

PORTLAND PUBLIC SCHOOLS
TECHNICAL DESIGN AND CONSTRUCTION STANDARDS

DIVISION 12 - FURNISHINGS

Coordinate with the PPS project representative to ensure alignment with the PPS Education Specifications and all student program support requirements. Deviations may be considered from these requirements if the result provides a safe and equitable student environment. Deviations must be approved in writing by the PPS including but not limited to PPS Office of Technology and Information Services (OTIS) and Real Estate and Construction.

12-00-00 Furnishings

- A. Furniture layouts by qualified consultants are required on all projects. Coordinate with the District project representative, project manager, or director to base layout on actual furniture to be procured.
- B. The District will provide all furniture, unless otherwise directed.
- C. Furniture should be inclusive and adaptable for different users, comfortable, varied, low maintenance, and durable.
- D. Furniture seating shall allow for movement while seated (i.e. pivoting, rocking, cantilever, etc.).
- E. LEED for Schools Low-Emitting Materials requirements: New furniture and furnishing items must be tested in compliance with ANSI/BIFMA Standard Method M7.1 (VOC Emissions). Comply with ANSI/BIFMA e3 (Furniture Sustainability Standard), Sections 7.6.1 and 7.6.2, using either the concentration modeling approach or the emissions factor approach. Model the test results using the open plan, private office, or seating scenario in ANSI/BIFMA M7.1, as appropriate. For classroom furniture, use the standard school classroom model in CDPH Standard Method v1.1. Documentation submitted for furniture must indicate the modeling scenario used to determine compliance. SCS Indoor Advantage and SCS Indoor Advantage and Gold are acceptable certifications to demonstrate compliance.
- F. Salvaged and reused furniture more than one year old at the time of use is considered compliant, provided it meets the requirements for any site-applied paints, coatings, adhesives, and sealants.
- G. All soft furnishings is required to be fireproof and retain proof of fireproofing. Provide documentation that furniture meets ASTM E1590 Heat Release Rate. All furnishings are required to meet this and all other jurisdictional requirements.

12-10-00 Art

- A. Preserve and protect art during construction. Coordinate with PPS Facilities to review and approve all construction and moving activities which may affect District art.
- B. Art is required to be de-mountable.

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12-20-00 Window Treatment

- A. Typically, provide monolithic horizontal, heavy duty, commercial, manual or power operated shades. Operation by metal bead chain pull where allowed by the jurisdiction to include chain guides mechanically fastened according to the shade manufacturer's directions at the jamb.
- B. For all interior windows (relites) and for all exterior windows to spaces on the ground floor (or the line-of-sight in the public right of way), provide 0% openness shades with continuous jamb channels.
- C. Shade supports, valance, and other shade accessories to be mechanically fastened with the shade manufacturer's approved hardware to framing or continuous backing approved for that purpose.
- D. Shade fabric to be standard shade cloth width.
- E. PVC free roller shades preferred. Example manufacturers: Hunter Douglas, Nysan Interior Shades, Mechoshade, Draper, and Roll-A-Shade.
- F. Do not provide vertical or horizontal blinds.

12-21-13 Horizontal Roller Shades

- A. These are the shade requirements for new buildings and for major renovations, spaces where shades do not exist, or where existing shades or blinds are being replaced.
- B. If adjacent rooms have vertical or horizontal blinds, consider using horizontal roller shades with similar appearance for consistency on the building exterior.
- C. Opacity for shades on exterior windows to spaces above the ground floor (or outside the public line-of-sight) should be coordinated with daylight harvesting design and glare control needs.
- D. Provide manual operation unless powered operation is approved.
- E. Shades with cordless or inaccessible cord operation:
 - 1. If inaccessible cord operation is specified, comply with jurisdictional regulations for the system configuration including but not limited to providing cord shrouds, bead chain restraining devices, or retractable cords.
- F. At 0% openness shade locations, provide shade manufacturer's jamb channels for the full operable height of the shade or install shades within the depth of the window jamb in order to eliminate openings between the edge of the shade and surrounding window frame and to fully obstruct views into the room when the shade is deployed.

12-22-00 Curtain and Drapes

- A. Curtains are not recommended. Where replacing to match existing, ensure fire resistance requirements, including for treatment documentation, are met.

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12-40-00 Accessories

- A. File cabinets
 - 1. Letter or legal, locking or non-locking, 2 or 4 drawers.

12-48-00 Audio-Visual Equipment

- A. Projector screens
 - 1. Pull-down projector screens for ultra-short-throw projectors shall have a flat surface designed to support the sharp angle of the projected image (e.g., tab-tensioned screens) and support a 100" diagonal projected image. Coordinate with the requirements of Division 10, Division 27, and with the PPS Office of Technology and Information Services.

12-48-13 Entrance Floor Mats and Frames

- A. Provide walk off mats at all entrances to the building.
 - 1. Primary entrances include:
 - a. Public entrances
 - b. Staff entrances from parking lots.
 - c. Entrances from playgrounds, auxiliary buildings and athletic fields
 - 2. Secondary entrances include:
 - a. Back doors to classrooms, modulars
 - b. Service and maintenance doors
- B. At primary entrances size to be full width of opening and a minimum of 10 feet in the direction of travel (20 feet preferred).
- C. When possible, recess into the floor. Where not possible, provide aluminum frame meeting ADA requirements.
- D. Provide carpet with minimum 30 oz/sy weight.
- E. Walk off mats shall be removable and/or easily cleanable in place.
- F. Example products:
 - 1. Outdoor mats: Milliken Obex Prior or Terga
 - 2. Indoor mats: Milliken Obex Terga or Forma mats or Waterhog Classic (waffle pattern).

12-50-00 Furniture

Modernized and new school construction:

Please contact the PPS project manager for the latest information on the PPS Furniture Standards.

Pre-k to 8th grade Student Chair

The District currently uses the Scholar Craft series 150 solid plastic stack chair see colors are sizes on chart below.

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Chair Features:

- solid plastic seat back with handle
- color by size (see chart)
- steel glides (depends on floor finish)
- lumbar flex seat design
- stackable to 5 or 6 chairs
- no book pocket or ganging

Use	Seat height	Color	Weight
Pre- k	11.5	Red or Navy	14lb
K-1	13.5	Navy	14lb
2nd - 4th	15.5	gold or burgundy	16lb
5th - HS	17.5	Navy or brown	16lb
science lab	17.5	Navy	16lb
music room	17.5	Navy	16lb
computer lab	17.5	Navy	16lb

High School and Science Lab (Middle School, K-8) Chair

The District currently uses Artco-Bell Discover product number D10A
18" seat height, steel glides, navy seat, char dark gray frame (2013)

Chair Features:

- solid plastic seat back with handle
- navy seat color
- steel glides
- lumbar flex seat design
- stackable to 5 or 6 chairs
- no book pocket or ganging

Student Desk and Activity Table Standard

The District currently uses Virco series 7900 single and double desks, chrome and black legs, medium oak laminate top finish. Current sizes are single student desks, double student desks, half-moon group tables (36" x 72") 6-Place tables (36" x 72"), side or computer tables (30" x "72) (2013)

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Desk/Table Features:

- Plywood top w/ high pressure finish
- Clear edge finish, no banding
- 40 pound weight limit for double student desks
- 20 pound weight limit for Single student desks
- 90 pound weight limit for 6 place tables (36" x 72")
- No book pocket on activity tables
- Adjustable legs (22" to 30")
- Adjustable legs (36" to 44")

Features that have been a problem in the past:

- rubber type trim as a finished edge (peels)
- laminate over particle board (very heavy)
- other leg styles (hard to clean around, not sturdy)

High School Combination Desk Standard

The District currently uses a variety of Virco and Scholar craft products. If more were purchased the best match for current inventory is the Scholar Craft 650 series desk, navy seat, 17.5" seat height, flat desktop (rectangle shape and pallet size).

- A. 4 student science table – solid black chemical resistant top, solid wood base without book storage pockets each side, used with standard height chairs (17.5" – 18" seat height)
 - 1. No plastic laminate tables only allowed with prior District approval due to durability and scratching issues.

Music Equipment Requirements:

- A. Manhasset Music Stands: Model M48
- B. Manhasset Storage Cart Model 1910
- C. Manhasset conductor stand: model 1401
- D. Wenger Band Chairs: Student chair (there are different sizes for different age levels).
- E. Wenger choir risers: 098D053 3-step Signature Riser, 203 lbs (92 kg) + 098D541 Siderails, Set of 2, 62 lbs (28 kg)

12-61-00 Fixed Auditorium Seating

- A. Seating should be durable and easy to clean and maintain using the District's standard cleaning products and equipment.
- B. Define system components, fabrication and installation requirements for fixed seating and seating accessories in Auditorium.

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- C. Seating width shall use default width of 21", with 22" and 20" width allowed in order of preference to allow alignment of row ends. 19" wide seats shall be allowed only where completely unavoidable to align row ends.
- D. Seats may be gravity lift to 3/4 vertical, with pushback pressure hinge to 100% vertical. If spring assist lift is specified, then the specified models for all approved manufacturers shall be confirmed available and durable as spring assisted.
- E. Chairs shall be fully padded and upholstered for comfort. Minimum 2" back and minimum 3" seat bottom. Ergo foam is acceptable in lieu of serpentine spring foundation.
- F. Aisle End chairs shall have integral warm white LED aisle lighting fixtures for IBC .2FC compliance.
- G. Layout shall comply with the latest jurisdictional requirements for accessibility. As of 2025, OSSC and ANSI 117.1 serve as the governing standards.
- H. Basis of Design shall include not less than, but not significantly in excess of:
 - 1. Irwin "Citation"
 - 2. Seating Concepts BT250 Producer"
 - 3. Hussey Seating "Quattro Plush"

12-66-13 Telescoping Bleachers

- A. Gymnasium Bleachers
 - 1. Motorized telescopic type.
 - 2. Seats and enclosure materials: recycled plastic bench seating or wood. Wood preferred.
 - 3. Provide accessible seating and stairs/railings in accordance with jurisdictional accessibility requirements. Provide non-slip surface and contrasting edges.
 - 4. The outer edge handrails are to be permanently mounted to aisles and not removable.
 - 5. All other rails to be removable for the middle sections.
 - 6. End rails shall meet strength, height and pickets to meet guardrail requirements and shall also be permanently mounted.
 - 7. Provide rounded/curved edges both above and below in undercarriage to prevent possible injury.
 - 8. Provide front and side skirt boards in all locations where there is an exposed end to prevent players/balls from sliding underneath the 1st Row.
 - 9. Ensure wheels are sized to prevent marring flooring. Coordinate the manufacturer's recommendations and requirements for bleacher operation with the floor finish system.

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10. Provide power operators with heavy duty motor or gear drives.
11. Provide metal cover over motor and wheels to protect chains from debris and provide a safety switch that if cover is taken off the power system will not work.
12. Integral safety switches with auto stop feature.
13. Pendant controls.
14. Mechanical / electrical locking system, "Schlage" keyed to building master.
15. Provide for audio/visual systems integration - Coordinate with District Athletics, IT and Electronics for location and type.
16. Provide minimum 5-year warranty including moving parts.
17. Example manufacturer - "Hussey" Seating Co., Irwin Telescoping Seating Company and Sheridan. Interkal, for self-storing aisle rail.

12-93-00 Site Furnishings

A. Site Furnishings

1. General:

- a. All site furnishings are required to be reviewed and approved by the District prior to procurement.
- b. Use recycled, local, and sustainable materials when possible.
- c. All site furnishings located in a lawn shall sit on a concrete pad that acts as a mow strip.

2. Picnic Tables and benches must meet jurisdictional requirements for accessibility.

3. Trash and Recycling receptacles may only be provided with District approval. They are required to be chained down or permanently installed.

B. Fencing, Gates, and Bollards see 32-31-13