

# Winsted Corporation

## WELS - Design Specification Sheet

Date: 12/2/2014  
Customer: VA Tech  
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### DESIGN OVERVIEW

Your WELS console design consists of:

<b>System 1</b>	<b>Sight-Line Consoles: 3 Chases</b>
<b>System 2</b>	<b>Sight-Line Consoles: 3 Chases with 2 Corners</b>
<b>System 3</b>	<b>Sight-Line Consoles: 3 Chases with 2 Corners</b>
<b>System 4</b>	<b>M-View Stock Monitor Wall: 1 Wall</b>
<b>System 5</b>	<b>M-View Stock Monitor Wall: 1 Wall</b>
<b>System 6</b>	<b>M-View Stock Monitor Wall: 1 Wall</b>
<b>System 7</b>	<b>M-View Stock Monitor Wall: 1 Wall</b>

### 1. GENERAL DESCRIPTION

#### A. M-View Monitor Wall

1. The contractor shall supply a modular monitor wall capable of supporting the specified monitors.
2. The system shall be comprised of exterior frames and interior supports fabricated from lightweight, high-strength extruded "T-slotted" aluminum with black anodized finish.
3. The system shall also feature the necessary pivot and/or tilt mounts required to support and/or adjust the specified monitors.

#### B. Sight-Line Consoles

1. The contractor shall supply a system capable of supporting specified electronics.
2. The system shall be comprised of end frames and/or intermediate frames with horizontal stringers and decorative end panels. The system will also feature a hinged dual-channel duct cover with integrated aluminum Versa-Trak mounting system for LCD monitor arrays.
3. The system shall have a minimum 1-1/8" (29mm) thick MDF core PVC work surface. The work surface shall be not less than 20" (508mm) deep overall and may include a 1-3/4" (44mm) deep beveled edge covering the work surface's entire front width.

### 2. STANDARDS

#### A. M-View Monitor Wall

1. The system's exterior frame and internal support frames shall deliver a Rockwell hardness rating of approximately E-88.
2. All system extrusions shall conform to DIN 17 615 specifications.

## **B. Sight-Line Consoles**

1. Optional 7" (4U) rack mount turrets, 10-1/2" (6U) rack mount turrets, 19-1/4" (11U) rack mount turrets and tapped rack rails for lower storage compartment shall comply with Electronic Industry Association (EIA) specifications for rack mounting ANSI/EIA standard RS-310.

## **3. DRAWINGS**

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

## **4. MODULAR PRE-ENGINEERED CONSTRUCTION**

### **A. M-View Monitor Wall**

1. All components within the system shall be:
  - a. Of a pre-engineered modular construction, i.e.: constructed from a series of independent sectional compartments.
  - b. Available from a pre-defined set of manufacturers model numbers.
  - c. Free from alterations to the design either prior to or following installation, will be accomplished without the need for either welding or carpentry work.
  - d. Exterior frames and internal supports shall be constructed of anodized aluminum.

### **B. Sight-Line Consoles**

1. All components within the system shall be:
  - a. Of a pre-engineered modular construction, i.e.: constructed from a series of independent sectional compartments.
  - b. Available from a pre-defined set of manufacturers model numbers.
  - c. Free from alterations to the design either prior to or following installation. The assembly of the console shall be accomplished without the need for either welding or carpentry work.
  - d. Constructed of a steel superstructure framework consisting of intermediate and end frames connected by horizontal stringers. External decorative side panels are available in Marmoleum, Truform or laminated MDF core.

## **5. SELF-SUPPORTING SKELETON FRAMEWORK**

### **A. M-View Monitor Wall**

1. The self-supporting skeleton framework shall:
  - a. Consist of exterior frames (1-1/2" x 3") and interior supports (1-1/2" x 1-1/2") constructed of black anodized 6105-T5 extruded aluminum.
  - b. Have a minimum Yield strength of 35,000 lbs./sq. in.
  - c. Have a minimum Tensile strength of 38,000 lbs./sq. in.
  - d. Have a Twist per foot not to exceed 0.25 degrees and a total Twist over 20 feet not to exceed 1.5 degrees.
  - e. Have a Flatness of 0.004 per inch of width.
  - f. Have a Straightness of 0.0125" per foot of length, not to exceed 0.120" over 20 feet of length.

## **B. Sight-Line Consoles**

1. The self-supporting skeleton framework shall:
  - a. Be installed at 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.
  - b. Be capable of being supplied to site in knockdown (flat packed) form and be capable of assembly using 10-32 bolts and Insta-Lock fastening system without welding or carpentry work.
  - c. Include front and rear horizontal stringers constructed of 12 gauge (.104") formed sheet metal. Stringers will connect, and span, 14 gauge (.074") end frames and/or intermediate frames to form a complete structure.

## **6. FINISH AND COLOR**

### **A. M-View Monitor Wall**

1. All exterior frames and interior supports shall feature a smooth black anodized finish.

### **B. Sight-Line Consoles**

1. All exterior and frame steel components including doors, rack turrets, duct covers, and shelving shall be zinc oxide wash primer with a black powder-coat textured finish.

## **7. OPTIONAL ACCESSORIES**

### **A. M-View Monitor Wall**

1. A full range of optional accessories shall be available, such as multi-outlet power strips, wire ducts, CPU cabinet with locking door, and custom laminate filler panels.

### **B. Sight-Line Consoles**

1. A full range of optional console accessories shall be available, such as exhaust fans, personal environmental controls, height-adjustable work surfaces, electrical boxes, CPU shelves, file storage bins, rolling file cabinets, rack mount turrets, monitor mounts, seating, custom work surfaces and end panels with optional customer logos, and LED task lighting with a VESA mount or magnetic base.

## **8. MOUNTING HARDWARE**

### **A. M-View Monitor Wall**

1. All hardware needed for monitor wall assembly and monitor mounts will be provided.

### **B. Sight-Line Consoles**

1. Mounting hardware for the specified electronics shall be available upon request. All hardware needed for assembly will be provided.

## 9. INSTRUCTIONS

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

## 10. PACKAGING

- A. 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.

## 11. WARRANTY

- A. A lifetime warranty on all fixed steel structure frame components.
- B. A ten year warranty on adjustable, sliding or hinged components as well as Corian, Comfort Edge, Laminated and Marmoleum surfaces.
- C. A five year warranty on Truform and Endurance Edge surfaces.
- D. A two year warranty on all electrical components and chairs.

## 12. COMPONENTS

### A. Sight-Line Consoles

1. Intermediate and End Frames shall be 14-gauge (.074") steel, be at least 1-5/8" (41mm) in width, and be capable of supporting the fully loaded console. Intermediate and End Frame shall incorporate 3/8" (10mm) diameter threaded adjustable glides and 2" (51mm) vertical slots for mounting two and four gang electrical boxes. End Frame shall feature an anti-tip extension. Intermediate Frame shall feature four grommet holes.
2. Horizontal Stringers shall be 12-gauge (.104") formed sheet metal with an Insta-Lock fastening system, be 2" (51mm) high, and be available in 24" (609mm), 48" (1218mm), and 72" (1827mm) widths.
3. Bottom Shelf shall be 16-gauge (.060") stationary steel, and extend 17-5/8" (447mm) from the front of console to the rear of the console. Shelf features four grommet holes, and has a load capacity of 200 pounds.
4. Lower Doors shall be vented double-panel offset face design with spring hinges for easy removal without the use of tools, be supplied with a locking keyed-alike lever latch, feature integrated cable management, and be able to accept an optional CPU shelf or file/storage bin for convenient swing-out access.
5. Corners shall be 12 gauge (.104") steel fillers available in 15, 45, and 90 degree versions, and feature an Insta-Lock fastening system for ease of installation. Corners shall be available in concave and convex configurations.
6. Data/Power Rail shall be 14-gauge (.074") steel, and include cable grommets and openings for a universal data mounting plate and/or duplex power box. Data/Power Rail shall incorporate the Insta-Lock fastening system, and when combined with 14 gauge (.074") shelf brackets, will support the work surface.
7. Versa-Trak shall be a fully-integrated black anodized aluminum track system running the entire length of the console system. The track shall be mounted flush to the console framework in the ergonomically-lowered rear of the console to create a see-over height of not more than 28". The track shall be capable of supporting a wide variety of monitor arrays while providing for simple horizontal adjustment. System shall be constructed of extruded 6105-T5 aluminum with a T-slot profile. Monitor array support posts shall be available in 15" (381mm), 28-1/2" (723mm), and 42" (1066mm) heights. Support posts shall be 1.9" (48mm) in diameter with a wall thickness of .110" (2.8mm). Monitor posts shall mount to the track with ball spring drop-in T-nuts.

8. Cable Management shall be directly adjacent to the Versa-Trak mounting system and be covered by a hinged two-panel 18-gauge (.047") steel cover that, when closed, leaves a 1" opening the length of the console for cable entry. Opening is unseen from the front of the console. The cable management system shall run the entire length of the console and contains a dual-raceway consisting of a 4" channel and a 2" channel which separate signal and power cables.
9. Work Surface shall be constructed of Marmoleum, Truform Endurance Edge, or Comfort Edge and have a minimum 1-1/8" (29mm) thick MDF core. Work surface shall be not less than 20" (508mm) deep overall, and may include a 1-3/4" (44mm) deep beveled edge covering the entire front width of the work surface. Work surface supports shall mount to the front of the base cabinet via a keyhole locking system spread evenly along the entire length of the console.
10. Lift-Off Back Panel A 16 gauge (0.60") vented lift-off back panel with integrated latch shall be available as an alternative to the lower doors.

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