)
[Architectural Barriers Act \(ABA\) Accessibility Guidelines for Buildings and Facilities](#)
[International Code Council \(ICC\)](#)
[American National Standards Institute \(ANSI\)](#)
[City of St. Louis Ordinances](#)

Standards References:

[ACCESSIBILITY / UNIVERSAL DESIGN](#)
[EH&S](#)
[EMERGENCY EVACUTATION MAPS](#) under [EMERGENCY PREPAREDNESS](#)
[FIRE EXTINGUISHERS](#) under [EMERGENCY PREPAREDNESS](#)
[FIBERGLASS REINFORCED PANELS](#) under [FINISHES](#)
[DRY-ERASE COATINGS](#) under [FINISHES](#)

VISUAL DISPLAY SURFACES

DESIGN GUIDELINES

1. Porcelain Enamel Marker Boards shall be standard in Conference Rooms, Training Rooms, and Classrooms.
2. Glass or Acrylic / Magnetic Marker Boards may be appropriate for some Conference Rooms. Review proposed type with WUSM Project Manager.
3. Dry-Erase Coatings may be proposed by Architect and approved by WUSM Capital Projects. See [FINISHES](#).

PRODUCT REQUIREMENTS

1. Marker boards shall be erasable dry-type for liquid-type markers. Wall covering marker surfaces shall be by exception only.
2. Acceptable manufacturers shall include:
 - a. Best-Rite Manufacturing.
 - b. Claridge Products and Equipment.
 - c. PolyVision Corporation.
3. Marker board assembly shall consist of backing sheet, core material, and porcelain-enamel sheet with gloss finish.
 - a. Face Sheet: 0.0209- to 0.0240-inch "Vitracite" porcelain enamel clad, Type 1, stretcher-leveled aluminized-steel face sheet.
 - b. Core: 3/8-inch thick particle board (non-urea-formaldehyde) with backing.
 - c. Backing Sheet: 0.015-inch thick aluminum sheet.
 - d. Adhesive: Moisture resistant thermoplastic-type adhesive.
4. Trim shall be aluminum with mitered corners.
5. Marker tray shall be continuous aluminum, box-type with slanted front and cast aluminum end closures.

INSTALLATION

1. Marker board perimeter lines shall be straight, plumb, and level.

SIGNAGE

GENERAL

1. All signage shall be coordinated by Owner. Review signage requirements and locations for Department or Suite entrances with WUSM Project Manager. Additional signage, such as donor plaques, should be reviewed early in the design process with WUSM Capital Projects.

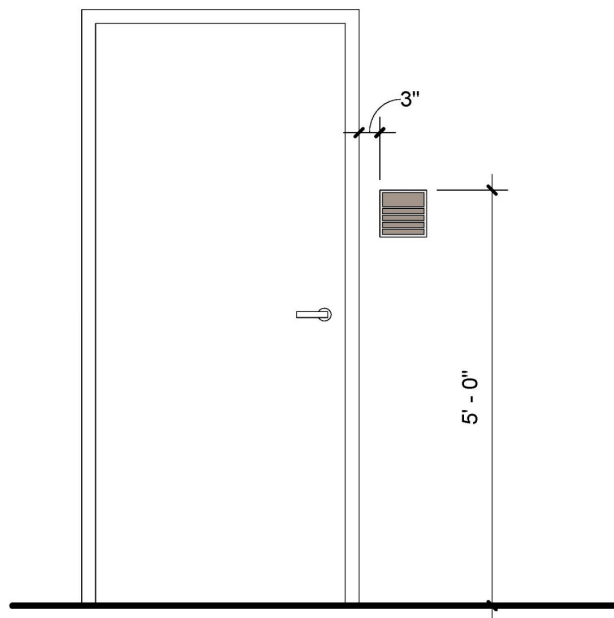
2. New buildings shall follow building codes of Authorities Having Jurisdiction (AHJ) and ADA requirements for building signage. Renovation projects shall be addressed on a case-by-case basis.
3. Environmental Health and Safety (EH&S) signs shall be installed as required by state and federal regulations. These signs shall comply with all governmental regulations as to text, and graphics, including style, size and color.
4. See [EMERGENCY EVACUTATION MAPS](#) under [EMERGENCY PREPAREDNESS](#) for product and installation requirements on evacuation and emergency procedures. Architect to coordinate available space for signage in required locations.

PRODUCT REQUIREMENTS

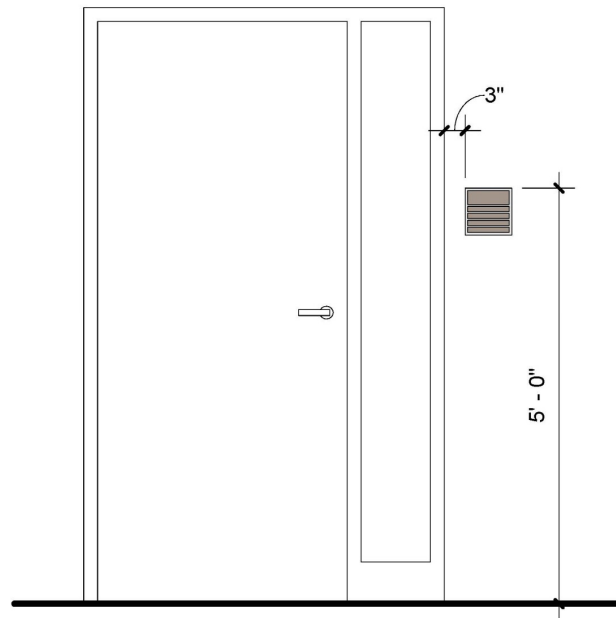
1. Signs shall be dimensional, stand-alone letters or printed metal plaques.

INSTALLATION

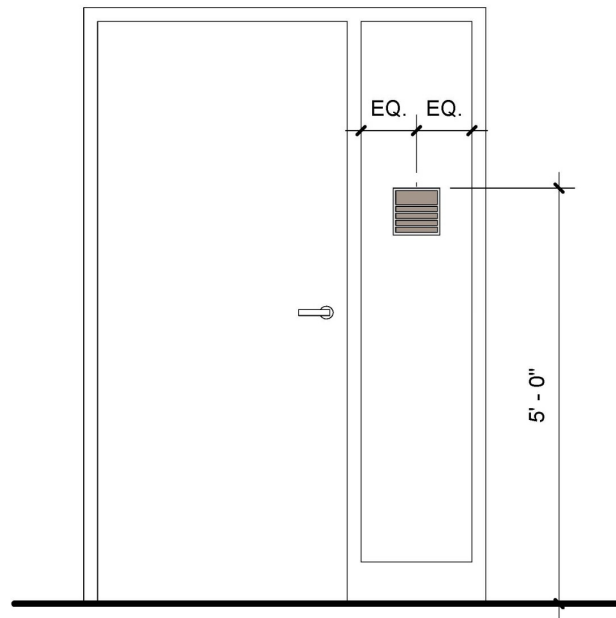
1. No signs shall be installed on doors or on glass sidelites unless there is no other option available. Where space is not available on the latch side of the door, use the following locations in order of preference: hinge side of the door, nearest wall adjacent to the door latch, or on door.
2. Room and department signs shall be affixed to the wall, on the latch side, to the extent possible. The top of the sign shall be 60 inches above finished floor. Maintain a distance of 3" between the edge of the sign and the door frame. (See figure below.)



3. When the entry door has an adjacent sidelite with a width of 12" or less, signs shall be affixed to the wall adjacent to the sidelite to the extent possible. The top of the sign shall be 60 inches above finished floor. Maintain a distance of 3" between the edge of the sign and the door frame. (See figure below.)



4. When the entry door has an adjacent sidelite with a width between 12" and 18", the sign shall be located in the center of the glass. The top of the sign shall be 60 inches above finished floor. (See figure below.) If the adjacent sidelite is wider than 18", maintain a distance of 3" between the edge of the sign and the door frame. Install signs on clean surface with adhesive tape. WUSM Project Manager to confirm installation method with BJC Sign Shop.



TOILET PARTITIONS

DESIGN GUIDELINES

1. Toilet compartments and screens shall be used at multi-stall restrooms.
2. Ceiling mounted toilet partitions shall be used at toilet compartments and wall mounted screens shall be used at urinals. Floor mounted, floor mounted overhead braced, and floor to ceiling mounted toilet partitions shall be by exception only. Review toilet partition system with WUSM Project Manager.

PRODUCT REQUIREMENTS

1. Partitions and screens shall be metal with a baked enamel or powder-coated finish. Stainless steel, solid plastic, plastic laminate, or phenolic-core shall be by exception only.
2. Toilet compartments shall be between 30- and 36-inches wide and accessible toilet compartments shall be 60-inches wide.
3. Doors shall be 24-inches wide in-swinging at toilet compartments and 36-inches wide (32-inch clear opening) out-swinging at accessible toilet compartments.
4. Door hardware shall include hinges, latch and keeper, coat hook and door stop, and door pull.
5. Ceiling mounted toilet partitions require pre-installed structural ceiling support and are not recommended for ceiling heights over 8-feet.

INSTALLATION

1. Toilet compartments designated as accessible shall comply with applicable provisions in the [“Americans with Disabilities Act \(ADA\) and Architectural Barriers Act \(ABA\) Accessibility Guidelines for Buildings and Facilities, ICC/ANSI A117.1](#), and written directives from the [City of St. Louis](#) or other AHJ’s.
2. Clearance between pilasters and panels shall be not more than 1/2-inch. Clearance between panels and walls shall not be more than 1-inch.
3. In-swinging doors shall be set to hold open approximately 30 degrees from closed position when unlatched. Out-swinging doors shall be set to return to the fully closed position.

OPERABLE WALLS

DESIGN GUIDELINES

1. Operable walls shall be used by exception only.

CORNER AND WALL GUARDS

DESIGN GUIDELINES

1. Corner guards shall be standard in all Public Areas, Maintenance Areas, Housekeeping Areas, and Service Areas subject to impact by cart traffic.

2. Wall guards shall be standard in Animal Quarters and Service Areas subject to damage by carts and cage racks.

PRODUCT REQUIREMENTS

1. Corner guards in Public Areas shall be surface mounted. Recessed corner guards shall be by exception only.
 - a. Manufacturer: Acrovyn by Construction Specialties or approved equal.
 - b. Material: Vinyl.
 - c. Height: 48-inches typical and set on top of wall base. Other heights may be permitted but must be approved by WUSM Project Manager.
 - d. Face Width: 3-inches.
2. Corner guards in Maintenance Areas, Housekeeping Areas, Service Areas and Animal Quarters shall be surface mounted.
 - a. Manufacturer: Construction Specialties or approved equal.
 - b. Material: Stainless steel, 18 gauge with satin finish.
 - c. Height: 48-inches minimum and set on top of wall base. Full height corner guards shall be used at animal quarters for maximum protection from rolling carts and equipment.
 - d. Face Width: 3-inches.
3. Wall guards in Service Areas and Animal Quarters shall be surface mounted.
 - a. Manufacturer: Construction Specialties or approved equal.
 - b. Material: Stainless steel with satin finish.
 - c. Height: 4-inches.
 - d. Ends: 2-inch radius.
 - e. Brackets: Tubes.
4. Wall protection sheets may be appropriate in some areas. See [FIBERGLASS REINFORCED PANELS](#) under [FINISHES](#).

INSTALLATION

1. Secure vinyl corner guards with aluminum retainers to wall substrate with mechanical fasteners. Adjust top and bottom trim caps as required to ensure tight seams.
2. Secure stainless steel corner guards to wall surface with double sided adhesive strips to withstand imposed loads.
3. Secure stainless steel wall guards to wall surface with concealed fastening.

TOILET ROOM ACCESSORIES

DESIGN GUIDELINES

1. Toilet room accessories shall be provided at all public restrooms. Private toilets shall be designed to be ADA compliant with the exception of the installation of grab bars at the toilet. Provide blocking in walls for future grab bar installation. All other fixtures and accessories to be compliant.

EQUIPMENT AND PRODUCT REQUIREMENTS

1. Accessories shall be furnished and installed as follows:

Accessory	Furnished by	Installed by
Soap Dispenser	Owner	Contractor
Toilet Tissue Dispenser	Owner	Contractor
Paper Towel Dispenser	Owner	Contractor
Trash and Waste Containers (loose)	Contractor	Contractor
Grab Bars	Contractor	Contractor
Framed Mirrors	Contractor	Contractor
Unframed Mirrors	Contractor	Contractor
Baby Changing Station	Contractor	Contractor
Accessible Shower Seat	Contractor	Contractor
Underlavatory Guards	Contractor	Contractor
Shower Curtain and Rod	Contractor	Contractor
Coat Hooks	Contractor	Contractor

2. Provide baby changing stations in all multi-stall public restrooms (Men's and Women's) and single accommodation rest rooms in public areas. Built-in baby changing stations shall be by exception only. Built-in baby changing stations shall be of same material as lavatory counter.
3. Underlavatory guards shall be installed at supply and drain assemblies intended for use at accessible wall mounted lavatories.
4. Shower curtains shall be hookless by On the Right Track Systems, Inc. Shower receptor shall extend 6-inches beyond shower curtain.
5. Sanitary napkin disposals and recessed paper towel dispensers and disposals shall be by exception only.
6. Toilet seat cover dispensers and sanitary napkin dispensers shall not be provided.
7. Paper towel dispensers and soap dispenser in laboratories shall be furnished by and installed by Contractor.
8. Install coat hooks on private office doors, exam room doors, and single-stall restroom doors at 5'-0" AFF. A second hook will be installed within ADA reach range as required in the future.
9. Consider unframed wall mirrors that are installed from the backsplash to a height approximately 7-feet above finished floor in lieu of framed mirrors. Full wall mirrors can accommodate users of varied heights and abilities.

INSTALLATION

1. Toilet accessories shall be installed in compliance with applicable provisions in the "Americans with Disabilities Act (ADA) and Architectural Barriers Act (ABA) Accessibility Guidelines for Buildings and Facilities, ICC/ANSI A117.1, and written directives from the City of St. Louis.

FIRE EXTINGUISHERS AND CABINETS

DESIGN GUIDELINES

1. Fire extinguisher cabinets shall be fully recessed with metal doors. Doors shall have vertical duo glazing. Semi-recessed shall be allowed by exception only. Typically, perimeter extinguishers are reviewed by WUSM Capital Projects and specialty extinguishers within laboratories are reviewed by [EH&S](#).

EQUIPMENT AND PRODUCT REQUIREMENTS

1. Basis of design product shall be Larsen's Manufacturer Company "Architectural" and "Architectural Fire-Rated" fire extinguisher cabinets.
2. Other acceptable manufacturers shall include:
 - a. J.L. Industries, Inc.
 - b. Kidde Residential and Commercial Division.
 - c. Potter Roemer LLC.
3. Cabinet construction shall be non-rated, 1-hour fire rated, or 2-hour fire rated as appropriate to the wall construction in which the cabinet is installed.
4. Cabinet material shall be enameled-steel sheet.
5. Cabinet box shall be recessed in walls of sufficient depth for exposed flat trim.
 - a. Exposed flat trim shall consist of one-piece combination trim and perimeter door frame overlapping surrounding wall surface with exposed trim face and wall return at outer edge (backbend of 1/2-inch).
6. Cabinet trim material shall be the same material and finish as door.
7. Door material shall be steel sheet.
8. Door style shall be vertical duo glazed panel with frame.
9. Door glazing shall be clear transparent acrylic sheet or tempered glass.
10. Door hardware shall include recessed door pull and roller catch latch. Hinge shall be manufacturer's standard permitting door to open 180 degrees.
11. Accessories:
 - a. Mounting bracket shall be manufacturer's standard steel bracket to secure fire extinguisher to cabinet of size required for type and capacities of fire extinguishers.
12. Finishes:
 - a. Finish shall be manufacturer's standard baked-enamel paint for door, cabinet, and trim.
 - b. Color shall be white:
13. Identification shall be lettering that complies with authorities having jurisdiction for letter style, size, spacing, and location.
 - a. Lettering location shall be on cabinet door.
 - b. Lettering orientation shall be vertical.

c. Lettering color shall be red.

14. Type of fire extinguisher and supplier shall be verified with WUSM Capital Projects or [EH&S](#).

INSTALLATION

1. Fasten cabinets to structure square and plumb.
2. A fire extinguisher shall be provided for each cabinet.

LOCKERS

DESIGN GUIDELINES

1. All metal lockers shall be surface mounted metal with a baked enamel finish.
2. Plastic laminate lockers are permitted in some locations as approved by WUSM Project Manager.

EQUIPMENT AND PRODUCT REQUIREMENTS

1. Locker construction shall be welded or knock-down.
2. Locker Accessories:
 - a. Number plates shall be manufacturer's standard embossed or stamped nonferrous-metal with numerals not less than 3/8-inch high. Lockers shall be numbered in sequence.
3. Verify size and types and locking requirements for all lockers with User Group and WUSM Project Manager.
4. Locker Benches:
 - a. Bench tops shall be manufacturer's standard 1-piece units of laminated maple approximately 9-1/2-inches wide by 1-1/4-inches thick. All corners shall be rounded. Bench tops shall be sealed.
 - b. Pedestals shall be manufacturer's standard steel pedestal supports furnish with all fastenings and anchorages. Finish shall be manufacturer's standard baked-enamel.

INSTALLATION

1. Metal lockers shall be installed complete with accessories according to manufacturer's recommendations.
2. Locker groups shall be connected together with standard concealed fasteners.
3. Lockers shall be anchored to floor and wall as recommended by manufacturer using concealed fasteners.
4. Sloping top units and boxed end panels shall be installed with concealed fasteners.