

1.0 **GENERAL**

1.1 **Overview**

- .1 Buildings shall be designed to be card access. UBC's Okanagan campus uses Salto Access Control System and Locksets to support the campus's ongoing strategy to increase safety and security to the University community. The guidelines herein have been created by UBC Okanagan Campus Security to clarify the design and installation process of Salto systems on the UBC Okanagan campus.
- .2 The guidelines are in place to increase cooperation between all parties involved, whether they are UBC related or not (e.g. hardware consultants, contractors, locksmiths, electricians, information technology).
- .3 Security systems to be installed as part of newly constructed buildings or as part of renovations within existing buildings shall always reflect the intent of Salto Access Control System and Locksets standards and guidelines.
- .4 Campus Security is the UBC group solely responsible for the consultation, design installation, verification, maintenance, and management of all electronic security on campus.
- .5 Any and all proposed changes to these standards shall be subject to approval in writing by Campus Security Okanagan prior to implementation.

1.2 **Related UBC guidelines**

- .1 Section 28 16 00 Intrusion Detection
- .2 Section 28 13 00 Access Control
- .3 Section 28 20 00 Electronic Surveillance
- .4 Section 27 05 08 Cable Infrastructure Design Guidelines,
- .5 Section 27 05 05 Communication Rooms Design Guidelines, sub section 1.4
- .6 Section 28 31 00 Fire Detection and Alarm
- .7 Section 14 20 00 Elevators
- .8 Section 08 71 00 Door Hardware

1.3 **Coordination Requirements**

- .1 UBC O Campus Security
- .2 UBC O Campus Planning and Development
- .3 UBC O Information Technology
- .4 UBC O Facilities Management for Electrical Technical Support (or electrical contractor)
- .5 Special consideration must be given to the security/access control industry as being technology based. Industry advancements have an evolutionary effect on the design and manufacturing of security equipment. It is therefore critically important that Salto Access Control System and Locksets remains flexible in its implementation of UBC standards and guidelines.
- .6 This document must be read, interpreted and coordinated with all other related Sections to deliver a complete electronic security system.
- .7 The Salto Access Control System and Locksets Guidelines and others mentioned herein prescribe minimum acceptable standards for all equipment and procedures relating to Salto Access Control System and Locksets.

1.4 Scope of Work

- .1 Section refers to those portions of the work that are unique to the complete installation of a Salto locksets, and including all necessary preparatory work to doors and all electrical, data. The data sheets (submittal) must be referenced and interpreted simultaneously with all sections pertinent to the works described herein.

1.5 Codes And Regulation

- .1 All work shall be installed in accordance with the requirements of local and applicable provincial and federal regulations. Any work shown on the drawings or described in the specifications which is at variance with the regulations shall be changed to comply with the requisite authority at no cost to the Owner.

1.6 Performance Standards

- .1 CSA for Heavy Duty
- .2 All hardware to be Grade 1

1.7 Submittals

- .1 Shop drawings (i.e. the Salto Data Sheets) shall be submitted for Salto, and non-salto hardware specifications shall be submitted upon request.
- .2 Door schedule
- .3 Sequence of Operation is to be submitted for review by Campus Security (Locksmith Contractor Included).
- .4 List of any removed Salto hardware, including the location from which the hardware was removed as well as the location to which the hardware was relocated (if applicable), Hardware that is removed without being relocated should be returned to UBC as directed in section 3 – Execution.
- .5 Testing and Commissioning schedule is required for all electrified hardware.
- .6 As-Built drawings are required including the door hardware system wiring diagram, shop drawings of the electrified door hardware components, supplier and installer contact information (“Lockmaster” or other approved Salto Certified Locksmith), and warranty information for the installer and extended manufacturer warranties.
- .7 Requests for product substitutions must be made to the UBC Project Manager prior to closing of the Contract tender submission for review by Campus Security and Facilities Management.

1.8 Contractor and/or Consultant Responsibilities

- .1 The contractor and/or consultant has the responsibility to ensure that all provisions of these Standards are met and to specifically advise the University in writing of any contemplated exceptions and obtain approval from UBC Project Manager with review from Campus Security and Facilities Management for all contemplated changes.

1.9 Terminology

- .1 The following specific terminology is referenced in the Salto Access Control System and Locksets Guidelines, and appendix 1: Salto Data Sheets
- .2 (Personal Identification Number) or just ta PIN to gain access (commonly used at entrances of Student Housing buildings).

- .3 Salto Access Control System
The Salto system is an integrated, Campus-wide access control system that provides a flexible and rigorously monitored tool to control access to and from academic, administrative and residential spaces throughout UBC Okanagan.
- .4 IP Door Controller
is an on-line IP door controller that can have 1 - 2 wall reader connected and has 2 control relay outputs with the SALTO Virtual Network (SVN) capabilities. Provides full on-line features via the networked Ethernet such as door monitoring status and remotely controlling door unlock/lock modes.
- .5 Networked Electronic Escutheons (SALTO Xs4-60)
The SALTO XS4-60 wide body version for ANSI mortise locks is specially designed to be compatible with most ANSI mortise locks and tubular latches. It is specially designed for use on busy, high traffic doors that need additional strength.
- .6 Networked Electronic Escutheons (SALTO Xs4-60) with Keypad
The XS4 electronic lock with keypad is a product that increases security and control as it offers the choice of two forms of authentication to grant access. End users can use a credential, a credential and PIN
- .7 Mortise Case
The XS4 ANSI mortise lock is specially designed for doors that need an ANSI mortise lock ANSI in line with an A 156.13. Grade 1 mortise lock.
- .8 Access Card/Fob
As provided by the UBC Campus Security, a proximity credential presented at a card reader by an authorized user to grant access.
- .9 Salto Card Reader
An access card recognition device, typically proximity type that allows for the entry of an authorized card holder.
- .10 Card Reader Door
A "controlled door" that includes a Salto card reader for authorized entry and unlocking.
- .11 Electronic Locking Hardware
Access control door hardware, typically "handset" or "panic" type aesthetically identical to regular hardware and whose locking function is controlled electro-mechanically by on-line "hotspot".
- .12 Electric Strike
An access control door strike designed as a replacement for a regular strike plate that is controlled electro-mechanically.

2.0 **MATERIALS**

2.1 **Prescriptive Requirements**

- .1 This hardware should be hard specified. All other hardware needs to be identified as a potential alternative and submitted with costing for evaluation by Campus Security or approval and change to ensure compatibility with Salto, or otherwise.

2.2 **Salto Hardware**

.1 **Mortise Locks**

- .1 Salto Stand Alone Lockset A9650 (mechanical, electrical rooms, electrical closets, storage, waste, custodial etc.) Battery operated. Does not required data or power supply. Dimensions: 290mm x 67mm x 20mm. Colour: Satin. Please contact Campus Security for the most up-to-date specifications. Includes A9658A621M38 Lockset C/W LA1T1570A21IM8 Mortise Case/Deadbolt.
- .2 Salto Stand Alone Lockset with mechanical privacy (Accessible Public washrooms, individual offices). Battery operated. Does not required data or power supply. Dimensions: Dimensions: 290mm x 67mm x 20mm. Colour: Satin. Please contact Campus Security for the most up-to-date specifications.
- .3 Salto Mortise Case: The XS4 ANSI mortise lock is specially designed for doors that need an ANSI mortise lock ANSI in line with an A 156.13 Grade 1 mortise lock. Please contact Campus Security for the most up-to-date specifications. Includes A9650A00IM38 lockset c/w LA1T0570A21IM8 Mortise Case.
- .4 Salto Mortise Cylinder or approved alternative. Please contact Campus Security for the most up-to-date specifications.
- .5 Wire-free, stand-alone electronic cylinders designed for doors where fitting an electronic escutcheon is not possible. In addition to use on doors, other applications including cupboards or boxes can be controlled protected by SALTO GEO electronic camlocks and padlocks against theft or unauthorized use. Housing Dimensions: 43 x Ø38 mm 1-11/16" x Ø1-1/2"

.2 **Card Reader(s):**

- .1 Salto Wall Reader: The wall readers read encrypted data contained on the carrier and communicate it to the door controller. They also allow for updating of the carrier via SALTO Virtual Network technology making it possible to cancel lost or stolen cards remotely. Dimensions: 83mm x 83mm x 16mm. Please contact Campus Security for the most up-to-date specifications.

.3 **IP Door Controller(s)**

- .1 Salto CU50ENSVN Motherboard or approved alternative, 2 Amp Power supply in metal enclosure keyed to Salto service key, WRM9001 reader, WRMKP Key pad and WRMBH2 Dual mounting base (Commonly used on primary entrances of buildings). Power requirements 1p, 15amp dedicated circuit. Data line back to UBCO data room. Please contact Campus Security for the most up-to-date specifications.

2.3 Non-Salto Hardware

- .1 Exit Devices –Von Duprin 98/99 Series or approved equivalent
- .2 Privacy Sets –Schlage ND40-RHO (accessible washrooms, and single washrooms in office space) or approved equivalent
- .3 Passage Sets – Non/Salto - Schlage ND10 (non-controlled passage doors) or approved equivalent
- .4 Door Closers – LCN 4040XP or approved equivalent

3.0 EXECUTION

3.1 **Prescriptive Requirements**

- .1 All doors on campus, both exterior and interior, will have Salto hardware and/or IP door controlled (hotspot, electric strike, “online”).
- .2 **Interior doors** will generally have standalone (battery) hardware installed (A9650). This includes; academic space, administrative, office, washrooms, commercial/leased, etc. Other Salto solutions will be considered if A9650 cannot be installed due to door limitations (ex; gates).
- .3 **Exterior doors** will either be classified as “Hotspots” or IP controlled. Areas where compliance with building code or other regulatory requirements may prohibit the installation of Salto hardware must be identified on shop drawings and communicated to the project manager and Campus Security to consider Salto or other solutions. Exit only doors must be considered for Salto, and must be identified on shop drawings as well.
- .4 **All other points of entry** into a building shall be secured by Salto product.
- .5 Only Salto-certified locksmiths approved by UBC shall install permanent cylinders to ensure precise coordination of lock cylinder locations with the User’s requirements.
- .6 All locks and cylinders shall be supplied with temporary construction cylinders. The Contractor is to supply and install temporary construction cylinders complete with keys for all construction locks; until UBC-approved Salto-certified locksmiths can supply and install permanent Salto hardware on the UBC key system. Upon changeover, temporary construction cylinders shall be returned to the distributor.
- .7 The Division 08 Subcontractor is responsible for the installation of all door hardware, electrified door hardware control panels, power supplies, low voltage cables, and low voltage raceways. The Division 08 subcontractor is also responsible for all 110 volt supply raceways, wiring, and dedicated circuit breakers unless they are specifically indicated on the electrical design drawings as being done by Division 26 (example: power supply required as part of a design build electrified door hardware system installation). All electrified openings must have a dedicated power supply circuit, and the circuit number shall be identified on the door

hardware power supply. Stand-alone units are battery operated and do not require data or power supply.

3.2 Disposition of removed Salto Hardware

- .1 In the event that existing Salto hardware is removed without being relocated, please return it to the Campus Security Office.

*****END OF SECTION*****