



INLINE XTREME™ PORTABLE

ENGINEERED DASHBOARD SPECIFICATIONS

PART 1 - GENERAL

1.01 PROJECT SCOPE

- A. Contractor shall furnish and install one complete set of steel framed dashboards as indicated on the drawings and specified herein. The contractor shall be responsible for all necessary labor, materials, equipment, and services to complete the project.

1.02 SUBMITTALS

- A. The contractor shall upon receipt of contract from Owner, prepare a set of shop drawings which will itemize sizes and materials as well as construction details for installation. The manufacturer will submit drawings to the Contractor for review and submittal to the Engineer, Architect or Owner for approval prior to actual fabrication of materials.
- B. Facing samples shall be submitted for Owner approval of color and quality.

1.03 QUALITY ASSURANCE

- A. All materials shall 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 highest grade material and construction.
- B. Approved dashboard systems, manufacturers and installers:
 - 1. **INLINE XTREME™** portable dashboard system identical in design to Rink Systems, Inc., Albert Lea, Minnesota.
- C. To receive approval prior to bid, dashboard contractors must:
 - 1. Provide evidence of at least five (5) installations similar in construction to the following specifications, each with a minimum of three (3) years operating experience prior to the bidding date. A list of these installations including names, addresses, contacts, and telephone numbers is to be included with requests for prior approval.
 - 2. Manufacturers wishing to obtain prior approval shall have a factory representative perform a site visit.

3. Submit a sample panel of proposed dashboard system being bid showing exactly how the system will be manufactured. Samples shall show how shield mounting hardware will be attached to system, as well as samples of gate latches, hinges, and related hardware.
4. Submit dasher shop drawings detailing systems design. Drawings must be prepared and approved by a licensed professional engineer.
5. Approval must be obtained at least 10 days prior to the bid date.

D. Bids received from contractors without prior approval will be returned unopened.

1.04 GUARANTEE

- A. Manufacturer shall warranty all equipment provided under this project against all defects in materials and/or workmanship for a period of two years from the date of completed installation.

1.05 DELIVERY

- A. To be arranged to coordinate with completion date of the project. Delivery date shall allow for sufficient installation time prior to project completion date.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURER/TYPE

- A. As noted in 1.03 B above.

2.02 MATERIALS AND EQUIPMENT

A. Demountable Frame Sections:

1. Dasher panels shall be fabricated in demountable sections of nominal 8' lengths. The design of all panels, whether straight sections, curved sections, or sections in which a gate is located shall be fundamentally similar.
2. Each section shall be made of two horizontal 2" x 1" x 14 ga. steel rectangular tubes used at the top and base locations.
3. An additional 2" x 1" x 14 ga. steel rectangular tube shall be used vertically in the center on any panel over 48" long.
4. All horizontal tubes shall be welded to end plates on each end of the panel. The end plates shall be made of a 2" x 1-1/2" x 3/16" steel angle.

5. Each end plate shall have two 1-7/8" o.d. x 14 ga. steel round loops to accommodate a 1-5/8" post to inter-connect the panels. The necessity of using through bolts to fasten the panels shall be unacceptable.
6. Each panel is to be a complete welded construction. After construction of the framing, each panel shall be powder coated or hot dip galvanized.
7. A 1-5/8" o.d. round galvanized fence post shall be provided at each endplate to interconnect the panels and erect the dasherboard system without the need for tools or nuts and bolts.
8. A footplate, specifically designed for the intended installation shall also be attached by this 1-5/8" post, without threaded fasteners.
9. Standard size of dasher panel frame shall be 96" long x 41" high x 2" thick.

C. Dasher Facing (outdoor):

1. Dasherboard cladding shall be Rinkmaster Outboard™ FRP facing.
2. The facing shall be constructed of 1/2" exterior grade plywood with .090 Fiberglass Reinforced Plastic (FRP) laminated to the play side and .030 poly laminated to the frame side.
3. FRP on both sides of the plywood panel shall be factory laminated, color white, texture smooth.
4. All edges of plywood panels shall be painted with two (2) coats of white porch and deck alkyd enamel paint with mildewcide additive. All exposed edges of gates and gate openings shall be fitted with an extruded edge cap moulding.
5. Facing panels shall be one piece and cut to match length of demountable framing sections.
6. The facing material shall be attached to the horizontal and vertical frame members with 1/4" stainless steel phillips flat head tek screws. Spacing of fasteners shall not exceed 10" on center. All exposed fastener heads shall be painted to match facing color.

D. Dasher Facing (indoor):

1. Dasherboard cladding shall be 3/8" white high density polyethylene.
2. Facing panels shall be one piece and cut to match length of demountable framing sections.

3. The facing material shall be attached to the horizontal and vertical frame members with 1/4" flat head machine screws. Spacing of fasteners shall not exceed 10" on center.

E. Access and Players' Gates:

1. Access gates shall be 3'-0" wide in quantity as specified in the drawings.
2. Players' gates shall be 2'-6" wide in quantity as specified in the drawings.
3. Gates shall be built into 8' dasher panels and shall be left or right hand swing as specified in the drawings.
4. Gate panels shall be constructed of the same materials and methods as the demountable frame panels.
5. The single bar gate latch mechanism shall be designed so the gate can be closed and latched in a single movement. The gate handle shall be designed so players wearing hockey gloves can easily open the gates. Latches shall be of solid welded steel construction. Spring loaded bolt latches shall be unacceptable.
6. Hinges for all gates shall be of steel construction and bolted to the frame for easy maintenance, two per gate door. Hinges shall have 1/2" diameter pins and grease fittings for lubrication purposes. Piano style hinges or hinges welded to the frame shall be unacceptable.
7. All single swing access and player gates shall have 3/8" x 3-1/2" x 3" door stops welded to the frame gate. All gate with shielding shall be equipped with push button releases located on the caprail on the ice side of the shielding. Latches shall be designed so players wearing hockey gloves can easily open the gates.
8. Gates with shielding shall be made to accept shield mounting hardware.
9. Thresholds for all gates shall be 8-1/2" above floor level.

F. Hardware:

1. All steel hardware used during the construction or installation of the system shall be hot dip galvanized or stainless steel for rust resistance.
2. Hardware shall include hinges, latches, nuts, bolts, washers, and miscellaneous fastening devices necessary to complete installation.

G. Thresholds:

1. Access and players' gates shall have 1/2" thick high molecular weight polyethylene, replaceable thresholds.

2.03 OPTIONS

A. Caprail:

1. The caprail shall be constructed of 1/2" (3/4" thick optional) high density polyethylene.
2. The caprail shall be attached to the front horizontal frame members with 1/4" Phillips flat head type "F" thread forming screws. Spacing of fasteners shall not exceed 24" on center. All exposed fastener heads shall be painted to match caprail color.
3. The caprail shall have smooth and radiused edges on the front and back edges.
4. Caprail to be (red) (dark blue) in color.

B. Kickplate:

1. Kickplate shall be constructed of 1/4" thick (1/2" thick optional), 8" high, high density polyethylene, and shall surround the entire rink.
2. The top edge of the kickplate shall be beveled.
3. The kickplate shall be attached to the bottom of the dasher panel with 1/4" Phillips flat head machine screws, and flanged lock nuts where possible. All fastener heads used to attach kickplate to dasher panels shall be painted to match the kickplate color.
4. Kickplate shall be (yellow) (light blue) in color.

D. Netting:

1. Spectator protective netting shall be nylon, 1-3/4" mesh, 420 lb. break strength. Grommets shall be located every 48" on top and sides and at each shielding support location at tie bottom edge.
2. Netting shall be supported by 1-5/8" galvanized steel posts. These shall be securely held in place with the appropriate hardware.
2. Height of spectator shielding shall be 5' above the dasher caprail at the ends and corners radii of the rink.
3. Height of spectator shielding shall be 3' above the dasher caprail at the sides of the rink.

E. Acrylic Spectator Shielding:

1. Spectator shielding shall be cell cast acrylic sheeting identical to Cyros GP Acrylite acrylic sheets. All acrylic sheets shall be no less than .470" thick, clear and colorless. Acrylic shielding shall have top corners chamfered and the two ends and top edges beveled.
2. All shielding shall be 48" wide except those at gates, or similar openings in the dasherboards.
3. Height of spectator shielding shall be 5' above the dasher caprail at the ends and corner radii of the rink.
4. Height of spectator shielding shall be 3' above the dasher caprail at the sides of the rink.
5. All spectator shielding shall be mounted in aluminum support posts.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Manufacturer shall construct, fabricate and deliver all materials to the job site per plans and specifications under the direct supervision of a licensed professional engineer. All materials shall be installed to result in a complete steel frame dasher system with all boards and shielding to be straight and true in line and properly braced. All installation work shall be completed by a factory installation crew
- B. Installation shall be in strict conformance with manufactures requirements and instructions. Erect units rigid, straight, level, plumb, and true with horizontal and vertical lines level, and securely anchored in place. Whether shown on the drawings or not, this contractor shall provide all accessory materials for a complete, finished installation. No defective, scratches, marred or otherwise equipment and materials shall be installed.
- C. Put all items of equipment and systems through at least five complete cycles of operation, verifying that each item is properly installed and properly operating, and making required adjustments to achieve optimum operation.

3.03 CLEANING

- A. Clean all surfaces removing all evidence of dirt, packaging materials and protective wrappings.
- B. Replace all damaged materials including scratched glass.

END OF SECTION