



## MODEL: LCD/3 RACK MOUNT CONSOLES

### 1) GENERAL DESCRIPTION

#### 1.1 CONSOLE FEATURES

- Ergonomic design for user comfort
- Single-tier low profile with two or three-tier height options available
- Black powder-coat textured finish
- Flat packed, pre-assembled or installed at job site options
- Concave, convex or in-line configurations
- Standard steel side and top panels
- Custom laminated side and top panels available
- Locking rear doors with thumbturn latches or keylocks
- Designed for LCD flat screens with optional mounting system for CRT monitors

### 2) GENERAL DESCRIPTION

- 2.1** The system shall be comprised of floor mounted base module below the work surface with a minimum of 14" (8U) rack space per module. Top 21" (12U) slope modules or LCD monitor pivot mounts above the work surface, assembled together to form an operator work station. Two removable rear panels with 1/2", 3/4", 1", and 1-1/2" NEMA custom knockouts and a open base for power and cabling.
- 2.2** The system shall have a minimum 1-1/8" (29mm) thick MDF core with PVC covering the entire substraight to create a TruForm work surface. The work surface shall be not less than 15" (381mm) deep overall and shall have a 1-3/4" (44mm) beveled edge along the entire front width.
- 2.3** Module top compartment shall allow for a minimum slope of 33° away from the operator for all electronics placed above 19-3/4" (502mm). The sloping module shall accommodate LCD or CRT monitors in a 21" (12U) maximum rack height.
- 2.4** Add-on-top modules shall allow for a vertical or a tilt of 27° towards the user of all electronics placed above 38-1/4" (972mm) height from floor level.
- 2.5** Top modules shall be provided with removable equipment finishing masks, where required, and cut to the face size of the specified electronics.

### 3) STANDARDS

- 3.1** The system shall comply with Electronic Industry Association (E.I.A.) specifications for rack mounting ANSI/EIA standard RS-310

### 4) DRAWINGS

- 4.1** The contractor shall supply five sets of scaled drawings for each console assembly showing the location of all the specified electronics in isometric view in addition to a plan (top), side and front views.
- 4.2** The specifications of sizes and dimensions shown in the drawings shall have a tolerance of not more than +/- 0.062" (1.6mm).

### 5) MODULAR PRE-ENGINEERED CONSTRUCTION

All components within the system shall be:

- 5.1** Of a pre-engineered modular construction, i.e: constructed from a series of independent sectional compartments.
- 5.2** Available from a pre-defined set of manufacturers model numbers. In common production for at least two years prior to the date of submission.
- 5.3** Free from alterations to the design either prior to or following installation, and which can be assembled without the need for either welding or carpentry work.
- 5.4** Capable of cables or conduits passing through the entire width and height of the system without obstruction.
- 5.5** Of modules constructed of a steel superstructure framework with external attachable side panels in steel or wood.

### 6) SELF SUPPORTING SKELETON FRAMEWORK

The self supporting skeleton framework shall:

- 6.1** Be installed onto the site in advance of any external finishing panels. The framework shall be fully capable of supporting all specified electronics without the need for attachment of any external panels.

# ARCHITECT AND ENGINEER SPECIFICATIONS

## 6) SELF SUPPORTING SKELETON FRAMEWORK (CONT.)

- 6.2 Be supplied with four sets of standard E.I.A. rack rails per module measured in standard rack unit (U) with stamped rack increment sizes i.e: inner rack rails and outer rack rails, in pairs, one pair of each type mounted at the front and rear of each modular section.
- 6.3 Include individual modular frame sections that are pre-welded before delivery to site and constructed of 14, 16 and 18 gauge\* (.074", .059", .047") sheet metal.
- 6.4 Be capable of assembly on the job site without welding or carpentry work.

## 7) BASE MODULE

- 7.1 Base Module to be capable of supporting fully loaded top module cabinets with a maximum loading of 1000 lbs (455 kg) per module.
- 7.2 A central through cable way shall be provided within each base module to allow access from under a raised floor into the enclosed console or a vertical rack assembly.
- 7.3 Each base module shall include adjustable levelers providing for an adjustment of +/- 0.750" (19mm) per leveler, fitted to the base module and/or together with heavy duty 2-1/2" (64mm) plate casters (four each per base module).
- 7.4 An 18 (.047") gauge stainless steel anti-tip / foot rest shall be available and attach to the front section of base module.
- 7.5 All hardware necessary for assembly shall be provided.

## 8) STEEL EXTERIOR FINISHING PANELS

- 8.1 Exterior steel finishing panels shall be a minimum of 20 gauge (.035) sheet metal and attached to the self supporting superstructure framework. All fastening to be unseen from external view.
- 8.2 Side and top finishing panels shall be either slide on, lift off or bolt on type to facilitate ease of access for servicing and shall not require any further mechanical support to provide a secure connection to the system.

- 8.3 Steel or wood finishing panels may be applied following final termination test and commissioning of the specified electronics or earlier as directed, to facilitate a timely and efficient installation and to minimize potential damage to the exterior of the system by others.

## 9) FINISH AND COLOR

- 9.1 All exterior and frame steel components including drawers, blank panels and shelving shall have a pre-finish of zinc oxide wash primer with a baked black powder coat paint finish of the following specifications.
- 9.2 Self supporting frames and work surface supports are to be supplied in the following color: HBT4-20007 Black.
- 9.3 Side, top, and rear panels, drawers, shelving, and blank filler panels are to be in the following color: HBT4-20007 Black.
- 9.4 All wooden components are to be supplied with a high pressure laminate or PVC film covering the MDF core.

## 10) OPTIONAL ACCESSORIES

- 10.1 A full range of additional fittings shall be available including detailed isometric scaled drawings of each item from standard stock model numbers including:
- 10.2 Blank panels, vented panels (1U, 2U, 5U and 7U), sliding drawers, (2U, 3U, 5U and 6U) rack mount universal stationary shelves, sliding pullout shelves, plexiglas and solid steel doors, plate casters, and sliding pullout computer keyboard shelving.

## 11) MOUNTING HARDWARE

- 11.1 Mounting hardware for the specified electronics shall be available upon request. Panel bolts, washers, and clips with captive nuts to be suitable for use with E.I.A. standard punched rack rails.
- 11.2 Slide kits, where appropriate (including drawers) shall be of ball bearing operation. Friction or roller type slides are not acceptable.
- 11.2 Slide kits, where appropriate (including drawers) shall be of ball bearing operation. Friction or roller type slides are not acceptable.

# ARCHITECT AND ENGINEER SPECIFICATIONS

## MODEL: LCD/3 RACK MOUNT CONSOLES (CONT.)

### 12) INSTRUCTIONS

**12.1** Fully detailed assembly instructions in the English language shall be supplied with both written and pictorial descriptions for each item/model numbered component.

### 13) PACKAGING

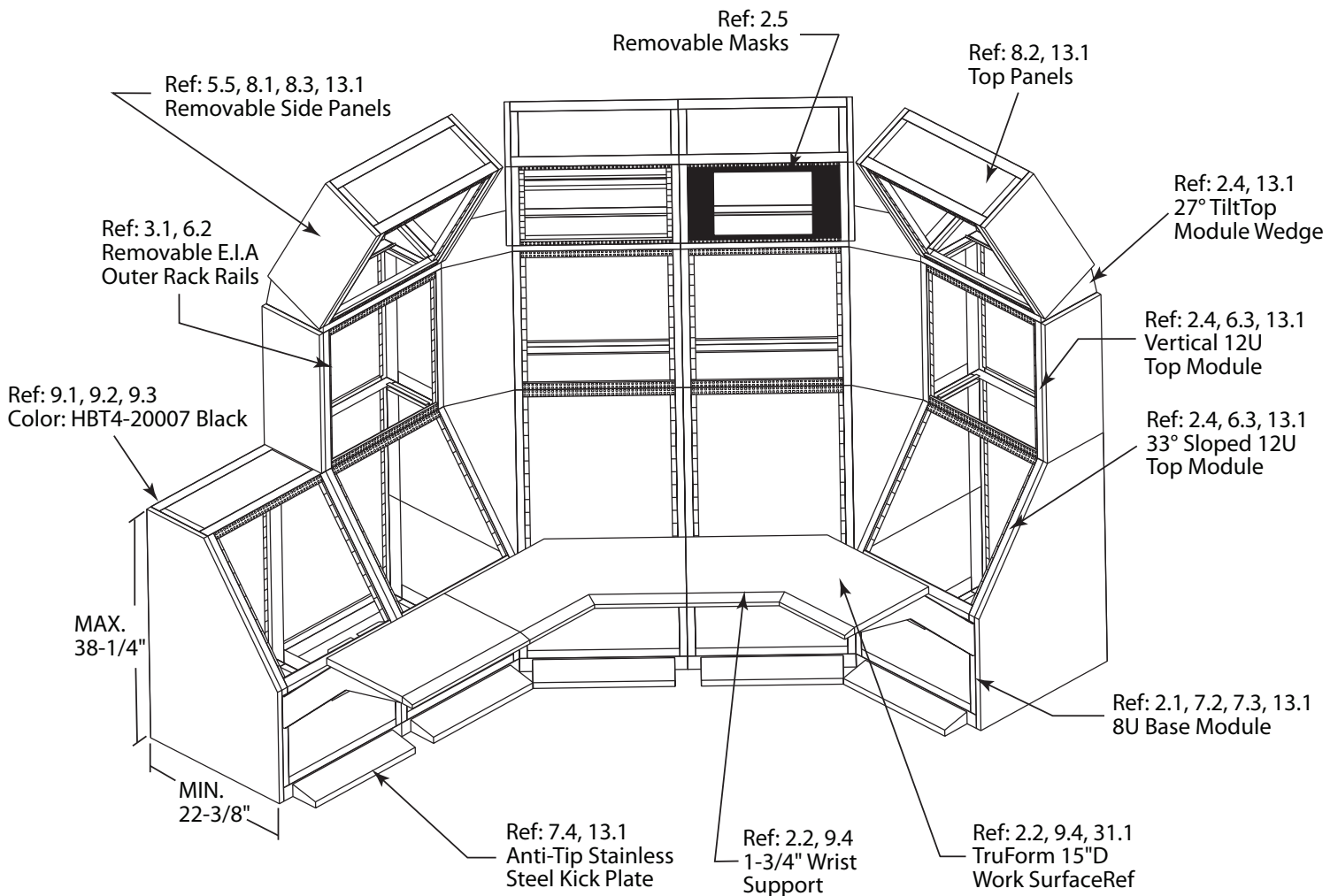
**13.1** Each component part number shall be independently marked and packed into double or triple ply corrugated outer cartons and shall be suitable for storage and shipping to site without damage.

### 14) WARRANTY

#### 14.1

- A LIFETIME WARRANTY on all fixed steel structure frame components.
- A 10 year warranty on adjustable, sliding or hinged components and laminated & Marmoleum surfaces.
- A 5 year warranty on Endurance Plus and TruForm surfaces.
- A 2 year warranty on all electrical components and chairs.

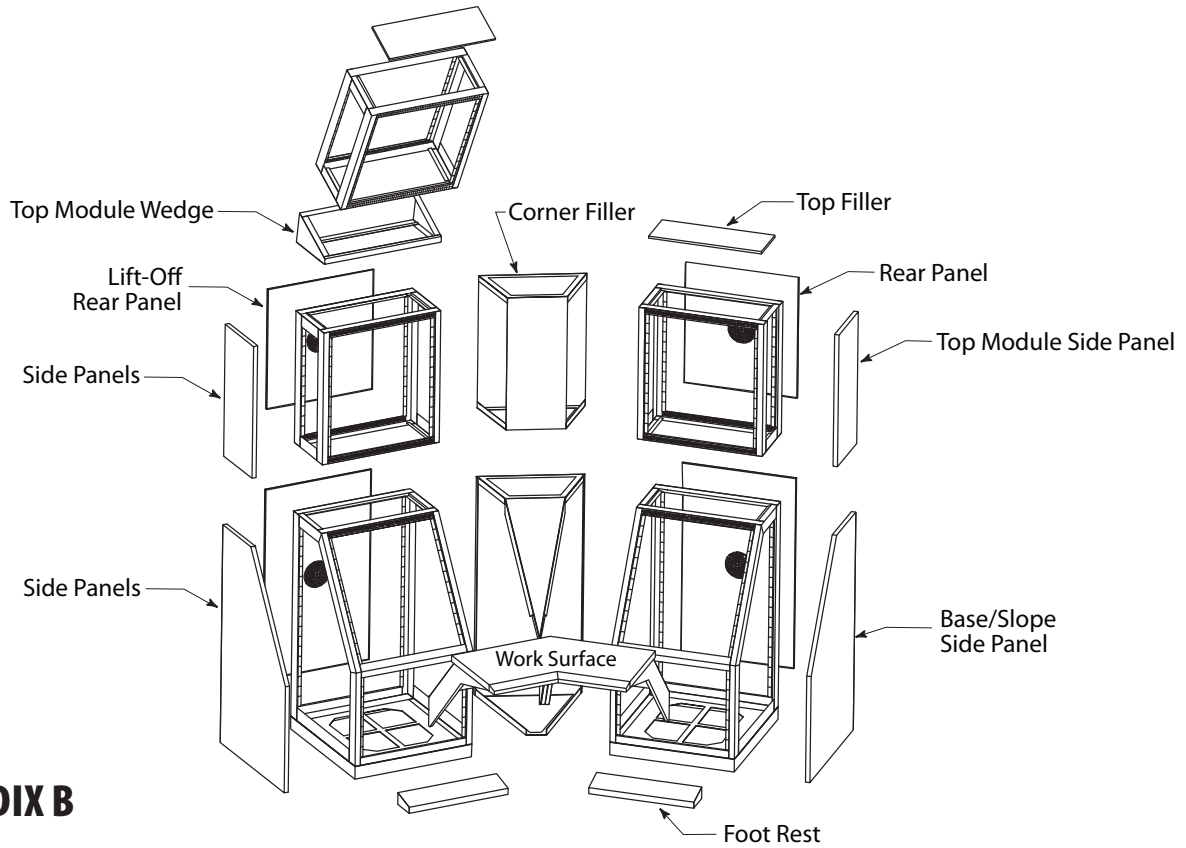
\*American Standard Wire Gauge (ASWG).



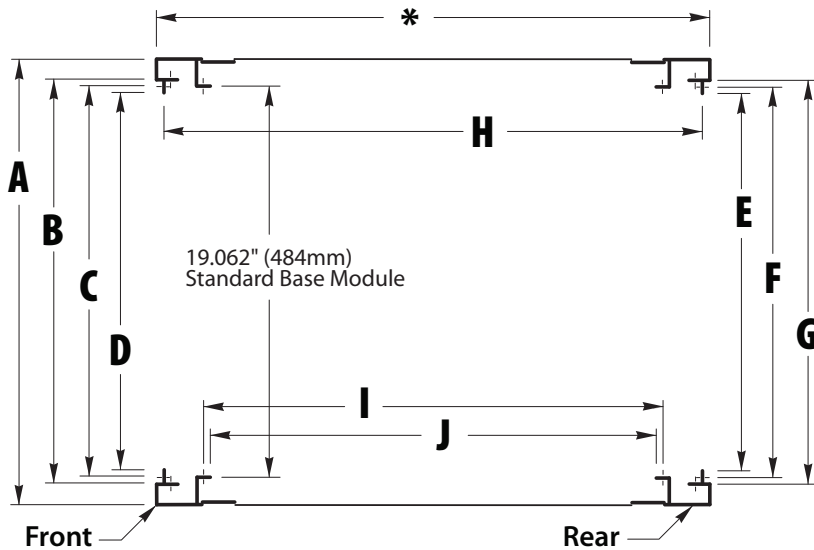
## APPENDIX A

# ARCHITECT AND ENGINEER SPECIFICATIONS

## MODEL: LCD/3 RACK MOUNT CONSOLES (CONT.)



### APPENDIX B



DESIGN DETAILS	
STANDARD RACK	
<b>A</b>	21.062", 535mm
<b>B</b>	19.062", 484mm
<b>C</b>	18.312", 465mm
<b>D</b>	17.875", 454mm
<b>E</b>	17.875", 454mm
<b>F</b>	18.312", 465mm
<b>G</b>	19.062", 484mm

### APPENDIX C

DESIGN DETAILS			
FRAME DEPTH	<b>B</b>	<b>C</b>	<b>D</b>
10", 254mm	9.312", 237mm	5.431", 138mm	5", 127mm
22.625", 575mm	21", 533mm	18", 457mm	17.562", 446mm