SECTION 10 51 16
LAMINATE ATHLETIC LOCKERS

> *SPECIFIER NOTE: This is a guide specification for Fieldhouse athletic lockers, designed by Joynn'd. It has not been coordinated with a project. Delete all specifier notes before issue. Dimensions and free-area figures are generated from the same drawing model as the Fieldhouse drawings and packages; confirm against approved shop drawings before construction.*

> *SPECIFIER NOTE: The Fieldhouse line is design intent pending the manufacturer's confirmation. Sizes, materials, warranty and certifications are confirmed with Hamilton Casework Solutions for each project before they are specified.*

> *SPECIFIER NOTE: SECTION PLACEMENT is not settled. High-pressure laminate lockers over a wood core sit most naturally under 10 51 16 Wood Lockers. Where the wet-environment type is specified, consider 10 51 26 Phenolic Lockers for that type. Where the work is procured as architectural casework rather than as lockers, Division 12 may be the correct home. Confirm with the specifier of record.*

PART 1 — GENERAL

1.1 SUMMARY

A. Section includes factory-fabricated laminate athletic lockers, integrated benches, bases, finished end panels, kickplates, fillers, number tags and locker hardware.

B. Locker types specified in this section:

1. T1 SPRINT — Sports that travel light.
2. T2 DECK — Wet-environment locker.
3. T3 ANCHOR — Court and field — the core locker.
4. T4 GAUNTLET — Bulk gear locker.
5. T5 ROTATION — Shared & day-use locker.

1.2 RELATED REQUIREMENTS

A. Section [06 10 00 Rough Carpentry] — wall blocking and backing for locker anchorage.

B. Section [09 65 00 Resilient Flooring] — floor finish beneath and around locker runs.

C. Division 22 — floor drainage in wet locker areas.

D. Division 23 — locker room general exhaust and any duct connection to lockers.

E. Division 26 — power for charging outlets and electrified locks where specified.

> *SPECIFIER NOTE: Division 23 coordination matters even where no duct connects to the lockers. Room exhaust is what changes the air; the free-area figures in 2.7 are provided so the mechanical engineer can size it.*

1.3 REFERENCE STANDARDS

A. ANSI/BIFMA — furniture performance, where applicable to seating and benches.

B. AWI/AWMAC/WI Architectural Woodwork Standards — casework construction and tolerances.

C. NEMA LD 3 — high-pressure decorative laminates.

D. EPA TSCA Title VI and CARB ATCM 93120 — formaldehyde emissions from composite wood.

E. ICC A117.1 and the Americans with Disabilities Act Standards for Accessible Design — accessible lockers and reach ranges.

1.4 SUBMITTALS

A. Product data for each locker type, accessory and finish.

B. Shop drawings, including:

1. Plans showing locker runs, room dimensions and clear aisles.
2. Elevations of each locker type and of each bank, with opening counts.
3. Sections showing shelf, rod and hook heights above finished floor.
4. Base, end panel, filler and anchorage details.
5. Location and quantity of accessible openings, with clear floor space indicated.

C. Samples:

1. Laminate color samples for body, front and edge banding, [200 × 250 mm] [8 × 10 inch] minimum.
2. Edge banding sample, 300 mm (12 inch) length.

D. Free area calculations for each specified locker type, expressed as a percentage of gross face area and as open area per opening.

E. Manufacturer's warranty for the specified product.

F. Maintenance data covering cleaning, hardware adjustment and lock administration.

> *SPECIFIER NOTE: Care and maintenance data and installation instructions are provided by the manufacturer with the submittal for each project.*

1.5 QUALITY ASSURANCE

A. Manufacturer: a firm regularly engaged in the fabrication of laminate lockers with not less than [10] years of documented experience.

B. Single source: provide lockers, benches, bases, trim and accessories from one manufacturer.

C. Mock-up: where required, provide one complete locker of each specified type for review. [Approved mock-up may remain as part of the work.]

1.6 DELIVERY, STORAGE AND HANDLING

A. Do not deliver lockers until the building is enclosed, wet work is complete and dry, and permanent HVAC is operating.

B. Store in a dry, conditioned space, flat and off the floor, protected from moisture and physical damage.

C. Allow materials to acclimate to installation-area conditions for not less than [48] hours before installation.

1.7 FIELD CONDITIONS

A. Maintain ambient conditions between [15 and 30 degrees C] [60 and 85 degrees F] and relative humidity between [25 and 55] percent during and after installation.

B. Field-verify dimensions of locker recesses, alcoves and wall runs before fabrication.

1.8 WARRANTY

A. Manufacturer's standard written warranty for the specified product, [term as stated by the manufacturer].

B. Locks, electronic components and moving hardware are warranted separately in accordance with the component manufacturer's terms.

> *SPECIFIER NOTE: Confirm the warranty term with the manufacturer for each project. It is not stated here because the Fieldhouse line has not yet been confirmed by the manufacturer.*

PART 2 — PRODUCTS

2.1 MANUFACTURERS

A. Basis of design: Fieldhouse athletic lockers, designed by Joynn'd, manufactured by Hamilton Casework Solutions.

B. Substitutions: [in accordance with Section 01 25 00] [not permitted].

2.2 LOCKER TYPES

A. Provide the locker types scheduled below. Carcass height excludes the base and the nameplate header; overall height includes them.

TYPE	WIDTHS	DEPTH	CARCASS HEIGHT	OVERALL	FRONT
T1 SPRINT	12", 15"	18", 20"	72"	80"	Open
T2 DECK	12", 15"	18", 20"	64"	72"	Open, vented
T3 ANCHOR	18", 24"	20"	72"	80"	Open
T4 GAUNTLET	24", 30"	24"	72"	80"	Open
T5 ROTATION	12", 15", 18"	18"	72"	76"	Doors

> *SPECIFIER NOTE: Widths of 24 inches and 30 inches and the 24 inch depth are outside the manufacturer's standard locker platform (widths 12, 15 and 18 inches; depths 15, 18 and 20 inches) and are built to order. Confirm cost and lead time with the manufacturer before specifying them.*

B. Standard features by type:

1. T1 SPRINT:
    a. Open cubby at the base, 0" to 14" above finished floor.
    b. Cubby top shelf, located 14" above finished floor.
    c. Open storage, 14" to 44" above finished floor.
    d. Hanging zone, 44" to 60" above finished floor.
    e. Jersey rod, located 56" above finished floor.
    f. Top shelf, located 60" above finished floor.
    g. Lockable valuables cabinet, 60" to 72" above finished floor.
    h. Coat hooks — two side walls, one back, located 54" above finished floor.
2. T2 DECK:
    a. Open cubby — nothing across the front of it, 0" to 14" above finished floor.
    b. Cubby top shelf, located 14" above finished floor.
    c. Open storage, 14" to 40" above finished floor.
    d. Open hang zone, 40" to 52" above finished floor.
    e. Coat hooks — two side walls, one back, located 44" above finished floor.
    f. Drying rod, located 46" above finished floor.

g. Solid shelf — floor of the sealed cabinet, located 52" above finished floor.

h. Sealed valuables cabinet, 52" to 64" above finished floor.

3. T3 ANCHOR:

a. Drawer under the seat — full locker depth, vented face, 0" to 17" above finished floor.

b. Integrated bench — within the 20 in. locker depth, located 17" above finished floor.

c. Hanging zone, 32" to 60" above finished floor.

d. Jersey rod, located 56" above finished floor.

e. Top shelf, located 60" above finished floor.

f. Valuables cabinet, 60" to 72" above finished floor.

g. Coat hooks — two side walls, one back, located 54" above finished floor.

4. T4 GAUNTLET:

a. Open boot and cleat storage under the seat, 0" to 17" above finished floor.

b. Integrated bench — 14 in. in front, on a full-depth base, located 17" above finished floor.

c. Pad hanging zone, 17" to 56" above finished floor.

d. Reinforced pad bar, located 52" above finished floor.

e. Helmet and valuables cabinet — locked left 10-7/8", open helmet cubby right 10-7/8", 56" to 72" above finished floor.

f. Coat hooks — two side walls, one back, located 50" above finished floor.

5. T5 ROTATION:

a. Lower door, 0" to 36" above finished floor.

b. Upper door, 36" to 72" above finished floor.

c. Coat hooks — two side walls, one back (lower), located 32" above finished floor.

d. Coat hooks — two side walls, one back (upper), located 68" above finished floor.

2.3 MATERIALS

A. Locker body, fronts, doors and shelves, dry-area types (T1 SPRINT, T3 ANCHOR, T4 GAUNTLET, T5 ROTATION): 3/4" high-pressure decorative laminate to NEMA LD 3, GP-50 vertical / HGS horizontal grade, bonded to ANSI A208.1 Grade M-2 moisture-resistant particleboard, or ANSI A208.2 Grade 130 MDF. Edge banding 1 mm PVC at all exposed edges.

B. Locker body, fronts, doors and shelves, wet-area type (T2 DECK): 5/16" solid phenolic compact laminate, through-color and self-supporting, with no wood substrate. Edges machined and eased; applied edge banding shall not be used. Hardware corrosion-resistant throughout.

> *SPECIFIER NOTE: Fieldhouse is specified in high-pressure laminate for impact and abrasion resistance in athletic use. The manufacturer's standard locker line is built in thermally fused laminate (TFL); confirm with the manufacturer before substituting one for the other.*

> *SPECIFIER NOTE: The wet-area type's compact laminate, its 5/16" thickness and its supplier (Formica or Wilsonart) are design intent, pending the manufacturer's confirmation of availability and lead time. Because it is thinner than 3/4" laminate, it yields 7/8" more clear interior at the same nominal width.*

C. Edge banding: 1 mm PVC. [Front edges only] [All exposed edges].

D. Composite wood products shall comply with EPA TSCA Title VI. [Provide NAF or ULEF products.] [Provide FSC-certified products.]

SPECIFIER NOTE: Confirm with the manufacturer which certifications (such as GREENGUARD Gold, NAF/ULEF or FSC) apply to the specified materials before requiring them.

2.4 ACCESSORIES AND TRIM

A. Base: integrated 4" kick base, or levelers in lieu of base where scheduled. The wet-area type stands on a 2 inch rail carried on four 6 inch satin aluminum legs with leveling glides.

B. Finished end panels at each exposed end of every run.

C. Finished kickplate, adding 13/16 inch to the face of the base.

D. Fillers at walls, columns, inside corners and run terminations as required to close the installation.

E. Number tags: 1-1/2 inch diameter, set into a routed recess 3 inches from the top of the door to the center of the tag, centered on door width.

F. Valuables cabinet: lockable compartment at the head of each opening, integral with the locker body, fitted with charging where power is scheduled. Lock type per Article 2.5.

SPECIFIER NOTE: ACCESSIBLE OPENINGS: a cabinet at the head is outside the 15 to 48 inch forward reach range of ICC A117.1 and the ADA Standards. At openings scheduled as accessible, the cabinet is relocated into reach range (the drawings show it at 32 to 44 inches above finished floor), and the fixed bench is provided instead of a flip-up seat. Confirm the number and distribution of accessible openings with the Architect.

G. Flip-up seat, where scheduled: hinged lid of the same construction as the body over a ventilated compartment within the locker bay. Continuous hinge at the rear of the seat; two lid stays per seat holding the lid at not less than 60 degrees from horizontal. The compartment vents through the base described in Article 2.7.

SPECIFIER NOTE: The seat projects nothing forward of the face. Where it is scheduled, delete the bench projection from the room clearance calculations.

H. Engraved nameplates at assigned lockers where scheduled.

2.5 HARDWARE

A. Hanging rod: 3/4" diameter chrome rod with end supports, located 4" down from the top of the compartment.

1. A hanging rod requires a minimum locker depth of 20". Where a lesser depth is specified, provide coat hooks in lieu of a rod.

B. Coat hooks: single-prong chrome, two side walls and one back wall per opening. [Provide double-prong hooks.]

C. Hinges, where doors are specified: concealed, 110 degree, full overlay, quantity based on door height. [Provide soft-close hinges.] [Provide 5-knuckle institutional hinges.]

D. Locks: [mechanical combination] [keyed] [4-digit PIN, battery operated] [RFID] [networked electronic], fitted to the manufacturer's standard lock preparation and centered on door height. Lock manufacturer: [as selected by the Owner].

SPECIFIER NOTE: The lockers are not tied to one lock brand. Metra, Ojmar, Digilock and Zephyr are examples of compatible manufacturers, not a required list.

E. Charging outlets where scheduled: coordinate with Division 26.

2.6 FABRICATION

A. Fabricate lockers using wood doweled and glued construction.

B. Clear interior width shall be the nominal locker width less 1-1/2 inches. Clear interior depth shall be the nominal locker depth less 15/16 inch.

C. Gang adjacent openings in a run on a shared partition. Do not provide back-to-back partitions within a continuous run.

D. Provide finished end panels at exposed ends and fillers at wall terminations and inside corners, scribed to the adjacent construction.

2.7 VENTILATION AND FREE AREA

A. Open-front locker types are ventilated by passive convection. Air enters low through the open or vented base and leaves through the top of the face opening. No fan, duct or filter is required for this to operate.

B. Provide the free area scheduled below for each specified type at its standard configuration. Face free area is the open front as a percentage of gross face area.

TYPE	WIDTH	FACE FREE AREA	OPEN PER OPENING
T1 SPRINT	12" W	71.1%	614 sq in
T1 SPRINT	15" W	73.1%	790 sq in
T2 DECK	12" W	76.1%	584 sq in
T2 DECK	15" W	76.9%	739 sq in
T3 ANCHOR	18" W	53.8%	697 sq in
T3 ANCHOR	24" W	55.0%	951 sq in
T4 GAUNTLET	24" W	72.9%	1260 sq in
T4 GAUNTLET	30" W	73.9%	1596 sq in
T5 ROTATION	12" W	—	See 2.7.D
T5 ROTATION	15" W	—	See 2.7.D
T5 ROTATION	18" W	—	See 2.7.D

C. The wet-environment type is additionally ventilated through perforated back and side panels. Cross-flow through these panels is not included in the figures scheduled above.

D. Ventilation of the closed-front type is by door slots. [Slot pattern and free area to be as scheduled.]

> *SPECIFIER NOTE: The closed-front type has no passive stack and its slot pattern is not yet specified. Do not schedule it in a room where locker ventilation is relied upon until that figure exists.*

E. Duct connection: the manufacturer can accommodate a duct connection at the top panel on request. This is not a standard option and shall not be scheduled without prior confirmation of cost and lead time.

> *SPECIFIER NOTE: Ventilation is described here as free area only. A duct connection to an open-front locker moves room air across the face; it is source capture for the room, not a drying device. Do not write a drying-time, antimicrobial or infection-control requirement against this product.*

2.8 FINISHES

A. Provide one of the following finish levels for each locker type:

1. Essential: laminate body and fronts in the selected colors, white interior.
2. Team: the selected colors inside and out.

3. Showcase: additional colors, custom graphic panels and premium fronts, quoted individually.

B. Colors: [as selected by the Architect from the Fieldhouse palette] [to match the institution's colors, as scheduled]. The Fieldhouse palette is Wilsonart high-pressure laminate for T1, T3, T4, T5, and Formica and Wilsonart compact laminate for T2 DECK, as published at fieldhouselockers.com.

> *SPECIFIER NOTE: Order physical color chips before colors are approved; on-screen colors are approximations.*

PART 3 — EXECUTION

3.1 EXAMINATION

A. Verify that walls and floors are plumb, level and true within the tolerances required for the work of this section.

B. Verify that blocking and backing are installed and located to receive locker anchorage.

C. Verify that floor finishes beneath locker runs are complete where scheduled to run beneath the lockers.

D. Do not begin installation until unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Establish and mark the layout of each locker run, including end panel, filler and corner locations, before setting any unit.

B. Confirm clear aisle dimensions against the approved shop drawings.

3.3 INSTALLATION

A. Install lockers in accordance with the manufacturer's written instructions and the approved shop drawings.

B. Set bases level and true. Shim as required. Do not shim under a finished end panel where the shim would be visible.

C. Set lockers plumb, level and in true alignment, with faces of adjacent units flush and joints uniform.

D. Gang units on shared partitions and fasten together in accordance with the manufacturer's instructions.

E. Anchor runs to wall blocking at [the manufacturer's recommended spacing] [maximum 48 inches on center] and at each end of every run.

F. Install finished end panels at all exposed ends, and fillers scribed to walls, columns and inside corners.

G. Install kickplates continuous across the base of each run.

H. Install accessible openings at the locations shown, with the clear floor space indicated kept free of benches and other obstruction.

> *SPECIFIER NOTE: The number, distribution and reach ranges of accessible openings must be confirmed against ICC A117.1 and the ADA Standards for the project.*

3.4 ADJUSTING

A. Adjust doors, hinges, drawers and latches for smooth operation without binding.

B. Set, test and document all locks. Provide keys, combinations or credentials to the Owner.

3.5 CLEANING AND PROTECTION

A. Clean exposed surfaces in accordance with the manufacturer's instructions. Do not use abrasive or solvent-based cleaners.

B. Protect installed lockers from damage until Substantial Completion.

C. Replace any unit that cannot be restored to factory condition.

END OF SECTION 10 51 16