

SECTION 02861

PLAYGROUND EQUIPMENT

NOTE TO SPECIFIER: Coordination and documented approval are required during Design Phase from M-DCPS Department of Safety, Environment and Hazards Management. Verify Drawings delineate playground areas.

PART 1 GENERAL

1.01 SUMMARY

A. Related Work:

1. 02200 - Earthwork.
2. 03300 - Cast-In-Place Concrete.

1.02 REFERENCES

- A. Americans with Disabilities Act (ADA).
- B. American Welding Society (AWS).
- C. Consumer Products Safety Commission (CPSC): A Handbook for Public Playground Safety.
- D. Dade County Public Schools Guidelines for Playground Selection and Installation.

1.03 SUBMITTALS

- A. Submit properly identified manufacturer's literature and catalog cuts before starting work.
- B. Submit shop drawings including manufacturer's recommended installation procedures for each item of equipment.
- C. Submit calculations and connection details demonstrating compliance with American Society of Civil Engineers (ASCE) 7-98 to resist minimum wind velocity pressure of 75 mph with applicable shape factor and to resist not less than 15 psf roof live load.

1.04 QUALITY ASSURANCE

- A. Comply with the current standards referenced in article 1.02 of this section.

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SPECIFICATION GUIDELINES**

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- B. Install horizontal ladders, chinning bars, and other upper body equipment at heights according to ASTM F1487 equipment requirements.
 - 1. 2 through 5-year olds: Not more than 60 inches above safety surface to the center of the grasping device.
 - 2. 5 through 12-year olds: Not more than 84 inches above safety surface to the center of the grasping device.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Playground Equipment:

- 1. Game Time, Longwood, FL.
- 2. Iron Mountain Forge, Farmington, MO.
- 3. Landscape Structures, Inc., Delano, MN.
- 4. Park Structures, Inc., Pompano Beach, FL
- 5. Trojan Industries, Inc., St.Cloud, MN.

2.02 EQUIPMENT

A. Horizontal Ladder:

- 1. Minimum Length: 10'-0".
- 2. Minimum Width: 3'-0".
- 3. Height above finish grade:
 - a. Elementary schools: As specified.
 - b. Middle and high schools: Between 7'-6" and 8'-0".
- 4. Provide access rungs on one end only.
- 5. Top Rungs: Maximum of 11 inches apart.

B. Parallel Bars:

- 1. Each bar shall be one-piece construction, 1-7/8" outside diameter (OD) galvanized pipe.
- 2. Bar Height: 3'-6".
- 3. Bar Width: 2'-0", inside to inside.
- 4. Minimum Length: 10'-0".

C. Pull-up Bars:

- 1. 3 horizontal bars 5'-0" long with 1-3/8" (OD) supported by 4 uprights of 2-3/8" OD galvanized pipe.
- 2. Provide horizontal bars to be adjustable between 4'-0" and 8'-0" above finish grade.

D. Triple Balance Beam:

1. 3 beams, each 12'-0" long with a minimum width of 3 inches.
2. Provide ribbed top surface and cap end of each beam.
3. Set beams in a 3-inch overlapping, zigzag pattern in an ascending pattern.
 - a. 6 inches from grade level for the first beam.
 - b. 9 inches above grade level for the second beam.
 - c. 12 inches above grade level for the third beam.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install equipment according to the manufacturer's instructions and according to the standards noted in Article 1.02 of this section.
- B. Provide 12 inches of sand base as indicated on drawings and specified in Section 02200.
- C. Provide handicapped access as indicated on drawings with a concrete slab, not located in fall zones.

END OF SECTION