

All Public Work Projects are required to use the Louisiana Uniform Public Work Bid Form

All prices must be held firm unless an escalation provision is requested in this bid. Jefferson Parish will allow one escalation during the term of the contract, which may not exceed the U.S. Bureau of Labor Statistics National Index for all Urban Consumers, unadjusted 12 month figure. The most recently published figure issued at the time an adjustment is requested will be used. A request must be made in writing by the vendor, and the escalation will only be applied to purchases made after the request is made.

Are you requesting an escalation provision?

YES _____ NO ✓

MAXIMUM ESCALATION PERCENTAGE REQUESTED _____ %

INITIAL BID PRICES WILL REMAIN FIRM THROUGH THE DATE OF 1-15-2019

For the purposes of comparison of bids when an escalation provision is requested, Jefferson Parish will apply the maximum escalation percentage quoted by the bidder to the period to which it is applied in the bid. The initial price and the escalation will be used to calculate the total bid price. It will be assumed, for comparison of prices only, that an equal amount of material or labor is purchased each month throughout the entire contract.

DELIVERY: FOB JEFFERSON PARISH

INDICATE DELIVERY DATE ON EQUIPMENT AND SUPPLIES

5-15-2019

LOUISIANA CONTRACTOR'S LICENSE NO.: (if applicable)

16314**THIS SECTION MUST BE COMPLETED BY BIDDER:**FIRM NAME: D AND A ASSOCIATES, INCADDRESS: 404 SCOTCHPINE DRIVECITY, STATE: MANDEVILLE, LA ZIP: 70471TELEPHONE: (985) 845-8079 FAX: (985) 845-1133EMAIL ADDRESS: charlotte@daassociates.com

In the event that addenda are issued with this bid, bidders MUST acknowledge all addenda on the bid form. Bidder must acknowledge receipt of an addendum on the bid form as indicated. Failure to acknowledge any addendum on the bid form will result in bid rejection.

Acknowledge Receipt of Addenda: NUMBER: #1

NUMBER: _____

NUMBER: _____

NUMBER: _____

TOTAL PRICE OF ALL BID ITEMS: \$ 32,437.00AUTHORIZED SIGNATURE: Charlotte SmithTITLE: PRESIDENTCHARLOTTE SMITH

Printed Name

SIGNING INDICATES YOU HAVE READ AND COMPLY WITH THE INSTRUCTIONS AND CONDITIONS.

NOTE: All bids should be returned with the BID NUMBER and BID OPENING DATE indicated on the outside of the envelope submitted to the Purchasing Department.

DATE: 10/31/2018

Page 6

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00124472

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
1	1.00	JOB	<p>VENDOR TO SUPPLY AND INSTALL ELECTRICAL TELESCOPIC BLEACHERS AT KENNEDY HEIGHTS PLAYGROUND FOR THE JEFFERSON PARISH DEPARTMENT OF PARKS AND RECREATION</p> <p>0010 - Vendor to supply labor, material and equipment to furnish and install electrical telescopic bleachers on the south wall of the Kennedy Heights Gym, per the attached specifications.</p> <p><i>BRAND: INTERKAL ESM SEAT MODULES</i></p>	<i>32,437⁰⁰</i>	<i>32,437⁰⁰</i>

CORPORATE RESOLUTION

EXCERPT FROM MINUTES OF MEETING OF THE BOARD OF DIRECTORS OF
D & A ASSOCIATES, INC.
INCORPORATED.

AT THE MEETING OF DIRECTORS OF D & A ASSOCIATES, INC.
INCORPORATED, DULY NOTICED AND HELD ON 11-19-18,
A QUORUM BEING THERE PRESENT, ON MOTION DULY MADE AND SECONDED. IT
WAS:

RESOLVED THAT CHARLOTTE SMITH, BE AND IS HEREBY
APPOINTED, CONSTITUTED AND DESIGNATED AS AGENT AND ATTORNEY-IN-
FACT OF THE CORPORATION WITH FULL POWER AND AUTHORITY TO ACT ON
BEHALF OF THIS CORPORATION IN ALL NEGOTIATIONS, BIDDING, CONCERNS
AND TRANSACTIONS WITH THE PARISH OF JEFFERSON OR ANY OF ITS AGENCIES,
DEPARTMENTS, EMPLOYEES OR AGENTS, INCLUDING BUT NOT LIMITED TO, THE
EXECUTION OF ALL BIDS, PAPERS, DOCUMENTS, AFFIDAVITS, BONDS, SURETIES,
CONTRACTS AND ACTS AND TO RECEIVE ALL PURCHASE ORDERS AND NOTICES
ISSUED PURSUANT TO THE PROVISIONS OF ANY SUCH BID OR CONTRACT, THIS
CORPORATION HEREBY RATIFYING, APPROVING, CONFIRMING, AND ACCEPTING
EACH AND EVERY SUCH ACT PERFORMED BY SAID AGENT AND ATTORNEY-IN-
FACT.

I HEREBY CERTIFY THE FOREGOING TO BE
A TRUE AND CORRECT COPY OF AN
EXCERPT OF THE MINUTES OF THE ABOVE
DATED MEETING OF THE BOARD OF
DIRECTORS OF SAID CORPORATION, AND
THE SAME HAS NOT BEEN REVOKED OR
RESCINDED.

Rick Smith
SECRETARY-TREASURER

11-19-18

DATE



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
11/9/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER SafeSource Insurance Group 9191 Siegen Lane Bldg VI Ste A Baton Rouge, La 70810	CONTACT NAME: Dawn Fusilier	
	PHONE (A/C, No, Ext): 225-300-4500 FAX (A/C, No): 225-300-4501	
INSURED D&A Associates 404 Scotchpine Dr Mandeville, La. 70471	E-MAIL ADDRESS: dawn@safesourceins.com	
	INSURER(S) AFFORDING COVERAGE	NAIC #
	INSURER A: The Burlington Insurance Company	
	INSURER B: Progressive	
	INSURER C: Kinsale Insurance Company	
	INSURER D: LWCC	
	INSURER E: Mesa Underwriters Specialty Insurance Company	
	INSURER F:	

COVERAGES	CERTIFICATE NUMBER:	REVISION NUMBER:
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.		

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR	Y	Y	143BVW44451	04/08/2018	04/08/2019	EACH OCCURRENCE \$ 1,000,000
			DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000				
			MED EXP (Any one person) \$ 5,000				
			PERSONAL & ADV INJURY \$ 1,000,000				
	GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC					GENERAL AGGREGATE \$ 2,000,000	
						PRODUCTS - COMP/OP AGG \$ 2,000,000	
							\$
B	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> HIRED AUTOS			04522441-8	01/20/2018	01/20/2019	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000
			BODILY INJURY (Per person) \$				
			BODILY INJURY (Per accident) \$				
			PROPERTY DAMAGE (Per accident) \$				
	<input checked="" type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> EXCESS LIAB						\$
C	<input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS-MADE	Y	Y	0100064758-0	04/08/2018	04/08/2019	EACH OCCURRENCE \$ 1,000,000
			AGGREGATE \$ 2,000,000				
			\$ 1,000,000				
D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	144384-A	04/23/2018	04/23/2019	WC STATUTORY LIMITS OTH-ER
			E.L. EACH ACCIDENT \$ 1,000,000				
			E.L. DISEASE - EA EMPLOYEE \$ 1,000,000				
			E.L. DISEASE - POLICY LIMIT \$ 1,000,000				
E	Installation Floater			MP0017010000022	09/09/2018	09/09/2019	\$200,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

Jefferson Parish, its Districts Departments and Agencies under the direction of the Parish President and the Parish Council are listed as additional insureds regarding the negligence by the contractor for the Commercial General Liability, Workman's Compensation Insurance and the Comprehensive Automobile Liability policies.

CERTIFICATE HOLDER

Jefferson Parish Purchasing Department
200 Derbigny St.
General Government Bldg, Suite 4400
Gretna, LA 70053

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Dawn Fusilier

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Member:

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MRPA

LASBO

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LIST OF DIVIATIONS

Interkal vs Sheridan

Kennedy Heights Playground

Bid #50-00124472

Part 1 General – no deviations

Part 2 Scope

2.1 Description

A. Scope – no deviation

B. Manufacturer's Design Criteria

1. No deviation

2. No deviation

3. This applies to “free standing” bleachers only not wall attached.

4. Interkal column fabrication is electrically welded closed rectangular steel tube, 2"x3" minimum size, 14 gauge steel fitted with a front and rear welded gussets at the wheel channel. Specification states maximum spacing between columns shall be 11'-6".

Interkal's maximum spacing between columns is determined by Interkal's staff structural engineer as is the number of columns per row. Sheridan uses double the amount of horses to make up for their lack of structural integrity elsewhere in their product. Four columns per bleacher row for each section of bleachers is proprietary to Sheridan only.

5. Last row columns shall be no more than 40" from end of bleacher decking, nosing and riser, or as determined by Interkal's staff structural engineer.

6. No deviation.

7. No deviation.

8. No deviation.

9. No deviation. Interkal's seat is the ESM model

10. No less than 4" diameter x 1 1/4" wide wheels is proprietary to Sheridan. Interkal wheels are 3 1/2" diameter with 1 1/8" non-marring soft rubber fact with rounded edges designed to protect wood or synthetic floor. Interkal provides 1/2" diameter axle for all wheels. Interkal furnishes each wheel channel with not less than eight (8) wheels under each moving row for rows 1 to 10, ten (10) wheels under each moving row for rows 11 – 15, and twelve (12) wheels starting with row 16. This is equal or greater than Sheridan.

11. & 12. Interkal nose beams and rear riser are one-piece 13-gauge galvanized steel.

13-gause, grade 50, steel is utilized for the necessary structural integrity to accommodate section lengths up to 26'.

13. No deviation. Guardrails are not required by code with a first tier recoverable cutout.

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2.2 Quality Assurance – No deviation.

2.3 Submittals – no deviation.

2.4 Warranty - Interkal will match Sheridan's warranty

PART 3 – Product

3.1 Manufacturers

A. Interkal, LLC – as equal to Sheridan

B. specifications and literature attached

1. Model Number: ESM molded seats

2. Aisle Type – Foot level aisles with center aisle rail Interkal's patented "F" rail which is self storing with no labor to set up or take down in order to open and close the bleacher

3. End Rails – no deviation

4. Operation – no deviation

5. Product Requirements:

a. No deviation

b. No deviation

c. One bank 80' long x 6 rows high per Addendum 1

d. Row Rise – Interkal's row rise is 10 ¼"

e. Row Spacing – no deviation

6. Accessories:

a. No deviation. First tier ADA cutouts do not require Railings per code.

b. End Railings – no deviation as manufactured by Interkal meeting all codes and standards.

c. Obstructions: no deviation

d. Self-storing "P" aisle rails – Interkal aisle rails are shaped in an "F" allowing the aisle rails to be permanently fixed at an offset position in order that the bleacher open and close without labor.

e. No deviation

f. No deviation

3.2 - Fabrication

C. Understructure System

1. Structural high-tensile steel columns fabricated from minimum, size gauge structural tubing. Sheridan 1 ½"x3"x10 vs Interkal 2"x3"x14".

2. Interkal diagonal braces are structurally formed steel truss fitted to rows 3 and beyond. Bracing is attached to the rear riser at optimum locations to insure structural integrity. Bracing is designed and shaped to support a minimum load of 1000 lbs. of both compression and tension forces created when the bleacher is loaded.

3. Row Locks – no deviation.

4. Proprietary to Sheridan is 4" diameter x 1 ¼" wide wheels. Interkal wheels are 3 ½" diameter with 1 1/8" non-marring soft rubber fact with rounded edges designed to protect wood or synthetic floor.

5. Specification by Sheridan states maximum spacing between columns shall be

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11'-6". Interkal's maximum spacing between columns is determined by Interkal's staff structural engineer.

6. Last row columns shall be no more than 40" from end of bleacher decking, nosing and riser, as determined by Interkal's staff structural engineer.

7. Finish: Steel Understructure abraded, cleaned and finished with russet brown water base acrylic paint. Steel risers and nose beams finished with corrosion resistant silver gray matte finish with galvanized alloy plating.

D. Deck System

1. Interkal deckboards consist of 19/32" nominal C-C plugged Group 1 plywood with exterior glue and solid cross bands. An extruded aluminum "H" connector shall be placed between plywood panels. Exposed wear surfaces shall be finished with a layer of high Density polyethylene plastic .025 - .030 thick, Light Gray in color, complimentary to the seat option.

2. No deviation

E. Decking and Risesr Supports

1. Interkal deck supports are 11 gauge structural steel, spaced not greater than 60" on center for maximum deck stiffness. Every deck support not attached to a vertical post has an integral nylon roller to avoid steel to steel friction points for more efficient operation.

F. Seat System – No deviation – Interkal's molded seat is the ESM

G. Electrical System

1. & 2. Interkal friction power, integral automatic electro-mechanical propulsion system to open and close telescopic seating system. Operation shall assure full visual control of the seating bank. The Wide Track System incorporates two friction drive roller assemblies as an integral part of both first row vertical column assemblies. Each section of bleacher shall have a power system that shall consist of two vertical column roller assemblies which shall include two 6" diameter by 2 1/2" wide cast drive wheels for a minimum of four friction roller contact points per section of bleacher. Each roller shall have a specially formulated 45-durometer rubber covering to grip the floor as the units roll in and out. The two friction drive roller assemblies shall be installed a minimum of 7-feet apart per section. The two friction roller assemblies are linked together by a continuous drive shaft driven by a 1/2 H.P. 208V, 3-phase motor that shall enable the rollers to work simultaneously, resulting in a more efficient operation with allowance for minor variations in the floor surface. All floor friction power systems shall be controlled by a dual directional, removable walk along pendant which plugs into the front of the first row to give the operator proper position for visual control. The pendant control voltage shall be 24 VAC @ less than 50 MA for the safety of all operating personnel. **The entire power system shall be U.L. Recognized.** A 208/220 volt 3-phase power source, including conduit, wiring, and safety disconnect must be provided by others. The electrical contractor shall perform the connections to the seating equipment at the safety disconnect. Motors, housing, and wiring shall be installed by certified personnel.

PART 4 – No deviations

SECTION 12760

GYMNASIUM BLEACHERS

1. Part I General

1.1 Work:

- A. Telescoping gymnasium bleachers.

1.2 Related Work:

- A. Electrical
- B. Gymnasium flooring

1.3 References:

Applicable building codes _____ Edition Year _____

1.4 Description of the System

- A. The bleacher system shall be comprised of multiple tiered, closed deck seating rows operating in a telescopic manner, incorporating the most economical quantity of sections while still complying with all loading requirements.
- B. The first moving row shall be secured with friction or mechanical locks. Other rows shall be mechanically locked, operable only upon unlocking and cycling the first row, quantity to be determined by Interkal engineering.
- C. Each bleacher row shall be comprised of risers, seat and deck components, and a complete set of supportive columns and braces.
- D. The telescopic bleacher shall incorporate a locking system permitting the use of one, several, or all rows, each locked in the extended position.

1.5 Quality Assurance

A. Qualifications

- 1. Manufacturing: Manufacturer shall be regularly engaged in the

design and manufacturing of telescopic seating for not less than twenty years.

2. Engineering: It will be mandatory that each bidder submit with their bid an affidavit signed by a Registered Professional Engineer stating that the product to be supplied has been tested by an independent testing facility and meets all applicable code requirements.

B. Deviations: It will be the responsibility of the bidder to furnish with their bid, a list clarifying any deviations from the specifications, written or implied. Those bidders not submitting a list of deviations will be presumed to have bid as specified.

C. Guarantees:

1. One-Year Guarantee: The manufacturer shall guarantee all work performed under these specifications to be free from defects for a period of one year.

D. Product Improvements: Seating provided shall incorporate manufacturer's design improvements and materials current at time of shipment.

1.6 Submittals:

- A. Submit manufacturer's installation instructions and descriptive literature in accordance with Section 01300.
- B. Manufacturer's operating and maintenance manuals in accordance with Section 01700.

1.7 Design Criteria

- A. Telescopic bleacher design and fabrication shall conform to (specify applicable code by year and ADA requirements)
- B. Telescopic gymnasium seating will be designed to support a vertical live load of 100 PSF, but not less than 120 PLF on both seat boards and footboards. Seating shall also be designed to carry a horizontal sway force of 24 PLF parallel to the seating and 10 PLF perpendicular to the seating.

- C. Steel components shall be cold-formed from appropriate width strip stock conforming to ASTM A570 - Grade C 30KSI, ASTM A653-Grade 33 and 50, ASTM A500 - Grade B 46 KSI as applicable.
- D. Lumber components are kiln dried, finger jointed, edge glued southern pine of grade "B & B Finish" manufactured to the current SPIB glued-laminated standards for southern pine.
- E. Plywood deck boards shall be fabricated from Douglas Fir Premium Underlayment with exterior glue, 5 ply minimum, solid crossband directly under face ply, species Group 1 and manufactured in accordance with PS-1-95.

2. PART 2 PRODUCTS

2.1 Manufacturer

- A. Telescopic seating as manufactured by Interkal, Kalamazoo, Michigan, is the standard of quality required and specified herein.

2.2 Materials

- A. **Model:** Interkal, closed deck telescopic bleachers
- B. **Type:** (Select one)
 - Wall attached
 - Recessed
 - Mobile
 - Free Standing
 - Reverse Fold
- C. **Quantity:**
 - 1. Provide _____ banks of _____ attached _____ rows high.
- D. **ADA** (Available options)
 - 1. **Notchouts:** Provide a 36" wide wheel chair space as shown on the plans and as required to meet local code jurisdiction compliance with ADA. (Specify one row or two row deep).
 - 2. **Truncations:** Provide a full section truncation with all necessary front rails, closure panels, and portable step

assemblies at aisles as required to meet local jurisdiction compliance with ADA. (Specify one row or two row deep).

E. Dimensions:

1. Rise per row (Select one)- 10 -1/4", 11-1/2", 16"
2. Row to row spacing (Select one) - 22", 24", 26", 30", 32", 33"

F. Propulsion (Select One)

1. **Manual Operation-** Furnish one pair of operating handles to attach under the first row kick board for manual operation.
2. **Friction Power-** Furnish Interkal friction power, integral automatic electro-mechanical propulsion system to open and close telescopic seating system. Operation shall assure full visual control of the seating bank. The Wide Track System incorporates two friction drive roller assemblies as an integral part of both first row vertical column assemblies. Each section of bleacher shall have a power system that shall consist of two vertical column roller assemblies which shall include two 6" diameter by 2 1/2" wide cast drive wheels for a minimum of four friction roller contact points per section of bleacher. Each roller shall have a specially formulated 45-durometer rubber covering to grip the floor as the units roll in and out. The two friction drive roller assemblies shall be installed a minimum of 7-feet apart per section. The two friction roller assemblies are linked together by a continuous drive shaft driven by a 1/2 H.P. 208V, 3-phase motor that shall enable the rollers to work simultaneously, resulting in a more efficient operation with allowance for minor variations in the floor surface. All floor friction power systems shall be controlled by a dual directional, removable walk along pendant which plugs into the front of the first row to give the operator proper position for visual control. The pendant control voltage shall be 24 VAC @ less than 50 MA for the safety of all operating personnel. **The entire power system shall be U.L. Recognized.** A 208/220 volt 3-phase power source, including conduit, wiring, and safety disconnect must be provided by others. The electrical contractor shall perform the connections to the seating equipment at the safety disconnect. Motors, housing, and wiring shall be installed by certified personnel.
3. **Nonfriction:** Gymnasium seating will be power operated. Limit switches will regulate the extended and closed positions. Movement will be reversible from any position. The power system will lock the units in any desired position. The power supply shall be 208-220 or 440 volts, 3 phase 60 cycle. A

junction box must be provided for each bank of power to be located as per the manufacturer's instructions. The electrical contractor shall furnish and install conduit, wiring and junction box. Motor starter, limit switches and key control switch to be provided by manufacturer. Rigid pusher linkages will maintain alignment of the bank during operation. The linkages will be attached to drive reels placed at pre-determined locations at the rear of the bank. Power systems employing friction on the floor will not be acceptable.

2.3 Accessories (Select applicable items)

A. Foot Level Aisles: Provide footrest level aisles at locations and sizes as shown on plans and approved shop drawings.

1. Center Aisle: Provide a permanently attached self-storing aisle rail, which is designed to eliminate all labor associated with set up and storage of the aisle rails.
2. Intermediate Steps: Provide manufacturers standard intermediate step as necessary per applicable code.

B. Last Row Closure

1. Rear Closure Board: Provide and install a properly supported, flush mounted board between the last row of the bleacher and the wall.

C. Wheelchair Seating: (Available options)

1. Notchouts: Provide manufacturers standard permanent handicap notchout (36" wide) located as shown on architectural plans. Notchouts must be located at section joints only to avoid interference with understructure. Fascia panels shall have manufacturers standard polydeck finish to match deck board surface. Available in one row or two row deep, (select one).
2. Recoverable Notchouts: Provide manufacturers standard recoverable handicap notchout (36" wide) located as shown on architectural drawings. Notchouts to be one row or two row deep, (select one).
3. Recoverable Truncations: Provide full section recoverable handicap seating as shown on architectural drawings. Include portable step assemblies at affected aisle locations. Recoverable truncations to be one row or two row deep, (select one).

D. Front Railing (if required): Provide rigid 36" high, fixed tubular steel rail with vertical intermediate members to fill design criteria. Rail to be mounted full width at all two row deep ADA wheelchair accommodations. Finish shall be a polyester powder coat. Front rails

are to be designed to comply with all applicable codes and remain consistent with all other rails not allow clearance of a 4" sphere.

E. End Railing: (Select One)

1. **Self-Storing End Rails:** Provide steel self-storing 42" high self-storing end guard rails with tubular supports and vertical intermediate members to comply with all code requirements. Rails shall be fitted to each exposed bank end from third row and above with all steel to steel connections. Finish shall be a polyester powder coat.
2. **Removable End Rails:** Provide steel removable 42" high end guard rails with tubular supports and vertical intermediate members to comply with all code requirements. Rails shall be fitted to each exposed bank end from third row and shall fully enclose all openings down to the deck level. Finish shall be a polyester powder coat.

F. Operation

1. **Pendant Control:** Provide pendant control style operation for the bleachers. Extension and retraction shall be accomplished by use of the pendant control plugged into a single receptacle. The receptacle shall be mounted at the first row.

G. Numbering: Provide seat numbers and row letters for sculpture seat modules. Sequence to be determined by architect or owner.

H. Back Panels: (for reverse fold, mobile, and free standing units) Provide the manufacturers standard polydeck finish to match deck board surface. Back panels will be provided a maximum of 8' high.

I. Back Rails: (for reverse fold, mobile, and free standing units) Provide the manufacturers standard back rails with vertical intermediate members to eliminate ladder effect and comply to all applicable building codes. Back rails are to be designed to not allow clearance of a 4" sphere.

J. Vinyl-End Curtains: Provide manufacturers standard vinyl end curtains to close off under the bleacher units in the extended position. Curtain color is to be selected from manufacturers standard offering.

K. End Panels: Provide manufacturers standard end panels to close off the opening between end rails and the wall when the bleachers are stacked. (Not available with vinyl end curtains)

2.4 FABRICATION

- A. Continuous Wheel Channel:** Wheel channels shall consist of a one piece formed steel channel welded to the base of a vertical column. Wheel channels accommodate 8 to 12 wheels for maximum weight distribution and operating ease. The number of wheels increase as the number of rows increase.
- B. Wheels:** 3-1/2" diameter with 1-1/8" non-marring soft rubber face with rounded edges designed to protect wood or synthetic floor. Provide 1/2" diameter axle for all wheels
- C. Columns:** Electrically welded closed rectangular steel tube, 2" x 3" minimum size, 14-gauge steel fitted with a rear welded gusset at the wheel channel.
- D. Row Interlocks:** Join each row structure front to rear by means of two (2) interacting steel connections, plus automatic gravity row locks where Engineering determines they are required.
1. Lower: Lower track guides shall be an external superslide rod to guarantee positive engagement of vertical supports without binding and assures smooth operation over uneven floor conditions.
 2. Upper: Upper track guides shall completely interlock adjacent understructure support. A welded stop to ensure correct extension of bleacher unit on deck support. Use of bolt and nut stops are not acceptable, due to risk of loosening.
- E. Diagonal Braces:** Structural formed steel truss fitted to rows 4 and beyond. Bracing shall be attached to the rear riser at optimum locations to insure structural integrity. Bracing will be designed and shaped to support a minimum load of 1000(lbs) of both compression and tension forces created when the bleacher is loaded.
- F. Deck Supports:** Shall be of structural steel, 11 gauge spaced not greater than 60" on center for maximum deck stiffness.
1. **Rollers:** Every deck support not attached to a vertical post will have an integral nylon roller to avoid steel to steel friction points for more efficient operation.
- G. Decking:** All deck boards shall consist of 19/32" nominal C-C plugged Group 1 plywood with exterior glue and solid cross bands. Tongue and Groove deck boards are unacceptable. An extruded aluminum "H" connector shall be placed between plywood panels. Exposed wear surfaces shall be finished with a layer of high Density polyethylene plastic .025 - .030 thick, Light Gray in color, complimentary to the seat option. Deck finishes, such as clear coat, requiring more than simple

touch up to restore it to a new appearance after wear occurs are unacceptable.

- H. **Welds:** All welds shall be made at the factory by welders that are AWS certified on the equipment and process used.
- I. **Nose Beam:** Shall be one-piece, grade 40, galvanized steel. A minimum design thickness of .094" is utilized for the necessary structural integrity to accommodate section lengths up to 26'.
- J. **Rear Riser:** Shall be one piece, grade 40, galvanized steel with a continuous access joint to fully encapsulate footrest panel for ease of cleaning and additional structural support. A minimum design thickness of .070" is utilized for the necessary structural integrity to accommodate section lengths up to 26'.
- K. **Splice Plates:** (For Friction or Non-Friction power only) Each section joint shall be tied together with two structural steel members per row, employing a minimum of four steel to steel through bolt connections at the nose beam and a minimum of eight steel to steel through bolt connections at the lower steel rear riser. Splice plate material to match the nose beam and rear riser. Splice plates employing steel to plywood deck board attachments will not be acceptable. In order to minimize deflections and keep rows in alignment during operation, splice connections shall transfer both axial loads (tension/compression) and bending.
- L. **Fasteners:** All structural connections shall be made with S.A.E. grade 5 or better stress rated bolts. The use of self-tapping bolts is not acceptable.
- M. **Finish:**
 - 1. Steel Understructure abraded, cleaned and finished with russet brown water base acrylic paint. Steel risers and nose beams finished with corrosion resistant silver gray matte finish with galvanized alloy plating.
 - 2. Zinc plated (optional for high humidity areas).

2.5 Seat Options (Select One)

A. Excel Seat Modules (ESM): 10" deep

- 1. 18-inch wide one-piece individual seating modules shall be constructed of solid injection molded, high density polyethylene.

2. Each module shall have three longitudinal and five transverse internal ribs to provide additional structural integrity and resistance to impact.
3. Each module shall have a full 3/8" interlock to the adjacent module around the perimeter to eliminate pinching hazards and assure proper alignment.
4. Each module shall be equipped with an 11-gauge steel bracket for a steel-to-steel attachment of each module to the galvanized steel nose beam for maximum rigidity. All such mounting hardware shall be concealed.
5. End caps shall be provided at the ends of each bank (section, if manual) of seating as well as at each aisle.
6. Each module shall have a 2 1/4" x 1" recessed area for optional seat numbering.
7. Each end cap shall have two recessed areas including a 3 1/2" x 3 1/2" area for custom logos and a 2 1/4" x 1" area for row letters/numbers.
8. Select from manufacturer's 15 standard solid colors.

B. SculptureSeat Modules (SSM): 12" deep

1. 18-inch wide one-piece individual seating modules shall be constructed of high-density polyethylene.
2. Each module shall have two longitudinal and five transverse internal ribs to provide additional structural integrity and resistance to impact.
3. Each module shall have a full 1/2" interlock to the adjacent module both around the perimeter and along the internal ribs to eliminate pinching hazards and assures proper alignment.
4. A steel-to-steel attachment of each module to the galvanized steel nosebeam shall be provided for maximum rigidity. All such mounting hardware shall be concealed.
5. End caps shall be provided at the ends of each bank (section, if manual) of seating as well as at each aisle.
6. Each module shall have a recessed area for optional seat numbering.
7. Select from manufacturers 15 standard solid colors.

C. Wood:

Seats and front risers shall be 1" nominal thickness x 10" nominal depth, kiln dried, finger-joined and edge glued, Southern Yellow Pine Grade "B and Better" in conformance with S.P.I.B. Glued Lumber Standards. Solid wood boards which are more subject to cracking, checking, warping, cupping, and bowing than are laminated boards or mixed lumber species are unacceptable. All

boards to be smooth sanded and sealed with a moisture resistant urethane followed by a second coat of high gloss urethane.

3. Part 3 Execution

3.1 Inspection:

- A. Verify that areas to receive telescopic bleachers are free from impediments interfering with installation.
- B. Do not begin work until building conditions are satisfactory.

3.2 Installation:

- A. Install telescopic bleachers in accordance with manufacturer's instructions and approved submittal drawings.
- B. Adjust bleachers for smooth and proper operation.
- C. Clean bleachers and remove all debris from gymnasium resulting from installation.

Non-Public Works Bid

AFFIDAVIT

STATE OF LOUISIANAPARISH/COUNTY OF ST. TAMMANY

BEFORE ME, the undersigned authority, personally came and appeared: CHARLOTTE SMITH, (Affiant) who after being by me duly sworn, deposed and said that he/she is the fully authorized PRESIDENT of DHA ASSOCIATES, INC. (Entity), the party who submitted a bid in response to Bid Number 50-00124472, to the Parish of Jefferson.

Affiant further said:

Campaign Contribution Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all campaign contributions, including the date and amount of each contribution, made to current or former elected officials of the Parish of Jefferson by Entity, Affiant, and/or officers, directors and owners, including employees, owning 25% or more of the Entity during the two-year period immediately preceding the date of this affidavit or the current term of the elected official, whichever is greater. Further, Entity, Affiant, and/or Entity Owners have not made any contributions to or in support of current or former members of the Jefferson Parish Council or the Jefferson Parish President through or in the name of another person or legal entity, either directly or indirectly.

Choice B ✓ there are **NO** campaign contributions made which would require disclosure under Choice A of this section.

Debt Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all debts owed by the affiant to any elected or appointed official of the Parish of Jefferson, and any and all debts owed by any elected or appointed official of the Parish to the Affiant.

Choice B ✓ There are **NO** debts which would require disclosure under Choice A of this section.

Affiant further said:

That Affiant has employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project or in securing the public contract were in the regular course of their duties for Affiant; and

[The remainder of this page is intentionally left blank.]

That no part of the contract price received by Affiant was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project were in the regular course of their duties for Affiant.

Charlotte Smith
Signature of Affiant

CHARLOTTE SMITH
Printed Name of Affiant

SWORN AND SUBSCRIBED TO BEFORE ME

ON THE 20 DAY OF NOV, 2018

Valerie S. Barnes
Notary Public

Valerie S. Barnes
Printed Name of Notary

67486
Notary/Bar Roll Number

My commission expires Lifetime.

Valerie S. Barnes
Notary Public, St. Tammany Parish, L
#67486 Commissioned for Lif

[Print](#)

Notary Search - Detail

Name: MS. VALERIE S. BARNES
Address: 79479 HANDS DR.
BUSH, LA 70431

Phone: (985) 886-1246

Notary ID Number: 67486
Parish: ST. TAMMANY
Agency: N/A
Notary Type: Non Attorney
Status: Active

Commission Date: 08/03/2009
Oath Date: 11/20/2008
Surety Expiration Date: 11/24/2023
Annual Report Current: Yes

Notary Events

Suspension From: 11/25/2013 To: 12/10/2013

Suspension From: 10/03/2012 To: 10/06/2012

Parish Change Previous Parish: ST. BERNARD
Previous Commission Date: 02/12/2003

Deceased, Inactivated, Leave of Absence, Pre-Assessment Registration, Pre-Assessment Taken, Resigned, Retirement, and Revoked events are not available prior to February 11, 2012.

[Back to Search Results](#)[New Search](#)

📍 2525 Quail Drive, Baton Rouge, 70808 📞 (225) 765-2301 🗨 Text-To-Verify: 1 (855) 999-7896



Louisiana State Licensing Board for Contractors

Contractor Information

Business Name D AND A ASSOCIATES, INC. ✓
Mailing Address 404 Scotchpine Drive
Mandeville, LA 70471
Phone Number (985) 845-8079
Fax Number (985) 845-1133
Email Address mcpgys@bellsouth.net
Website <http://www.daassociates.com>

Active Licenses

License Number 16314 ✓
Type Commercial License
Status LICENSED
Effective 09/06/2017
Expiration 09/05/2019
First Issued 09/05/1982

Classifications

Class	Qualifying Party	Parishes
BUSINESS AND LAW	Mary Charlotte Smith	ALL
SPECIALTY: CARPENTRY	Mary Charlotte Smith	ALL
SPECIALTY: DETENTION LOCKS	Mary Charlotte Smith	ALL
SPECIALTY: FURNITURE, FIXTURES, AND INSTITUTIONAL & KITCHEN EQUIPMENT	Mary Charlotte Smith	ALL
✓ SPECIALTY: RECREATION & SPORTING FACILITIES & GOLF COURSES	Mary Charlotte Smith	ALL
SPECIALTY: TELECOMMUNICATIONS	Mary Charlotte Smith	ALL
SPECIALTY: TOWER CONSTRUCTION	Mary Charlotte Smith	ALL

ATTN: PAM BAILEY
504-364-2693

26157

Form
W-9
(Rev. November 2005)
Department of the Treasury
Internal Revenue Service

Request for Taxpayer
Identification Number and Certification

Give form to the
requester. Do not
send to the IRS.

Name (as shown on your income tax return)
D + A ASSOCIATES, INC

Business name, if different from above

Check appropriate box: ☐ Individual/
Sole proprietor ☒ Corporation ☐ Partnership ☐ Other ☐ Exempt from backup
withholding

Address (number, street, and apt. or suite no.)
404 SCOTCHPINE DRIVE

City, state, and ZIP code
MADEVILLE, LA 70471

List account number(s) here (optional)

Requester's name and address (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on Line 1 to avoid backup withholding. For individuals, this is your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I Instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see How to get a TIN on page 3.

Note. If the account is in more than one name, see the chart on page 4 for guidelines on whose number to enter.

Social security number
| | + | + | | |
or
Employer identification number
7124051716131514

Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
- I am a U.S. person (including a U.S. resident alien).

Certification Instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the Certification, but you must provide your correct TIN. (See the instructions on page 4.)

Sign
Here Signature of
U.S. person **P. Glenn**

Date **1/11/08**

Purpose of Form

A person who is required to file an information return with the IRS, must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

U.S. person. Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:

- Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
- Certify that you are not subject to backup withholding, or
- Claim exemption from backup withholding if you are a U.S. exempt payee.

In 3 above, if applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income.

Note. If a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

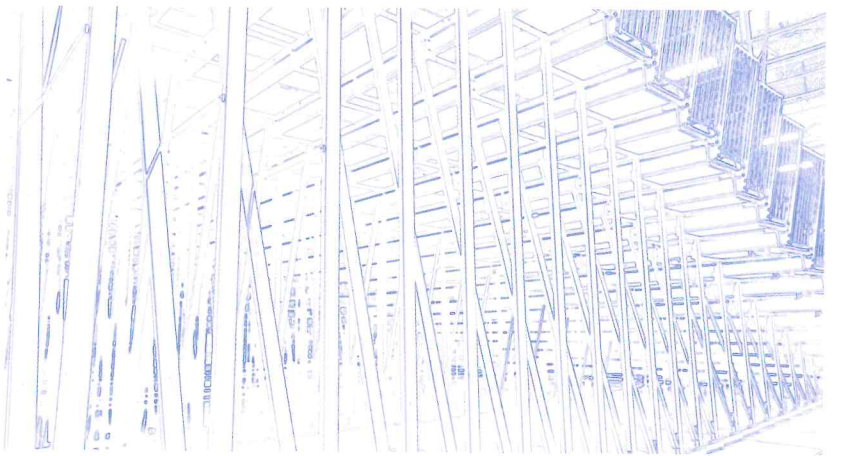
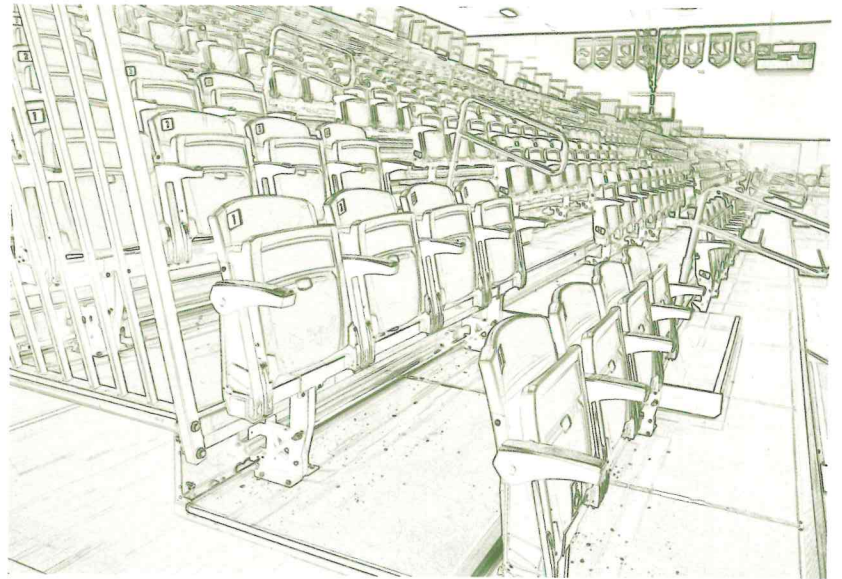
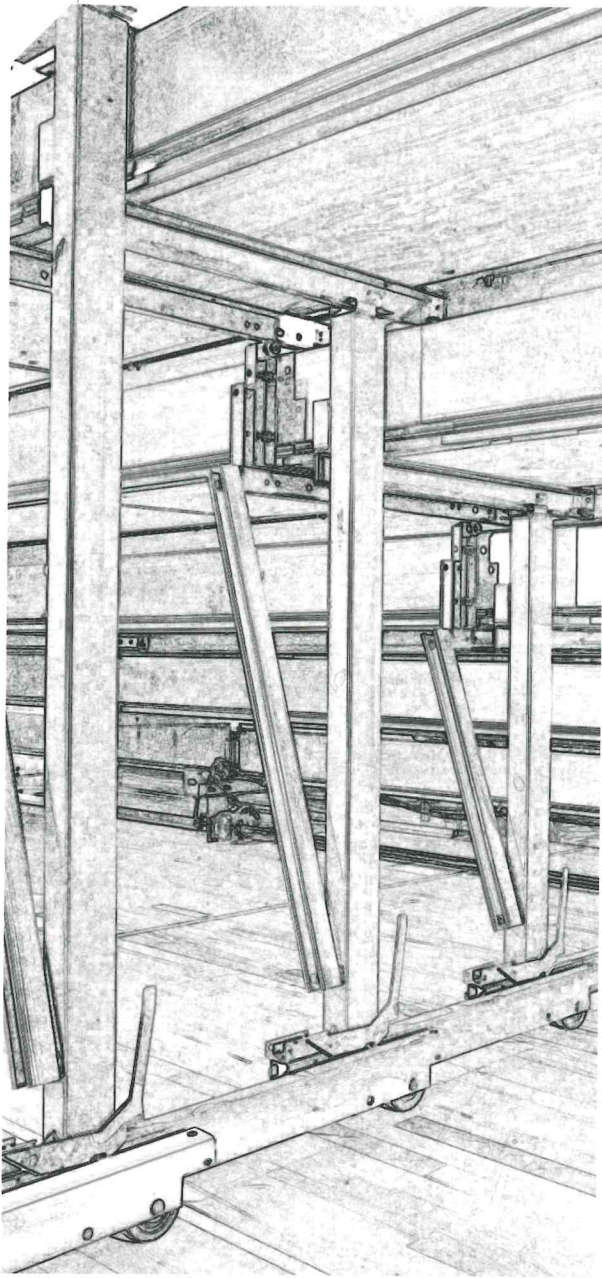
For federal tax purposes, you are considered a person if you are:

- An individual who is a citizen or resident of the United States,
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States, or
- Any estate (other than a foreign estate) or trust. See Regulations sections 301.7701-6(a) and 7(a) for additional information.

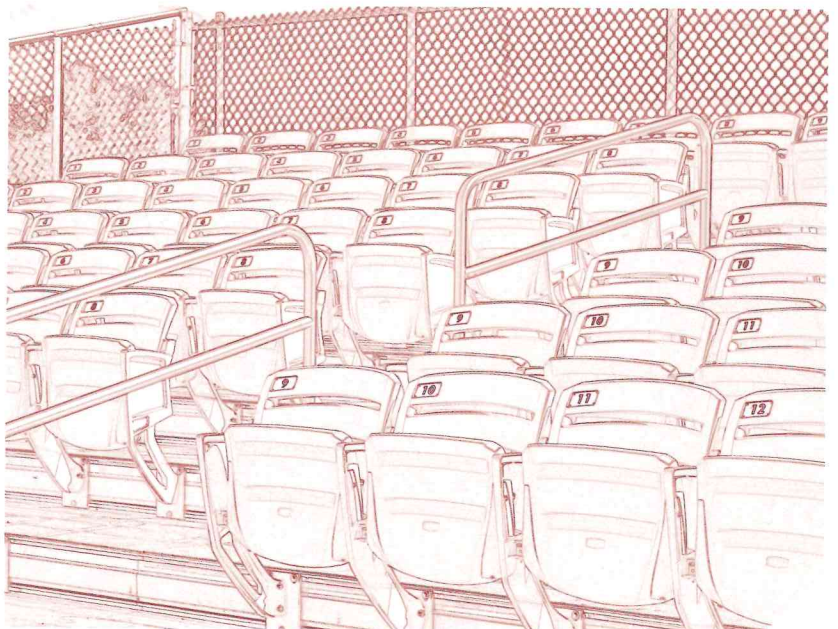
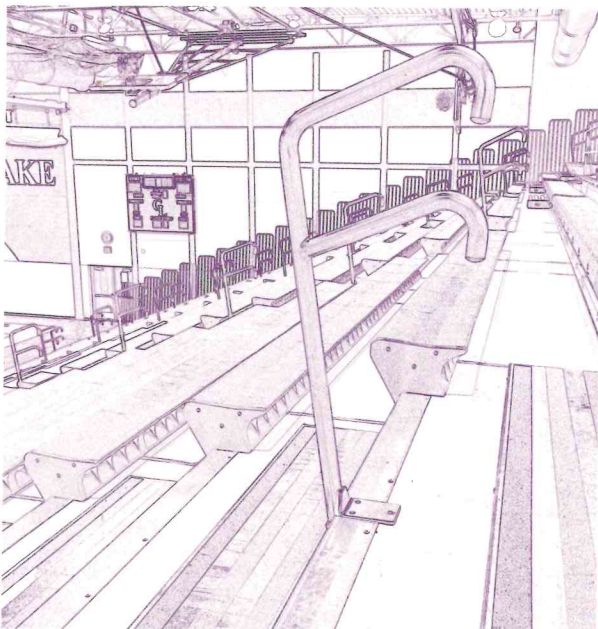
Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax on any foreign partners' share of income from such business. Further, in certain cases where a Form W-9 has not been received, a partnership is required to presume that a partner is a foreign person, and pay the withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid withholding on your share of partnership income.

The person who gives Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States is in the following cases:

- The U.S. owner of a disregarded entity and not the entity,



Interkal
Spectator Seating World Wide



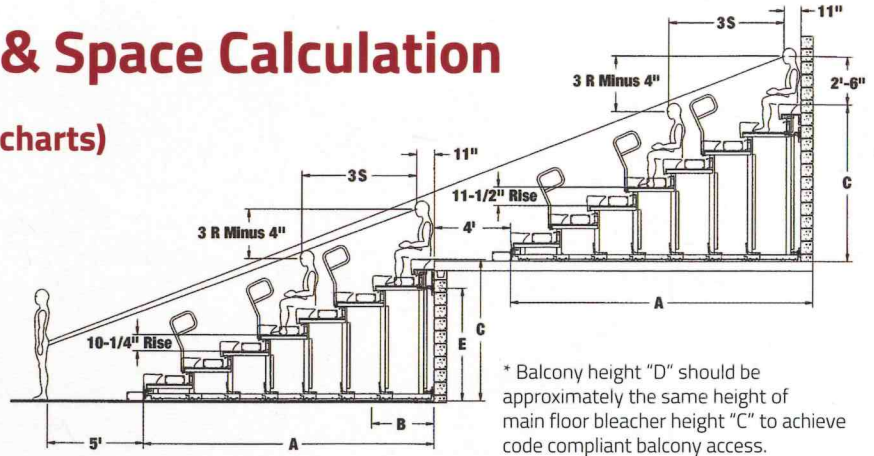
Bleacher Sight Line & Space Calculation

Code (for illustration and space charts)

- "A" Depth of gymnasium seating extended
- "B" Depth of gymnasium seating closed
- "C" Height of unit (top row seat height)
- "D" Balcony height
- "E" Wall Tie height

S = Seat spacing (22", 24", 26", 30", 32", or 33")
R = Rise (10 1/4" or 11 1/2")

Table of Dimensions (metric equivalents in centimeters)



* Balcony height "D" should be approximately the same height of main floor bleacher height "C" to achieve code compliant balcony access.

No.	Extended Dimension (Forward-Fold*)						Seatboard Height**	Wall Tie Height**	Seatboard Height**	Wall Tie Height**
	22" Span (56 cm)	24" Span (61 cm)	26" Span (66 cm)	30" Span (76 cm)	32" Span (82 cm)	33" Span (84 cm)	"C" 10-1/4"(26cm) Rise	"E" 10-1/4"(26cm) Rise	"C" 11-1/2"(29cm) Rise	"E" 11-1/2"(29cm) Rise
Rows	Ft. (cm)	Ft. (cm)	Ft. (cm)	Ft. (cm)	Ft. (cm)	Ft. (cm)	Ft. (cm)	Ft. (cm)	Ft. (cm)	Ft. (cm)
3	5'-1/2" (154)	5'-2-1/2" (159)	5'-6-1/2" (170)	6'-6-1/4" (199)	6'-8-1/4" (204)	6'-9-1/4" (207)	3'-1" (94)	1'-7" (48)	3'-4-3/4" (103)	1'-9-1/2" (55)
4	6'-10-1/2" (210)	7'-2-1/2" (220)	7'-8-1/2" (236)	9'-1/4" (275)	9'-4-3/16" (285)	9'-6-1/4" (291)	3'-11-1/4" (120)	2'-5-1/4" (74)	4'-4-1/4" (132)	2'-9" (84)
5	8'-8-1/2" (266)	9'-2-1/2" (281)	9'-10-1/2" (302)	11'-6-1/4" (352)	12'-3-1/6" (367)	12'-3-1/4" (374)	4'-9-1/2" (146)	3'-3-1/2" (100)	5'-3-3/4" (161)	3'-8-1/2" (113)
6	10'-6-1/2" (322)	11'-2-1/2" (342)	12'-1/2" (368)	14'-1/4" (428)	14'-8-3/16" (448)	15'-1/4" (458)	5'-7-3/4" (172)	4'-1-3/4" (126)	6'-3-1/4" (191)	4'-8" (142)
7	12'-4-1/2" (378)	13'-2-1/2" (403)	14'-2-1/2" (434)	16'-6-1/4" (504)	17'-4-3/16" (529)	17'-9-1/4" (542)	6'-6" (198)	5'-0" (152)	7'-2-3/4" (220)	5'-7-1/2" (171)
8	14'-2-1/2" (434)	15'-2-1/2" (464)	16'-4-1/2" (500)	19'-1/4" (580)	20'-3-1/6" (611)	20'-6-1/4" (626)	7'-4-1/4" (224)	5'-10-1/4" (178)	8'-2-1/4" (249)	6'-7" (201)
9	16'-1/2" (490)	17'-2-1/2" (525)	18'-6-1/2" (566)	21'-6-1/4" (656)	22'-8-3/16" (692)	23'-3-1/4" (710)	8'-2-1/2" (250)	6'-8-1/2" (204)	9'-1-3/4" (278)	7'-6-1/2" (230)
10	17'-10-1/2" (546)	19'-2-1/2" (586)	20'-8-1/2" (632)	24'-1/4" (733)	25'-4-3/16" (773)	26'-1/4" (793)	9'-0-3/4" (276)	7'-6-3/4" (230)	10'-1-1/4" (308)	8'-6" (259)
11	19'-8-1/2" (601)	21'-2-1/2" (647)	22'-10-1/2" (698)	26'-6-1/4" (809)	28'-3-1/6" (854)	28'-9-1/4" (877)	9'-11" (302)	8'-5" (256)	11'-0-3/4" (337)	9'-5-1/2" (288)
12	21'-6-1/2" (657)	23'-2-1/2" (708)	25'-1/2" (764)	29'-1/4" (885)	30'-8-3/16" (936)	31'-6-1/4" (961)	10'-9-1/4" (328)	9'-3-1/4" (283)	12'-0-1/4" (366)	10'-5" (317)
13	23'-4-1/2" (713)	25'-2-1/2" (769)	27'-2-1/2" (830)	31'-6-1/4" (961)	33'-4-3/16" (1017)	34'-3-1/4" (1045)	11'-7-1/2" (354)	10'-1-1/2" (309)	12'-11-3/4" (395)	11'-4-1/2" (347)
14	25'-2-1/2" (769)	27'-2-1/2" (830)	29'-4-1/2" (896)	34'-1/4" (1037)	36'-3-1/6" (1098)	37'-1/4" (1129)	12'-5-3/4" (380)	10'-11-3/4" (335)	13'-11-1/4" (424)	12'-4" (376)
15	27'-1/2" (825)	29'-2-1/2" (891)	31'-6-1/4" (962)	36'-6-1/4" (1114)	38'-8-3/16" (1180)	39'-9-1/4" (1213)	13'-4" (406)	11'-10" (361)	14'-10-3/4" (454)	13'-3-1/2" (405)
16	28'-10-1/2" (881)	31'-2-1/2" (952)	33'-8-1/2" (1028)	39'-1/4" (1190)	41'-4-3/16" (1261)	42'-6-1/4" (1296)	14'-2-1/4" (432)	12'-8-1/4" (387)	15'-10-1/4" (483)	14'-3" (434)
17	30'-8-1/2" (937)	33'-2-1/2" (1013)	35'-10-1/2" (1094)	41'-6-1/4" (1266)	44'-3-1/6" (1342)	45'-3-1/4" (1380)	15'-0-1/2" (458)	13'-6-1/2" (413)	16'-9-3/4" (512)	15'-2-1/2" (463)
18	32'-6-1/2" (993)	35'-2-1/2" (1074)	38'-1/2" (1160)	44'-1/4" (1342)	46'-8-3/16" (1423)	48'-1/4" (1464)	15'-10-3/4" (484)	14'-4-3/4" (439)	17'-9-1/4" (541)	16'-2" (493)
19	34'-4-1/2" (1048)	37'-2-1/2" (1135)	40'-2-1/2" (1226)	46'-6-1/4" (1418)	49'-4-3/16" (1505)	50'-9-1/4" (1548)	16'-9" (510)	15'-3" (465)	18'-8-3/4" (570)	17'-1-1/2" (522)
20	36'-2-1/2" (1104)	39'-2-1/2" (1196)	42'-4-1/2" (1292)	49'-1/4" (1495)	52'-3-1/6" (1586)	53'-6-1/4" (1632)	17'-7-1/4" (536)	16'-1-1/4" (491)	19'-8-1/4" (600)	18'-1" (551)
21	38'-1/2" (1160)	41'-2-1/2" (1257)	44'-6-1/2" (1358)				18'-5-1/2" (562)	16'-11-1/2" (517)	20'-7-3/4" (629)	19'-0-1/2" (580)
22	39'-10-1/2" (1216)	43'-2-1/2" (1318)	46'-8-1/2" (1424)				19'-3-3/4" (588)	17'-9-3/4" (543)	21'-7-1/4" (658)	20'-0" (610)
23	41'-8-1/2" (1272)	45'-2-1/2" (1379)	48'-10-1/2" (1490)				20'-2" (614)	18'-8" (569)	22'-6-3/4" (687)	20'-11-1/2" (639)
24	43'-6-1/2" (1328)	47'-2-1/2" (1440)	51'-1/2" (1556)				21'-0-1/4" (640)	19'-6-1/4" (595)	23'-6-1/4" (716)	21'-11" (668)
25	45'-4-1/2" (1384)	49'-2-1/2" (1501)	53'-2-1/2" (1622)				21'-10-1/2" (666)	20'-4-1/2" (621)	24'-5-3/4" (746)	22'-10-1/2" (697)
26	47'-2-1/2" (1440)	51'-2-1/2" (1562)	55'-4-1/2" (1689)				22'-8-3/4" (692)	21'-2-3/4" (647)	25'-5-1/4" (775)	23'-10" (726)
27	49'-1/2" (1495)	53'-2-1/2" (1622)	57'-6-1/2" (1755)				23'-7" (718)	22'-1" (673)	26'-4-3/4" (804)	24'-9-1/2" (756)
28	50'-10-1/2" (1551)	55'-2-1/2" (1683)	59'-8-1/2" (1821)				24'-5-1/4" (744)	22'-11-1/4" (699)	27'-4-1/4" (833)	25'-9" (785)
29	52'-8-1/2" (1607)	57'-2-1/2" (1744)	61'-10-1/2" (1887)				25'-3-1/2" (770)	23'-9-1/2" (725)	28'-3-3/4" (863)	26'-8-1/2" (814)
30	54'-6-1/2" (1663)	59'-2-1/2" (1805)	64'-1/2" (1953)				26'-1-3/4" (796)	24'-7-3/4" (751)	29'-3-1/4" (892)	27'-8" (843)

* For Reverse-Fold or Mobile Operation, ADD 4 1/2" to Extended Dimension.

** For Closure Board / Last Deck Height, SUBTRACT 6 3/8" from Seatboard Height (Typical all seating surfaces).

Closed Dimension

No. Rows	Forward - Fold ^{2,3}			Reverse - Fold ^{1,3}			Mobile ³
	Manual 22 / 24	Friction 22 / 24	Non-Friction 22 / 24	Manual 22 / 24	Friction 22 / 24	Non-Friction 22 / 24	Manual 22 / 24
3-10	3'-2-5/8" (98)	3'-2-5/8" (98)	3'-8-1/2" (113)	3'-8-1/4" (112)	5'-8-1/4" (173)	5'-8-1/4" (173)	3'-6-1/4" (107)
11-12	3'-2-5/8" (98)	3'-2-5/8" (98)	3'-8-1/2" (113)	5'-8-1/4" (173)	5'-8-1/4" (173)	5'-8-1/4" (173)	3'-6-1/4" (107)
13	3'-2-5/8" (98)	3'-2-5/8" (98)	3'-8-1/2" (113)	5'-8-1/4" (173)	5'-8-1/4" (173)	5'-8-1/4" (173)	3'-6-1/4" (107)
14	3'-2-5/8" (98)	3'-2-5/8" (98)	5'-4-1/2" (163)	5'-8-1/4" (173)	5'-8-1/4" (173)	5'-8-1/4" (173)	3'-6-1/4" (107)
15	3'-2-5/8" (98)	3'-2-5/8" (98)	5'-4-1/2" (163)	Not Recommended	5'-8-1/4" (173)	5'-8-1/4" (173)	Not Recommended
16-20	Not Recommended	3'-2-5/8" (98)	5'-4-1/2" (163)	Not Recommended	5'-8-1/4" (173)	5'-8-1/4" (173)	Not Recommended

For projects over 24 rows, consult factory.

¹ 26" Span, add 4" to stack size
Aisle recovery may also change stack size

² 26" Span, add 2" to stack size

³ SSAR - Add 4-1/8" ESM-10 4-7/16"
SSAR - Add 4-1/8" SSM-12 4-7/16"
SSAR - Add 2-1/4" CSM-10 2-9/16"
SSAR - Add 1" CSM-12 1-5/16"

10.25R

11.5R

Closed Dimension - Wide Deck (Wall Attached Only)

No. Rows	Manual			Power*		
	30"	32"	33"	30"	32"	33"
3-10	4'-0-1/4" (123)	4'-2-1/2" (128)	4'-3-1/2" (131)	4'-0-1/4" (123)	4'-2-1/2" (128)	4'-3-1/2" (131)
11-20	Not Recommended	Not Recommended	Not Recommended	4'-0-1/4" (123)	4'-2-1/2" (128)	4'-3-1/2" (131)

*All dimensions for the power section of this chart are based on the Wide Track power system.

Questions?

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