

## **DASHER BOARD SYSTEM SPECIFICATIONS**

### **Outdoor Wood-Faced Dasher Boards**

#### **1.0 GENERAL**

##### **1.01 SCOPE**

1.01.01 Manufacturer shall furnish and install one complete set of wood faced, steel supported dasher boards for a \_\_\_\_' x \_\_\_\_' x \_\_\_\_' radius rink as manufactured by **Roustan United Arena Solutions d/b/a Dasher Systems, Johnstown, PA.**

##### **1.02 MATERIALS**

1.02.01 All materials will be per plans and specifications and constructed, manufactured and installed per plans and specifications. All equipment and materials supplied under these specifications shall be new and of the best grade material and construction.

##### **1.03 SUBMITTALS**

1.03.01 The manufacturer shall upon receipt of contract from owner or its representative, prepare shop drawings, which will itemize sizes and materials as well as construction details for installation. The manufacturer will submit shop drawings to the owner and/or its representative for approval before fabrication of materials.

##### **1.04 DELIVERY**

1.04.01 The delivery of the product and/or installation will be arranged with the owner and/or its representative to coincide with the completion date of the project.

##### **1.05 WARRANTY**

1.05.01 Manufacturer shall warrant all equipment from all defects in materials and/or workmanship, for a period of one year from completion of installation. Any damage due to, misuse, abuse, and/or accident not caused by normal conditions shall be the responsibility of the owner.

#### **2.0 SPECIAL PROVISIONS**

##### **2.01 PROJECT DESCRIPTION**

2.01.01 The project outlined with these specifications consists of the manufacture and installation of a complete wood faced steel supported dasher board system as manufactured by **Roustan United Arena Solutions d/b/a Dasher Systems, Johnstown, PA** or approved equal.

2.01.02 The contractor shall be responsible for all necessary and related appurtenances to complete the project as described in these specifications. These specifications have been written with quality in mind. Any deviations from the following specifications found after installation will be back charged to the dasher contractor at owner's discretion of value.

## **2.02 SAMPLES**

2.02.01 All contractors bidding this project shall supply a sample panel of proposed dasher system being bid showing exactly how the system will be manufactured. Samples will show how the upper containment will be incorporated into the system, as well as samples of the gate latches and related hardware.

## **2.03 MATERIAL SUBSTITUTION**

2.03.01 In the specifications certain items are named by manufacturer, this is done for quality control. Other manufacturers of equal quality will be approved if submitted to the owner for review. Such requests must be submitted to the owner, in writing, seven (7) days before bid opening. Any such approved substitutions must be shown or noted at the time of bid. Any deviations from the specifications must be clearly indicated by the bidder. Bids offering lesser sizing or quality will not be considered. Bidders shall supply manufacturer's literature, specifications and fact sheets.

## **2.04 PROJECT COMPLETION**

2.04.01 The contractor shall commence work immediately upon receipt of a signed contract. Completion of the project shall be not later than \_\_\_\_\_.

## **3.0 PRODUCTS**

Acceptable system design shall be identical in design to:

**Roustan United Arena Solutions d/b/a Dasher Systems, 195 Jari Drive, Johnstown, PA. 15904**

### **3.01 DASHER SUPPORT FRAMEWORK**

3.01.01 The straight sections of the dasher board system shall be supported using 2-1/2" diameter schedule for 40 pipe. The supports shall be a maximum of 10'-0" on center on the sides of the rink and 5'-0" on center on the ends of the rink. The dasher supports will have two 2" x 2" x 3/16" angles welded to each side of the 2-1/2" diameter pipe to receive the wood dasher facing. These angles will be prepunched with 7/16" diameter holes properly spaced to receive the wood facing.

3.01.02 The radius corners of the dasher board system shall be supported using 2-1/2" diameter schedule for 40 pipe. The supports shall be a maximum of 5'-0" on center. The dasher supports will have two(2) - 2" x 2" x 3/16" clip angles spaced appropriately and welded to the front of the post to receive two continuous horizontal angles.

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The continuous horizontal angles shall be 2" x 2" x 3/16" and rolled to the required radius of the corners. The rolled angles shall be pre-punched to receive the wood dasher facing. The rolled angles shall be field drilled and attached to the support post clip angles using 1/4" hex head bolts and 1/4" nylon insert nuts.

3.01.03 The dasher support posts shall be set in concrete at a minimum depth of 36" below the finished grade. The augured hole shall be a minimum of 8" diameter with a minimum depth of 42" below grade.

3.01.04 The height of the dasher support posts exposed above the finished grade will be dependent on the required height of the dasher board system.

3.01.05 A special support post is required at all points of transition from the straight sections to the radius corners of the rink. These posts will be offset from the standard posts and designed to receive the rolled angles of the radius corner and the wood facing of the straight dasher board, while maintaining a flush condition on the inside face of the dasher boards.

3.01.06 An additional support post is required on both jambs of all player and access gates to provide support for the gates.

3.01.07 Additional 2" x 2" x 3/16" angles shall be installed vertically at a maximum of 3'-0" on center between the straight dasher board support posts. These angles shall be pre-punched with 7/16" diameter holes properly spaced to receive the wood facing and will be attached to the horizontal lumber with 3/8" diameter lag screws. These angles are required to align and add rigidity to the horizontal lumber.

3.01.08 All of the dasher board support framework shall be hot dip galvanized after fabrication.

3.01.09 All assembly and installation hardware shall be zinc plated.

### **3.02 WOOD DASHER FACING**

3.02.01 The wood dasher board facing on the sides and ends of the rink will be 2 x 6, 2 x 8, 2 x 10, or 2 x 12 pressure treated lumber, depending on the required height of the dasher board system. The height of the dasher board system will determine which size or combination of sizes to be used to achieve the desired height. The lumber will be mounted horizontally to the dasher support posts using 3/8" diameter carriage bolts with 3/8" nuts and lock washers.

3.02.02 The wood dasher board facing on the radius corners will be 2 x 6 tongue and groove pressure treated lumber. The lumber will be installed vertically and mounted to the two horizontal rolled angles, using 3/8" diameter carriage bolts with 3/8" nuts and lock washers. Every vertical board will have a minimum of one mounting bolt on the top and the bottom.

### 3.02 GATES

3.02.01 The access gates (4'-0" or 3'-0" wide standard) and player gates (2'-6" wide) shall be built into the straight section of the rink and shall be left or right-hand swing. The gate door shall be constructed out of the same size lumber as the straight dasher board facing and reinforced on the back side to achieve the required strength for its intended use.

3.02.02 The gate latches shall be equipped with an adjustable spring loaded bolt mechanism so that the gate may be closed and latched in a single movement. The latch shall have a machined 5/8" solid steel rod extender attached between spring mechanism and a vertical handle made of 1/2" round steel. The handle is to be made so that a player wearing hockey gloves can easily open the gate. The use of chains or cables for operating the spring mechanism is not acceptable. The latches must be a solid welded construction designed for their intended use. Latches made of cast materials are not acceptable. The use of gravity style lift bar latches is not acceptable. The catches for the spring latch shall have a stainless steel strike plate welded on the outer surface to prevent wear.

3.02.03 The gate hinges shall be, at a minimum, a 3 x 3 (6" open width) extra heavy duty stainless steel continuous hinge. The hinge will be mounted the gate and jamb lumber reinforcing with 3/8" diameter lag screws.

3.02.04 All single swing access and player gates shall have one 3/8" thick x 3-1/2" wide x 4-1/2" long door stop mounted to the gate frame.

3.02.05 The thresholds for all gates shall be the height of the bottom board of the dasher facing. This could vary depending on the height of the dasher board system and corresponding choice of lumber.

3.02.06 The equipment gate shall be a 10'-0" opening in the straight section of the dasher board system. The dasher support post will be designed with a vertical track system on the opening side of the post which will be used to slide the appropriate size lumber into the track to achieve the proper dasher board height.

#### Gate Schedule:

\_\_\_\_ 2'-6" player gates with standard spring latches

\_\_\_\_ 3'-0" Access gate(s) with standard push button spring latches

\_\_\_\_ 10'-0" Equipment gate(s)

### **3.03 UPPER CONTAINMENT**

3.03.01 The upper containment shall be a minimum of 9 gauge galvanized or vinyl coated chain link fencing. The height of the chain link shall be 3', 4', 5', 6', 7', or 8'.

3.03.02 The dasher board support posts shall extend above the top of the dasher boards to a height of 2" less than the actual height of the chain link fencing.

3.03.03 Two horizontal rails of 1-1/2" diameter schedule 10 galvanized pipe shall be installed between the dasher support posts at the top and bottom of the chain link fencing. It is recommended that a third rail be added at the midpoint on chain link heights of 5' and higher.

3.03.04 The chain link fencing will be tied to the upper framework with 6 gauge aluminum fence ties.

3.03.05 All of the open ends of the dasher board supports shall be capped.

### **3.04 OTHER MATERIAL**

3.04.01 Provide other materials, not specifically described but required for a complete and proper operational installation, as selected by the contractor subject to the approval of the owner.

### **3.05 INSTALLATION**

3.05.01 Manufacturer will construct, fabricate and deliver all materials to job site per plans and specifications. All materials will be installed to result in a complete steel frame dasher system with all dashers and spectator shielding to be straight and true to line and properly braced. Installation shall be done under the direct supervision of a factory representative at all times. The use of subcontractors without factory supervision is not acceptable.

### **3.06 EXECUTION**

3.06.01 Examine the areas and conditions under which work of this section will be performed. Correct conditions detrimental to timely and proper completion of the work. Do not proceed until unsatisfactory conditions are corrected.

3.06.02 Installation shall be in strict conformance with manufacturer requirements and instructions.

3.06.03 Erect units rigid, straight, level, plumb, and true with horizontal and vertical lines level.

3.06.04 No defective, scratched, marred or otherwise damaged equipment and materials shall be installed.

### **3.07 ADJUSTMENTS**

3.07.01 Put all items of equipment and systems through at least five complete cycles of operation, verifying that each item is properly installed and operating properly.

### **3.08 PROJECT CLEAN UP & RESTORATION**

3.08.01 The contractor shall be responsible for clean up all of construction debris (packing materials, scrap materials, etc.). The contractor is not responsible for the cleaning of the dasher board system prior to project completion.