SECTION 10 56 00

STORAGE ASSEMBLIES

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\*\* NOTE TO SPECIFIER \*\* Wenger Corporation, JR Clancy and GearBoss product brands; Broadcast, theater and stage equipment, sound-control door assemblies, acoustic room components, lockers, storage assemblies, specialty casework, special purpose rooms, integrated lighting, integrated controls and audio video systems.   
  
This section is based on the products of Wenger Corporation, which is located at:   
Wenger Corporation, JR Clancy and GearBoss, which is located at:  
555 Park Dr.  
Owatonna, MN 55060  
Toll Free Tel: 800-4WENGER (493-6437)  
Tel: 507-455-4100  
Fax: 507-455-4258  
Email: [request info (info@wengercorp.com)](https://admin.arcat.com/users.pl?action=UserEmail&company=Wenger+Corporation,+JR+Clancy+and+GearBoss&coid=36487&rep=&fax=507-455-4258&message=RE:%20Spec%20Question%20(10670wen):%20%20&mf=)  
Web: <https://www.wengercorp.com> | <http://www.jrclancy.com>   
  
Wenger Corporation - Syracuse, which is located at:  
7041 Interstate Island Road  
Syracuse, NY 13209  
Toll Free Tel: 800-836-1885  
Tel: (315) 451-3440  
Email: request info (info@wengercorp.com)   
  
[ [Click Here](https://www.arcat.com/arcatcos/cos36/arc36487.html) ] for additional information.  
  
Wenger Corporation and J.R. Clancy are Your Performance Partners. In 2011, Wenger and J.R. Clancy brought together almost 200 years of experience to provide complete solutions for Performing Arts Centers and Theatres. We design, manufacture and install leading theatrical equipment worldwide from Complete Rigging Solutions and Controls to Acoustical Shell Enclosures and Orchestra Pit Fillers as well as a full-line of quality furnishings.   
  
Wenger Corporation provides innovative, high-quality products and solutions for performing arts and music and theatre education. For more than 65 years Wenger has been listening to what our customers need and then designing and manufacturing innovative, durable and functional products to meet those needs.  
  
 Wenger pioneered sound isolation in practice rooms and now offers modular rooms with virtual acoustic technology (VAE) and built-in digital recording/playback. Products for music and theatre spaces include: pre-engineered acoustical doors, sound-isolating music practice rooms, acoustical shells, acoustical wall and ceiling treatment, instrument and equipment storage cabinets, portable audience seating, portable stage platforms and staging systems, music posture and portable audience chairs, orchestra pit fillers, makeup stations, tiered risers and music furniture.  
  
 Since 1885, J.R. Clancy has been a leading designer and supplier of theatrical rigging systems, accessories and services to the theatre and entertainment industries around the world. Our team of experienced mechanical and electrical engineers, project managers, and installers provides expert technical assistance and information to architects, general contractors, theatre consultants, end users, and dealers. With a combination of innovative designs, outstanding quality, and a century of experience, J.R. Clancy has become the leading manufacturer of theatrical stage equipment in the United States. We provide everything from the simplest hemp sets and rigging hardware to complete, highly sophisticated motorized rigging systems-for use just about anywhere.

1. GENERAL
   1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* + 1. Metal shelving systems.
    2. High-density storage light duty carts.
    3. High-density storage heavy duty mobile carts.
  1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete sections below not relevant to this project; add others as required.

* + 1. Section 06 10 00 - Rough Carpentry.
    2. Section - .
    3. Section 09 22 16.13 - Non-Structural Metal Stud Framing.
    4. Section 10 51 16 - Wood Lockers.
  1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. American Concrete Institute (ACI):
       1. ACI 117 - Standard Specification for Tolerances for Concrete Construction and Materials.
    2. American Laminators Association (ALA):
       1. ALA GP 28.
    3. American National Standards Institute (ANSI):
       1. ANSI-BHMA A156.9 - Cabinet Hardware.
       2. ANSI A208.1 - Particleboard.
       3. ANSI A208.2 - Medium Density Fiberboard.
    4. American Society of Civil Engineers (ASCE):
       1. ASCE 7 - Minimum Design Loads for Buildings and Other Structures.
    5. ASTM International (ASTM):
       1. ASTM A500 - Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes.
       2. ASTM A501 - Standard Specification for Hot-Formed Welded and Seamless Carbon Steel Structural Tubing.
       3. ASTM A510 - Standard Specification for General Requirements for Wire Rods and Coarse Round Wire, Carbon Steel, and Alloy Steel.
       4. ASTM A513 - Standard Specification for Electric-Resistance-Welded Carbon and Alloy Steel Mechanical Tubing.
       5. ASTM A1008 - Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Solution Hardened, and Bake Hardenable.
       6. ASTM C510 - Standard Specification for General Requirements for Steel Rods and Coarse Round Wire, Carbon Steel.
       7. ASTM E488 - Standard Test Methods for Strength of Anchors in Concrete and Masonry Elements.
    6. GREENGUARD Environmental Institute (GEI):
       1. GREENGUARD certified low emitting products.
    7. Laminating Materials Association:
       1. LMA EDG-1: Voluntary Product Standard and Typical Physical Properties of Edgebanding Materials.
       2. LMA SAT-1: Voluntary Product Standard and Typical Physical Properties of Saturated Paper Overlays.
    8. National Fire Protection Association (NFPA):
       1. NFPA 70 - National Electrical Code (NEC).
    9. National Electrical Manufacturers Association (NEMA):
       1. NEMA LD 3 - High Pressure Decorative Laminates.
    10. U.S. Architectural & Transportation Barriers Compliance Board:
        1. Americans with Disabilities Act (ADA) and Architectural Barriers Act (ABA) Accessibility Guidelines for Buildings and Facilities.
  1. SUBMITTALS
     1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
     2. Product Data: Manufacturer's data sheets on each product to be used, including:
        1. Preparation instructions and recommendations.
        2. Rated capacities, construction details, material descriptions, dimensions of individual components, profiles, and finishes.
        3. Delivery, storage, handling, and installation instructions and recommendations.
        4. Assembly and installation instructions.
        5. Description of specialties and accessories.
        6. Maintenance instructions and recommendations.

\*\* NOTE TO SPECIFIER \*\* Retain applicable paragraphs below for LEED projects. Add additional requirements that apply. Verify credits required and availability of materials from the Manufacturer. Refer to USGC LEED Reference Guide for detailed information. Delete if not required.

* + 1. LEED Submittals:
       1. Manufacturer's certificate indicating that composite wood products and adhesives contain no added urea formaldehyde.
       2. Manufacturer's certificate indicating percentages by weight of post-consumer and pre-consumer recycled content. Include statement indicating costs for each product having recycled content.
    2. Shop Drawings: Project-specific drawings indicating details of storage specialties layout and installation, including:
       1. Show components, assemblies, connections, attachments, and anchorage.
       2. Show fabrication and installation details. Distinguish between factory and field work.
       3. Show details of floor recesses where required for storage equipment or carts.
       4. Include clearances, spacing, and relation to adjacent construction in plan, elevation, and section, details, attachments and work by others.
       5. Show system layouts, room locations, clearances, spacing, and relationship to adjacent construction.
       6. Show trim and accessories.

\*\* NOTE TO SPECIFIER \*\* Retain below if project has seismic requirements. Delete if not required.

* + - 1. Indicate seismic bracing and fastening requirements.
    1. Product Schedule:
       1. Use designations indicated on the Drawings.
       2. Include room locations, dimensions, accessories, finishes, and project specific notes.
    2. Verification Samples: For each color and finish for each exposed storage specialties component.
       1. Exposed Finishes: Not less than 8 by 10 inches (200 by 250 mm), for each type, color, pattern, surface and material selected.
       2. Exposed Hardware and Accessories: One full size unit for each type and finish.

\*\* NOTE TO SPECIFIER \*\* Select below for metal shelving, delete if not required.

* + - 1. Shelf Brackets: Cantilevered shelf brackets with attachment hardware.
      2. Vertical Supports: 12-inch (305 mm) section.
      3. Wood Products: 12-inch (305 mm) square.
    1. Closeout Submittals:
       1. Operation and Maintenance Data: For adjusting, repairing and replacing components and accessories.
       2. Warranty: Submit manufacturer's sample warranty.
  1. QUALITY ASSURANCE
     1. Source Limitations: Obtain storage specialties through one source from a single approved manufacturer.
     2. Manufacturer Qualifications: Minimum 5 years experience in manufacture of similar products in use in similar environments, including project size, and complexity, and with the production capacity to meet the construction and installation schedule.
     3. Installer Qualifications: Manufacturer's authorized representative, trained and approved for installation of units required for this Project.

\*\* NOTE TO SPECIFIER \*\* Retain paragraph below for accessible storage. Indicate accessibility requirements on drawings.

* + 1. Regulatory Requirements: Where components are indicated to comply with accessibility requirements, comply with the U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA) and Architectural Barriers Act (ABA) Accessibility Guidelines for Buildings and Facilities".
  1. DELIVERY, STORAGE, AND HANDLING
     1. Deliver materials in manufacturer's original unopened containers with manufacturer's labels attached.
     2. Do not deliver components until spaces to receive them are clean, dry, and ready for their installation. Ship to jobsite only after roughing-in, painting and other finishing work has been completed, installation areas are ready to accept work.
     3. Handle and install materials to avoid damage.
  2. PROJECT CONDITIONS
     1. Environmental Limitations: Do not deliver or install until spaces are enclosed and weather tight, wet work in spaces is complete and dry, HVAC system is operating and maintaining ambient temperature at occupancy levels during the remainder of the construction period.
     2. Field Measurements: Verify field measurements as indicated on Shop Drawings. Where measurements are not possible, provide control dimensions and templates.
        1. Coordinate installation and location of blocking and supports as requested.
        2. Verify openings, clearances, storage requirements and other dimensions relevant to the installation and final application.
     3. Coordination:
        1. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.
        2. Coordinate installation of storage specialties to ensure proper installation and operation of each component.
        3. Coordinate clearances required for movement of gliding, portable and mobile units.
  3. WARRANTY

\*\* NOTE TO SPECIFIER \*\* The "special warranty" is provided by the manufacturer to the building owner, detailed terms are available from the manufacturer. Verify that other proposed manufacturers will meet or exceed special warranty requirements. Delete if warranty is not required.

* + 1. Special Warranty: Manufacturer's written warranty to repair or replace components that fail in materials or workmanship. Failures include the following:
       1. Fracturing or breaking components including panels, shelves, or hardware resulting from normal wear and tear and use other than vandalism.
       2. Collapse or failure of metal grid locker components not resulting from overloading or vandalism.
       3. Delamination or other failures of bonding or assembly.
       4. Warping not resulting from leaks, flooding, or other uncontrolled moisture or humidity.
       5. Faulty operation of hardware and accessories.
    2. Storage Unit Warranty Period: 10 years.
    3. Cart Warranty Period: 5 years.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: Wenger Corporation, including all Wenger, J.R. Clancy and GearBoss product brands. Wenger Corporation, which is located at: 555 Park Dr.; Owatonna, MN 55060; Toll Free Tel: 800-4WENGER (493-6437); Tel: (507) 455-4100; Fax: (507) 455-4258; Email: request info (info@wengercorp.com); Wenger Corporation - Syracuse, which is located at 7041 Interstate Island Road, Syracuse, NY 13209; Toll Free Tel: 800-836-1885; Tel: (315) 451-3440; Email: request info (JRCinfo@wengercorp.com); Web: https://www.wengercorp.com

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
    2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

\*\* NOTE TO SPECIFIER \*\* If reviewing substitution requests for compliance with this specification, Wenger recommends particular attention to the following issues:   
Modularity of individual units: Most facilities undergo changes to locker layout long before the end of the locker service life. Wenger through-bolting, and adjustable leveling bases allow complete rearrangement of units without damage to individual units.   
Ventilation: Passive ventilation built into the leveling base and the optional powered ventilation available in Wenger Athletic Lockers helps protect athletic clothing, shoes, and equipment from mildew damage.   
Strength of door/hinge and latch construction: Failure of these components is the most common field service issue among alternative products.   
Replaceable construction for compartment and footlocker doors: These most frequently-damaged items are easily replaced in Wenger Athletic Lockers, and are engineered to prevent damage to their supporting locker sides.   
Impact and abrasion resistance of the thermally-fused polyester surfacing and PVC edge banding: The polyester surfacing and edge banding materials have been selected to withstand the normal wear and tear expected in the team locker room.   
Warranty terms and conditions: Wenger offers the most warranty protection available in the industry. We do not make exceptions for the normal levels of wear and tear common to learning environments. Our only such stated exception is failure resulting from vandalism or uncontrolled moisture or humid. Delete if not required.

* + - 1. Approval of Comparable Products: Submit the following in accordance with project substitution requirements, within time period allowed for substitution review:
         1. Product data, including certified independent test data indicating compliance with requirements including: modularity of individual units; ventilation, strength of door, hinge and latch construction; replaceable construction for compartment and foot locker doors; impact and abrasion resistance of surfaces and edge banding.
         2. Samples of each type of product specified.
         3. Project References: minimum of 5 installations not less than 5 years old, with owner contact information, available for evaluation by Architect.
         4. Sample warranty including terms and conditions.
      2. Submit substitution request not less than 15 days prior to bid date. Substitutions following award of contract are not allowed except as stipulated in Division 01 General Requirements.
      3. Manufacturer must meet each separate requirements of Submittals Article.

\*\* NOTE TO SPECIFIER \*\* Wenger products come in several design configurations. See illustrations on Wenger's website. Ensure the following are coordinated with the drawings: Size and configuration of units; overall size of openings; and location of fillers, closures, and optional finished panels; depth of units if units vary; types of doors and optional door finishes; location of other building elements, including light switches and power outlets, HVAC supplies and returns, and sprinkler heads, in relation to locations of lockers. Typical mounting details and locations for blocking in framed walls. Fastening and bracing   
requirements meeting seismic design requirements, if any. Coordinate placement, tolerances, and clearances required for installation and Owner's usage.

* 1. METAL SHELVING SYSTEMS

\*\* NOTE TO SPECIFIER \*\* Wenger's GearBoss wall and floor mounted metal storage shelving system is part of the GearBoss family of durable athletic specialties and equipment. GearBoss provides rugged industrial grade athletic apparel and equipment storage, featuring adjustable cantilevered shelving and apparel hangers, work surfaces, and security lockers. Uprights and shelf brackets are capable of 1000 lb (454 kg) loading per 4-foot-wide section. The clear space below the upper shelving can be coordinated with Wenger's GearBoss SportCart for efficient use of floor space. GearBoss is an equipment storage solution designed to transform the athletic equipment room into an efficient, program support space that reduces the square footage required for athletic storage areas. The modular system features accessories specific for the needs of bulky athletic equipment such as helmets and shoulder pads. GearBoss units are designed to encourage airflow along with improving sanitation and odor issues.

* + 1. GearBoss Metal Shelving Systems, Shelf Starter Bay, Shelf Add-On Bay, and Shelves by Wenger Corporation: Cantilever-type modular metal storage shelving system comprised of the following components:
       1. Structural Performance:
          1. Allowable Load Rating: 1000 lb. (373 kg) per 4 by 8-foot (1219 by 2438-mm) bay.
          2. Load-Carrying Capacity per 48 inch (1219 mm) Shelf: 250 lb. (113 kg).
       2. Shelf Unit Uprights: Steel tube, metallic-coated, 2-inch (50.8 mm) square, 0.109-inch (2.76 mm) thick, with perforations on all four sides at 1 inch (25 mm) on center.
       3. Horizontal Stringer: Formed sheet steel, metallic-coated, 0.075-inch (1.9-mm) thick.
       4. Shelf Cross Tubes: 14 gauge steel tube, metallic-coated, 5/8-inch (22-mm) square.
       5. Shelf Brackets: Formed steel, 0.015-inch (0.38-mm) thick.
       6. Laminate-Clad Wood Panels: Core material and thickness indicated, finished with thermally-fused anti-microbial polyester surfacing on both sides.
       7. Unit Width: 48 inch (1219 mm) center-to-center unless otherwise indicated.

\*\* NOTE TO SPECIFIER \*\* Select height. Delete options not required.

* + - 1. Unit Height: 96 inches (2438 mm).
      2. Unit Height: As indicated on the Drawings.
      3. Shelves can be adjusted in 1 inch (25 mm) increment without tools.

\*\* NOTE TO SPECIFIER \*\* Typically retain all materials.

* + 1. Metal Shelving Materials:
       1. Aluminum Extruded Bars, Profiles, and Tubes: ASTM B221.
       2. Sheet Steel: Cold-rolled, ASTM A1008, commercial steel, type B.
       3. Steel Tube: ASTM A501, hot-formed steel tubing.
       4. Steel Wire: ASTM C510, cold drawn steel wire
       5. Particleboard: To ANSI A208.1, minimum 43 lb/cu. ft. (689 kg/cu. m) density.
          1. Provide fire retardant treated type.
       6. Plywood: APA standards PS1-98 section 5.7.4 or 5.7.1 or ANSI /HPVA HP-1-2004 Panel provide with HDF skins to prevent grain telegraphing.
       7. Steel Tube: ASTM A500, cold-formed steel tubing.
       8. Laminate Finish: Composite, of thickness indicated, finished with thermally-fused anti-microbial polyester surfacing on both sides, meeting performance properties of NEMA LD3 for VGS grade, with heat bonded, radiused, 3 mm thick extruded PVC edge banding.
          1. Surface Abrasion Resistance: Taber Wheel, 400 cycles, for solid colors.
       9. PVC Edge Banding: LMA EDG-1, radiused PVC extrusions, 3 mm thick, heat-bonded.
       10. Anchors and Fasteners:
           1. Factory Provided: Material, type, and size recommended by manufacturer for secure anchorage to substrate.
           2. Field Installed: Manufacturer-recommended fasteners furnished by Contractor as required for locker substrate and project requirements.
    2. Metal Shelving Fabrication:
       1. Fabricate components square, and rigid. Make exposed metal safe to touch and free of sharp ends or burrs.
       2. Form frames, panels, doors, and accessories from one-piece, or one rigid assembly, unless specifically shown on Shop Drawings.
       3. Factory preassemble metal components by welding all joints, and connections; with no bolts, nuts, screws, or rivets used in assembly, except as required for knock down shipping and attachment to mounting surfaces.
    3. Metal Shelving Accessories:

\*\* NOTE TO SPECIFIER \*\* Retain one or both options.

* + - 1. Shelf Depth: 17.5 inches (444 mm) with 2 cross tubes.
      2. Shelf Depth: 30.5 inches (775 mm) with 4 cross tubes.
      3. Lock Box: Steel sides and bottom, polished aluminum front, key-tab lock, hinged door panel lockable with a key.
      4. Work Surface: Particleboard laminate-clad panel with graphite high wear laminate with black edge band, 1-1/8-inch (28.6-mm) thick, inserted into 30-1/2 inch (775 mm) cantilever shelf bracket over cross tubes. Quantity of work surfaces as indicated on Drawings.
      5. Cantilevered Shelf: Steel tube and bracket, with aluminum extrusion nosing, mill finish unless otherwise indicated.
      6. Hinged Panel Doors: Laminate clad panel door 5/8-inch (15.9 mm) thick.
      7. Garment Hanger: Steel round tube mounts underneath shelf; powder-coat finish, black.
      8. Quantity of garment bars as indicated on Drawings.
      9. Drawer: Pull-out utility drawer mounted under work surface.
    1. Metal Shelving Finishes: Manufacturer's standard finish, color as selected by Architect from manufacturer's standard colors.
  1. HIGH-DENSITY STORAGE LIGHT DUTY CARTS

\*\* NOTE TO SPECIFIER \*\* Wenger's GearBoss II High Density Storage Light Duty Cart System is a track-mounted storage unit system designed to transform an athletic equipment facility into a high-density and efficient storage space. The GearBoss II HD storage system uses an innovative system of tracks, rolling carts, and accessories to provide a versatile, compact, well-ventilated athletic storage system that reduces the storage floor area by at least half. Fabricated from sheet steel, metal tubing and open wire grilles, GearBoss II HD storage carts provide high density storage with maximum ventilation to improve sanitation and reduce odor issues. The versatile, rail-mounted unit provides robust capacity and space saving storage for team clothing, football helmets, pads and other athletic related equipment. Even when fully loaded, the track-mounted storage cart moves easily on V-grooved steel wheels and surface-mounted tracks. The rail system is perfect for adding athletic storage capacity to existing facilities. With the addition of extra garment bars, shelving, helmet hangers and shoulder pad stackers. GearBoss II HD storage carts can be adapted to any athletic storage need. Optional side grille doors and enclosures are available for added security.

* + 1. GearBoss II High-Density (HD) Storage Light Duty Carts by Wenger Corporation: Rail-mounted, high-density storage cart units designed to operate on floor-mounted tracks, with welded steel sheet base, steel wire grill top, steel tube frame, integrated garment bar, steel wire grille end panels, adjustable height steel wire grille storage shelf, and sealed precision ball bearing cast V-groove steel wheels matching profile of tracks including:
       1. Load Capacity:
          1. Top Panel: 150 lbs (68 kg).
          2. Wire Shelving: 150 lbs (68 kg).
          3. Total Cart Capacity: 500 lbs (227 kg).
       2. Cart Unit Size: 32.5 inch wide by 79 inch high by 72.7 inch long (826 mm wide by 2007 mm tall by 1847 mm long).
       3. Base Material: 14 gauge welded sheet steel.
       4. End Panels: Steel wire grille, 5/16 inch (8 mm) diameter, 3/16 inch (5 mm) diameter x 1-1/2 inch (38 mm) 16 gauge steel tubing.
       5. Roof: Steel wire grille, 5/16 inch (8mm), diameter, 3/16 inch (5 mm) diameter, 12 gauge channels and 16 gauge plates, with integrated 1-1/2 inch (38 mm) garment bar.
       6. Adjustable Shelf: Steel wire grille, 5/16 inch (8 mm) diameter, 3/16 inch (5 mm) diameter and 12 gauge channels.
       7. Wheels: Steel, V-grooved, with sealed precision ball bearings.
       8. Floor Track: Surface-mounted galvanized steel.
       9. Storage Capacity: 60 helmets or 60 shoulder pads, or 280 hanger supported garments.
       10. Mobile Storage Unit Floor Track: Surface-mounted 14 gauge formed galvanized steel track configured to receive storage units equipped with grooved steel wheels.

\*\* NOTE TO SPECIFIER \*\* Typically retain all materials.

* + 1. High-Density Storage Light Duty Cart Materials:
       1. Materials to meet Sustainable Design Requirements:
          1. No Added Urea Formaldehyde Products: Provide products made with composite products and adhesives with no urea formaldehyde added.
       2. Aluminum Extruded Bars, Profiles, and Tubes: ASTM B221.
       3. Sheet Steel: Cold-rolled, ASTM A1008, commercial steel, type B.
       4. Steel Tube: ASTM A501, hot-formed steel tubing.
       5. Steel Tube: ASTM A500, cold-formed steel tubing.
       6. Steel Wire: ASTM C510, cold drawn steel wire
       7. Anchors and Fasteners:
          1. Factory Provided: Material, type, and size recommended by manufacturer for secure anchorage to substrate.
          2. Field Installed: Manufacturer-recommended fasteners furnished by Contractor as required for locker substrate and project requirements.
    2. High-Density Storage Light Duty Cart Fabrication:
       1. Fabricate components square, and rigid. Make exposed metal safe to touch and free of sharp ends or burrs.
       2. Form frames, panels, doors, and accessories from one-piece, or one rigid assembly, unless specifically shown on Shop Drawings.
       3. Factory preassemble metal components by welding all joints, and connections; with no bolts, nuts, screws, or rivets used in assembly, except as required for knock down shipping and attachment to mounting surfaces.
    3. High-Density Storage Light Duty Cart Accessories:

\*\* NOTE TO SPECIFIER \*\* Select accessories to be provided. Delete accessories not required.

* + - 1. Side Closure Security Panels: Steel wire grille, 5/16 inch (8mm), diameter, 3/16 inch (5 mm) diameter, 12 and 14 gauge channels.
      2. Floor Locks: Equip storage cart units with floor lock.
      3. Additional Shelves: Steel wire grille, bracket hung from steel grille end panels.

\*\* NOTE TO SPECIFIER \*\* Select number to be provided. Delete number not required.

* + - * 1. Provide number as indicated on Drawings.
        2. Provide \_\_\_\_ insert number required.
      1. Additional Garment Bars: Steel tube, 1 1/2 inch (38 mm) diameter, bracket hung from steel grille end panels.

\*\* NOTE TO SPECIFIER \*\* Select number to be provided. Delete number not required.

* + - * 1. Provide number as indicated on Drawings.
        2. Provide \_\_\_\_ insert number required.
      1. Football Helmet Hanger: Formed, painted steel wire, 8 helmet capacity.
      2. Football Shoulder Pad Hanger: Formed, painted steel wire, long and short lengths configured to hang in pairs.
      3. Football Shoulder Pad Stacker Frame: With built-in shoulder pad form, painted steel sheet and steel wire upright stacker, with 4 casters and wire handles, 18 to 20 pad capacity.

\*\* NOTE TO SPECIFIER \*\* Select number to be provided. Delete number not required.

* + - * 1. Provide number as indicated on Drawings.
        2. Provide \_\_\_\_ insert number required.
    1. High-Density Storage Light Duty Cart Finishes:
       1. Base, Roof and Adjustable Shelf: Iron phosphate pre-coat and thermoset epoxy resin powder coat finish.
          1. Color and Gloss: Manufacturer's standard black.
       2. End Panels: Iron phosphate pre-coat and thermoset epoxy resin powder coat finish.
          1. Color and Gloss: Manufacturer's standard silver.

\*\* NOTE TO SPECIFIER \*\* Wenger manufactures gliding, portable and mobile carts for storage of athletic equipment, apparel, and school merchandising. Delete below if carts are not used.

* 1. HIGH-DENSITY STORAGE HEAVY DUTY MOBILE CARTS
     1. High Density Storage Carts, General: Track-mounted, modular and mobile, high-density storage units with steel tube and sheet chassis and powder-painted steel tube upright frame, powder-painted steel wire grille panels that will support optional cart accessories, with fixed guides in floor track and 4 lateral casters.
     2. Portable Storage Carts, General: Track-mounted, portable, modular, high-density storage units with steel tube and sheet chassis and powder-painted steel tube upright frame, steel wire grille panels that support optional cart accessories with retractable guides in floor track and 4 swivel casters with non-marring wheels.
     3. Top Panels: Unless otherwise indicated, medium density fiberboard, 5/8 inch (15.9 mm) thick, with high-pressure decorative laminate.

\*\* NOTE TO SPECIFIER \*\* GearBoss X-Carts provide high-density storage by allowing sports equipment and apparel to be packed and stored for maximum efficiency. Shoulder pads, helmets and baseball bats fit snugly, preventing wear and tear on expensive equipment. X-Carts keep equipment organized in storage rooms by gliding laterally along a fixed track. X-Carts maximize space to transform equipment rooms to organized, clean, professional storage spaces. Reduce storage space by at least half, protect equipment, and save time organizing. X-Carts are intended for interior use in normal ambient temperature and humidity conditions and must not be exposed to outside weather conditions. Panels and doors can be added for security, in matching school colors. Delete below if not used.

* + 1. Gliding X Carts: High-density storage carts slide together and apart, rolling laterally on fixed aluminum floor track to create aisles between carts and closing back together when not in use to reduce storage space by at least half. Designed to encourage airflow and improve sanitation and odor issues. Modular system purpose made for bulky equipment.

\*\* NOTE TO SPECIFIER \*\* Select dimensions. Delete size not required.

* + - 1. Dimensions: 32 inch (81 cm) wide by 78 inch (198 cm) long by 79 inch (201 cm) high.
      2. Dimensions: 48 inch (122 cm) wide by 78 inch (198 cm) long by 79 inch (201 cm) high.
      3. Chassis: Fabricated from 16-gauge, 14-gauge, and 12-gauge welded steel components.
      4. Upright Tubes: 2 inch (51 mm) diameter, 16-gauge steel tubing.
      5. End Frames: Resistant welded heavy duty steel wire grill with 1 inch (25 mm) opening.
      6. Wheels: 6 inch (152 mm) heavy duty.
      7. Roof Panel: Solid 5/8 inch (17 mm) thermofused composite wood with aluminum extrusions, rated for 150 pound (67.5 kg) load.
      8. GREENGUARD Indoor Air Quality Certified and GREENGUARD Children & Schools Certified.
      9. Paint color as selected from manufacturer's standard range of colors.

\*\* NOTE TO SPECIFIER \*\* GearBoss Mobile Team Carts offer the same high-density storage as X-Carts on or off a floor track. Team Carts are engineered to leave the track making it easy to get equipment out of storage and into the gym, practice area, or parking lot. Delete below if not used.

* + 1. Mobile Team Carts: High-density storage carts purpose made for bulky equipment. Mounting system allows equipment to store compactly, engineered to leave the track to travel to gyms, sidelines, practice areas, parking lots or wherever needed. Do not expose to exterior weather conditions for extended periods of time. Carts may be parked and locked in any location or temporary space to create safe secure storage.

\*\* NOTE TO SPECIFIER \*\* Delete dimension not required. Retain both if both required.

* + - 1. Dimensions: 32 inch (81 cm) wide by 78 inch (198 cm) long by 79 inch (201 cm) high.
      2. Dimensions: 48 inch (122 cm) wide by 78 inch (198 cm) long by 79 inch (201 cm) high.
      3. Chassis: Fabricated from 16-gauge, 14-gauge, and 12-gauge welded steel components.
      4. Upright Tubes: 2 inch (51 mm) diameter, 16-gauge steel tubing.
      5. End Frames: Resistant welded heavy duty steel wire grill with 1 inch (25 mm) opening.
      6. Wheels: 6 inch (152 mm) heavy duty swivel casters.
      7. Roof Panel: Solid 5/8 inch (17 mm) thermofused composite wood with aluminum extrusions, rated for 150 pound (67.5 kg) load.
      8. GREENGUARD Indoor Air Quality Certified and GREENGUARD Children & Schools Certified.
      9. Paint color as selected from manufacturer's standard range of colors.

\*\* NOTE TO SPECIFIER \*\* GearBoss Sport Carts are designed to compliment installations using larger GearBoss carts, or can be used as a stand-alone solution. GearBoss Sport Carts are smaller than other carts in the system, intended for use in smaller spaces and for sports that require less storage. Delete if not required.

* + 1. Sport Carts: Designed for use in small spaces and sports. Nimble carts will navigate narrow hallways, shorter door openings and most elevators. Provides high-density storage on or off floor mounted tracks. Swing door is self-latching. Lockable and reinforced with 16 gauge metal channels on outer edges.

\*\* NOTE TO SPECIFIER \*\* Delete dimension not required. Retain both if both required.

* + - 1. Dimensions: 32 inch (81 cm) wide by 78 inch (198 cm) long by 79 inch (201 cm) high.
      2. Dimensions: 48 inch (122 cm) wide by 78 inch (198 cm) long by 79 inch (201 cm) high.
      3. Chassis: Fabricated from 16-gauge, 14-gauge, and 12-gauge welded steel components.
      4. Upright Tubes: 2 inch (51 mm) diameter, 16-gauge steel tubing.
      5. End Frames: Resistant welded heavy duty steel wire grill with 1 inch (25 mm) opening.
      6. Wheels: Extra wide, 5 inch (127 mm) heavy duty swivel casters with polyurethane non-marring outer roller guides.
      7. Roof Panel: Solid 5/8 inch (17 mm) thermofused composite wood with aluminum extrusions, rated for 150 pound (67.5 kg) load.
      8. GREENGUARD Indoor Air Quality Certified and GREENGUARD Children & Schools Certified.
      9. Paint color as selected from manufacturer's standard range of colors.

\*\* NOTE TO SPECIFIER \*\* Delete or retain all materials.

* + 1. High-Density, Heavy Duty Mobile Cart Materials:
       1. Aluminum Extruded Bars, Profiles, and Tubes: ASTM B221.
       2. Sheet Steel: Cold-rolled, ASTM A1008, commercial steel, type B.
       3. Steel Tube: ASTM A501, hot-formed steel tubing.
       4. Steel Tube: ASTM A500, cold-formed steel tubing.
       5. Steel Wire: ASTM C510, cold drawn steel wire
       6. Anchors and Fasteners:
          1. Factory Provided: Material, type, and size recommended by manufacturer for secure anchorage to substrate.
          2. Field Installed: Manufacturer-recommended fasteners furnished by Contractor as required for locker substrate and project requirements.
    2. High-Density, Heavy Duty Mobile Cart Fabrication:
       1. Fabricate components square, and rigid. Make exposed metal safe to touch and free of sharp ends or burrs.
       2. Form frames, panels, doors, and accessories from one-piece, or one rigid assembly, unless specifically shown on Shop Drawings.
       3. Factory preassemble metal components by welding all joints, and connections; with no bolts, nuts, screws, or rivets used in assembly, except as required for knock down shipping and attachment to mounting surfaces.

\*\* NOTE TO SPECIFIER \*\* The GearBoss system is easily reconfigured within the Team Cart and X-Cart. Position and reposition hanger brackets, shelves and garment bars to fit team and seasonal needs. Shelf dividers create cubbies that provide unlimited options to design a system that works for every sport. Select accessories below for X-Carts and Team Carts, delete types not required.

* + 1. High-Density, Heavy Duty Gliding Cart Accessories:

\*\* NOTE TO SPECIFIER \*\* Select track type. Installation of recessed track in concrete is not in the scope of storage manufacturer. Coordinate with the General Contractor as required. Delete track type not required.

* + - 1. Storage Cart Floor Track: Extruded aluminum track, 6 by 0.97 inch tall (152 by 25 mm tall), configured to receive storage unit track guides. Includes appropriate track or island stops.

\*\* NOTE TO SPECIFIER \*\* Select track type. Installation of recessed track in concrete is not in the scope of storage manufacturer. Coordinate with the General Contractor as required. Delete track type not required.

* + - * 1. Track: Floor surface mounted track.
        2. Track: Recessed floor track.
      1. Shelves:
         1. Description: Steel wire grille, powder-painted, 150 lb. (68 kg) capacity per shelf unit, bracket-hung from steel powder-painted, grille panels, adjustable in 1 inch (25.4 mm) height increments.

\*\* NOTE TO SPECIFIER \*\* Delete depth not required, or retain both.

* + - * 1. Depth: 24 inch (610 mm).
        2. Depth: 32 inch (810 mm).

\*\* NOTE TO SPECIFIER \*\* Delete below if liners are not required. Retain one or both depths.

* + - * 1. Liners: Plastic sheet, sized to fit shelf, with securing clips

Depth: 24 inch (610 mm).

Depth: 32 inch (810 mm).

\*\* NOTE TO SPECIFIER \*\* Delete one option for quantity.

Quantity: As indicated on the Drawings.

Quantity: \_\_\_\_\_\_.

* + - * 1. Shelf Lips: Steel sheet lip, powder-painted, 2-1/2 or 4 inch (63.5 or 102 mm) high, fastened to shelf with adjustable thumbscrews.
      1. Garment Bars: Steel tube, 1-1/2 inch (38 mm) diameter, powder-painted, bracket hung from steel grille end panels, adjustable in 1 inch (25.4 mm) increments.
      2. Truss Hangers: Double-bar steel truss hanger for support of helmet hangers and shoulder pad hangers.
         1. Football Helmet Hanger: Formed, powder-painted steel wire, 5/16 inch diameter, 8 helmet capacity.
         2. Football Shoulder Pad Hanger: Formed, powder-painted steel wire, long and short lengths configured to hang in pairs, one pad per hanger. Provide short or long as shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Shoulder pad stackers fit 32 inch wide carts only. Delete if not required.

* + - 1. Football Shoulder Pad Stackers: Built-in shoulder pad form, powder-painted steel sheet and steel wire upright stacker, with 4 wheels, wire handles, configured to fit into storage unit chassis; 18 to 20 pad capacity.
      2. Grille End Panels: Laminated, solid panel, 5/8 inch (15.9 mm) thick with black edge band. Installed over cart end grille panels.

\*\* NOTE TO SPECIFIER \*\* Delete width not required, or retain both.

* + - * 1. Width: 32 inches (813 mm).
        2. Width: 48 inches (1220 mm).
        3. Laminate Color: As selected from manufacturer's standard color options.

\*\* NOTE TO SPECIFIER \*\* Side closure only used on one side of a 32 inch wide cart, except if cart has shoulder pad hangers, then bypass doors are required. Not available for 48 inch wide carts and 32 wide carts with shoulder pad stackers. Delete if not required.

* + - 1. Side Closures: Laminated, solid panel, 5/8 inch (15.9 mm) thick with black edge band. Installed on 6 foot-6 inch (1981 mm) cart side.
         1. Laminate Color: As selected from manufacturer's standard color options.
      2. Doors: Bypass type doors, laminated, solid panel, medium density fiberboard, 5/8 inch (15.9 mm) thick, with padlock eye. Padlock by owner. Installed on 6 foot-6 inch (1981 mm) cart side.

\*\* NOTE TO SPECIFIER \*\* Soft mesh divider for 48 inch carts only, delete not required.

* + - 1. Soft Mesh Divider: Vinyl mesh that attaches to end grille panels, dividing cart in half lengthwise.
      2. Accessory Colors: as selected from manufacturer's standard range.
    1. High-Density, Heavy Duty Mobile Cart Accessories:

\*\* NOTE TO SPECIFIER \*\* Select track type. Installation of recessed track in concrete is not in the scope of storage manufacturer. Coordinate with the General Contractor as required. Delete track type not required.

* + - 1. Storage Cart Floor Track: Extruded aluminum track, 6 by 0.97 inch tall (152 by 25 mm tall), configured to receive storage unit track guides. Includes appropriate track or island stops.

\*\* NOTE TO SPECIFIER \*\* Select track type. Installation of recessed track in concrete is not in the scope of storage manufacturer. Coordinate with the General Contractor as required. Delete track type not required.

* + - * 1. Track: Floor surface mounted track.
        2. Track: Recessed floor track.
      1. Shelves:
         1. Description: Steel wire grille, powder-painted, 150 lb. (68 kg) capacity per shelf unit, bracket-hung from steel powder-painted, grille panels, adjustable in 1 inch (25.4 mm) height increments.

\*\* NOTE TO SPECIFIER \*\* Delete depth not required, or retain both.

* + - * 1. Depth: 24 inch (610 mm).
        2. Depth: 32 inch (810 mm).

\*\* NOTE TO SPECIFIER \*\* Delete below if liners are not required. Retain one or both depths.

* + - * 1. Liners: Plastic sheet, sized to fit shelf, with securing clips.

Depth: 24 inch (610 mm).

Depth: 32 inch (810 mm).

\*\* NOTE TO SPECIFIER \*\* Delete one option for quantity.

Quantity: As indicated on the Drawings.

Quantity: \_\_\_\_\_\_.

* + - * 1. Shelf Lips: Steel sheet lip, powder-painted, 2-1/2 or 4 inch (63.5 or 102 mm) high, fastened to shelf with adjustable thumbscrews.
      1. Garment Bars: Steel tube, 1-1/2 inch (38 mm) diameter, powder-painted, bracket hung from steel grille end panels, adjustable in 1 inch (25.4 mm) increments.
      2. Truss Hangers: Double-bar steel truss hanger for support of helmet hangers and shoulder pad hangers.
         1. Football Helmet Hanger: Formed, powder-painted steel wire, 5/16 inch diameter, 8 helmet capacity.
         2. Football Shoulder Pad Hanger: Formed, powder-painted steel wire, long and short lengths configured to hang in pairs, one pad per hanger. Provide short or long as shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Shoulder pad stackers fit 32 inch wide carts only. Delete if not required.

* + - 1. Football Shoulder Pad Stackers: Built-in shoulder pad form, powder-painted steel sheet and steel wire upright stacker, with 4 wheels, wire handles, configured to fit into storage unit chassis; 18 to 20 pad capacity.
      2. Grille End Panels: Laminated, solid panel, 5/8 inch (15.9 mm) thick with black edge band. Installed over cart end grille panels.

\*\* NOTE TO SPECIFIER \*\* Delete width not required, or retain both.

* + - * 1. Width: 32 inches (813 mm).
        2. Width: 48 inches (1220 mm).
        3. Laminate Color: As selected from manufacturer's standard color options.

\*\* NOTE TO SPECIFIER \*\* Side closure only used on one side of a 32 inch wide cart, except if cart has shoulder pad hangers, then bypass doors are required. Not available for 48 inch wide carts and 32 wide carts with shoulder pad stackers. Delete if not required.

* + - 1. Side Closures: Laminated, solid panel, 5/8 inch (15.9 mm) thick with black edge band. Installed on 6 foot-6 inch (1981 mm) cart side.
         1. Laminate Color: As selected from manufacturer's standard color options.
      2. Doors: Bypass type doors, laminated, solid panel, medium density fiberboard, 5/8 inch (15.9 mm) thick, with padlock eye. Padlock by owner. Installed on 6 foot-6 inch (1981 mm) cart side.

\*\* NOTE TO SPECIFIER \*\* Soft mesh divider for 48 inch carts only, delete not required.

* + - 1. Soft Mesh Divider: Vinyl mesh that attaches to end grille panels, dividing cart in half lengthwise.
      2. Accessory Colors: as selected from manufacturer's standard range.
    1. High-Density, Heavy Duty Sports Cart Accessories:

\*\* NOTE TO SPECIFIER \*\* Select track type. Installation of recessed track in concrete is not in the scope of storage manufacturer. Coordinate with the General Contractor as required. Delete track type not required.

* + - 1. Storage Cart Floor Track: Extruded aluminum track, 6 by 0.97 inch tall (152 by 25 mm tall), configured to receive storage unit track guides. Includes appropriate track or island stops.

\*\* NOTE TO SPECIFIER \*\* Select track type. Installation of recessed track in concrete is not in the scope of storage manufacturer. Coordinate with the General Contractor as required. Delete track type not required.

* + - * 1. Track: Floor surface mounted track.
        2. Track: Recessed floor track.
      1. Shelves:
         1. Description: Steel wire grille, powder-painted, 150 lb. (68 kg) capacity per shelf unit, bracket-hung from steel powder-painted, grille panels, adjustable in 1 inch (25.4 mm) height increments.
         2. Hat Shelf Depth: 32 inch (810 mm).

\*\* NOTE TO SPECIFIER \*\* Delete below if liners are not required.

* + - * 1. Liners: Plastic sheet, sized to fit shelf, with securing clips.

Depth: 32 inch (810 mm).

\*\* NOTE TO SPECIFIER \*\* Delete one option for quantity.

Quantity: As indicated on the Drawings.

Quantity: \_\_\_\_\_\_.

* + - * 1. Shelf Lips: Steel sheet lip, powder-painted, 2-1/2 or 4 inch (63.5 or 102 mm) high, fastened to shelf with adjustable thumbscrews.
      1. Garment Bars: Steel tube, 1-1/2 inch (38 mm) diameter, powder-painted, bracket hung from steel grille end panels, adjustable in 1 inch (25.4 mm) increments.
      2. Truss Hangers: Double-bar steel truss hanger for support of helmet hangers and shoulder pad hangers.
         1. Football Helmet Hanger: Formed, powder-painted steel wire, 5/16 inch diameter, 8 helmet capacity.
         2. Football Shoulder Pad Hanger: Formed, powder-painted steel wire, long and short lengths configured to hang in pairs, one pad per hanger. Provide short or long as shown on the drawings.

\*\* NOTE TO SPECIFIER \*\* Shoulder pad stackers fit 32 inch wide carts only. Delete if not required.

* + - 1. Football Shoulder Pad Stackers: Built-in shoulder pad form, powder-painted steel sheet and steel wire upright stacker, with 4 wheels, wire handles, configured to fit into storage unit chassis; 18 to 20 pad capacity.
      2. Grille End Panels: Laminated, solid panel, 5/8 inch (15.9 mm) thick with black edge band. Installed over cart end grille panels.
         1. Width: 32 inches (813 mm).
         2. Laminate Color: As selected from manufacturer's standard color options.

\*\* NOTE TO SPECIFIER \*\* Side closure only used on one side of a 32 inch wide cart, except if cart has shoulder pad hangers, then bypass doors are required. Not available for 48 inch wide carts and 32 wide carts with shoulder pad stackers. Delete if not required.

* + - 1. Side Closures: Laminated, solid panel, 5/8 inch (15.9 mm) thick with black edge band. Installed on 6 foot-6 inch (1981 mm) cart side.
         1. Laminate Color: As selected from manufacturer's standard color options.
      2. Doors: Bypass type doors, laminated, solid panel, medium density fiberboard, 5/8 inch (15.9 mm) thick, with padlock eye. Padlock by owner. Installed on 6 foot-6 inch (1981 mm) cart side.

\*\* NOTE TO SPECIFIER \*\* Soft mesh divider for 48 inch carts only, delete not required.

* + - 1. Soft Mesh Divider: Vinyl mesh that attaches to end grille panels, dividing cart in half lengthwise.
      2. Accessory Colors: as selected from manufacturer's standard range.

1. EXECUTION
   1. EXAMINATION
      1. Do not begin installation until substrates have been properly prepared.
      2. Examine installation areas and mounting surfaces with Installer present, for compliance with manufacturer's installation tolerances including required clearances, floor level, location of blocking and anchoring reinforcements, and other existing conditions that may affect installation or performance.
      3. Prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work. If preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
      4. Proceed with installation only after correction of unsatisfactory conditions.
   2. PREPARATION
      1. Clean surfaces thoroughly prior to installation.
      2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
   3. INSTALLATION
      1. Install components plumb, level, and true; using integral levelers and anchors in accordance with manufacturer's recommendations, shop drawings and other approved submittals.

\*\* NOTE TO SPECIFIER \*\* Retain paragraph below for metal shelving. Delete if not required.

* + 1. Metal Shelving Requirements:
       1. Anchor uprights to walls using anchors of type, size, and spacing recommended by manufacturer.
       2. Install shelves in each unit.
       3. Erect cantilever adjustable uprights to substrate with a maximum tolerance from vertical of 1/4 inch (6 mm).
       4. Adjust metal shelving so connectors and other components engage accurately and securely. Verify modular components fit easily into alternate locations without force or use of tools.

\*\* NOTE TO SPECIFIER \*\* Retain paragraph below for high density storage. Delete if not required.

* + 1. High-Density Storage Requirements:
       1. Install mobile storage unit tracks level and anchor according to approved shop drawings. Grout surface-mounted track where required to compensate for uneven substrate. Do not use shims for leveling.
       2. Install tracks parallel and level within 3/32 inch (2.3 mm) for each length; 1/16 inch (1.5 mm) between adjacent tracks perpendicular to track direction; and 1/32 inch in 10 feet (0.8 mm in 3 m) of track length.

\*\* NOTE TO SPECIFIER \*\* Retain paragraph below for carts. Delete if not required.

* + 1. High-Density Cart Requirements:
       1. Assemble units. Install and anchor unit tracks.

\*\* NOTE TO SPECIFIER \*\* Delete below if tracks are not recessed.

* + - * 1. Recessed tracks, installed by others, shall be fully grouted.
      1. Comply with the following tolerances:
         1. Install tracks on concrete, parallel and level within 3/32 inch (2.3 mm) for each 8 feet (2133 mm) length;
         2. 1/16 inch (1.5 mm) between adjacent tracks perpendicular to track direction;
         3. 1/32 inch in 10 feet (0.8 mm in 3 m) of track length.
      2. Set gliding storage carts in track and adjust to comply with storage cart manufacturer's written requirements.
      3. Portable and Mobile Storage Cart Installation: Assemble units. Set portable carts in indicated storage position or in track.

\*\* NOTE TO SPECIFIER \*\* Retain paragraph below for projects requiring seismic bracing.

* + 1. Install seismic fastening in accordance with approved shop drawings.
    2. Fasten components to adjacent construction through back, near top and bottom. Fasten at indicated height using fasteners recommended by manufacturer. Comply with mounting height requirements for accessible components.
    3. Through-bolt adjacent units using connector bolts provided by manufacturer.
    4. Install hardware uniformly and precisely without binding.
       1. Adjust and align hardware so moving parts operate freely and contact points meet accurately.
       2. Allow for final adjustment after installation to ensure hardware operates smoothly without warping or binding and closes with uniform reveals.
  1. DEMONSTRATION AND TRAINING
     1. Train Owner's personnel to adjust, operate, and maintain storage specialties.
     2. Turn over keys, tools, and operation and maintenance instructions to Owner.
  2. CLEANING AND PROTECTION
     1. Repair or replace defective work as directed by Architect upon inspection.
     2. Clean surfaces. Touch up marred finishes, or replace damaged components that cannot be restored to factory-finished appearance. Use only materials and procedures recommended or furnished by manufacturer.
     3. Turn over operation and maintenance instructions to Owner. Instruct the Owner's personnel upon request.
     4. Protect installed products from damage, abuse, dust, dirt, stain, or paint until completion of project. Do not permit use during construction.
  3. HIGH DENSITY STORAGE SCHEDULE
     1. Component Designation: \_\_\_\_\_\_.
        1. Manufacturer/Product: Wenger, GearBoss \_\_\_\_\_.
        2. Dimensions: \_\_\_\_\_ inch high (\_\_\_\_ mm) high by \_\_\_\_\_ inch high (\_\_\_\_ mm) wide by \_\_\_\_\_ inch high (\_\_\_\_ mm) deep, overall dimensions as shown on the drawings.
        3. Material: \_\_\_\_\_\_\_.
        4. Finish: \_\_\_\_\_\_\_.
     2. Component Designation: \_\_\_\_\_\_.
        1. Manufacturer/Product: Wenger, GearBoss \_\_\_\_\_.
        2. Dimensions: \_\_\_\_\_ inch high (\_\_\_\_ mm) high by \_\_\_\_\_ inch high (\_\_\_\_ mm) wide by \_\_\_\_\_ inch high (\_\_\_\_ mm) deep, overall dimensions as shown on the drawings.
        3. Material: \_\_\_\_\_\_\_.
        4. Finish: \_\_\_\_\_\_\_.
     3. Component Designation: \_\_\_\_\_\_.
        1. Manufacturer/Product: Wenger, GearBoss \_\_\_\_\_.
        2. Dimensions: \_\_\_\_\_ inch high (\_\_\_\_ mm) high by \_\_\_\_\_ inch high (\_\_\_\_ mm) wide by \_\_\_\_\_ inch high (\_\_\_\_ mm) deep, overall dimensions as shown on the drawings.
        3. Material: \_\_\_\_\_\_\_.
        4. Finish: \_\_\_\_\_\_\_.

END OF SECTION