 Spec Ref. # **CXWC16FM-PS**

SECTION 08 71 00

**BARRIER FREE DOOR CONTROL FOR RESTROOMS**

**CX-WC16**

SUREWAVE™ FLUSH TOUCHLESS SWITCH SYSTEM

\*\* NOTE TO SPECIFIER \*\* Camden Door Controls; emergency call systems.
This section is based on the products of Camden Door Controls, which is located at:
5502 Timberlea Blvd.
Mississauga, ON, Canada L4W 2T7
Toll Free Tel: 877-226-3369
Tel: 905-366-3377
Email:[request info (csr@camdencontrols.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=Camden+Door+Controls&coid=47997&rep=&fax=&message=RE:%20Spec%20Question%20(08710cdc):%20%20&mf=)
Web:[www.camdencontrols.com](http://www.camdencontrols.com)
[[Click Here](http://www.arcat.com/arcatcos/cos47/arc47997.html)] for additional information.
Camden Door Controls brings the best combination of product quality, performance and value to the access control marketplace. From hardware to electronics, we offer complete access and egress solutions in stock for immediate delivery!
Camden offers the most extensive range of door control products and accessories in the industry. From ADA and UL compliant door activation switches, to UL/ULC listed strikes and magnetic locks and advanced access control systems, we have the right product, at the right price, to meet your project requirements. In addition, Camden offers extensive customizing services - languages, colors, logos, switch configurations, consoles, and more. Contact customer service for assistance with product selection or a quotation.

1. GENERAL
	1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* + 1. Automatic door controls for restrooms.
		2. Emergency call systems for universal and barrier free restrooms.
		3. Automatic door relay controls.
		4. Automatic door activation.
		5. Automatic door wireless activation.
	1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 08 71 53 - Security Door Hardware.
		2. Section 26 05 00 - Common Work Results for Electrical.
		3. Division 16 - Electrical: Emergency power scheduled for automatic restroom egress doors to comply with building code requirements.
	1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
		2. ANSI A156.19 - Standard for Power Assist and Low Energy Power Operated Doors.
	1. SUBMITTALS
		1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
		2. Product Data: Manufacturer's data sheets on each product to be used, including:
			1. Preparation instructions and recommendations.
			2. Storage and handling requirements and recommendations.
			3. Installation methods.
		3. Shop Drawings: Electrical schematic, device mounting requirements and rough-in for recessed devices.
		4. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square representing actual product, color, and patterns.
	2. QUALITY ASSURANCE
		1. Manufacturer Qualifications: Minimum 5 year experience manufacturing similar products.
		2. Installer Qualifications: Minimum 2 year experience installing similar products.

\*\* NOTE TO SPECIFIER \*\* Include a mock-up if the project size and/or quality warrant taking such a precaution. The following is one example of how a mock-up on a large project might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

* + 1. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
			1. Finish areas designated by Architect.
			2. Do not proceed with remaining work until workmanship is approved by Architect.
			3. Rework mock-up area as required to produce acceptable work.
	1. PRE-INSTALLATION MEETINGS
		1. Convene minimum two weeks prior to starting work of this section.
	2. DELIVERY, STORAGE, AND HANDLING
		1. Deliver and store products in manufacturer's unopened packaging bearing the brand name and manufacturer's identification until ready for installation.
		2. Handling: Handle materials to avoid damage.
	3. PROJECT CONDITIONS
		1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.
	4. SEQUENCING
		1. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.
	5. WARRANTY
		1. Manufacturer's Warranty: Provide manufacturer's warranty for defective parts for a three year period from date of Substantial Completion.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: Camden Door Controls, which is located at: 5502 Timberlea Blvd.; Mississauga, ON, Canada L4W 2T7; Toll Free Tel: 877-226-3369; Tel: 905-366-3377; Email:marketing@camdencontrols.com); Web:[www.camdencontrols.com](http://www.camdencontrols.com)

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
		2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. AUTOMATIC DOOR CONTROLS FOR RESTROOMS
		1. Performance:

\*\* NOTE TO SPECIFIER \*\* Delete code requirements not required for jurisdiction.

* + - 1. Automatic door controls shall comply with Americans with Disability Act.
				1. Regulatory compliance with Accessibility Guidelines (ADAAG) and the Uniform Federal Accessibility Standard (UFAS) as required by Authority Having Jurisdiction (AHJ).
			2. Automatic door controls shall comply with National Building Code of Canada.
			3. Automatic door controls shall comply with NFPA National Fire Code or International Fire Code for restroom doors acting as egress doors as required by Authority Having Jurisdiction (AHJ).

\*\* NOTE TO SPECIFIER \*\* An important note regarding Fire Codes and the system designs of the specified systems. Designs contained in this guide are based upon the use of fail-safe electric strikes and mechanical ' swing-free' door locking hardware (i.e. handles that do not lock on the inside of the restroom). Further, where an emergency power generator is not in place to provide standby power to the automatic door operator in the case of power failure, 2hr. battery standby power shall be installed to provide power to the electric strike.

\*\* NOTE TO SPECIFIER \*\* BASIC PUSH BUTTON SYSTEM, no annunciation of door lock status. System kit includes; CX-33 Advanced Logic Control, CM-400/8 Mushroom PUSH TO LOCK' Button, CX-MDC Magnetic Door. Delete if not required.

\*\* NOTE TO SPECIFIER \*\* AURA™ PUSH PLATE SWITCH & ANNUNCATOR SYSTEM. System kit includes CM-45/8GRSE1 4-1/2 inches (102 mm) Illuminated Push Plate Switch (PUSH TO LOCK), with sign, CM-45/3GRSE1 4 " Illuminated Push Plate Switch (PUSH TO OPEN), with sign CX-33 Advanced Logic Control, Push Plate and CX-MDC Magnetic Door. Delete if not required.

* + 1. Product: Surewave Touchless Restroom Control System - CX-WC16FM-PS as manufactured by Camden Door Controls.
			1. Operation:
				1. The door is normally closed and either locked or unlocked. Waving a hand in front of the exterior ' Wave to Open' Surewave switch opens the door. Once inside and the door is closed, waving a hand in front of the ' Wave to Lock' Surewave switch, changes the color to red and locks the door. To exit, wave a hand in front of the interior ‘Wave to Open’ switch to unlock the door and reset the system. The ' Wave to Lock' Surewave™ switch illuminated outer ring turns green and the exterior ' Wave to Open' Surewave™ switch illuminated outer ring turns green. If the door is opened manually to exit the restroom, the overhead magnetic contact switch resets the system.

\*\* NOTE TO SPECIFIER \*\* Delete wired status not required.

* + - * 1. Status: Normally locked. Fail secure electric strike.
				2. Status: Normally unlocked. Fail safe electric strike.
			1. Components:
				1. The following items are part of the CX-WC16FM-PS equipment package:

CX-33PS Advanced Logic Control Relay and 2 Amp Power Supply in pre-wired metal cabinet.

CM-331/43S-SGLR single gang mount 2 – ¾ x 4 – ½ inches (70mm x 114 mm) activation (wall) switch, stainless steel construction, N/O contacts rated 3 Amps @ 30VDC and permanently laser etched ‘Wave to Lock’ graphics, LED light ring, Green/Red, with selectable 12/24V, AC/DC, built-in 85db sounder, max 60mA current draw, and CM-SE1 double sided sign ‘LOCKED WHEN RED’.

CM-331/42WS-SGLR single gang mount 4-1/2 inches (114 mm) activation (wall) switch, stainless steel construction, and ‘Wave to Open’ permanently laser etched graphics, LED light ring, Green/Red, with selectable 12/24V, AC/DC, built-in 85db sounder, max 60mA current draw and form ‘C’ contact rated 3 Amp @ 30VDC and CM-SE1 sign ‘OCCUPIED WHEN RED’ / ‘VACANT WHEN GREEN’

CM-325/42WS double gang mount 4 -1/2 inches (114mm) activation (wall) switch, stainless steel construction, and ‘Wave to Open’ permanently laser etched graphics, 12/24V AC/DC operation, built-in 85db sounder, max 60mA current draw and form C contacts rated at 5 Amps @ 30 VDC.

CX-MDA N/C surface mount Door Contact.

CX-ED2079 Electric Strike, grade 2 ‘universal’ strike for cylindrical locksets c/w 3 faceplates, 12/24V AC/DC, selectable fail safe/fail secure. The strike shall have horizontal faceplate adjustment.

* + - * 1. The following items are required, but not included in CX-WC16 equipment package:

Door Operator (by others)

\*\* NOTE TO SPECIFIER \*\* TWO DOOR RESTROOM AURA PUSH PLATE SWITCH & ANNUNCATOR SYSTEM. System kit includes CX-EMF-2 Multi-Function Relay, CM-45/8GRSE1 4 " Illuminated Push Plate Switch (PUSH TO LOCK), with sign, (2) CM-45/3GRSE1 4 " Illuminated Push Plate Switch (PUSH TO OPEN), with sign, (2) CX-MDC Magnetic Door. Delete if not required.

1. EXECUTION
	1. EXAMINATION
		1. Do not begin installation until substrates have been properly prepared.
		2. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
	2. PREPARATION
		1. Clean surfaces thoroughly prior to installation.
		2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
	3. INSTALLATION
		1. Install in accordance with manufacturer's instructions. Test for proper operation and adjust until satisfactory results are obtained.
	4. DEMONSTRATION AND TRAINING
		1. Manufacturer's representative shall provide on-site training of staff and maintenance of operation, maintenance and "trouble/error" detection/correction.
	5. PROTECTION
		1. Protect installed products until completion of project.
		2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION