SECTION 11 68 00

INDOOR AND OUTDOOR SPORTING GOODS EQUIPMENT

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\*\* NOTE TO SPECIFIER \*\* Bison, Inc.; Indoor & Outdoor Sporting Goods Equipment.  
This section is based on the products of Bison, Inc., which is located at:645 L St.Lincoln, NE 68508Toll Free Tel: 800-247-7668Fax: 800-638-0698Email: [request info (orderdesk@bisoninc.com)](https://arcat.com/rfi?action=email&company=Bison%252C%252BInc.&message=RE%253A%2520Spec%2520Question%2520(11680bsn)%253A%2520&coid=48961&spec=11680bsn&rep=&fax=800-638-0698)  
Web: <https://bisoninc.com>   
 [ [Click Here](https://arcat.com/company/bison-inc-48961) ] for additional information.

1. GENERAL
   1. SECTION INCLUDES

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

* + 1. Indoor, Outdoor Sporting Goods Equipment:
       1. Basketball equipment.
       2. Badminton and pickleball equipment.
       3. Tennis equipment.
       4. Tetherball equipment.
       5. Outdoor/Sand volleyball equipment.
       6. Bleachers.
       7. Benches.
       8. Football goalposts.
       9. Soccer goalposts.
  1. RELATED SECTIONS

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

* + 1. Section 03 30 00 - Cast-in-Place Concrete.
  1. SUBMITTALS
     1. Submit under provisions of Section 01 30 00.
     2. Product Data:
        1. Manufacturer's data sheets on each product to be used.
        2. Preparation instructions and recommendations.
        3. Storage and handling requirements and recommendations.
        4. Typical installation methods.

\*\* NOTE TO SPECIFIER \*\* Delete if not applicable to product type.

* + 1. Verification Samples: Two representative units of each type, size, pattern, and color.
    2. Shop Drawings: Include details of materials, construction, and finish. Include relationship with adjacent construction.
  1. QUALITY ASSURANCE
     1. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum of five Years documented experience.
     2. Installer Qualifications: Company specializing in performing Work of this section with minimum two Years documented experience with projects of similar scope and complexity.
     3. Source Limitations: Provide each type of product from a single manufacturing source to ensure uniformity.
  2. PRE-INSTALLATION CONFERENCE
     1. Convene a conference approximately two weeks before scheduled commencement of the Work. Attendees shall include Architect, Contractor and trades involved. Agenda shall include schedule, responsibilities, critical path items and approvals.
  3. DELIVERY, STORAGE, AND HANDLING
     1. Store and handle in strict compliance with manufacturer's written instructions and recommendations.
     2. Protect from damage due to weather, excessive temperature, and construction operations.
  4. PROJECT CONDITIONS
     1. Maintain environmental temperature, humidity, and ventilation conditions within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.
  5. WARRANTY
     1. Manufacturer's standard Limited warranty unless indicated otherwise.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: Bison, Inc., which is located at:645 L St.Lincoln, NE 68508Toll Free Tel: 800-247-7668Fax: 800-638-0698Email: [request info (orderdesk@bisoninc.com)](https://arcat.com/rfi?action=email&company=Bison%252C%252BInc.&message=RE%253A%2520Spec%2520Question%2520(11680bsn)%253A%2520&coid=48961&spec=11680bsn&rep=&fax=800-638-0698);Web: <https://bisoninc.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 the provisions of Section 01 60 00.

\*\* NOTE TO SPECIFIER \*\* Delete articles not required.

* 1. BASKETBALL EQUIPMENT
     1. Performance and Design Requirements
        1. Products listed in this article are designed and manufactured following the ASTM F3731 guidelines.
     2. Fixed Height Basketball Systems:

\*\* NOTE TO SPECIFIER \*\* Delete fixed height basketball system options not required.

* + - 1. Mega-Duty Finished Aluminum Fan Gooseneck Playground System: PR75.
         1. Pole: 5-9/16 inch OD schedule 40 structural steel pipe, hot dipped galvanized.
         2. Design: Bent gooseneck pole for 48 inch bury and 72 inch extension from pole front to backboard face.
         3. Backboard: Fan shaped, 35-1/2 x 54 inch cast aluminum with 35 inch of support ribs cast into rear of backboard. Total Thickness: 1-1/2 inch. Finish: White textured polyester powder coat. Shooters Square and Border: Official sized, orange.
         4. Braces: Two 1-5/8 inch dia tubular, 13 ga thickness, galvanized, flow coated, at upper corner of backboard, and one 1-5/8 inch dia 13 ga tubular brace extended from horizontal extension arm to vertical pole, connected directly to pole.
         5. Rim: Two 5/8 inch dia AISI 1018 cold drawn carbon steel rings welded at 6 points, with continuously welded 3/16 inch thick back and side plates, and punched to mount on any front mount backboard. Rim Finish: Orange powder coat.
         6. Rim Mount: Directly through horizontal pole section through backboard.
         7. Continuous Netlocks: 3/16 x 1 inch steel with punched attachment slots for nylon or chain net.
         8. Mounting hardware and nylon net included. Approximate Weight: 360 lbs.

\*\* NOTE TO SPECIFIER \*\* Pole systems without backboard support braces are not considered equal.

* + - 1. Mega-Duty Finished Aluminum Fan Extended Gooseneck Playground System: PR75XL.
         1. Pole: 5-9/16 inch OD schedule 40 structural steel pipe, hot dipped galvanized.
         2. Design: Bent gooseneck pole for 48 inch bury and 72 inch extension from pole front to backboard face.
         3. Backboard: Fan shaped, 35-1/2 x 54 inch cast aluminum with 35 inch of support ribs cast into rear of backboard. Total Thickness: 1'1/2 inch. Finish: White textured polyester powder coat. Shooters Square and Border: Official sized, orange.
         4. Braces: Two 1-5/8 inch dia tubular, 13 ga thickness, galvanized, flow coated, at upper corner of backboard, and one 1-5/8 inch dia, 13 ga tubular brace extended from horizontal extension arm to vertical pole, connected directly to pole.
         5. Rim: Two 5/8 inch dia AISI 1018 cold drawn carbon steel rings welded at 6 points, with continuously welded 3/16 inch thick back and side plates, and punched to mount on any front mount backboard. Rim Finish: Orange powder coat.
         6. Rim Mount: Directly through horizontal pole section through backboard.
         7. Continuous Netlocks: 3/16 x 1 inch steel with punched attachment slots for nylon or chain net.
         8. Mounting hardware and nylon net included. Approximate Weight: 400 lbs.
      2. Mega-Duty Steel Fan Gooseneck Playground System: PR76.
         1. Pole: 5-9/16 inch OD schedule 40 structural steel pipe, hot dipped galvanized.
         2. Design: Bent gooseneck pole for 48 inch bury and 72 inch extension from pole front to backboard face.
         3. Backboard: Fan shaped, 39 x 54 inch welded steel with 12 ga mild steel skin, and 7ga and 10 ga support structure and 1-1/2 inch lip formed edges, accepting rims with a 5 x 5 inch hole pattern. Finish: White polyester powder coated.
         4. Shooters Square and Border: Official sized, orange.
         5. Braces: Two 1-5/8 inch dia tubular, 13 ga, galvanized, flow coated, at upper corner of backboard, and one 1-5/8 inch dia, 13 ga tubular brace extended from horizontal extension arm to vertical pole, connected directly to pole.
         6. Rim: Two 5/8 inch dia AISI 1018 cold drawn carbon steel rings welded at 6 points, with continuously welded 3/16 inch thick back and side plates, punched to mount on any front mount backboard. Rim Finish: Orange powder coat.
         7. Rim Mount: Directly through horizontal pole section through backboard.
         8. Continuous Netlocks: 3/16 x 1 inch steel, punched attachment slots for nylon or chain net.
         9. Mounting hardware and nylon net included. Approximate Weight: 405 lbs.

\*\* NOTE TO SPECIFIER \*\* Pole systems without backboard support braces are not considered equal.

* + - 1. Mega-Duty Steel Rectangular Gooseneck Playground System: PR77.
         1. Pole: 5-9/16 inch OD schedule 40 structural steel pipe, hot dipped galvanized.
         2. Design: Bent gooseneck pole for 48 inch bury and 72 inch extension from pole front to backboard face.
         3. Backboard: Rectangular, 42 x 60 inch welded steel with 12 ga mild steel skin, and 7ga and 10 ga support structure with no exposed shear edges, accepting rims with 5 x 5 inch hole pattern. Finish: White polyester powder coated.
         4. Shooters Square and Border: Official sized, orange.
         5. Braces: Two 1-5/8 inch dia, tubular, 13 ga, galvanized, flow coated, at upper corner of backboard, and one 1-5/8 inch dia, 13 ga tubular brace extended from horizontal extension arm to vertical pole, connected directly to pole.
         6. Rim: Two 5/8 inch dia AISI 1018 cold drawn carbon steel rings welded at 6 points, with continuously welded 3/16 inch thick back and side plates, punched to mount on any front mount backboard. Rim Finish: Orange powder coat.
         7. Rim Mount: Directly through horizontal pole section through backboard.
         8. Continuous Netlocks: 3/16 x 1 inch steel, punched attachment slots for nylon or chain net.
         9. Mounting hardware and nylon net included. Approximate Weight: 450 lbs.
      2. Mega-Duty Steel Rectangle Extended Gooseneck Playground System: PR77XL.
         1. Pole: 5-9/16 inch OD schedule 40 structural steel pipe, hot dipped galvanized.
         2. Design: Bent gooseneck pole for 48 inch bury and 96 inch extension from pole front to backboard face.
         3. Backboard: Rectangular, 42 x 60 inch welded steel with 12 ga mild steel skin, and 7ga and 10 ga support structure with no exposed shear edges, accepting rims with 5 x 5 inch hole pattern. Finish: White polyester powder coated.
         4. Shooters Square and Border: Official sized, orange.
         5. Braces: Two 1-5/8 inch dia tubular, 13 ga, galvanized, flow coated, at upper corner of backboard, and one 1-5/8 inch dia, 13 ga tubular brace extended from horizontal extension arm to vertical pole, connected directly to pole.
         6. Rim: Two 5/8 inch dia AISI 1018 cold drawn carbon steel rings welded at 6 points, with continuously welded 3/16 inch thick back and side plates, punched to mount on any front mount backboard. Rim Finish: Orange powder coat.
         7. Rim Mount: Directly through horizontal pole section through backboard.
         8. Continuous Netlocks: 3/16 x 1 inch steel, punched attachment slots for nylon or chain net.
         9. Mounting hardware and nylon net included. Approximate Weight: 490 lbs.
      3. Mega-Duty Polycarbonate Gooseneck Playground System: PR78.
         1. Pole: 5-9/16 inch OD schedule 40 structural steel pipe, hot dipped galvanized.
         2. Design: Bent gooseneck pole for 48 inch bury and 72 inch extension from pole front to backboard face.
         3. Backboard: Rectangular, 42 x 54 inch clear polycarbonate, 1/2 inch thick, framed with aluminum extrusions, with 7 ga steel corner brackets, tubular sub-frame mounted to rear of backboard with threaded inserts for brace attachment, and accepting rims with 5 x 4 inch mounting pattern. Shooters Square and Border: White.
         4. Braces: Two 1-5/8 inch dia tubular, 13 ga, galvanized, flow coated, at upper corner of backboard, and one 1-5/8 inch dia, 13 ga tubular brace extended from horizontal extension arm to vertical pole, connected directly to pole.
         5. Rim: Flexible, spring actioned by compression spring and internal mechanisms enclosed in a steel cover plate, official sized, institutional quality, 5/8 inch dia AISI 1018 cold drawn carbon steel ring supported by a 3/16 x 1-1/2 inch rim support, welded 180 deg. of ring bottom with 3/16 inch thick structural components and punched to mount on any front mount backboard. Rim Finish: Orange powder coat. Rim Mount: Directly through horizontal pole section through backboard.
         6. Continuous Netlocks: One piece wire net attachment system.
         7. Mounting hardware and nylon net included. Approximate Weight: 440 lbs.

\*\* NOTE TO SPECIFIER \*\* Pole systems without backboard support braces are not considered equal.

* + - 1. Mega-Duty Perforated Steel Gooseneck Playground System: PR79.
         1. Pole: 5-9/16 inch OD schedule 40 structural steel pipe, hot dipped galvanized.
         2. Design: Bent gooseneck pole for 48 inch bury and 72 inch extension from pole front to backboard face.
         3. Backboard: Rectangular, 42 x 72 inch welded steel with 12 ga steel skin, and 7ga and 10 ga steel support structure with safety rolled skin edges and allowing mounting to 36 x 62 inch fan supports, perforated in all areas except official sized shooter square, and accepting rims with 5 x 4 inch hole pattern. Finish: White powder coated.
         4. Braces: Two 1-5/8 inch dia tubular, 13 ga, galvanized, flow coated, at upper corner of backboard, and one 1-5/8 inch dia, 13 ga tubular brace extended from horizontal extension arm to vertical pole, connected directly to pole.
         5. Rim: Two 5/8 inch dia AISI 1018 cold drawn carbon steel rings welded at 6 points, with continuously welded 3/16 inch thick back and side plates, punched to mount on any front mount backboard. Rim Finish: Orange powder coat.
         6. Rim Mount: Directly through horizontal pole section through backboard.
         7. Continuous Netlocks: 3/16 x 1 inch steel, punched attachment slots for nylon or chain net.
         8. Mounting hardware and nylon net included. Approximate Weight: 450 lbs.
      2. Mega-Duty Perforated Steel Extended Gooseneck Playground System: PR79XL.
         1. Pole: 5-9/16 inch OD schedule 40 structural steel pipe, hot dipped galvanized.
         2. Design: Bent gooseneck pole for 48 inch bury and 96 inch extension from pole front to backboard face.
         3. Backboard: 42 x 72 inch welded steel with 12 ga steel skin, and 7ga and 10 ga steel support structure, safety rolled skin edges, mounting to 36 x 62 inch fan supports, perforated in all areas except official sized shooter square.
         4. Rim: Two 5/8 inch dia AISI 1018 cold drawn steel rings welded at 6 points, with continuously welded 3/16 inch thick back and side plates and punched to mount on any front mount backboard. Rim Finish: Orange powder coat.
         5. Rim Mount: Directly through horizontal pole section through backboard.
         6. Continuous Netlocks: 3/16 x 1 inch steel with punched attachment slots for nylon or chain net.
         7. Mounting hardware and nylon net included. Approximate Weight: 510 lbs.
      3. Mega-Duty Steel Gooseneck Playground System: PR87.
         1. Pole: 5-9/16 inch OD schedule 40 structural steel pipe, hot dipped galvanized.
         2. Design: Bent gooseneck pole for 48 inch bury and 72 inch extension from pole front to backboard face.
         3. Backboard: Rectangular, 42 x 72 inch welded steel with 12 ga steel skin, and 7ga and 10 ga steel support structure with safety rolled skin edges and allowing mounting to 36 x 62 inch fan supports, and accepting rims with 5 x 4 inch hole pattern. Finish: White powder coated. Shooters Square: Official sized, orange.
         4. Braces: Two 1-5/8 inch dia tubular, 13 ga, galvanized, flow coated, at upper corner of backboard, and one 1-5/8 inch dia, 13 ga tubular brace extended from horizontal extension arm to vertical pole, connected directly to pole.
         5. Rim: Two 5/8 inch dia AISI 1018 cold drawn steel rings welded at 6 points, with continuously welded 3/16 inch thick back and side plates, and punched to mount on any front mount backboard. Rim Finish: Orange powder coat.
         6. Rim Mount: Directly through horizontal pole section through backboard.
         7. Continuous Netlocks: 3/16 x 1 inch steel with punched attachment slots for nylon or chain net.
         8. Mounting hardware and nylon net included. Approximate Weight: 475 lbs.

\*\* NOTE TO SPECIFIER \*\* Pole systems without backboard support braces are not considered equal.

* + - 1. Mega-Duty Steel Extended Gooseneck Playground System: PR87XL.
         1. Pole: 5-9/16 inch OD schedule 40 structural steel pipe, hot dipped galvanized.
         2. Design: Bent gooseneck pole for 48 inch bury and 96 inch extension from pole front to backboard face.
         3. Backboard: Rectangular, 42 x 72 inch steel with 12 ga steel skin, and 7ga and 10 ga steel support structure with safety rolled skin edges and allowing mounting to 36 x 62 inch fan supports, and accepting rims with 5 x 4 inch hole pattern. Finish: White powder coated. Shooters Square: Official sized, orange.
         4. Braces: Two 1-5/8 inch dia tubular, 13 ga, galvanized, flow coated, at upper corner of backboard, and one 1-5/8 inch dia, 13 ga tubular brace extended from horizontal extension arm to vertical pole, connected directly to pole.
         5. Rim: Two 5/8 inch dia AISI 1018 cold drawn steel rings welded at 6 points, with continuously welded 3/16 inch thick back and side plates, and punched to mount on any front mount backboard. Rim Finish: Orange powder coat.
         6. Rim Mount: Directly through horizontal pole section through backboard.
         7. Continuous Netlocks: 3/16 x 1 inch steel with punched attachment slots for nylon or chain net.
         8. Mounting hardware and nylon net included. Approximate Weight: 515 lbs.
      2. Mega-Duty Unbreakable Polycarbonate Playground System: PR74.
         1. Pole: 5-9/16 inch OD schedule 40 structural steel pipe, hot dipped galvanized.
         2. Design: Bent gooseneck pole for 48 inch bury and 72 inch extension from pole front to backboard face.
         3. Backboard: 42 x 72 inch clear polycarbonate, 1/2 inch thick, framed with aluminum extrusions, 7 ga steel corner brackets, tubular sub-frame mounted to rear of backboard with threaded inserts for brace attachment, and accepting rims with a 5 x 4 inch mounting pattern. Shooters Square and Border: White.
         4. Braces: Two 1-5/8 inch dia tubular, 13 ga, galvanized, flow coated, at upper corner of backboard, and one 1-5/8 inch dia 13 ga tubular brace extended from horizontal extension arm to vertical pole, connected directly to pole.
         5. Rim: Flexible, spring actioned by compression spring and internal mechanisms enclosed in a steel cover plate, official sized, institutional quality, 5/8 inch dia AISI 1018 cold drawn carbon steel ring supported by a 3/16 x 1-1/2 inch rim support, welded 180 deg. of ring bottom with 3/16 inch thick structural components and punched to mount on any front mount backboard. Rim Finish: Orange powder coat.
         6. Rim Mount: Directly through horizontal pole section through backboard.
         7. Continuous Netlocks: One piece wire net attachment system.
         8. Mounting hardware and nylon net included. Approximate Weight: 500 lbs.

\*\* NOTE TO SPECIFIER \*\* Pole systems without backboard support braces are not considered equal.

* + - 1. Heavy-Duty Finished Aluminum Fan Gooseneck Playground System: PR52.
         1. Pole: 4-1/2 inch OD RS40 steel tube, 7 ga wall, galvanized, flow coated.
         2. Design: Bent gooseneck pole for 48 inch in-ground bury and a 48 inch extension from pole front to backboard face.
         3. Braces: Two 1-5/8 inch dia tubular steel, 13 ga thickness, galvanized, flow coated, supporting top of backboard and connected directly to pole.
         4. Backboard: Fan shaped, 35-1/2 x 54 inch cast aluminum with 35 inch of support ribs cast into rear of backboard, 3/16 inch thick playing surface, 1-1/2 inch total thickness. Finish: White textured polyester powder coated with official sized orange shooters square and border.
         5. Rim: Two 5/8 inch dia AISI 1018 cold drawn carbon steel rings welded in 6 places, with continuously welded 3/16 inch thick back and side plates. Finish: Orange powder coat.
         6. Rim Mount: Directly through horizontal pole section through backboard, punched to mount on any front mount backboard.
         7. Continuous Netlocks: 3/16 x 1 inch steel, punched slots for nylon or chain net.
         8. Mounting hardware and nylon net included. Approximate Weight: 235 lbs.
      2. Heavy-Duty Finished Aluminum Fan Gooseneck Playground System: PR52XL.
         1. Pole: 4-1/2 inch OD RS40 steel tube, 7 ga wall, galvanized, flow coated.
         2. Design: Bent gooseneck pole for 48 inch in-ground bury and a 60 inch extension from pole front to backboard face.
         3. Braces: Two 1-5/8 inch dia tubular steel, 13 ga thickness, galvanized, flow coated, supporting top of backboard and connected directly to pole.
         4. Backboard: Fan shaped, 35-1/2 x 54 inch cast aluminum, with 35 inch of support ribs cast into rear of backboard, 3/16 inch thick playing surface, 1/2 inch total thickness.
         5. Finish: White textured polyester powder coated with official sized orange shooters square and border.
         6. Rim: Two 5/8 inch dia AISI 1018 cold drawn carbon steel rings welded in 6 places, with continuously welded 3/16 inch thick back and side plates. Finish: Orange powder coat.
         7. Rim Mount: Directly through horizontal pole section through backboard, punched to mount on any front mount backboard.
         8. Continuous Netlocks: 3/16 x 1 inch steel, punched slots for nylon or chain net.
         9. Mounting hardware and nylon net included. Approximate Weight: 245 lbs.
      3. Heavy-Duty Steel Fan Gooseneck Playground System: PR55.
         1. Pole: 4-1/2 inch OD RS40 steel tube, 7 ga wall, galvanized, flow coated.
         2. Design: Bent gooseneck pole for 48 inch in-ground bury and a 48 inch extension from pole front to backboard face.
         3. Braces: Two 1-5/8 inch dia tubular steel, 13 ga thickness, galvanized, flow coated, supporting top of backboard and connected directly to pole.
         4. Backboard: Fan shaped, 39 x 54 inch welded steel with 12 ga mild steel skin, and 7ga and 10 ga support structure and 1-1/2 inch lip formed edges accepting rims with a 5 x 5 inch hole pattern. Finish: White polyester powder coated with orange official sized shooters square and border.
         5. Rim: Two, official, 5/8 inch dia AISI 1018 cold drawn carbon steel rings welded together at 6 points, with continuously welded 3/16 inch thick back and side plates, supported by a 1/2 inch dia steel brace and punched to mount on any front mount backboard. Finish: Orange powder coat.
         6. Rim Mount: Directly to horizontal pole section through backboard.
         7. Continuous Netlocks: 3/16 x 1 inch steel, punched slots for nylon or chain net.
         8. Mounting hardware and nylon net included. Approximate Weight: 275 lbs.
      4. Heavy-Duty Steel Fan Gooseneck Playground System: PR55XL.
         1. Pole: 4-1/2 inch OD RS40 steel tube, 7 ga wall, galvanized, flow coated.
         2. Design: Bent gooseneck pole for 48 inch in-ground bury and a 60 inch extension from pole front to backboard face.
         3. Braces: Two 1-5/8 inch dia tubular steel, 13 ga thickness, galvanized, flow coated, supporting top of backboard and connected directly to pole.
         4. Backboard: Fan shaped, 39 x 54 inch welded steel with 12 ga mild steel skin, and 7ga and 10 ga support structure and 1-1/2 inch lip formed edges accepting rims with a 5 x 5 inch hole pattern. Finish: White polyester powder coated with orange official sized shooters square and border.
         5. Rim: Two, official, 5/8 inch dia AISI 1018 cold drawn carbon steel rings welded together at 6 points, with continuously welded 3/16 inch thick back and side plates, supported by a 1/2 inch dia steel brace and punched to mount on any front mount backboard. Finish: Orange powder coat.
         6. Rim Mount: Directly to horizontal pole section through backboard.
         7. Continuous Netlocks: 3/16 x 1 inch steel, punched slots for nylon or chain net.
         8. Mounting hardware and nylon net included. Approximate Weight: 285 lbs.

\*\* NOTE TO SPECIFIER \*\* Pole systems without backboard support braces are not considered equal.

* + - 1. Heavy-Duty Steel Rectangle Gooseneck Playground System: PR60.
         1. Pole: 4-1/2 inch OD RS40 steel tube, 7 ga wall thickness, galvanized, flow coated.
         2. Design: Bent gooseneck pole for 48 inch in-ground bury and a 48 inch extension from pole front to backboard face.
         3. Braces: Two 1-5/8 inch dia tubular, 13 ga thickness, galvanized, flow coated, supporting top of backboard and connected directly to pole.
         4. Backboard: Rectangular, 42 x 60 inch welded steel with inch 12 ga steel skin and 7 ga and 10 ga steel and rear structure with no exposed shear edges, accepting rims with a 5 x 5 inch mounting pattern. Finish: White polyester powder coated with orange official sized shooters square and border.
         5. Rim: Two official, 5/8 inch dia AISI 1018 cold drawn carbon steel rings welded together at 6 points, with continuously welded 3/16 inch thick back and side plates and punched to mount on any front mount backboard. Finish: Orange powder coat.
         6. Rim Mount: Directly through horizontal pole section through backboard.
         7. Continuous Netlocks: 3/16 x 1 inch steel with punched slots for nylon or chain net.
         8. Mounting hardware and nylon net included. Approximate Weight: 320 lbs.
      2. Heavy-Duty Steel Rectangle Gooseneck Playground System: PR60XL.
         1. Pole: 4-1/2 inch OD RS40 steel tube, 7 ga wall thickness, galvanized, flow coated.
         2. Design: Bent gooseneck pole for 48 inch in-ground bury and a 60 inch extension from pole front to backboard face.
         3. Braces: Two 1-5/8 inch dia tubular steel, 13 ga thickness, galvanized, flow coated, supporting top of backboard and connected directly to pole.
         4. Backboard: Rectangular, 42 x 60 inch welded steel with inch 12 ga steel skin and 7 ga and 10 ga steel and rear structure with no exposed shear edges, accepting rims with a 5 x 5 inch mounting pattern. Finish: White polyester powder coated with orange official sized shooters square and border.
         5. Rim: Two official, 5/8 inch dia AISI 1018 cold drawn carbon steel rings welded together at 6 points, with continuously welded 3/16 inch thick back and side plates, punched to mount on any front mount backboard. Finish: Orange powder coat.
         6. Rim Mount: Directly through horizontal pole section through backboard.
         7. Continuous Netlocks: 3/16 x 1 inch steel with punched slots for nylon or chain net.
      3. Heavy-Duty Polycarbonate Rectangle Gooseneck Playground System: PR70.
         1. Pole: 4-1/2 inch OD RS40 steel tube, 7 ga wall, galvanized, flow coated.
         2. Design: Bent gooseneck pole for 48 inch in-ground bury and a 48 inch extension from pole front to backboard face.
         3. Braces: Two 1-5/8 inch dia tubular steel, 13 ga thickness, galvanized, flow coated, supporting top of backboard and connected directly to pole.
         4. Backboard: Rectangular, 42 x 54 inch clear unbreakable polycarbonate, 1/2 inch thick, framed with aluminum extrusions with 7 ga steel corner brackets and tubular sub-frame mounted to rear of backboard with threaded inserts for brace attachment, and accepting rims with a 5 x 4 inch mounting pattern.
         5. Shooters Square and Border: White.
         6. Rim: Flexible, spring actioned by compression spring and internal mechanisms enclosed in a steel cover plate, official sized, institutional quality, 5/8 inch dia AISI 1018 cold drawn carbon steel ring supported by a 3/16 x 1-1/2 inch rim support, welded 180 deg. of ring bottom with 3/16 inch thick structural components and punched to mount on any front mount backboard. Rim Finish: Orange powder coat.
         7. Rim Mount: Directly through horizontal pole section through backboard.
         8. Continuous Netlocks: One piece wire net attachment system.
         9. Mounting hardware and nylon net included. Approximate Weight: 300 lbs.

\*\* NOTE TO SPECIFIER \*\* Pole systems without backboard support braces are not considered equal.

* + - 1. Heavy-Duty Polycarbonate Rectangle Gooseneck Playground System: PR70XL.
         1. Pole: 4-1/2 inch OD RS40 steel tube, 7 ga wall, galvanized, flow coated.
         2. Design: Bent gooseneck pole for 48 inch in-ground bury and a 60 inch extension from pole front to backboard face.
         3. Braces: Two 1-5/8 inch dia tubular steel, 13 ga thickness, galvanized, flow coated, supporting top of backboard and connected directly to pole.
         4. Backboard: Rectangular, 42 x 54 inch clear unbreakable polycarbonate, 1/2 inch thick, framed with aluminum extrusions with 7 ga steel corner brackets and tubular sub-frame mounted to rear of backboard with threaded inserts for brace attachment, and accepting rims with a 5 x 4 inch mounting pattern.
         5. Shooters Square and Border: White.
         6. Rim: Flexible, spring actioned by compression spring and internal mechanisms enclosed in a steel cover plate, official sized, institutional quality, 5/8 inch dia AISI 1018 cold drawn carbon steel ring supported by a 3/16 x 1-1/2 inch rim support, welded 180 deg. of ring bottom with 3/16 inch thick structural components and punched to mount on any front mount backboard. Rim Finish: Orange powder coat.
         7. Rim Mount: Directly through horizontal pole section through backboard.
         8. Continuous Netlocks: One piece wire net attachment system.
         9. Mounting hardware and nylon net included. Approximate Weight: 310 lbs.
      2. Heavy-Duty Glass Rectangle Gooseneck Playground System: PR70G.
         1. Pole: 4-1/2 inch OD RS40 steel tube, 7 ga wall, galvanized, flow coated.
         2. Design: Bent gooseneck pole for 48 inch in-ground bury and a 48 inch extension from pole front to backboard face.
         3. Braces: Two 1-5/8 inch dia tubular steel, 13 ga thickness, galvanized, flow coated, supporting top of backboard and connected directly to pole.
         4. Backboard: Rectangular, 42 x 54 inch clear tempered glass, 1/2 inch thick, framed with aluminum extrusions with 7 ga steel corner brackets and steel rear structure mounted into aluminum framework, and accepting rims with a 5 x 4 inch mounting pattern.
         5. Shooters Square and Border: Fire impregnated into backboard.
         6. Rim: Flexible, spring actioned by compression spring and internal mechanisms enclosed in a steel cover plate, official sized, institutional quality, 5/8 inch dia AISI 1018 cold drawn carbon steel ring supported by a 3/16 x 1-1/2 inch rim support, welded 180 deg. of ring bottom with 3/16 inch thick structural components and punched to mount on any front mount backboard. Rim Finish: Orange powder coat.
         7. Rim Mount: Directly through horizontal pole section through backboard.
         8. Continuous Netlocks: One piece wire net attachment system.
         9. Mounting hardware and nylon net included. Approximate Weight: 330 lbs.

\*\* NOTE TO SPECIFIER \*\* Pole systems without backboard support braces are not considered equal.

* + - 1. Tough-Duty Finished Aluminum Fan Gooseneck Playground System: PR29.
         1. Pole: 3-1/2 inch OD RS40 steel tube, 8 ga wall, galvanized, flow coated.
         2. Design: Bent gooseneck pole for 36 inch in-ground bury and a 36 inch extension from pole front to backboard face.
         3. Braces: Two 1-5/8 inch dia tubular steel, 13 ga thickness, galvanized, flow coated, supporting top of backboard and connected directly to pole.
         4. Backboard: Fan shaped, 35-1/2 x 54 inch cast aluminum, with 35 inch of support ribs cast into rear of backboard, 3/16 inch thick playing surface, 1-1/2 inch total thickness. Finish: White textured polyester powder coated with orange official sized shooters square and border.
         5. Rim: Official, 5/8 inch dia AISI 1018 cold drawn carbon steel rings, with 3/16 inch thick backplate, supported by a 1/2 inch dia steel brace. Finish: Orange powder coat.
         6. Rim Mount: Directly through horizontal pole section through backboard.
         7. Continuous Netlocks: Wire formed for nylon net.
         8. Mounting hardware and net included. Approximate Weight: 175 lbs.
      2. Tough-Duty Rectangle Steel Gooseneck Playground System: PR31.
         1. Pole: 3-1/2 inch OD RS40 steel tube, 8 ga wall, galvanized, flow coated.
         2. Design: Bent gooseneck pole for 36 inch in-ground bury and a 36 inch extension from pole front to backboard face.
         3. Braces: Two 1-5/8 inch dia tubular steel, 13 ga thickness, galvanized, flow coated, supporting top of backboard and connected directly to pole.
         4. Backboard: Rectangular, 39 x 54 inch 12 ga steel with 1-1/2 inch lip formed edges. Finish: White polyester powder coat.
         5. Rear Support Channel: 10 ga mild steel.
         6. Shooters Square: Official size, perforated holes.
         7. Rim: Official, 5/8 inch dia AISI 1018 cold drawn carbon steel rings, with continuously welded 3/16 inch thick back and side plates supported by a 1/2 inch dia steel brace, removable from track style rim mounting plate with a rim removal pole. Finish: Orange powder coat.
         8. Rim Mount: Directly through horizontal pole section through backboard.
         9. Continuous Netlocks: Wire formed for nylon net.
         10. Mounting hardware and net included. Approximate Weight: 235 lbs.
      3. Tough-Duty Steel Fan Gooseneck Playground System: PR20.
         1. Pole: 3-1/2 inch OD RS40 steel tube, 8 ga wall thickness, galvanized, flow coated.
         2. Design: Bent gooseneck pole for 36 inch in-ground bury and a 36 inch extension from pole front to backboard face.
         3. Braces: Two 1-5/8 inch dia tubular steel, 13 ga thickness, galvanized, flow coated, supporting top of backboard and connected directly to pole.
         4. Backboard: Fan shaped, 39 x 54 inch welded steel with 12 ga mild steel skin, and 7ga and 10 ga support structure and 1-1/2 inch lip formed edges accepting rims with a 5 x 5 inch hole pattern. Finish: White polyester powder coated with orange official sized shooters square and border.
         5. Rim: Official, 5/8 inch dia AISI 1018 cold drawn carbon steel rings, with 3/16 inch thick backplate, supported by a 1/2 inch dia steel brace. Finish: Orange powder coat.
         6. Rim Mount: Directly to horizontal pole section through backboard.
         7. Continuous Netlocks: Wire formed for nylon net.
         8. Mounting hardware and net included. Approximate Weight: 215 lbs.
      4. Tough-Duty Removable Gooseneck Playground System: PR33.
         1. Pole: 3-1/2 inch OD RS40 steel tube, 8 ga wall, galvanized, flow coated.
         2. Design: Bent gooseneck pole for 36 inch in-ground bury and a 36 inch extension from pole front to backboard face.
         3. Braces: Two 1-5/8 inch dia tubular steel, 13 ga thickness, galvanized, flow coated, supporting top of backboard and connected directly to pole.
         4. Backboard: Fan shaped, 35-1/2 x 54 inch cast aluminum, with 35 inch of support ribs cast into rear of backboard, 3/16 inch thick playing surface, 1-1/2 inch total thickness. Finish: White powder coated.
         5. Rim: Official, 5/8 inch dia AISI 1018 cold drawn carbon steel rings, with continuously welded 3/16 inch thick back and side plates supported by a 1/2 inch dia steel brace, removable from track style rim mounting plate with a rim removal pole. Finish: Orange powder coat.
         6. Rim Mount: Directly through horizontal pole section through backboard.
         7. Continuous Netlocks: Wire formed for nylon net.
         8. Mounting hardware and net included. Approximate Weight: 180 lbs.

\*\* NOTE TO SPECIFIER \*\* Pole systems without support braces are not considered equal.

* + - 1. Ultimate Playground Basketball System: BA871-BK.
         1. Pole: Two piece 6 inch sq, 3/16 inch wall structural steel tube, attached in center by two 3/8 x 3 x 12 inch steel bars, and eight 1/2 x 3/4 inch button head cap screws, capped. Finish: Black textured polyester powder coat.
         2. Design: Upright pole for 39 inch bury and straight adjustable extension for 72 inch offset from face of pole to face of backboard. Rim mounts directly to horizontal pole through backboard.
         3. Backboard: Rectangular, 42 x 60 inch, welded steel with 12 ga steel skin and safety rolled skin edges, and 7 ga and 10 ga steel rear construction mountable to 36 x 62 inch fan style supports, accepting rims with 5 x 4 inch mounting patterns. Backboard Finish: White polyester powder coat. Shooters Square: Official size, orange.
         4. Rim: Two 5/8 inch dia high strength steel rings welded at 6 points, with continuously welded 3/16 inch thick back and side plates, and punched to mount on any front mount backboard. Rim Finish: Orange powder coat.
         5. Extension Arm: 45 degree, 6 inch sq, 3/16 inch wall structural tube with 4 inch sq., 1/8 inch wall steel tube horizontal support and 1/4 inch thick steel backboard support plate, mounted with six 5/8 inch grade 8 bolts.
         6. Setback: 60 inch from front of pole to front of backboard.
         7. Continuous Netlocks: 3/16 x 1 inch steel with punched attachment slots for nylon or chain nets.
         8. Mounting hardware and nylon net are included. Weight: Approximately 500 lbs.
      2. Steel Ultimate Playground Basketball System: BA871XL-BK.
         1. Pole: Two piece 6 inch sq, 3/16 inch wall structural steel tube, attached in center by two 3/8 x 3 x 12 inch steel bars, and eight 1/2 x 3/4 inch button head cap screws, capped. Finish: Black textured polyester powder coat.
         2. Design: Upright pole for 39 inch bury and straight adjustable extension for 72 inch offset from face of pole to face of backboard. Rim mounts directly to horizontal pole through backboard.
         3. Backboard: Rectangular, 42 x 72 inch, welded steel with 12 ga steel skin and safety rolled skin edges, and 7 ga and 10 ga steel rear construction mountable to 36 x 62 inch fan style supports, accepting rims with 5 x 4 inch mounting patterns. Backboard Finish: White polyester powder coat. Shooters Square: Official size, orange.
         4. Rim: Two 5/8 inch dia high strength steel rings welded at 6 points, with continuously welded 3/16 inch thick back and side plates, and punched to mount on any front mount backboard. Rim Finish: Orange powder coat.
         5. Extension Arm: 45 degree, 6 inch sq, 3/16 inch wall structural tube with 4 inch sq., 1/8 inch wall steel tube horizontal support and 1/4 inch thick steel backboard support plate, mounted with six 5/8 inch grade 8 bolts.
         6. Setback: 60 inch from front of pole to front of backboard.
         7. Continuous Netlocks: 3/16 x 1 inch steel with punched attachment slots for nylon or chain nets.
         8. Mounting hardware and nylon net are included. Weight: Approximately 525 lbs.
      3. Steel Ultimate Double Sided Playground Basketball System: BA872-BK.
         1. Pole: Two piece 6 inch sq, 3/16 inch wall structural steel tube, attached in center by two 3/8 x 3 x 12 inch steel bars, and eight 1/2 x 3/4 inch button head cap screws, capped. Finish: Black textured polyester powder coat.
         2. Design: Upright pole for 39 inch bury and straight adjustable extension for 72 inch offset from face of pole to face of backboard. Rim mounts directly to horizontal pole through backboard.
         3. Backboard: Rectangular, 42 x 60 inch, welded steel with 12 ga steel skin and safety rolled skin edges, and 7 ga and 10 ga steel rear construction mountable to 36 x 62 inch fan style supports, accepting rims with 5 x 4 inch mounting patterns. Backboard Finish: White polyester powder coat. Shooters Square: Official size, orange.
         4. Rim: Two 5/8 inch dia high strength steel rings welded at 6 points, with continuously welded 3/16 inch thick back and side plates, and punched to mount on any front mount backboard. Rim Finish: Orange powder coat.
         5. Extension Arm: 45 degree, 6 inch sq, 3/16 inch wall structural tube with 4 inch sq., 1/8 inch wall steel tube horizontal support and 1/4 inch thick steel backboard support plate, mounted with 6 5/8 inch grade 8 bolts.
         6. Continuous Netlocks: 3/16 x 1 inch steel with punched attachment slots for nylon or chain nets.
         7. Mounting hardware and nylon net are included. Weight: Approximately 500 lbs.

\*\* NOTE TO SPECIFIER \*\* Retain setback option required.

* + - * 1. Setback: 60 inch from front of pole to front of backboard.
        2. Setback: BA870AXL: 72 inch from front of pole to front of backboard.
      1. Steel Ultimate Double Sided Playground Basketball System: BA872XL-BK.
         1. Pole: Two piece 6 inch sq, 3/16 inch wall structural steel tube, attached in center by two 3/8 x 3 x 12 inch steel bars, and eight 1/2 x 3/4 inch button head cap screws, capped. Finish: Black textured polyester powder coat.
         2. Design: Upright pole for 39 inch bury and straight adjustable extension for 72 inch offset from face of pole to face of backboard. Rim mounts directly to horizontal pole through backboard.
         3. Backboard: Rectangular, 42 x 72 inch, welded steel with 12 ga steel skin and 1-1/2 inch safety rolled lip edges, and 7 ga and 10 ga steel rear construction mountable to 36 x 62 inch fan style supports, accepting rims with 5 x 4 inch mounting patterns. Backboard Finish: White polyester powder coat. Shooters Square: Official size, orange.
         4. Rim: Two 5/8 inch dia high strength steel rings welded at 6 points, with continuously welded 3/16 inch thick back and side plates, and punched to mount on any front mount backboard. Rim Finish: Orange powder coat.
         5. Extension Arm: 45 degree, 6 inch sq, 3/16 inch wall structural tube with 4 inch sq., 1/8 inch wall steel tube horizontal support and 1/4 inch thick steel backboard support plate, mounted with six 5/8 inch grade 8 bolts.
         6. Setback: 72 inch from front of pole to front of backboard.
         7. Continuous Netlocks: 3/16 x 1 inch steel with punched attachment slots for nylon or chain nets.
         8. Mounting hardware and nylon net are included. Weight: Approximately 850 lbs.

\*\* NOTE TO SPECIFIER \*\* Retain pole padding option above if selected for this system.

* + - 1. Glass Ultimate Playground System: BA873-BK.
         1. Pole: Two piece 6 inch sq, 3/16 inch wall structural steel tube, attached in center by two 3/8 x 3 x 12 inch steel bars, and eight 1/2 x 3/4 inch button head cap screws, capped. Finish: Black textured polyester powder coat.
         2. Design: Upright pole for 39 inch bury and straight adjustable extension for 60 inch offset from face of pole to face of backboard. Rim mounts directly to horizontal pole through backboard.
         3. Backboard: Rectangular, 42 x 72 inch tempered glass, 1/2 inch thick, framed with aluminum extensions. Shooters Square and Border: White
         4. Rim: Flexible, official sized, 5/8 inch dia ring and one piece net attachment. Rim Finish: Orange powder coat.
         5. Extension Arm: 45 degree, 6 inch sq, 3/16 inch wall structural tube with 4 inch sq., 1/8 inch wall steel tube horizontal support and 1/4 inch thick steel backboard support plate, mounted with six 5/8 inch grade 8 bolts.
         6. Setback: 60 inch from front of pole to front of backboard.
         7. Weight: Approximately 550 lbs.
      2. Polycarbonate Ultimate Playground Basketball System: BA873U-BK.
         1. Pole: Two piece 6 inch sq, 3/16 inch wall structural steel tube, attached in center by two 3/8 x 3 x 12 inch steel bars, and eight 1/2 x 3/4 inch button head cap screws, capped. Finish: Black textured polyester powder coat.
         2. Design: Upright pole for 39 inch bury and straight adjustable extension for 60 inch offset from face of pole to face of backboard. Rim mounts directly to horizontal pole through backboard.
         3. Backboard: Rectangular, 42 x 72 inch clear polycarbonate, official size, 1/2 inch thick, framed with aluminum extensions. Shooters Square and Border: White.
         4. Rim: Flexible, official sized, 5/8 inch dia ring and one piece net attachment. Rim Finish: Orange powder coat.
         5. Extension Arm: 45 degree, 6 inch sq, 3/16 inch wall structural tube with 4 inch sq., 1/8 inch wall steel tube horizontal support and 1/4 inch thick steel backboard support plate, mounted with 6 5/8 inch grade 8 bolts.
         6. Mounting hardware and nylon net are included. Weight: Approximately 480 lbs.

\*\* NOTE TO SPECIFIER \*\* Retain setback option required.

* + - * 1. Setback: 60 inch from front of pole to front of backboard.
        2. Setback: BA870AXL: 72 inch from front of pole to front of backboard.
      1. Perforated Steel Ultimate Playground System BA874-BK.
         1. Pole: Two piece 6 inch sq, 3/16 inch wall structural steel tube, attached in center by two 3/8 x 3 x 12 inch steel bars, and eight 1/2 x 3/4 inch button head cap screws, capped. Finish: Black textured polyester powder coat.
         2. Design: Upright pole for 39 inch bury and straight adjustable extension for 60 inch offset from face of pole to face of backboard. Rim mounts directly to horizontal pole through backboard.
         3. Backboard: Rectangular, 42 x 72 inch, welded steel with 12 ga steel skin with 1/4 inch perforations and triple bent skin edges. Backboard Finish: White polyester powder coat. Shooters Square: Solid, non-perforated.
         4. Rim: Two 5/8 inch dia high strength steel rings welded at 6 points, with continuously welded 3/16 inch thick back and side plates. Rim Finish: Orange powder coat.
         5. Extension Arm: 45 degree, 6 inch sq, 3/16 inch wall structural tube with 4 inch sq., 1/8 inch wall steel tube horizontal support and 1/4 inch thick steel backboard support plate, mounted with 6 5/8 inch grade 8 bolts.
         6. Setback: 60 inch from front of pole to front of backboard.
         7. Continuous Netlocks: 3/16 x 1 inch steel with punched attachment slots for nylon or chain nets.
         8. Mounting hardware and nylon net are included. Weight: Approximately 525 lbs.

\*\* NOTE TO SPECIFIER \*\* Pole systems without backboard support braces are not considered equal.

* + - 1. Ultimate JR Fan Aluminum Playground Basketball System: PR15. Finish: Powder coated steel components.
         1. Pole: Two piece 5 inch sq., 1/8 inch wall structural steel tube, attached in center by two 3/8 x 3 x 12 inch steel bars, and eight 1/2 x 3/4 inch button head cap screws, capped.
         2. Design: Upright pole for 40 inch bury, and straight adjustable extension for 36 inch offset from face of pole to face of backboard. Rim mounts directly to horizontal pole through backboard, semi-permanently mounted between 6 ft. and 10 ft. official.
         3. Backboard: Fan shaped, 35-1/2 x 54 inch, cast aluminum with 35 inch of support ribs cast into rear of backboard, 3/16 inch thick playing surface, 1-1/2 inch total thickness. Finish: White textured polyester powder coat.
         4. Shooters Square and Border: Official size, orange.
         5. Extension Arm: 4 inch sq 14 ga. steel tube designed for direct attachment of rim through backboard.
         6. Rim: Flexible, spring actioned by compression spring and internal mechanisms enclosed in a steel cover plate, official sized, institutional quality, 5/8 inch dia AISI 1018 cold drawn carbon steel ring supported by a 3/16 x 1-1/2 inch rim support, welded 180 deg. of ring bottom with 3/16 inch thick structural components and punched to mount on any front mount backboard. Rim Finish: Orange powder coat.
         7. Continuous Netlocks: One piece wire net attachment system.
         8. Mounting hardware and nylon net included. Approximate Weight: 265 lbs.
      2. Ultimate JR Rectangular Steel Playground System: PR17. Finish: Powder coated steel components.
         1. Pole: Two piece 5 inch sq 1/8 inch wall structural steel tube, attached in center by two 3/8 x 3 x 12 inch steel bars, and eight 1/2 x 3/4 inch button head cap screws, capped.
         2. Design: Upright pole for 40 inch bury and straight adjustable extension for 36 inch offset from face of pole to face of backboard. Rim mounts directly to horizontal pole through backboard, semi-permanently mounted between 6 ft. and 10 ft. official.
         3. Backboard: Fan shaped, 42 x 60 inch, steel, with 11 ga steel face and 7 ga steel welded to rear support structure. Finish: White powder coat.
         4. Shooters Square and Border: Official size.
         5. Extension Arm: 4 inch sq, 14 ga steel tube designed for direct attachment of rim through backboard.
         6. Rim: Flexible, spring actioned by compression spring and internal mechanisms enclosed in a steel cover plate, official sized, institutional quality, 5/8 inch dia AISI 1018 cold drawn carbon steel ring supported by a 3/16 x 1-1/2 inch rim support, welded 180 deg. of ring bottom with 3/16 inch thick structural components and punched to mount on any front mount backboard. Rim Finish: Orange powder coat.
         7. Continuous Netlocks: One piece wire net attachment system.
         8. Mounting hardware and nylon net included. Approximate Weight: 265 lbs.

\*\* NOTE TO SPECIFIER \*\* Backboards with exposed shear edges and individual or wire formed netlocks are not considered an equal.

* + - 1. Ultimate Unbreakable Polycarbonate Playground System: PR18.
         1. Pole: Two piece 5 inch sq 1/8 inch wall structural steel tube attached in center by two 3/8 x 3 x 12 inch steel bars, and eight 1/2 x 3/4 inch button head cap screws.
         2. Design: Upright pole for 40 inch bury and straight adjustable extension for 36 inch offset from face of pole to face of backboard. Rim mounts directly to horizontal pole through backboard, semi-permanently mounted between 6 ft. and 10 ft. official.
         3. Backboard: Rectangular, 36 x 60 inch clear polycarbonate, 1/2 inch thick, with aluminum outer framework.
         4. Shooters Square and Border: White, official size.
         5. Extension Arm: 4 inch sq 14 ga steel tube designed for direct attachment of rim through backboard.
         6. Rim: Flexible, spring actioned by compression spring and internal mechanisms enclosed in a steel cover plate, official sized, institutional quality, 5/8 inch dia AISI 1018 cold drawn carbon steel ring supported by a 3/16 x 1-1/2 inch rim support, welded 180 deg. of ring bottom with 3/16 inch thick structural components and punched to mount on any front mount backboard. Rim Finish: Orange powder coat.
         7. Continuous Netlocks: One piece wire net attachment system.
         8. Mounting hardware and nylon net included. Approximate Weight: 300 lbs.
    1. Adjustable Height Basketball Systems:

\*\* NOTE TO SPECIFIER \*\* Delete adjustable height basketball systems not required. Pole systems without backboard support braces are not considered equal.

* + - 1. 6 Inch Hangtime Adjustable System PR98UHT. Finish: Black powder coat.
         1. Pole: 6 inch sq. 3/16 inch wall steel support pole with adjustable extension arms for rim height adjustment from 7-1/2 to 10 ft. by hand operated bevel gear crank at rear of pole. Includes hinged swing up base and anchor with easy read rim height indicator.
         2. Ground Anchor: Steel, installed in concrete footing 20 inch dia x 48 inch deep,
         3. Backboard: 42 x 72 inch clear polycarbonate. Distance from face of backboard to front of pole must be minimum 56 inch when rim is at official 10 ft. height.
         4. Rim: Outdoor breakaway, mounted through backboard into rear structure.
         5. Approximate Weight: 450-550 lbs.
      2. 6 Inch Hangtime Adjustable System PR98GHT. Finish: Black powder coat.
         1. Pole: 6 inch sq. 3/16 inch wall steel support pole with adjustable extension arms for rim height adjustment from 7-1/2 to 10 ft. by hand operated bevel gear crank at rear of pole. Includes hinged swing up base and anchor with easy read rim height indicator.
         2. Ground Anchor: Steel, installed in concrete footing 20 inch dia x 48 inch deep,
         3. Backboard: 42 x 72 inch glass. Distance from face of backboard to front of pole must be minimum 56 inch when rim is at official 10 ft. height.
         4. Rim: Outdoor breakaway type, mounted through backboard into rear structure.
         5. Approximate Weight: 450-550 lbs.
      3. 6 Inch Hangtime Adjustable System PR98SHT. Finish: Black powder coat.
         1. Pole: 6 inch sq. 3/16 inch wall steel support pole with adjustable extension arms for rim height adjustment from 7-1/2 to 10 ft. by hand operated bevel gear crank at rear of pole. Includes hinged swing up base and anchor with easy read rim height indicator.
         2. Ground Anchor: Steel, installed in concrete footing 20 inch dia x 48 inch deep,
         3. Backboard: 42 x 60 inch steel. Distance from face of backboard to front of pole must be minimum 56 inch when rim is at official 10 ft. height.
         4. Rim: Outdoor breakaway type, mounted through backboard into rear structure.
         5. Approximate Weight: 450-550 lbs.
      4. 6 Inch Hangtime Adjustable System PR98SXLHT. Finish: Black powder coat
         1. Pole: 6 inch sq. 3/16 inch wall steel support pole with adjustable extension arms for rim height adjustment from 7-1/2 to 10 ft. by hand operated bevel gear crank at rear of pole. Includes hinged swing up base and anchor with easy read rim height indicator.
         2. Ground Anchor: Steel, installed in concrete footing 20 inch dia x 48 inch deep,
         3. Backboard: 42 x 72 inch steel. Distance from face of backboard to front of pole must be minimum 56 inch when rim is at official 10 ft. height.
         4. Rim: Outdoor breakaway type, mounted through backboard into rear structure.
         5. Approximate Weight: 450-550 lbs.
      5. 6 Inch Hangtime Adjustable System PR98UHTJR. Finish: Black powder coat.
         1. Pole: 6 inch sq. 3/16 inch wall steel support pole with adjustable extension arms for rim height adjustment from 7-1/2 to 10 ft. by hand operated bevel gear crank at rear of pole. Includes hinged swing up base and anchor with easy read rim height indicator.
         2. Ground Anchor: Steel, installed in concrete footing 20 inch dia x 48 inch deep,
         3. Backboard: 36 x 60 inch polycarbonate. Distance from face of backboard to front of pole must be minimum 56 inch when rim is at official 10 ft. height.
         4. Rim: Outdoor breakaway, mounted through backboard into rear structure.
         5. Approximate Weight: 450-550 lbs.
      6. 6 Inch Hangtime Adjustable System PR98GHTJR. Finish: Black powder coat.
         1. Pole: 6 inch sq. 3/16 inch wall steel support pole with adjustable extension arms for rim height adjustment from 7-1/2 to 10 ft. by hand operated bevel gear crank at rear of pole. Includes hinged swing up base and anchor with easy read rim height indicator.
         2. Ground Anchor: Steel, installed in concrete footing 20 inch dia x 48 inch deep,
         3. Backboard: 36 x 60 inch glass. Distance from face of backboard to front of pole must be minimum 56 inch when rim is at official 10 ft. height.
         4. Rim: Outdoor breakaway type, mounted through backboard into rear structure.
         5. Approximate Weight: 450-550 lbs.

\*\* NOTE TO SPECIFIER \*\* Setback extension arm is substitute for standard 60 inch extension arm provided with specific system.

* + - 1. Zipcrank Playground Adjustable Systems: PR95UZC. Pole and Extension Arm Finish: Black powder coat.
         1. Pole: Two piece 5 inch sq. 1/8 inch wall steel support pole installed in concrete footing minimum 12 inch dia, 42 inch deep, attached in center by two 3/8 x 3 x 12 inch steel bars, and eight 1/2 x 3/4 inch button head cap screws, and a hand crank for adjusting rim height from 7-1/2 ft. to 10 ft. official.
         2. Design: Upright pole with adjustable steel extension arm for 30 inch offset from face of pole to face of backboard.
         3. Backboard: 36 x 60 inch clear polycarbonate with aluminum frame. Distance from face of backboard to front of pole must be 30 inch when rim is at official 10 ft. height.
         4. Rim: Includes outdoor breakaway.
         5. Approximate Weight: 320 lbs.
      2. Qwikchange Playground Basketball System: PR12.
         1. Pole: 3-1/2 inch OD, 8 ga steel tube, zinc flow coated.
         2. Design: Upright pole for rim height adjustment in 6 inch increments; 8 to 10 ft.
         3. Rim: Spring type, mounted through backboard directly to extension arm.
         4. Extension Arm: Steel, allowing 22 inch of extension from face of pole to face of backboard at official 10 ft. rim height, and mounted on a galvanized vertical pole for 36 inch bury.
         5. Steel Finish: Hot-dipped galvanized or powder coated.
         6. Backboard: Minimum 48 x 36 inch molded fiberglass, fan shaped.
         7. Rim: Spring type, mounted through backboard directly into extension arm.
         8. Approximate Weight: 165 lbs.

\*\* NOTE TO SPECIFIER \*\* Backboards with exposed shear edges and individual or wire formed netlocks are not considered an equal.

* + 1. Upgraded Arm - 72 Inch Setback: BA870AXL-BK. Finish: Textured black polyester powdercoat.
       1. Substitution Setback Extension Arm: 6 inch sq., 3/16 inch ga and 4 inch sq., 1/8 inch ga tube.
       2. Mounting: Arm mounted to front of pole by six 5/8 inch grade 8 bolts.
       3. Approximate Weight: 50 lbs.
  1. BADMINTON/PICKLEBALL EQUIPMENT

\*\*NOTE TO SPECIFIER\*\* Order optional BM21 for floor sockets with brass cover plate, or BM300A, BM350A, or BM400A for adapters to install BM10 in existing 3 inch, 3-1/2 inch, or 4 inch volleyball sockets separately.

* + 1. Badminton Systems:
       1. Competition Badminton System: BM10.
          1. Uprights: 1-11/16 inch sq. extruded aluminum with 1/8 inch wall thickness suitable for official 61 inch net height. Tops included machined aluminum net top rope guide and bottom machined insert for threaded, adjustable urethane feet. Finish: White powder coat.
          2. Net: Official, 30 inch x 20 ft.
          3. Net Top Rope: Cleat tensioned.
          4. Net Bottom Rope: Tied to bottom rope attachment points.
          5. Two uprights and net included.
       2. Portable Competition Badminton System: BM10P.
          1. Uprights: 1-11/16 inch sq. extruded aluminum with 1/8 inch wall thickness, suitable for official 61 inch net height. Tops included machined aluminum net top rope guide and bottom machined insert for threaded, adjustable urethane ft. Finish: White powder coat.
          2. Net: Official, 30 inch x 20 ft.
          3. Net Top Rope: Cleat tensioned.
          4. Net Bottom Rope: Tied to bottom rope attachment points.
       3. Competition Pickleball System: PK10XL. IFP and USAPA compliant. Finish: Dark green powder coated.
          1. Posts: 3 inch dia aluminum extrusions with top cable pulleys, 1/2 inch dia permanently fixed net side lacing bars and one post with brass internal top net cable tensioning device with removable handle.

\*\*NOTE TO SPECIFIER\*\* Remove post design options not required.

Post Design: Removable, with PK 23 ground sockets.

Post Design: Removable, with PK 235 ground sockets.

Post Design: Direct install into concrete footing.

* + - * 1. Net: Official, 36 inch x 21 ft. 9 inch with 1-3/4 inch, sq. black mesh with 4 mm nylon coated stainless steel top cable and heavy white top tape.
      1. Recreational Pickleball System: PK05XL. IFP and USAPA compliant. Finish: Dark green powder coated posts.
         1. Posts: 3 inch dia, 3/16 inch wall steel tube with grooved top domes for net cable, net side lacing wires and one post with anti-backlash top cable tensioning winch.

\*\*NOTE TO SPECIFIER\*\* Remove post design options not required.

Post Design: Removable, with PK 23 ground sockets.

Post Design: Removable, with PK 235 ground sockets.

Post Design: Direct install into concrete footing.

* + - * 1. Net: Official, 36 inch x 21 ft. 9 inch with 1-3/4 inch square black mesh with 4 mm nylon coated stainless steel top cable and heavy white top tape.

\*\*NOTE TO SPECIFIER\*\* System does not meet official pickleball rules, and is intended for indoor/outdoor use for physical education classes and non-competitive uses. Order optional PK21 for floor sockets with brass cover plate, or BM300A, BM350A, or BM400A for adapters to install PK10 in existing 3, 3.5 or 4 inch volleyball sockets separately.

* + - 1. Pickleball System: PK10PE. Upright Finish: White powder coat.
         1. Uprights: 1-11/16 inch sq. extruded aluminum with 1/8 inch wall thickness, suitable for 36 inch net height. Tops included machined aluminum net top rope guide and bottom machined insert for threaded, adjustable urethane feet.
         2. Net: Official, 30 inch x 20 ft.
         3. Net Top Rope: Cleat tensioned.
         4. Net Bottom Rope: Tied to bottom rope attachment points.
         5. Net and two ropes included.

\*\*NOTE TO SPECIFIER\*\* System does not meet official pickleball rules, and is intended for indoor/outdoor use for physical education classes and non-competitive uses.

* + - 1. Portable PE Pickleball System: PK10P. Upright Finish: White powder coat.
         1. Uprights: 1-11/16 inch sq. extruded aluminum with 1/8 inch wall thickness, suitable for 36 inch net height. Tops included machined aluminum net top rope guide and bottom machined insert for threaded, adjustable urethane feet.
         2. Net: Official, 30 inch x 20 ft.
         3. Net Top Rope: Cleat tensioned.
         4. Net Bottom Rope: Tied to bottom rope attachment points.
         5. Net and two ropes included.
  1. TENNIS EQUIPMENT
     1. Tennis Equipment:
        1. Competition Tennis System: TN10.
           1. Posts: Two 3 inch dia aluminum extrusion with top cable pulleys, 1/2 inch dia, permanently fixed, net side lacing bars. One post includes brass internal top net cable tensioning device with removable handle. Post Finish: Dark green powder coat.
           2. Post Design: Direct install into concrete footing or ground sockets.
           3. Ground Sockets: TN23 or TN235.
           4. Net: 42 inch x 42 feet, for 36 inch official top of net from playing surface.
           5. Competition net, side lacing ropes, center court hold down strap and anchor.
        2. Recreational Tennis System: TN05.
           1. Posts: Two 3 inch dia steel with 3/16 inch wall thickness with 1/4 inch steel lacing bar permanently welded to standard. One post includes backlash free net cable tensioning winch, and one with welded steel net attachment hook. Post Finish: Green powder coat.
           2. Post Design: Direct install into concrete footing or ground sockets.
           3. Ground Sockets: TN23 or TN235.
           4. TN10N premium net and TN10CS center court hold down strap.
        3. Competition Portable Tennis System: TN10P.
           1. Upright Posts: Two 3 inch dia aluminum extrusions, in height to support top of net at official 42 inch height at ends, with wheel assembly attached to posts for tip and roll movement. End post assemblies connected by three-piece, 4 inch sq aluminum spreader bar. Finish: Dark green powder coat.
           2. Net: Official 36 inch x 42 feet.
           3. Center hold down straps and net tensioning winch.
  2. OUTDOOR VOLLYBALL EQUIPMENT

\*\*NOTE TO SPECIFIER\*\* SVB73 Sand Volleyball Officials Stand and SVB28 Premium Sand Boundary Kit are ordered separately. Select padding color from manufacturers standard options and retain optional net alternate if required.

* + 1. Centerline Elite Sand Volleyball System: SVB1000.
       1. Posts: 3 inch aluminum with net tensioning winch, twistlock stainless steel sockets and safety padding. Color: \_\_\_\_\_\_\_\_\_\_.
       2. Net: VB1250K: 1 meter high, 3-1/2 mm knotless polypropylene webbing, Variable Height: 72 to 96 inches. Single thread release knob, locked into place with locking pin. Height identified by machine markings on inner telescoping tube.
       3. Net: SVB1250K for installation for official 8.5 m 2 on 2 sand volleyball.
       4. Top Rope: Kevlar, tensioned with aluminum winch with 26:1 ratio with worm gear mounted at one end.
       5. Bottom Rope: Polypropylene, tensioned with ratcheting tensioner.
       6. Top, Bottom and Side Net Finish: Tarpaulin fabric with double stitched hemmed edges, white coated.
       7. Winch: 2 inch wide nylon webbing attached to top rope. Non-removable folding handle. Winch shafts rotate in sealed ball bearings.
       8. Net Side Tape: Internal fiberglass dowels, tensioned by two ratchet rope tensioners.
       9. Includes net and antenna storage bag, net rope cover and net height indicator.
       10. Approximate Weight: 300 lbs.
    2. Match Point Outdoor Competition Volleyball System: SVB5000A. Finish: Powder coat.
       1. Posts: 3-1/2 inch OD 6063-T6 aluminum extrusion with integral track for net adjustment by single locking knob on each attachment bar.
       2. Post Padding: NCAA and NFSHSA compliant, 1-1/2 inch thick high density foam with vinyl cover. Color: \_\_\_\_\_\_\_\_.
       3. Posts to be suitable for ground burial or made removable using ground sleeves.
       4. Net: 39-3/8 inch high, 3-1/2 mm knotless woven polypropylene webbing, black with Kevlar top rope and polypropylene bottom rope. Attaches to slider bars in post tracks.
       5. Net Height Adjustment: 42 inch to 7 ft. 11-5/8 inch.
       6. Net Top Rope: Tensioned by a worm gear winch with 2 inch wide nylon strap.
       7. Net Bottom Rope and Sides: Tensioned by ratcheting tensioners. Antenna conform with applicable rules.
       8. Weight: 260 lbs.
    3. Match Point Competition Outdoor Volleyball System: SVB5050A. Finish: Powder coat.
       1. Posts: 3-1/2 inch OD 6063-T6 aluminum extrusion with integral track for net adjustment by single locking know on each movable net attachment bar.
       2. Posts to be suitable for ground burial or made removable using ground sleeves.
       3. Net: 39.37 inch high, 3-1/2 mm knotless woven polypropylene webbing, black with Kevlar top rope and polypropylene bottom rope. Attaches to slider bars in post tracks.
       4. Net Height Adjustment: 42 inch to 7 ft. 11-5/8 inch.
       5. Net Top Rope: Tensioned by a worm gear winch with 2 inch wide nylon strap.
       6. Net Bottom Rope and Sides: Tensioned by ratcheting tensioners.
       7. Weight: 170 lbs.

\*\*NOTE TO SPECIFIER\*\* Retain VB210 ground sleeves below if part of this system.

* + 1. Aluminum Recreational Volleyball System: SVB2000A.
       1. Posts: 3-1/2 inch dia. extruded aluminum with integral track. Finish: Powder coat.
       2. Posts to be suitable for ground burial or made removable using ground sleeves.
       3. Net (H x L): 36 inch x 32 ft. Net attaches to a slider bars in the post tracks.
       4. Net Height Adjustment: 78 to 95-5/8 inch.
       5. Net Top Rope: Tensioned by a pulley and rope cleat.
       6. Weight: 110 lbs each.
    2. Sand Volleyball Ground Sleeve: SVB210. Ground Sleeve: 52 inch long, 4 inch OD steel tube with 3 19/25 inch interior dia, galvanized. Cap: Plastic. Approximate Weight: 35 lbs.

\*\*NOTE TO SPECIFIER\*\* Standard padding colors available free of charge, other colors available for an additional charge.

* + 1. Clamp-On Sand Volleyball Official's Platform: SVB73
       1. 1 inch heavy wall tube, powder coated, with sand skids.
       2. Player Protection Padding: 1 inch thick, meeting NCAA, National High School Federation and USVBA requirements.
       3. Standard Colors: Gray, Black, Maroon, Navy, Royal, and Scarlet.
       4. Approximate Weight: 75 lbs.
  1. BLEACHERS

\*\*NOTE TO SPECIFIER\*\* For powder coated aluminum seat planks order option BL07SEAT1-XX for each plank. Colors: Royal, Scarlet, Navy, Forest Green, Black and White.

* + 1. Bleachers: Weatherbeater Series.
       1. 7-1/2 Ft., 3-Tier Outdoor Aluminum Portable Bleachers BLO0703.
          1. Framework: Welded aluminum angles with bolt-on horizontal supports.
          2. Seat and Ft. Planks: 10 x 1-3/4 inch aluminum extrusion, clear anodized seat with molded end caps mounted on two aluminum support frames.
          3. Support Runners: 2 x 4 inch recycled plastic.
          4. Approximate Capacity: 15 persons. Approximate Weight: 155 lbs each.
       2. 7-1/2 Ft., 3-Tier Outdoor Portable Bleachers: BLO0703A.
          1. Framework: Welded steel angles with bolt-on horizontal support members, hot dipped galvanized.
          2. Seat and Ft. Planks: 10 x 1-3/4 inch aluminum extrusion, clear anodized seat with molded end caps mounted on two aluminum support frames.
          3. Support Runners: 2 x 4 inch recycled plastic.
          4. Approximate Capacity: 15 persons. Approximate Weight: 195 lbs each.
       3. 7-1/2 Ft., 3-Tier Premium Outdoor Aluminum Portable Bleachers BLO0703AXL.
          1. Framework: Welded aluminum angles with bolt-on horizontal supports.
          2. Seat and Ft. Planks: 10 x 1-3/4 inch aluminum extrusion, clear anodized seat with aluminum end caps mounted on two aluminum support frames, with extra ft. plank and heal kick panel on each tier.
          3. Support Runners: 2 x 4 inch recycled plastic.
          4. Approximate Capacity: 15 persons. Approximate Weight: 195 lbs each.
       4. 7-1/2 Ft., 4-Tier Outdoor Aluminum Portable Bleachers BLO0704.
          1. Framework: Welded aluminum angles with bolt-on horizontal supports.
          2. Seat and Ft. Planks: 10 x 1-3/4 inch aluminum extrusion, clear anodized seat with molded end caps mounted on two aluminum support frames.
          3. Support Runners: 2 x 4 inch recycled plastic.
          4. Approximate Capacity: 20 persons. Approximate Weight: 210 lbs each.
       5. 7-1/2 Ft., 4-Tier Premium Outdoor Aluminum Portable Bleachers BLO0704AXL.
          1. Framework: Welded aluminum angles with bolt-on horizontal support.
          2. Seat and Ft. Planks: 10 x 1-3/4 inch aluminum extrusion, clear anodized seat with aluminum end caps mounted on two aluminum support frames, with extra ft. plank and heal kick panel on each tier.
          3. Support Runners: 2 x 4 inch recycled plastic.
          4. Approximate Capacity: 20 persons. Approximate Weight: 270 lbs each.

\*\*NOTE TO SPECIFIER\*\* For powder coated aluminum seat planks order option BL15SEAT1-XX for each plank. Colors: Royal, Scarlet, Navy, Forest Green, Black and White.

* + - 1. 15 Ft., 2-Tier Outdoor Aluminum Portable Bleachers BLO1502.
         1. Framework: Welded aluminum angles with bolt-on horizontal supports.
         2. Seat and Ft. Planks: 10 x 1-3/4 inch aluminum extrusion, clear anodized seat with aluminum end caps mounted on three aluminum support frames, with separate sections connected with two aluminum extrusion connector tubes, and eight self-drilling, self-threading hex screws.
         3. Support Runners: 2 x 4 inch recycled plastic.
         4. Approximate Capacity: 20 persons. Approximate Weight: 200 lbs each.
      2. 15 Ft., 2-Tier Premium Outdoor Aluminum Portable Bleachers BLO1502AXL.
         1. Framework: Welded aluminum angles with bolt-on horizontal supports.
         2. Seat and Ft. Planks: 10 x 1-3/4 inch aluminum extrusion, clear anodized seat with aluminum end caps mounted on three aluminum support frames, with separate sections connected with two aluminum extrusion connector tubes, and eight self-drilling, self-threading hex screws, with extra ft. plank and heal kick panel on each tier.
         3. Support Runners: 2 x 4 inch recycled plastic.
         4. Approximate Capacity: 20 persons. Approximate Weight: 250 lbs each.
      3. 5 Ft., 3-Tier Outdoor Aluminum Portable Bleachers BLO1503.
         1. Framework: Welded aluminum angles with bolt-on horizontal supports.
         2. Seat and Ft. Planks: 10 x 1-3/4 inch aluminum extrusion, clear anodized seat with molded end caps mounted on three steel support frames, with separate sections connected with two aluminum extrusion connector tubes, and eight self-drilling, self-threading hex screws.
         3. Support Runners: 2 x 4 inch recycled plastic.
         4. Approximate Capacity: 30 persons. Approximate Weight: 275 lbs each.
      4. 15 Ft., 3-Tier Premium Outdoor Aluminum Portable Bleachers BLO1503AXL.
         1. Framework: Welded aluminum angles with bolt-on horizontal supports.
         2. Seat and Ft. Planks: 10 x 1-3/4 inch aluminum extrusion, clear anodized seat with aluminum end caps mounted on three steel support frames, with separate sections connected with two aluminum extrusion connector tubes, and eight self-drilling, self-threading hex screws, with extra ft. plank and heal kick panel on each tier.
         3. Support Runners: 2 x 4 inch recycled plastic.
         4. Approximate Capacity: 30 persons. Approximate Weight: 375 lbs each.
      5. 15 Ft., 4-Tier Outdoor All Aluminum Portable Bleachers BLO1504.
         1. Framework: Welded aluminum angles with bolt-on horizontal supports.
         2. Seat and Ft. Planks: 10 x 1-3/4 inch aluminum extrusion, clear anodized seat with molded end caps mounted on three steel support frames, with separate sections connected with two aluminum extrusion connector tubes, and eight self-drilling, self-threading hex screws.
         3. Support Runners: 2 x 4 inch recycled plastic.
         4. Approximate Capacity: 40 persons. Approximate Weight: 370 lbs each.
      6. 15 Ft., 4-Tier Premium Outdoor Aluminum Portable Bleachers BLO1504AXL.
         1. Framework: Welded aluminum angles with bolt-on horizontal supportxs.
         2. Seat and Ft. Planks: 10 x 1-3/4 inch aluminum extrusion, clear anodized seat with aluminum end caps mounted on three steel support frames, with separate sections connected with two aluminum extrusion connector tubes, and eight self-drilling, self-threading hex screws, with extra ft. plank and heal kick panel on each tier.
         3. Support Runners: 2 x 4 inch recycled plastic.
         4. Approximate Capacity: 40 persons. Approximate Weight: 520 lbs each.
      7. 21 Ft., 3-Tier Outdoor Aluminum Portable Bleachers BLO2103.
         1. Framework: Welded aluminum angles with bolt-on horizontal supports.
         2. Seat and Ft. Planks: 10 x 1-3/4 inch aluminum extrusion, clear anodized seat with molded end caps mounted on four aluminum support frames, with separate sections connected with two aluminum extrusion connector tubes, and eight self-drilling, self-threading hex screws.
         3. Support Runners: 2 x 4 inch recycled plastic.
         4. Approximate Capacity: 42 persons. Approximate Weight: 370 lbs each.
      8. 21 Ft., 3-Tier Premium Outdoor Aluminum Portable Bleachers BLO2103AXL.
         1. Framework: Welded aluminum angles with bolt-on horizontal supports.
         2. Seat and Ft. Planks: 10 x 1-3/4 inch aluminum extrusion, clear anodized seat with aluminum end caps mounted on four aluminum support frames, with separate sections connected with two aluminum extrusion connector tubes, and eight self-drilling, self-threading hex screws, with extra ft. plank and heal kick panel on each tier.
         3. Support Runners: 2 x 4 inch recycled plastic.
         4. Approximate Capacity: 42 persons. Approximate Weight: 520 lbs each.
      9. 21 Ft., 4-Tier Outdoor All Aluminum Portable Bleachers BLO2104.
         1. Framework: Welded aluminum angles with bolt-on horizontal supports.
         2. Seat and Ft. Planks: 10 x 1-3/4 inch aluminum extrusion, clear anodized seat with aluminum end caps mounted on four aluminum support frames, with separate sections connected with two aluminum extrusion connector tubes, and eight self-drilling, self-threading hex screws.
         3. Support Runners: 2 x 4 inch recycled plastic.
         4. Approximate Capacity: 56 persons. Approximate Weight: 500 lbs each.
      10. 21 Ft., 4-Tier Outdoor Portable Bleachers BLO2104A.
          1. Framework: Welded steel angles with bolt-on horizontal supports, hot dipped galvanized.
          2. Seat and Ft. Planks: 10 x 1-3/4 inch aluminum extrusion, clear anodized seat with molded end caps mounted on four steel support frames, with separate sections connected with two aluminum extrusion connector tubes, and eight self-drilling, self-threading hex screws.
          3. Support Runners: 2 x 4 inch recycled plastic.
          4. Approximate Capacity: 56 persons. Approximate Weight: 635 lbs each.
      11. 21 Ft., 4-Tier Premium Outdoor Aluminum Portable Bleachers BLO2104AXL.
          1. Framework: Welded aluminum angles with bolt-on horizontal supports.
          2. Seat and Ft. Planks: 10 x 1-3/4 inch aluminum extrusion, clear anodized seat with aluminum end caps mounted on four aluminum support frames, with separate sections connected with two aluminum extrusion connector tubes, and eight self-drilling, self-threading hex screws, with extra ft. plank and heal kick panel on each tier.
          3. Support Runners: 2 x 4 inch recycled plastic.
          4. Approximate Capacity: 56 persons. Approximate Weight: 710 lbs each.
  1. BENCH EQUIPMENT

\*\*NOTE TO SPECIFIER\*\* For powder coated aluminum seat planks order option BL07SEAT1-XX for each plank. Colors: Royal, Scarlet, Navy, Forest Green, Black and White.

* + 1. 7-1/2 Ft. Fixed Player Bench: BNF0701.
       1. Bench Legs: 2 x 2 inch sq. aluminum tube with 12 ga wall thickness for 12 inch bury in 30 inch deep concrete footing; polyester powder coat finish.
       2. Exposed Tube Ends: Enclosed in molded plastic end caps.
       3. Bench: 7-1/2 ft. length.
       4. Seat Plank: 10 x 1-3/4 inch aluminum extrusion with a minimum cross section thickness of .090 inch, clear anodized seat, attached to two tubular leg assemblies with zinc plated assembly hardware.
       5. Approximate Capacity: 5 players. Approximate Weight: 30 lbs.
    2. 7-1/2 Ft. Fixed Player Bench with Backrest: BNF0701B.
       1. Bench Legs: 2 x 2 inch sq. aluminum tube with 12 ga wall thickness for 12 inch bury in 30 inch deep concrete footing; polyester powder coat finish.
       2. Exposed Tube Ends: Enclosed in molded plastic end caps.
       3. Bench: 7-1/2 ft. length.
       4. Seat and Seat Back: 10 x 1-3/4 inch aluminum extrusion with a minimum cross section thickness of .090 inch, clear anodized with molded end caps, attached to two tubular leg assemblies with zinc plated assembly hardware.
       5. Approximate Capacity: 5 players. Approximate Weight: 45 lbs.

\*\*NOTE TO SPECIFIER\*\* For powder coated aluminum seat planks order option BL15SEAT1-XX for each plank. Colors: Royal, Scarlet, Navy, Forest Green, Black and White.

* + 1. 15 Ft. Fixed Player Bench: BNF1501.
       1. Bench Legs: 2 x 2 inch sq. aluminum tube with 12 ga wall thickness for 12 inch bury in 30 inch deep concrete footing; polyester powder coat finish.
       2. Exposed Tube Ends: Enclosed in molded plastic end caps.
       3. Bench: 15 ft. length with separate sections connected by two aluminum extrusion connector tubes and eight self-drilling, self-threading hex screws.
       4. Seat Plank: 10 x 1-3/4 inch aluminum extrusion with a minimum cross section thickness of .090 inch, clear anodized seat, attached to three tubular leg assemblies with zinc plated assembly hardware.
       5. Approximate Capacity: 10 players. Approximate Weight: 45 lbs.
    2. 21 Ft. Fixed Player Bench With Backrest: BNF1501B.
       1. Bench Legs: 2 x 2 inch sq. aluminum tube with 12 ga wall thickness for 12 inch bury in 30 inch deep concrete footing; polyester powder coat finish.
       2. Exposed Tube Ends: Enclosed in molded plastic end caps.
       3. Bench: 15 ft. length with separate sections connected by two aluminum extrusion connector tubes and eight self-drilling, self-threading hex screws.
       4. Seat and Backrest Planks: 10 x 1-3/4 inch aluminum extrusion with a minimum cross section thickness of .090 inch, clear anodized, attached to three tubular leg assemblies with zinc plated assembly hardware.
       5. Approximate Capacity: 10 players. Approximate Weight: 75 lbs.
    3. 21 Ft. Fixed Player Bench: BNF2101.
       1. Bench Legs: 2 x 2 inch sq. aluminum tube with 12 ga wall thickness for 12 inch bury in 30 inch deep concrete footing; polyester powder coat finish.
       2. Exposed Tube Ends: Enclosed in molded plastic end caps.
       3. Bench: 21 ft. length with separate sections connected by two aluminum extrusion connector tubes and eight self-drilling, self-threading hex screws.
       4. Seat Plank: 10 x 1-3/4 inch aluminum extrusion with a minimum cross section thickness of .090 inch, clear anodized, attached to four tubular leg assemblies with zinc plated assembly hardware.
       5. Approximate Capacity: 14 players. Approximate Weight: 60 lbs.
    4. 21 Ft. Fixed Player Bench With Backrest: BNF2101B.
       1. Bench Legs: 2 x 2 inch sq. aluminum tube with 12 ga wall thickness for 12 inch bury in a 30 inch deep concrete footing; polyester powder coat finish.
       2. Exposed Tube Ends: Enclosed in molded plastic end caps.
       3. Bench: 21 ft. length with separate sections connected by two aluminum extrusion connector tubes and eight self-drilling, self-threading hex screws.
       4. Seat and Backrest Planks: 10 x 1-3/4 inch aluminum extrusion with a minimum cross section thickness of .090 inch, clear anodized, attached to four tubular leg assemblies with zinc plated assembly hardware.
       5. Approximate Capacity: 14 players. Approximate Weight: 100 lbs.

\*\*NOTE TO SPECIFIER\*\* For powder coated aluminum seat planks order option BL07SEAT1-XX for each plank. Colors: Royal, Scarlet, Navy, Forest Green, Black and White.

* + 1. 7-1/2 Ft. Portable Player Bench: BNP0701.
       1. Bench Legs: 2 x 2 inch sq. aluminum tube with 12 ga wall thickness with 3 inch dia rubber molded ft. attached to bottom of legs; polyester powder coat finish.
       2. Exposed Tube Ends: Enclosed in molded plastic end caps.
       3. Bench: 7-1/2 ft. length.
       4. Seat Plank: 10 x 1-3/4 inch aluminum extrusion with a minimum cross section thickness of .090 inch, clear anodized, attached to two tubular leg assemblies with zinc plated assembly hardware.
       5. Approximate Capacity: 5 players. Approximate Weight: 30 lbs.
    2. 7-1/2 Ft. Portable Player Bench With Backrest: BNP0701B.
       1. Bench Legs: 2 x 2 inch sq. aluminum tube with 12 ga wall thickness, with 3 inch dia rubber molded ft. attached to bottom of legs; polyester powder coat finish.
       2. Exposed Tube Ends: Enclosed in molded plastic end caps.
       3. Bench: 7-1/2 ft. length.
       4. Seat and Backrest Planks: 10 x 1-3/4 inch aluminum extrusion with a minimum cross section thickness of .090 inch, clear anodized, attached to two tubular leg assemblies with zinc plated assembly hardware.
       5. Approximate Capacity: 5 players. Approximate Weight: 45 lbs.

\*\*NOTE TO SPECIFIER\*\* For powder coated aluminum seat planks order option BL15SEAT1-XX for each plank. Colors: Royal, Scarlet, Navy, Forest Green, Black and White.

* + 1. 15 Ft. Portable Player Bench: BNP1501.
       1. Bench Legs: 2 x 2 inch sq. aluminum tube with 12 ga wall thickness, with 3 inch dia rubber molded ft. attached to bottom of legs; polyester powder coat finish.
       2. Exposed Tube Ends: Enclosed in molded plastic end caps.
       3. Bench: 15 ft. length with separate sections connected by two aluminum extrusion connector tubes and eight self-drilling, self-threading hex screws.
       4. Seat Plank: 10 x 1-3/4 inch aluminum extrusion with a minimum cross section thickness of .090 inch, clear anodized, attached to three tubular leg assemblies with zinc plated assembly hardware.
       5. Approximate Capacity: 10 players. Approximate Weight: 60 lbs.
    2. 15 Ft. Portable Player Bench With Backrest: BNP1501B.
       1. Bench Legs: 2 x 2 inch sq. aluminum tube with 12 ga wall thickness, with 3 inch dia rubber molded ft. attached to bottom of legs; polyester powder coat finish.
       2. Exposed Tube Ends: Enclosed in molded plastic end caps.
       3. Bench: 15 ft. length with separate sections connected by two aluminum extrusion connector tubes and eight self-drilling, self-threading hex screws.
       4. Seat and Backrest Planks: 10 x 1-3/4 inch aluminum extrusion with a minimum cross section thickness of .090 inch, clear anodized, attached to three tubular leg assemblies with zinc plated assembly hardware.
       5. Approximate Capacity: 10 players. Approximate Weight: 75 lbs.
    3. 21 Ft. Portable Player Bench: BNP2101.
       1. Bench Legs: 2 x 2 inch sq. aluminum tube with 12 ga wall thickness, with 3 inch dia rubber molded ft. attached to bottom of legs; polyester powder coat finish.
       2. Exposed Tube Ends: Enclosed in molded plastic end caps.
       3. Bench: 21 ft. length with separate sections connected by two aluminum extrusion connector tubes and eight self-drilling, self-threading hex screws.
       4. Seat Plank: 10 x 1-3/4 inch aluminum extrusion with a minimum cross section thickness of .090 inch, clear anodized, attached to four tubular leg assemblies with zinc plated assembly hardware.
       5. Approximate Capacity: 14 players. Approximate Weight: 60 lbs.
    4. 21 Ft. Portable Player Bench With Backrest: BNP2101B.
       1. Bench Legs: 2 x 2 inch sq. aluminum tube with 12 ga wall thickness, with 3 inch dia rubber molded ft. attached to bottom of legs; polyester powder coat finish.
       2. Exposed Tube Ends: Enclosed in molded plastic end caps.
       3. Bench: 215 ft. length with separate sections connected by two aluminum extrusion connector tubes and eight self-drilling, self-threading hex screws.
       4. Seat and Backrest Planks: 10 x 1-3/4 inch aluminum extrusion with a minimum cross section thickness of .090 inch, clear anodized, attached to four tubular leg assemblies with zinc plated assembly hardware.
       5. Approximate Capacity: 14 players. Approximate Weight: 110 lbs.
  1. FOOTBALL GOALPOST EQUIPMENT
     1. Gooseneck High School Goalpost: FB45HS. National High School Federation compliant. Finish: Polyester powder coated.
        1. Goalposts: ASTM A500, grade C, 4 inch schedule 40, 4-1/2 inch OD, cold formed welded, seamless steel structural pipe for 48 inch ground bury with band clamp attachment.
        2. Post Design: Single bent post with 60 inch setback from front of post to front of horizontal crossbar.
        3. Horizontal Crossbar: 4-1/2 inch OD steel tube with 7 ga wall thickness, flow coated, with upward extension of 23 ft. 4 inch between upright members, attached with adjustable T adapter.
        4. Adjustable Vertical Uprights: Two, 2-3/8 inch dia 6063-T6 aluminum, 0.154 inch wall thickness, minimum rise of 20 ft. above top of crossbar, connected to each end of crossbar with machined aluminum drainage inserts.
        5. Hardware: Grade 5, zinc plated.
        6. Color: White or safety yellow.
        7. Optional Features: Ground sleeves, safety padding, and wind direction flags.
        8. Approximate Weight: 1050 lbs. pair.

\*\*NOTE TO SPECIFIER\*\* Adjustable height goalpost sleeves are designed for manufacturers gooseneck style football goalposts. Specify if sleeve is used for 4-1/2 inch OD FB45S or 5-9/16 inch OD FB55S goalpost options.

* + 1. Adjustable Height Goalpost Sleeve: FB45S/FB55S. National High School Federation compliant. Finish: Powder coated.
       1. Removable, Adjustable Sleeves: 8 inch sq. steel, 50 inch long with welded, hot dipped galvanized formed pan and aluminum finish cap at top of structure for bury below play surface.
       2. Sleeve Design: Rotational goalpost crossbar height adjustment of up to 4 inch with 2-1/2 inch dia threaded adjustable screw for 10 ft. official crossbar height.
       3. Post: Adjusted plumb with four 3/4 inch adjustable screws and anti-rotation device.
       4. Approximate Weight: FB45S: 120 lbs. FB55S: 125 lbs each.
    2. Gooseneck College Goalpost: FB55CG. NCAA compliant. Finish: Polyester powder coated.
       1. Goalposts: ASTM A500, grade C, 5 inch, schedule 40, 5-9/16 inch OD, cold formed welded, seamless steel structural pipe for 48 inch ground bury with band clamp attachment.
       2. Post Design: Single bent post with 72 inch setback from front of post to front of horizontal crossbar.
       3. Horizontal Crossbar: 4-1/2 inch OD steel tube with 7 ga wall thickness, flow coated, with upward extension of 18 ft. 6 inch between upright members, attached with adjustable T adapter.
       4. Adjustable Vertical Uprights: Two, 2-3/8 inch dia 6063-T6 aluminum, 0.154 inch wall thickness, minimum rise of 20 ft. above top of crossbar, connected to each end of crossbar with machined aluminum drainage inserts.
       5. Hardware: Grade 5, zinc plated.
       6. Color: White or safety yellow.
       7. Optional Features: Ground sleeves, safety padding, and wind direction flags.
       8. Approximate Weight: 1075 lbs. pair.
    3. Gooseneck High School Goalpost: FB55HS. National High School Federation compliant. Finish: Polyester powder coated.
       1. Goalposts: ASTM A500, grade C, 5 inch, schedule 40, 5-9/16 inch OD, cold formed welded, seamless steel structural pipe for 48 inch ground bury with band clamp attachment.
       2. Post Design: Single bent post with 72 inch setback from front of post to front of horizontal crossbar.
       3. Horizontal Crossbar: 4-1/2 inch OD steel tube with 7 ga wall thickness, flow coated, with upward extension of 23 ft. 4 inch between upright members, attached with adjustable T adapter.
       4. Adjustable Vertical Uprights: Two, 2-3/8 inch dia 6063-T6 aluminum, 0.154 inch wall thickness, minimum rise of 20 ft. above top of crossbar, connected to each end of crossbar with machined aluminum drainage inserts.
       5. Hardware: Grade 5, zinc plated.
       6. Color: White or Safety yellow.
       7. Optional Features: Ground sleeves, safety padding, and wind direction flags.
       8. Approximate Weight: 1200 lbs. pair.
    4. Gooseneck College Goalpost: FB58CG. NCAA compliant. Finish: Polyester powder coated.
       1. Goalposts: ASTM A500, grade C, 5 inch, schedule 40, 5-9/16 inch OD, cold formed welded, seamless steel structural pipe for 48 inch ground bury with band clamp attachment.
       2. Post Design: Single bent post with 96 inch setback from front of post to front of horizontal crossbar.
       3. Horizontal Crossbar: 4-1/2 inch OD steel tube with 7 ga wall thickness, flow coated, with upward extension of 18 ft. 6 inch between upright members, attached with adjustable T adapter.
       4. Adjustable Vertical Uprights: Two, 2-3/8 inch dia 6063-T6 aluminum, 0.154 inch wall thickness, minimum rise of 20 ft. above top of crossbar, connected to each end of crossbar with machined aluminum drainage inserts.
       5. Hardware: Grade 5, zinc plated.
       6. Color: White or Safety yellow.
       7. Optional Features: Ground sleeves, safety padding, and wind direction flags.
       8. Approximate Weight: 1125 lbs. pair.
    5. Gooseneck High School Goalpost: FB58HS. National High School Federation compliant. Finish: Polyester powder coated.
       1. Goalposts: ASTM A500, grade C, 5 inch, schedule 40, 5-9/16 inch OD, cold formed welded, seamless steel structural pipe for 48 inch ground bury with band clamp attachment.
       2. Post Design: Single bent post with 96 inch setback from front of post to front of horizontal crossbar.
       3. Horizontal Crossbar: 4-1/2 inch OD steel tube with 7 ga wall thickness, flow coated, with upward extension of 23 ft. 4 inch between upright members, attached with adjustable T adapter.
       4. Adjustable Vertical Uprights: Two, 2-3/8 inch dia 6063-T6 aluminum, 0.154 inch wall thickness, minimum rise of 20 ft. above top of crossbar, connected to each end of crossbar with machined aluminum drainage inserts.
       5. Hardware: Grade 5, zinc plated.
       6. Finish: White or safety yellow.
       7. Optional Features: Ground sleeves, safety padding, and wind direction flags.
       8. Approximate Weight: 1250 lbs. pair.
    6. Goalpost Padding: FBCCP. NCAA and National High School Federation compliant.
       1. Foam Padding: 5 inch thick, covered with sewn vinyl covering. Color: \_\_\_\_\_\_\_\_.
       2. Height: 72 inch, with Velcro fasteners to goal posts up to 5-9/16 inch diameter or 4 inch sq.
       3. Approximate Weight: 18 lbs. each.
  1. SOCCER GOALPOST EQUIPMENT

\*\* NOTE TO SPECIFIER \*\* Delete goalpost equipment not required. Goals require site assembly. Retain SC44S ground sleeve for permanent/semi-permanent soccer goalpost options where required.

* + 1. 4 Inch Square Shootout Aluminum Permanent/Semi-Permanent Soccer Goals: SC0945IGA. Finish: White textured polyester powder coat.
       1. Goal: 4-1/2 x 9 ft. opening, allowing for 24 inch of upright for permanent bury in 30 inch deep footing, or installed in optional ground sleeve.
       2. Features: Competition nets, molded plastic net attachment clips, 4mm white nets, net zip ties and ground stakes.
       3. Face: 4 inch sq. aluminum extrusions with 1/8 inch wall thickness and 3/4 inch corner radii, and net track extruded in rear face for net attachment with special clips.
       4. Approximate System Weight: 190 lbs. per pair.
    2. 4 Inch Square Shootout Aluminum Permanent/Semi-Permanent Soccer Goals: SC1265IGA. Finish: White textured polyester powder coat.
       1. Goal: 6-1/2 x 12 ft. opening, allowing for 24 inch of upright for permanent bury in 30 inch deep footing, or installed in optional ground sleeve.
       2. Features: European style backstay and competition nets, molded plastic net attachment clips, 4mm white nets, net zip ties and ground stakes.
       3. Face: 4 inch sq. aluminum extrusions with 1/8 inch wall thickness and 3/4 inch corner radii, and net track extruded in rear face for net attachment with special clips.
       4. Approximate System Weight: 280 lbs. per pair.
    3. 4 Inch Square Shootout Aluminum Permanent/Semi-Permanent Soccer Goals: SC1865IGA. Finish: White textured polyester powder coat.
       1. Goal: 6-1/2 x 12 ft. opening, with crossbar sections connected by telescoping inner aluminum extrusion with four hidden 3/8 x 1 inch hex bolts located on rear of crossbar, and allowing for 24 inch of upright for permanent bury in 30 inch deep ft.ing, or installed in optional ground sleeve.
       2. Features: European style backstay and competition nets, molded plastic net attachment clips, and 4mm white nets.
       3. Face: 4 inch sq. aluminum extrusions with 1/8 inch wall thickness and 3/4 inch corner radii, and net track extruded in rear face for net attachment with special clips.
       4. Approximate System Weight: 418 lbs. per pair.
    4. 4 Inch Square Shootout Aluminum Permanent/Semi-Permanent Soccer Goals: SC2170IGA. Finish: White textured polyester powder coat.
       1. Goal: 7 x 21 ft. opening, with crossbar sections connected by telescoping inner aluminum extrusion with four hidden 3/8 x 1 inch hex bolts located on rear of crossbar, and allowing for 24 inch of upright for permanent bury in 30 inch deep ft.ing, or installed in optional ground sleeve.
       2. Features: European style backstay and competition nets, molded plastic net attachment clips, and 4mm white nets.
       3. Face: 4 inch sq. aluminum extrusions with 1/8 inch wall thickness and 3/4 inch corner radii, and net track extruded in rear face for net attachment with special clips.
       4. Approximate System Weight: 435 lbs. per pair.
    5. 4 Inch Square Shootout Aluminum Permanent/Semi-Permanent Soccer Goals: SC2480IGA. NCAA, NFHS, FIFA Compliant. Finish: White textured polyester powder coat.
       1. Goal: 8 x 24 ft. opening, with crossbar sections connected by telescoping inner aluminum extrusion with four hidden 3/8 x 1 inch hex bolts located on rear of crossbar, and allowing for 24 inch of upright for permanent bury in 30 inch deep ft.ing, or installed in optional ground sleeve.
       2. Features: European style backstay and competition nets, molded plastic net attachment clips, and 4mm white nets.
       3. Face: 4 inch sq. aluminum extrusions with 1/8 inch wall thickness and 3/4 inch corner radii, and net track extruded in rear face for net attachment with special clips.
       4. Approximate System Weight: 460 lbs. per pair.
    6. 4 Inch Round Shootout Portable Aluminum Soccer Goals: SC1865PA40E.
       1. Goal: ASTM F2056, ASTM F1938-98, 6 ft. 6 inch x 18 ft. 6 inch opening, with crossbar sections connected by telescoping inner aluminum extrusion with four hidden 3/8 x 1 inch hex bolts located on rear of crossbar, with side backstay and rear spreader bar section connected by telescoping outer aluminum extrusion attached by 8 self drilling, self threading hex screws.
       2. Backstay and Rear Stabilizer Bar: 1-5/8 inch dia, 13 ga steel tube, galvanized, with 4 ft. top depth and 6 ft. 6 inch bottom depth.
       3. Ballast Drums: ASTM F2056, 11 inch dia x 12 inch wide molded polyethylene, filled with sand at time of installation. Rear drums serve as transport wheels.
       4. Features: Molded plastic net attachment clips, 4mm white nets, net zip ties, and net ground stakes.
       5. Face: 4 inch round 6063-T6 aluminum extrusions with 1/8 inch wall thickness, and net track extruded in rear face for net attachment with special clips. Finish: White textured polyester powder coat.
       6. Approximate System Weight: 450 lbs. per pair.
    7. 4 Inch Round Shootout No-Tip Portable Aluminum Soccer Goals: SC1865PA40NT.
       1. Goal: ASTM F2056, ASTM F1938-98, 6 ft. 6 inch x 18 ft. 6 inch opening, with side backstay and rear spreader bar section connected by telescoping outer aluminum extrusion attached by 8 self drilling, self threading hex screws.
       2. Backstay: 1-5/8 inch dia, 13 ga steel tube, galvanized, with 4 ft. top depth and 6 ft. 6 inch bottom depth.
       3. Ballast Drums: ASTM F2056, 11 inch dia x 12 inch wide molded polyethylene, filled with sand at time of installation. Rear drums serve as transport wheels.
       4. Features: Molded plastic net attachment clips, 4mm white nets, net zip ties, and net ground stakes.
       5. Face: 4 inch round 6063-T6aluminum extrusions with 1/8 inch wall thickness, and net track extruded in rear face for net attachment with special clips. Finish: White textured polyester powder coat.
       6. Approximate System Weight: 427 lbs. per pair.
    8. 4 Inch Round Shootout Portable Aluminum Soccer Goals: SC2170PA40E.
       1. Goal: ASTM F2056, ASTM F1938-98, 7 ft. x 21 ft. opening, with crossbar sections connected by telescoping inner aluminum extrusion with four hidden 3/8 x 1 inch hex bolts located on rear of crossbar, with side backstay and rear spreader bar section connected by telescoping outer aluminum extrusion attached by 8 self drilling, self threading hex screws.
       2. Backstay and Rear Stabilizer Bar: 1-5/8 inch dia, 13 ga steel tube, galvanized, with 4 ft. top depth and 7 ft. bottom depth.
       3. Features: Auger type rear safety hold downs, molded plastic net attachment clips, 4mm white nets, rear horizontal stabilizer bars, net zip ties, and net ground stakes.
       4. Face: 4 inch round 6063-T6 aluminum extrusions with 1/8 inch wall thickness, and net track extruded in rear face for net attachment with special clips. Finish: White textured polyester powder coat.
       5. Approximate System Weight: 427 lbs. per pair.
    9. 4 Inch Round Shootout No-Tip Portable Aluminum Soccer Goals: SC2170PA40NT.
       1. Goal: ASTM F2056, ASTM F1938-98, 7 ft. x 21 ft. opening, with crossbar section connected by telescoping inner aluminum extrusion with 4 hidden 3/8 x 1 inch hex bolds on rear of crossbar, and side backstay and rear spreader bar section connected by telescoping outer aluminum extrusion attached by 8 self drilling, self threading hex screws.
       2. Backstay and Rear Stabilizer Bar: 1-5/8 inch dia, 13 ga steel tube, galvanized, with 4 ft. top depth and 7 ft. bottom depth.
       3. Ballast Drums: ASTM F2056, 11 inch dia x 12 inch wide molded polyethylene, filled with sand at time of installation. Rear drums serve as transport wheels.
       4. Features: Molded plastic net attachment clips, 4mm white nets, net zip ties, and net ground stakes.
       5. Face: 4 inch round 6063-T6 aluminum extrusions with 1/8 inch wall thickness, and net track extruded in rear face for net attachment with special clips. Finish: White textured polyester powder coat.
       6. Approximate System Weight: 448 lbs. per pair.
    10. 4 Inch Round Shootout Portable Aluminum Soccer Goals: SC2480PA40E. NCAA, NFHS, FIFA Compliant.
        1. Goal: ASTM F2056, ASTM F1938-98, 8 ft. x 24 ft. opening, with crossbar sections connected by telescoping inner aluminum extrusion with four hidden 3/8 x 1 inch hex bolts located on rear of crossbar, with side backstay and rear spreader bar section connected by telescoping outer aluminum extrusion attached by 8 self drilling, self threading hex screws.
        2. Backstay and Rear Stabilizer Bar: 1-5/8 inch dia, 13 ga steel tube, galvanized, with 4 ft. top depth and 10 ft. bottom depth.
        3. Features: Auger type rear safety hold downs, molded plastic net attachment clips, 4mm white nets, rear horizontal stabilizer bars, net zip ties, and net ground stakes.
        4. Face: 4 inch round 6063-T6 aluminum extrusions with 1/8 inch wall thickness, and net track extruded in rear face for net attachment with special clips. Finish: White textured polyester powder coat.
        5. Approximate System Weight: 525 lbs. per pair.
    11. 4 Inch Round Shootout No-Tip Portable Aluminum Soccer Goals: SC2480PA40NT. NCAA, NFHS, FIFA Compliant.
        1. Goal: ASTM F2056, ASTM F1938-98, 8 ft. x 24 ft. opening, with crossbar section connected by telescoping inner aluminum extrusion with 4 hidden 3/8 x 1 inch hex bolds on rear of crossbar, and side backstay and rear spreader bar section connected by telescoping outer aluminum extrusion attached by 8 self drilling, self threading hex screws.
        2. Backstay and Rear Stabilizer Bar: 1-5/8 inch dia, 13 ga steel tube, galvanized, with 4 ft. top depth and 10 ft. bottom depth.
        3. Ballast Drums: ASTM F2056, 11 inch dia x 12 inch wide molded polyethylene, filled with sand at time of installation. Rear drums serve as transport wheels.
        4. Features: Molded plastic net attachment clips, 4mm white nets, net zip ties, and net ground stakes.
        5. Face: 4 inch round 6063-T6 aluminum extrusions with 1/8 inch wall thickness, and net track extruded in rear face for net attachment with special clips. Finish: White textured polyester powder coat.
        6. Approximate System Weight: 530 lbs. per pair.
    12. 4 Inch Square Shootout Portable Soccer Goals: SC1865PA44E.
        1. Goal: ASTM F2056, ASTM F1938-98, 6 ft. 6 inch x 18 ft. 6 inch opening, with crossbar bar section connected by telescoping inner aluminum extrusion attached by 4 hidden 3/8 x 1 inch hex bolts on rear of crossbar.
        2. Backstay and Rear Stabilizer Bars: 1-5/8 inch dia, 13 ga steel tube, galvanized, with 4 ft. top depth and 6 ft. 6 inch bottom depth, with side backstay and rear spreader bar sections connected by telescoping outer aluminum extrusion attached by 8 self drilling, self threading hex screws.
        3. Features: Auger type rear safety hold downs, molded plastic net attachment clips, 4mm white nets, rear horizontal stabilizer bars, net zip ties, and net ground stakes.
        4. Face: 4 inch sq. 6063-T6 aluminum extrusions with 1/8 inch wall thickness, and net track extruded in rear face for net attachment with special clips. Finish: White textured polyester powder coat.
        5. Approximate System Weight: 461 lbs. per pair.
    13. 4 Inch Square Shootout No-Tip Portable Aluminum Soccer Goals: SC1865PA44NT.
        1. Goal: ASTM F2056, ASTM F1938-98, 6 ft. 6 inch x 18 ft. 6 inch opening, with crossbar bar section connected by telescoping inner aluminum extrusion attached by 4 hidden 3/8 x 1 inch hex bolts on rear of crossbar.
        2. Backstay and Rear Stabilizer Bars: 1-5/8 inch dia, 13 ga steel tube, galvanized, with 4 ft. top depth and 6 ft. 6 inch bottom depth, with side backstay and rear spreader bar sections connected by telescoping outer aluminum extrusion attached by 8 self drilling, self threading hex screws.
        3. Ballast Drums: ASTM F2056, 11 inch dia x 12 inch wide molded polyethylene, filled with sand at time of installation. Rear drums serve as transport wheels.
        4. Features: Molded plastic net attachment clips, 4mm white nets, net zip ties, and net ground stakes.
        5. Face: 4 inch sq. 6063-T6 aluminum extrusions with 1/8 inch wall thickness, and net track extruded in rear face for net attachment with special clips. Finish: White textured polyester powder coat.
        6. Approximate System Weight: 482 lbs. per pair.
    14. 4 Inch Square Competition Portable Aluminum Soccer Goals: SC2170PA44E.
        1. Goal: ASTM F2056, ASTM F1938-98, 7 ft. x 21 ft. opening, with crossbar bar section connected by telescoping inner aluminum extrusion attached by 4 hidden 3/8 x 1 inch hex bolts on rear of crossbar.
        2. Backstay and Rear Stabilizer Bars: 1-5/8 inch dia, 13 ga steel tube, galvanized, with 4 ft. top depth and 7 ft. bottom depth, with side backstay and rear spreader bar sections connected by telescoping outer aluminum extrusion attached by 8 self drilling, self threading hex screws.
        3. Features: Auger type rear safety hold downs, molded plastic net attachment clips, 4mm white nets, rear horizontal stabilizers, net zip ties, and net ground stakes.
        4. Face: 4 inch sq. 6063-T6 aluminum extrusions with 1/8 inch wall thickness, and net track extruded in rear face for net attachment with special clips. Finish: White textured polyester powder coat.
        5. Approximate System Weight: 461 lbs. per pair.
    15. 4 Inch Square Shootout No-Tip Portable Aluminum Soccer Goals: SC2170PA44NT.
        1. Goal: ASTM F2056, ASTM F1938-98, 7 ft. x 21 ft. opening, with crossbar bar section connected by telescoping inner aluminum extrusion attached by 4 hidden 3/8 x 1 inch hex bolts on rear of crossbar.
        2. Backstay and Rear Stabilizer Bars: 1-5/8 inch dia, 13 ga steel tube, galvanized, with 4 ft. top depth and 7 ft. bottom depth, with side backstay and rear spreader bar sections connected by telescoping outer aluminum extrusion attached by 8 self drilling, self threading hex screws.
        3. Features: Auger type rear safety hold downs, molded plastic net attachment clips, 4mm white nets, rear horizontal stabilizer bars, net zip ties, and net ground stakes.
        4. Face: 4 inch sq. 6063-T6 aluminum extrusions with 1/8 inch wall thickness, and net track extruded in rear face for net attachment with special clips. Finish: White textured polyester powder coat.
        5. Approximate System Weight: 461 lbs per pair.
    16. 4 Inch Square Competition Portable Aluminum Soccer Goals: SC2480PA44E. NCAA, NFHS, FIFA Compliant.
        1. Goal: ASTM F2056, ASTM F1938-98, 8 ft. x 24 ft. opening, with crossbar bar section connected by telescoping inner aluminum extrusion attached by 4 hidden 3/8 x 1 inch hex bolts on rear of crossbar.
        2. Backstay and Rear Stabilizer Bars: 1-5/8 inch dia, 13 ga steel tube, galvanized, with 4 ft. top depth and 10 ft. bottom depth, with side backstay and rear spreader bar sections connected by telescoping outer aluminum extrusion attached by 8 self drilling, self threading hex screws.
        3. Features: Auger type rear safety hold downs, molded plastic net attachment clips, 4mm white nets, rear horizontal stabilizers, net zip ties, and net ground stakes.
        4. Face: 4 inch sq. 6063-T6 aluminum extrusions with 1/8 inch wall thickness, and net track extruded in rear face for net attachment with special clips. Finish: White textured polyester powder coat.
        5. Approximate System Weight: 561 lbs. per pair.
    17. 4 Inch Square Shootout No-Tip Portable Aluminum Soccer Goals: SC2480PA44NT. NCAA, NFHS, FIFA Compliant.
        1. Goal: ASTM F2056, ASTM F1938-98, 8 ft. x 24 ft. opening, with crossbar bar section connected by telescoping inner aluminum extrusion attached by 4 hidden 3/8 x 1 inch hex bolts on rear of crossbar.
        2. Backstay and Rear Stabilizer Bars: 1-5/8 inch dia, 13 ga steel tube, galvanized, with 4 ft. top depth and 10 ft. bottom depth, with side backstay and rear spreader bar sections connected by telescoping outer aluminum extrusion attached by 8 self drilling, self threading hex screws.
        3. Features: Molded plastic net attachment clips, 4mm white nets, net zip ties, and net ground stakes.
        4. Face: 4 inch sq. 6063-T6 aluminum extrusions with 1/8 inch wall thickness, and net track extruded in rear face for net attachment with special clips. Finish: White textured polyester powder coat.
        5. Approximate System Weight: 582 lbs. per pair.
    18. All Aluminum Shootout No-Tip Portable Soccer Goals: SC2480PA44XL. NCAA, NFHS, FIFA Compliant.
        1. Goal: ASTM F2056, ASTM F1938-98, 8 ft. x 24 ft. opening, with crossbar bar section connected by telescoping inner aluminum extrusion attached by 4 hidden 3/8 x 1 inch hex bolts on rear of crossbar.
        2. Backstay and Rear Stabilizer Bars: 2 inch sq. 6063-T6 extruded aluminum with minimum 1/8 inch wall thickness and 4 ft. top depth and 10 ft. bottom depth, with side backstay and rear stabilizer fully welded single unit. Powder coated.
        3. Features: Molded plastic net attachment clips, 4mm white nets, and net zip ties.
        4. Face: 4 inch sq. 6063-T6 aluminum extrusions with 1/8 inch wall thickness, and net track extruded in rear face for net attachment with special clips. Finish: White textured polyester powder coat.
        5. Approximate System Weight: 642 lbs. per pair.
    19. Euro Portable Futbol Goal: SC2480PA40EURO. NCAA, NFHS, FIFA Compliant.
        1. Goal: ASTM F2056, ASTM F1938-98, 8 ft. x 24 ft. opening, with crossbar sections connected by telescoping inner aluminum extrusion with four hidden 3/8 x 1 inch hex bolts located on rear of crossbar, with side backstay and rear spreader bar section connected by telescoping outer aluminum extrusion attached by 8 self drilling, self threading hex screws.
        2. Backstay and Rear Stabilizer Bar: 1-5/8 inch dia, 13 ga steel tube, galvanized, with 4 ft. top depth and 10 ft. bottom depth.
        3. Features: Auger type rear safety hold downs, molded plastic net attachment clips, 4mm white nets, rear horizontal stabilizer bars, net zip ties, and net ground stakes.
        4. Face: 4 inch round 6063-T6 aluminum extrusions with 1/8 inch wall thickness, and net track extruded in rear face for net attachment with special clips. Finish: White textured polyester powder coat.
        5. Approximate System Weight: 500 lbs. per pair.
    20. Shootout Combo Aluminum Permanent/Semi-Permanent Football/Soccer Goals: SC240IGAFB. Finish: White textured polyester powder coat.
        1. Goal: 8 x 24 ft. opening, with crossbar sections connected by telescoping inner aluminum extrusion with four hidden 3/8 x 1 inch hex bolts located on rear of crossbar.
        2. Football Uprights: 2-3/8 inch dia aluminum extending 10 ft. above official 10 ft. horizontal crossbar, installed at 23 ft. 4 inch official high school or 18 ft. 6 inch college width, and allowing for 24 inch of upright for permanent bury in 30 inch deep footing, or installed in optional SC44S ground sleeve.
        3. Features: European style backstay, molded plastic net attachment clips, and 4mm white nets.
        4. Face: 4 inch sq. aluminum extrusions with 1/8 inch wall thickness and 3/4 inch corner radii, and net track extruded in rear face for net attachment with special clips.
        5. Approximate System Weight: 696 lbs. per pair.
    21. Shootout Combo Portable Aluminum Football/Soccer Goals: SC2480PA44FB. NCAA, NFHS, FIFA Compliant.
        1. Goal: ASTM F2056, ASTM F1938-98, 8 ft. x 24 ft. opening, with crossbar bar section connected by telescoping inner aluminum extrusion attached by 4 hidden 3/8 x 1 inch hex bolts on rear of crossbar.
        2. Ft.ball Uprights: 2-3/8 inch dia aluminum extending 10 ft. above official 10 ft. horizontal crossbar, installs at 23 ft. 4 inch high school or 18 ft. 6 inch college width.
        3. Backstay and Rear Stabilizer Bars: 1-5/8 inch dia, 13 ga steel tube, galvanized, with 4 ft. top depth and 10 ft. bottom depth, with side backstay and rear spreader bar sections connected by telescoping outer aluminum extrusion attached by 8 self drilling, self threading hex screws.
        4. Ballast Drums: ASTM F2056, ASTM F1938-98, 11 inch dia x 12 inch wide molded polyethylene, filled with sand. Rear drums serve as transport wheels.
        5. Features: Molded plastic net attachment clips, 4mm white nets, net zip ties, and net ground stakes.
        6. Face: 4 inch sq. 6063-T6 aluminum extrusions with 1/8 inch wall thickness, and net track extruded in rear face for net attachment with special clips. Finish: White textured polyester powder coat.
        7. Approximate System Weight: 818 lbs. per pair.

\*\* NOTE TO SPECIFIER \*\* Retain SC44S if installation in ground sleeve is required for permanent/semi-permanent goals..

* + 1. Ground Sleeve for Permanent/Semi-Permanent Goals: SC44S.
       1. Sleeves: 6063-T6 extruded aluminum, with required bury in 8 x 30 inch minimum and removable steel top cap.
       2. Sleeve Depth: 24 inch, designed to allow removal of 4 inch sq. uprights on manufacturer's in-ground soccer goals.
       3. Approximate Weight: 5 lbs. each.

1. EXECUTION
   1. EXAMINATION
      1. Do not begin installation until the substrates have been properly constructed and prepared.
      2. If substrate preparation is the responsibility of another installer, notify Architect in writing of unsatisfactory preparation before proceeding.
   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 in accordance with manufacturer's instructions, approved submittals, and in proper relationship with adjacent construction.

\*\* NOTE TO SPECIFIER \*\* Delete the following paragraph if not required.

* + 1. Basketball Equipment: Install following the guidelines outlined in ASTM F3731.
  1. FIELD QUALITY CONTROL
     1. Field Inspection: Coordinate field inspection in accordance with appropriate sections in Division 01.

\*\* NOTE TO SPECIFIER \*\* Include if manufacturer provides field quality control with onsite personnel for instruction or supervision of product installation, application, erection, or construction. Delete if not required.

* + 1. Manufacturer's Services: Coordinate manufacturer's services in accordance with appropriate sections in Division 01.
  1. CLEANING AND PROTECTION
     1. Clean products in accordance with the manufacturers recommendations.
     2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION