Royal® Top Spud Wall Hung Toilet Fixture
WETS-2450.1301 ST-2459 & Royal 111-1.28 ESS

▶ Code Number
24501301

▶ Description
Complete HET system with exposed, sensor activated, Royal® OPTIMA® closet Flushometer and vitreous china water closet.

▶ Flush Cycle
1.28 gpf/4.8 Lpf

▶ Specifications
Quiet, exposed, diaphragm type, chrome plated closet Flushometer for either left or right hand supply and vitreous china wall hung water closet with the following features:

- PERMEX® Synthetic Rubber Diaphragm with Dual Filtered Fixed Bypass
- ADA Compliant OPTIMA® Plus Powered Infrared Sensor for automatic "No Hands" operation
- Engineered metal cover w/ replaceable lens window
- OPTIMA® EL-1500-L Self-Adaptive Infrared Sensor with Indicator Light
- "Walk By" Delay of Eight (8) Seconds Prevents Unintentional Flushes
- Sensor with automatic range adjustment
- Initial Set-up Range Indicator Light (first 10 minutes)
- 1" IPS screwdriver Bak-Chek® angle stop with free spinning vandal resistant stop cap
- Courtesy Flush® Override Button
- Spud coupling and flange for 1½" top spud
- Sweat solder adapter w/ cover tube and cast wall flange with set screw
- High copper, low zinc brass castings for dezincification resistance
- Flush Accuracy Controlled by CID Technology
- Die Cast Sensor Plate with no visible Fasteners (for 2-gang Electrical Box)
- Non-Hold-Open Integral Solenoid Operator
- Diaphragm, Stop Seat and Vacuum Breaker to be molded from PERMEX® rubber compound for chloramine resistance

Valve Body, Tailpiece and Control Stop shall be in conformance with ASTM Alloy Classification for Semi-Red Brass. Valve shall be in compliance with the applicable sections of ASSE 1037.

▶ Fixture Specification
- Wall hung vitreous china elongated bowl
- Siphon jet flushing action
- 1½" IPS top spud inlet
- 2⅛" fully glazed trapway diameter
- Integral flushing rim with bed pan lugs
- Water spot area 11-1/4" x 8-1/2"
- Mounting hardware, carrier and toilet seat not included
- Recommended seats: Bemis - 1955CT/1955SSCT & 2155CT/2155SSCT Church - 295CT/295SSCT & 2155CT/2155SSCT
- Water closet shall be in compliance to the applicable sections of ASME A112.19.2/CSA B45.1
- Compliant with the Buy American Act when purchased as a combination

▶ Plumbing System Requirements
Minimum Operating Pressure: 25 PSI

Maximum Fixture Operating Pressure: 80 PSI

Minimum Operating Flow Rate: 18 GPM

▶ Automatic
Sloan OPTIMA® equipped Flushometers provide the ultimate in sanitary protection and automatic operation. There are no handles to trip or buttons to push. The Flushometer operates by means of an infrared sensor that adapts to its surroundings. Once the user enters the sensor's effective range and then steps away, the Flushometer Solenoid initiates the flushing cycle to flush the fixture.

▶ Economical
Automatic operation and a low flush volume provide water savings over other flushing devices. Reduces maintenance and operation costs.

Hygienic

User makes no physical contact with the Flushometer surface. Helps control the spread of infectious diseases. 24-hour Sentinel Flush keeps fixture fresh during periods of nonuse.

Practical

Solid state electronic circuitry assures years of dependable, trouble-free operation.

▶ Compliance & Certifications

This space for Architect/Engineer Approval

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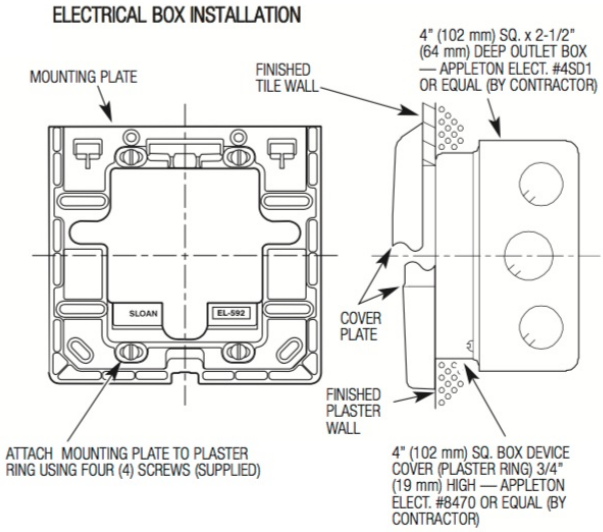
► Electrical Specifications

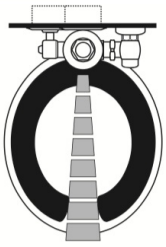
- Control Circuit
- Solid state
- 8 second arming delay
- 24 hour Sentinel Flush
- Sensor Type
- Active infrared
- Sensor Range
- 6 Years @ 4,000 flushes/month
- Indicator Lights
- 24 VAC Input/Output
- Nominal 22" - 42" (559 mm -1067 mm), Adjustable ± 8" (203 mm)
- Sloan Part #EL-154 120 VAC, 50/60 Hz Primary 24 VAC, 50/60 Hz Secondary Class II, UL Listed, 50 VA.
- Sloan Part #EL-342 240 VAC, 50/60 Hz Primary 24 VAC, 50/60 Hz Secondary Class II, UL Listed, 50 VA.

► WIRING DIAGRAM

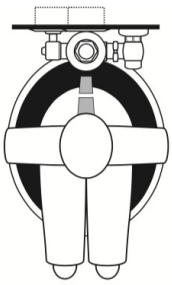


► OPERATION

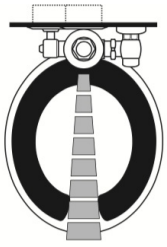
1. A continuous, invisible light beam is emitted from the OPTIMA® Sensor.



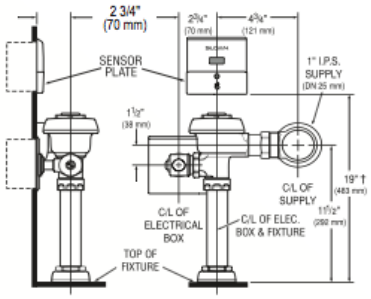
2. As the user enters the beam's effective range (22" to 42") the beam is reflected into the OPTIMA® Scanner Window and transformed into a low voltage electrical circuit. Once activated, the Output Circuit continues in a "hold" mode for as long as the user remains within the effective range of the Sensor.

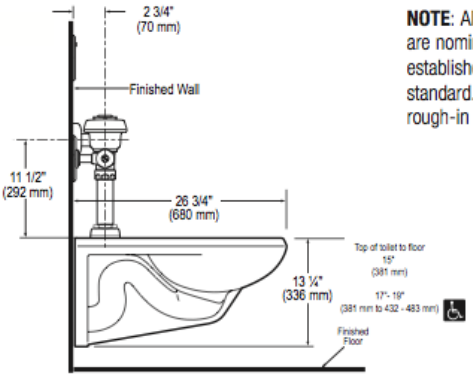


3. When the user steps away from the OPTIMA Sensor, the circuit waits 3 seconds (to prevent false flushing) then initiates an electrical "one-time" signal that operates the Solenoid. This initiates the flushing cycle to flush the fixture. The Circuit then automatically resets and is ready for the next user.

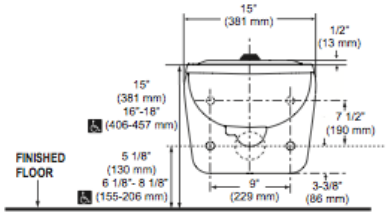


DIMENSIONS/ROUGH-IN





NOTE: All vitreous china dimensions shown in these drawings are nominal. Dimensions can vary within the tolerances established in the governing ASME A112.19.2/CSA B45.1 standard. Please take this into consideration when planning rough-in and plumbing layouts.



† Position of Sensor Box can be raised or lowered 1" (25 mm) if in conflict with Handicap Grab Bars.