

Flatwall Headwall System (P670E)

TECHNICAL DATA SHEET

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Figure 1. Flatwall Headwall System (P670E)



General

The Flatwall Headwall System (P670E) shall be UL-Listed for the United States (KEZR and KEXS) and Canada (KEZR7 and KEXS7) by Underwriters Laboratories Inc.®¹. These products shall additionally comply with the seismic requirements for the State of California (OSHPD).

Responsibilities under this section of specifications shall include furnishing the Flatwall Headwall System (P670E) and related equipment as shown on shop drawings. The headwall system shall be made to these specifications and conform to details shown on shop drawings.

The Flatwall Headwall System (P670E) manufacturer may coordinate with the architects and manufacturers

of the equipment not supplied by the headwall manufacturer to ensure compatibility with the equipment.

The mechanical contractor shall provide primary services and make connections to the appropriate installed mechanical equipment of the Flatwall Headwall System (P670E) as shown on plans and as herein specified.

The contractor shall install the Flatwall Headwall System (P670E) and related equipment, wiring, and conduit and make necessary connections as shown on the plans and as herein specified.

The recommendation of the National Fire Protection Association (NFPA®²), the National Electrical Code®³ (NEC®⁴) for the United States (CAN/CSA-C22.1 and CAN/CSA-C22.2 No. 0 for Canada), NFPA®-99 (CAN/CSA-Z305.1 and Z318.6 for Canada), as well as state and local codes that apply to product installations - shall be adhered to in all respects. The installing contractor shall be responsible for compliance with all local, state, and federal codes applicable to this installation. After installation, equipment shall be examined and tested by the installing contractor to assure compliance with the above codes and to determine that the assembly has been installed correctly and is functioning properly.

The manufacturer shall examine and test each unit for compliance with specification requirements.

Follow the installation instructions in manual IS747. (In seismic code area, contact WittRock® for additional information concerning all preparation).

Submittals and Verifications

Shop drawings shall be submitted in accordance with supplemental, general, and special conditions of specifications and contract documents.

The Flatwall Headwall System (P670E) manufacturer shall submit within 30 days of contract award complete detailed shop drawings showing items in

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plan and elevation. Drawings shall show dimensions and interface to related services, which require cutting or close fitting.

Manufacturing fabrication shall not be started until complete final approvals are received.

The Flatwall Headwall System (P670E) manufacturer shall provide physical samples only if specifically required, and the cost of same has been negotiated.

The color of HPL shall be selected by the architect or customer from the manufacturer's standard line. The manufacturer shall submit color charts.

The manufacturer reserves the right to furnish the Flatwall Headwall System (P670E) and its related components with improvements in design and/or materials at the time of manufacturing.

Product Description

Flatwall Headwall System (P670E) is available with the following dimensions:

- Panel Widths
 - 19 3/8" (49.21 cm)
 - 28 3/8" (72.07 cm)
 - 37 3/8" (94.93 cm)
- Module Depth
 - 5" (12.70 cm) at the accessory track.
 - 4 1/2" (11.43 cm) in the center.
- Headwall System Length—84" (213.36 cm), 90" (228.60 cm), and 96" (243.84 cm) for ceiling heights of 8' 0" (243.84 cm), 8' 6" (259.08 cm) and 9' 0" (274.32 cm) - provides 12" (30.48 cm) between the bottom of the module and the floor.

NOTE:

As ceiling height varies from 8' 0" (243.84 cm) or 8' 6" (259.08 cm), or 9' 0" (274.32 cm) distance between the bottom of the unit and the floor will vary.

- Maximum Weight (less accessories)
 - 19" (48.26 cm) headwall - 110 lb (49.90 kg)
 - 28" (71.12 cm) headwall - 150 lb (68.04 kg)
 - 37" (93.98 cm) headwall - 190 lb (86.18 kg)

Materials and Construction

Headwall Module Frame Members—Shall be constructed of heat treated aluminum alloy extrusion. Exposed aluminum surfaces shall be clear anodized. The lower interior and sides of the wall unit shall be a completely enclosed electrical raceway, covered front and back with steel panels, and on the ends with heat treated aluminum extrusions.

Front Service Panels—Shall be constructed of steel with a HPL face. The service panels shall be held in place with aluminum trim extrusions. When the vertical trim extrusion is removed, the panels shall be removable by sliding them out for ease of access and maintenance.

Horizontal Component Supports—Shall be made of 16 ga steel sheet formed to provide impact strength.

Vertical Component Supports—Shall be made of heat treated aluminum alloy extrusion, and shall be punched on 6" (15.24 cm) centers to accept equipment for single-gang devices per job requirements. The support accepts a slide-in cover.

Slide-In Covers—Shall be constructed of steel panels with a HPL face and designed to fit into horizontal or vertical members.

Device Cover Plate—Shall be made of formed aluminum, finished with clear anodize. Plates shall cover devices or empty gang openings.

Main Junction Box—Each module with electrical equipment shall contain a junction box at top of the Flatwall Headwall System (P670E) for connection of the incoming electrical services. The junction box is barriered into three compartments: electrical, communications (low voltage), and *critical branch power, as required. Pre-installed electrical equipment shall be wired to the junction box.

Medical Gas/Vacuum Outlets—The Flatwall Headwall System (P670E) manufacturer shall furnish the medical gas/vacuum outlet assembly, complete with valves and faceplates, in locations shown on the shop drawing. The medical gas/vacuum outlets are compliant with NFPA®¹-99 requirements

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(CAN/CSA-Z305.1 for Canada). The mechanical contractor shall provide all facility service connections to the product, as well as performance and certification pressure testing in accordance with NFPA®-99 requirements (CAN/CSA-Z305.1 and Z318.6 for Canada).

(Optional) Vacuum Bottle Slide—Shall be a 4" (10.16 cm), one-piece extruded aluminum device with a clear anodize finish and a stop located at the bottom. The slide shall accept a 1 3/4" wide x 1/8" thick (4.45 cm wide x 1.59 cm thick) vacuum bottle bracket. The slides shall be installed as shown on drawings.

(Optional) Vacuum Bottle Storage—Shall provide space for two, three, or four fluid collection bottles. The storage consists of a protective bumper with wire formed baskets mounted to the accessory track of the unit. The bumper shall be constructed of formed steel with a rubber protective bumper protecting unit and collection bottle from damage by bed and other secondary equipment. Installation of bumpers into accessory track shall be by installing contractor.

Grounding and Bonding—Shall have a ground bar located in the junction box. The ground bar shall be constructed of copper with compression screws, which shall accept 4 AWG or smaller building service ground wire. The power receptacles shall have a separate ground conductor attached to the ground screw of the receptacle. The ground conductors shall be stranded copper wire with green colored insulation. The ground conductors shall be terminated with machine applied compression fittings. The ground bar within the structure for the ground wire tie point shall ensure the grounding of the structure. There shall be a ground conductor of 8 AWG or larger between the ground bar and the ground wire tie point and the structure shall not be used as the sole ground path between power receptacles and ground bar.

Electrical Wiring—Wire for standard power, *critical branch power, and lighting circuits shall be stranded copper and color-coded in accordance with wiring diagram.

Optional Equipment and Devices

The following optional equipment and devices are available on the Flatwall Headwall System (P670E):

- Blank Provisions
- Chart Light
- Night Light
- Sphygmomanometer
- Electrical Receptacles
 - Single and Duplex
 - Tamper-Resistant
 - Locking
 - Isolated Ground
- Grounding Receptacles
- SPST and 3-Way Switches
- Telephone Provision
- Code Blue Emergency Call Button
- Nurse Call Station
- STAT Clock/Timer (P964 and (P967) Provisions
- Dimmer Switch
- Timed Light Switch
- SideCom®¹ Bed Interface
 - Low Voltage Light Switching
- Circuit Breakers
- Isolation Power Components
 - Remote Isolation Transformer
 - Line Isolation Monitor
 - Circuit Breakers
- Monitor Equipment Provision
- Incandescent/Fluorescent Arm Light
 - Mounting Bracket for Arm Light
- Wall Mounted Accessory Track (P979)
- Specialite™ Patient Light (P645)

See TECHNICAL DATA SHEET 140734, Architectural Products Specialite™ Patient Light (P645), for details related to the Specialite™ Patient Light (P645).

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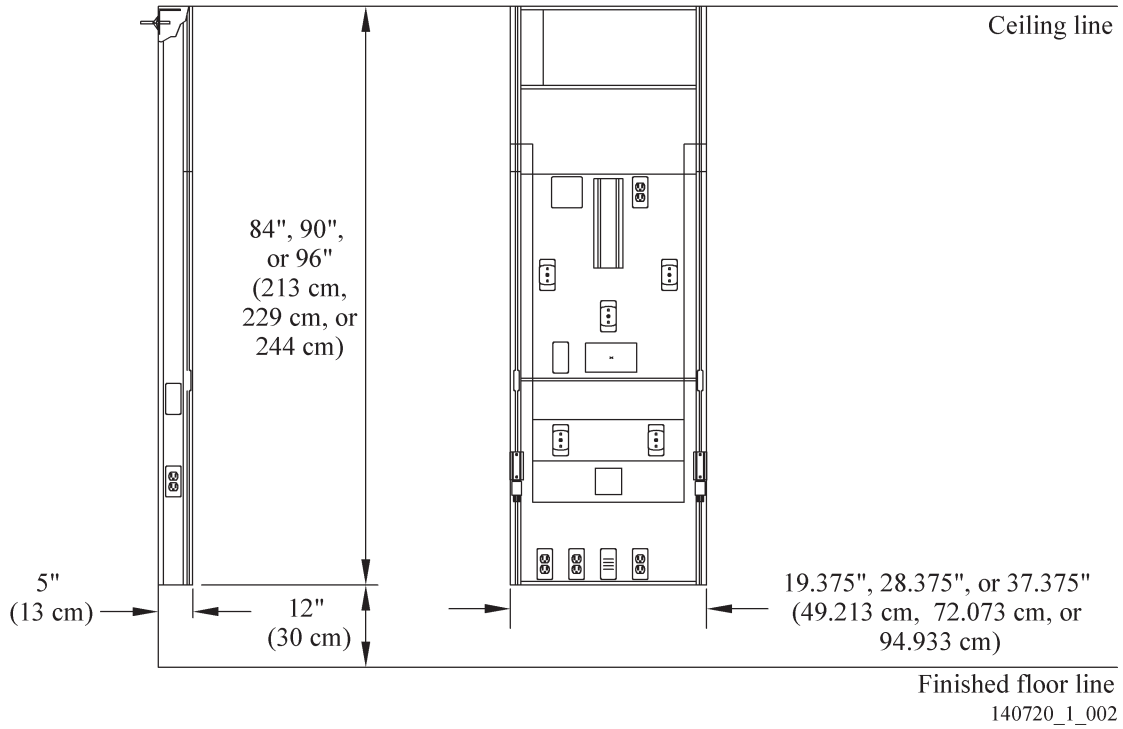
See TECHNICAL DATA SHEET 140737, Architectural Products Accessories, for details related to the Wall Mounted Accessory Track (P979), Arm Light, and Sphygmomanometer.

See Detailed Product Specification 140738, Architectural Products Optional Equipment and Devices, for details related to the above optional equipment and devices.

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Figure 2. Flatwall Headwall System (P670E) Dimensions



Flatwall Headwall System (P670E)

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WittRock reserves the right to make changes without notice in
design, specifications, and models.

The only warranty WittRock makes is the express written warranty
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