

Section 11 68 43 – Exterior Scoreboards

All American Scoreboards LC9186 LED Lacrosse Scoreboard

Part 1 - General

1.01 Summary

1.01.1 Section includes a single-sided, outdoor, electronic scoreboard

1.02 References

1.02.1 UL 48 – Standard for Safety for Electric Signs, 15th Edition

1.02.2 National Electrical Code

1.02.3 Federal Communication Commission (FCC) Rules, Part 15

1.03 Submittals

1.03.1 Product Data: Manufacturer's illustrations, diagrams, pictures, and documentation for scoreboard(s) and accessories

1.03.2 Documentation: Wiring diagram, installation manual, and operation manuals

1.04 Delivery, Storage, and Handling

1.04.1 Product to be delivered to customer specified location

1.04.2 Product to be stored in a clean, dry, environment prior to installation

1.05 Site Conditions

1.05.1 Ambient Conditions

- A. Concrete footings must be complete and had ample time to cure
- B. Mounting structure must be complete and fully secured
- C. Verify mounting structure can handle the scoreboard's weight with accessories and any options
- D. Verify mounting structure can handle the scoreboard's wind load
- E. Confirm installation can be performed within safe and acceptable weather conditions

1.06 Warranty

1.06.1 Manufacturer Warranty

- A. Scoreboard is covered under a five (5) year general manufacturer defect part warranty
- B. Radios are covered under a two (2) year manufacturer defect part warranty
- C. Console AC adapter and internal battery pack are covered under a one (1) year manufacturer defect part warranty
- D. Provide Technical Phone support Monday through Friday 8:00am to 5:00pm Central Standard Time. Limited phone support available until 9:00pm on weekdays, and from 8:00am to 12:00pm on Saturdays

Part 2 - Products

2.01 Manufacturers

2.01.1 All American Scoreboards. 401 S. Main Street, Pardeeville, WI 53954

2.01.2 _____
2.01.3 _____

2.02 Equipment: LC9186 Electronic Scoreboard

2.02.1 Description: All American Scoreboards LC9186, single sided Lacrosse scoreboard.

2.02.2 Scoreboard Design Criteria

- A. Cabinet Construction
 - 1. Fabricated 20 and 22 GA Powder Coated Galvanneal.
 - 2. Exposed digit pans with optional protective lens kits
 - 3. Nine (9) standard colors, with custom color matching available
 - 4. 9' high x 18' wide x 5" deep (2.74 m x 5.48 m x .127 m)
 - 5. Approximate Net Weight of 650lbs (294.84 kg)
- B. LED Panels
 - 1. All digits are bright red, 7-segment
 - 2. Game Time: 24" High Red Digits, Shall register 00:00-99:59
 - 3. Scores: 21" High Red Digits, Shall register 0-99
 - 4. Period: 18" High Red Digits, Shall register 0-9
 - 5. Player Number: 18" High Red Digits, Shall register 0-99
 - 6. Penalty: 18" High Red Digits, Shall register 0:00-9:59
 - 7. Goal: 3" High Red Indicators
- C. Captions
 - 1. All captions are white vinyl
 - 2. Home and Guest Captions: 10" high
 - 3. Player, Penalty, and Period Captions: 5" high
- D. Standard Equipment
 - 1. 2.4GHz Radio Control
 - 2. Auto Dim features adjust brightness of LEDs depending on ambient lighting conditions
- E. Optional Equipment
 - 1. Hardwire Junction Box
 - 2. Ad Panels
 - 3. Green, White, or Amber LEDs
- F. Optional Features
 - 1. Protective Lens Kits (PLKLC9186)

2.02.3 Console Design Criteria

- A. 9000 Series Multi-Sport Console (MSC9000)
 - 1. Console Construction: Extruded aluminum with raised molded sides
 - 2. Console Dimensions: 5" (12.7 cm) high x 10.375" (26.352 cm) wide x 9" (22.86 cm) deep
 - 3. Net weight: 4.4 lbs (1.996 kg)
 - 4. Microprocessor control with membrane keyboard
 - 5. Standard Console Features:
 - a. Internal Rechargeable Lithium-Ion Battery
 - b. Capability to control any single or multiple 9000 Series scoreboard(s), timer(s), LED Team Names and Captions, Everbrite Message Center(s) and stat panels
 - c. 2.4GHz Radio, external antenna

- d. Hardwire Output
 - e. Serial Data IO
 - f.. Easy to read large 8 Line character OLED display
 - g. Multi-sport functionality with slip sheets for membrane keypad layout
 - h. Internal battery charges using standard USB-C cable
 - i. USB updatable firmware when connected to a PC and the internet
 - j.. Full sport configuration setup through the console
 - k. LED indicators for radio operation, running clock and battery
 - l. Manually override the AutoDim features
 - m. Set Time of Day capabilities when scoreboard is Idle
6. Optional Console Features
- a. Hand-held timer pendant switch for clock stop/start
 - b. Hard-Cover Protective Carrying Case

Part 3 - Execution

3.01 Examination

- 3.01.1 Verify that the mounting structure is ready to receive the scoreboard. The I-Beams must be level and plumb, and the concrete had ample time to cure.

3.02 Installation – Scoreboard

- 3.02.1 All power wires and any control wires will be routed in conduit. Power to the scoreboard(s)/display(s) as well as any cable race-ways shall be installed as shown on the electrical plans by the Electrical contractor or architect's specifications
- 3.02.2 Mount and install the scoreboard(s) and ad-panel displays to the I-Beams in the manner described in the supplied manufacture instructions. Verify that the scoreboard is mounted plumb, level, and all fasteners are secure.
- 3.02.3 Hardware supplied to mount be drilling through the scoreboard flange and I-Beam. Pressure mount and clamping systems also available from manufacturer.
- 3.02.4 Installer to provide connection point or junction box to connect AC power.

3.03 Installation – Control

- 3.03.1 Install any ports, jacks, and/or electrical boxes in the specified locations per the project plans (Hardwire).
- 3.03.2 Confirm all control wiring is performed in accordance with manufacturer's specifications (Hardwire).
- 3.03.3 Test the operation of the scoreboard and control console. Confirm the console is able to control all scoreboard functions, digits, and indicators. Test sign from desired control room.
- 3.03.4 Leave the console(s), and any accessories with the scoreboard owner, or owner's designated representative.

End of Section 11 68 43