SECTION 08 42 29

AUTOMATIC ENTRANCES

PART 1 – GENERAL

1.1 PURPOSE

A. This guideline is intended to provide useful information to the Professional Service Provider (PSP) to establish a basis of design. PSP is to apply the principles of this section such that the University of Texas at Arlington (UTA) may achieve a level of quality and consistency in the design and construction of their facilities. Deviations from these guidelines must be approved by UTA and may require justification through Life Cycle Cost (LCC) analysis and submitted to UTA for approval.

1.2 LESSONS LEARNED AND DESIGN CONSIDERATIONS

A. Finish is dependent on existing building finishes if this is a replacement; otherwise, finish should complement the building design if it is new construction.

B. Models with breakaway panel(s) should be considered to meet exiting width requirement.

C. Exterior units shall have locking mechanism and tie to campus remote automatic locking system. Electronic solenoid lock shall be fail secure.

D. Deadbolt locks are not permitted on exiting doors.

E. Substitutions for Stanley sliding doors will be evaluated based upon intended use and cost savings to the project.

1.3 SECTION INCLUDES

A. Packaged power-operated door assemblies.
B. Controllers, actuators and safety devices.
C. Maintenance.

1.4 REFERENCE STANDARDS

A. BHMA A156.10 - American National Standard for Power Operated Pedestrian Doors; current edition.
B. NEMA MG 1 - Motors and Generators; current edition.
C. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements; current edition.
D. UL (DIR) - Online Certifications Directory; current listings at database.ul.com.
E. UL 325 - Standard for Door, Drapery, Gate, Louver, and Window Operators and Systems; current edition, including all revisions.

1.5 SUBMITTALS

A. See Division 01 for submittal procedures.
B. Shop Drawings:
   1). Indicate layout and dimensions; head, jamb, and sill conditions; elevations; components, anchorage, recesses, materials, and finishes, electrical characteristics and connection requirements.
   2). Identify installation tolerances required, assembly conditions, routing of service lines and conduit, and locations of operating components and boxes.
C. Product Data: Provide data on system components, sizes, features, and finishes.
D. Samples: Submit two samples of exposed to view hardware, carpet with frame, and attachment hardware.
E. Certification: Provide manufacturer's certification that the doors meet or exceed the Engineering design requirements outlined in this Section.
F. Manufacturer's Installation Instructions: Indicate special procedures, perimeter conditions requiring special attention, and manufacturer's hardware and component templates.
G. Project Record Documents: Record actual locations of concealed equipment, services, and conduit.
H. Maintenance Data: Include manufacturer's parts list and maintenance instructions for each type of hardware and operating component.
I. Warranty: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.
J. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
K. Wrenches and other tools required for maintenance of equipment

1.6 QUALITY ASSURANCE
- A. Installer Qualifications: Company specializing in performing the work of this section with minimum five years of experience.

1.7 WARRANTY
- A. See Division 01 for additional warranty requirements.
- B. Provide two year manufacturer warranty.

PART 2 – PRODUCTS

2.1 MANUFACTURERS
- A. Sliding Automatic Entrance Door Assemblies:
  1). Basis of Design:
    a. Stanley, Dura-Glide 2000: www.stanleyaccess.com
    b. Stanley, Dura-Glide 3000: www.stanleyaccess.com
  2). Substitutions: See Division 01.

2.2 POWER OPERATED DOORS
- A. Power Operated Doors: Provide products that comply with the requirements of the authorities having jurisdiction; unless otherwise indicated, provide equipment selected for the actual weight of the doors and for light pedestrian traffic.
  1). Sliding and Folding Door Operators: In the event of power failure, provide for manual open, close, and break-away operation of door leaves.
  2). Packaged Door Assemblies: Provide all components by single manufacturer, factory-assembled, including doors, frames, operators, actuators, and safeties.
  3). Finish exposed equipment components to match door and frame finish.
- B. Sliding and Folding Doors with Full Power Operators: Comply with BHMA A156.10; safeties required; provide break-away operation unless otherwise indicated; in the event of break-away operation, interrupt power operation.
  1). Comply with UL 325; acceptable evidence of compliance includes UL (DIR) listing.
- C. Operators:
  1). Electric Operators: 1/8 hp minimum, self-contained, belt driven, with release clutch.
- D. Recessed panic hardware.
- E. Keyed rotary control.
- F. ADA/TAS compliant continuous extruded threshold where required.
- G. No deadbolt locks.
- H. Exterior units shall have locking mechanism and tie to campus remote automatic locking system. Electronic solenoid lock shall be fail secure.

2.3 PACKAGED AUTOMATIC ENTRANCE DOOR ASSEMBLIES
- A. Sliding Automatic Door:
  1). Bi-parting double leaf track-mounted, electric operation, extruded aluminum glazed door, with frame, and operator concealed overhead.
  2). Single slide track-mounted, electric operation, extruded aluminum glazed door, with frame, and operator concealed overhead.
- B. Operation: Power open, power boost operation.
- C. "Outside" Side Actuator/Safety: Proximity detector.
- D. "Inside" Side Actuator/Safety: Proximity detector.
- E. Door and Frame Finish:
  1). PPG XL. Color: Dark Bronze
  2). Clear Anodized Aluminum
- F. Emergency Breakaway Capability: Sliding Leaf and Sidelight
- G. Door stiles: Narrow 2 inch.

2.4 CONTROLLERS, ACTUATORS, AND SAFETIES
- A. Controller: Provide microprocessor operated controller for each door.
- B. Comply with BHMA A156.10 for actuator and safety types and zones.

C. Operator: Stanley, Series 2000/3000 Belt Drive.
D. Proximity Detector Actuator/Safety: Microwave; distance of control sensitivity adjustable.
E. Threshold Presence Sensors:
   1). Header mounted sensors, active throughout the entire door opening and closing cycle.
   2). Hold-open Beams: Two pulsed infrared photoelectric beams mounted in vertical rails of sidelight.
F. Electric solenoid lock (fail secure).

2.5 ELECTRICAL CHARACTERISTICS AND COMPONENTS
A. Electrical Characteristics:
   1). 3.15 rated load amperes.
   2). 120 volts, single phase, 60 Hz.
   3). 20 amperes maximum fuse size.
B. Motors: NEMA MG 1.
C. Wiring Terminations: Provide terminal lugs to match branch circuit conductor quantities, sizes, and materials indicated. Enclose terminal lugs in terminal box sized to NFPA 70.
D. Disconnect Switch: Factory mount disconnect switch in control panel.

2.6 ACCESSORIES
A. Glazing: One inch tempered glass.
   1). Color: Match color of adjacent glass.

PART 3 – EXECUTION

3.1 EXAMINATION
A. Verify that electric power is available and is of the correct characteristics.

3.2 INSTALLATION
A. Install equipment in accordance with manufacturer's instructions.
B. Installer shall be factory trained, certified by AAADM.
C. Install doors units plumb, level and true to line, without warp or rack of frames or sash with manufacturer's prescribed tolerances.
D. Provide for thermal expansion and contraction of door and frame units and live and dead loads that may be transmitted to operating equipment.
E. Provide for dimensional distortion of components during operation.
F. Coordinate installation of components with related and adjacent work; level and plumb.

3.3 ADJUSTING
A. Adjust door equipment for correct function and smooth operation.
B. Lubricate operating equipment for optimum condition and safety.
C. AAADM certified technician to inspect and adjust installation. Comply with ANSI A156.10.

3.4 CLEANING
A. Remove temporary protection, clean exposed surfaces.

3.5 CLOSEOUT ACTIVITIES
A. Demonstrate operation, operating components, adjustment features, and lubrication requirements.

3.6 MAINTENANCE
A. Provide service and maintenance of operating equipment for one year from Date of Substantial Completion, at no extra charge to Owner.

PART 4 – APPENDIX

4.1 PRODUCT DATA / CUT SHEETS
A. Stanley, Dura-Glide 2000
B. Stanley, Dura-Glide 3000

END OF SECTION

STANLEY®

ACCESS TECHNOLOGIES

DURA-GLIDE 2000/3000 AUTOMATIC SLIDING DOOR

A DIVISION OF:
STANLEY Security

PERFORMANCE IN ACTION™

The number one selling automatic sliding door in North America

We've combined innovative microprocessor technology with advanced engineering to create the safest, most durable and dependable automatic slide door in the industry. Anywhere you go, you'll experience the unmatched performance of our Dura-Glide slide door, be it an airport, hotel, hospital, supermarket, retail, office building, public building, government building or school.

THE DURA-GLIDE DIFFERENCE

- The highest horsepower motor in the industry comes standard.
- Fiberglass reinforced toothed drive belt prevents slippage and uneven closing.
- Large diameter load bearing roller wheels can carry a heavy load for a long time.
- Header made of lightweight, high strength 6063-T6 aluminum to prevent sagging.
- Components fully tested and pre-assembled at factory and shipped via dedicated STANLEY freight for fast, trouble-free install.

ECO-FRIENDLY OPTIONS

- Accommodates 1" high performance insulated glass, cutting the U-Factor by 40%.
- Added seals to reduce air infiltration.
- Switch to reduce opening widths, saving HVAC when there is low traffic or inclement weather.
- Paint process meets stringent AAMA 2605 specifications with no VOCs emitted.
- Tie to an air curtain to stop air infiltration up to 80% when open.*
- Made with recycled content at our facilities in Connecticut and Indiana to provide LEED credits MR 4.1, 5.1 and 5.2.

MODELS

PARTIAL BREAKOUT (2000 version): Only sliding panel(s) break out at any point of travel. Surface mount options available.

FULL BREAKOUT (3000 version): All panels break out at any point of travel for emergency egress.

DESIGNER PACKAGE: Operator and components for use with custom panels (image left) with breakout.

UTILITY PACKAGE AND SLIM LINE HEADER: Operator only, without breakout. Ideal for international applications where break out isn't required by NFPA 101 or applications in North America where occupant load is fewer than 50, such as conference rooms.

ALL GLASS 2000/3000: All glass doors and sidelights (image left).

CLEANROOM: Certified for cleanrooms.

*ASHRAE Room Air Distribution Equipment 17.9

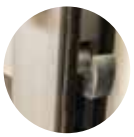
SAFETY

- Standard doorway holding beams (2) and Stan-Guard® detect objects in door area and holds panels open until threshold is clear.
- Optional Wind Resistant Dampers reduce the potential for panel damage caused by wind gusts when panels are broken out.

SECURITY, THEFT PREVENTION AND LIABILITY PROTECTION OPTIONS

- Flush or surface mounted panic hardware.
- Alarm contacts for remote monitoring of panel status.
- **Locking Options** (Key/thumb turn hook bolt standard)
  - 3-Point Locking
  - Lock Position Indicators
  - Electric Solenoid Lock (Fail Safe/Fail Secure)
  - Access Control Locking with Surface or Recessed Panic Hardware

LOCK GUARD wraps around the lead stiles, adding rigid stainless steel reinforcement in the event of forced entry.



ARMORED STRIKE designed for bi-parting doors, utilizing standard 4-lamination lock with 2-point locking.

SECURITY STROBES act as a visual deterrent after hours when doors are locked to help prevent unauthorized entry.

DELAYED EGRESS prevents door panels from breaking out for 15-30 seconds while an alarm sounds so personnel can respond before the person is allowed to leave.

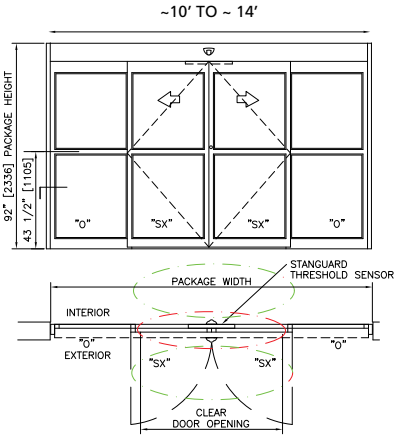
JAMB CAMERA is a low profile camera mounted to the door jamb.

UNINTERRUPTED POWER SUPPLY provides continued operation for up to 1.5 hours.

THE STAN-CAM™ CAMERA provides continuous video of area surrounding door's opening, including threshold.

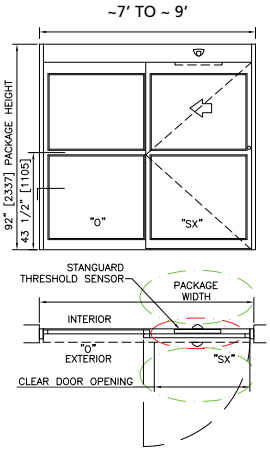
2000 BI-PART

External sliding panels breakout only



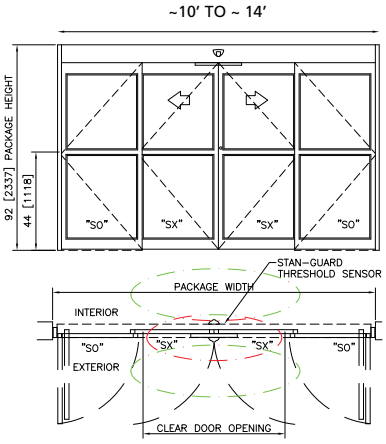
2000 SINGLE SLIDE

Left Hand Shown



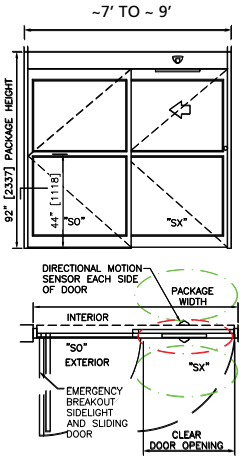
3000 BI-PART

All panels break out



3000 SINGLE SLIDE

Left Hand Shown



Standard package shown. Contact your local STANLEY Representative for custom designs and larger dimensions.

SPECIFICATIONS			OPTIONS
DESIGN	Single Slide or Bi-part		
BREAKOUT	SX Panel on the 2000, SX and SO panels on the 3000		
TYPICAL HEIGHT	7'-8" (2.3m), Clear Door Opening of 6'-11" (2.1m)		Taller options available. Consult your local SAT representative
TYPICAL WIDTH	**SINGLE SLIDE (narrow stiles):** 7' to 9' (2.1 to 2.7m), CDO width 35 1/4" - 47 1/4" (896mm - 1201mm) 2000 EBO: 39" - 51" (991mm - 1296mm). 3000 EBO: 75" - 99" (1905mm - 2515mm)	**FORMULA (narrow stiles):** CDO = 1/2 package width - 6.7" Emergency BO width = CDO + 3.8" (2000 model). Package width - 9.0" (3000 model)	Wider options available. Consult your local SAT representative.
	BI-PART (narrow stiles): 10' to 14' (3.0m - 4.3m), CDO width: 48 1/4" - 72 1/4" (1227mm - 1836mm) 2000 EBO: 55 1/2" - 79 1/2" (1411mm - 2021mm). 3000 EBO: 105 1/2" - 153 1/2" (2680mm - 3899mm)	**FORMULA (narrow stiles):** CDO = 1/2 package width - 11.7" Emergency BO width = CDO + 7.3" (2000 model). Package width - 14.5" (3000 model)	
HEADER SIZE	8" (203mm) High x 6" (152mm) Deep		
JAMB DIMENSION	1 3/4" x 4 1/2"		1 3/4" x 6"
STILES	Narrow 2"		Medium 3 1/2"
TYPICAL DOOR PANEL WEIGHT	Up to 220 Pounds Each (100kg)		Heavier options available
DOOR PANEL MATERIALS	Aluminum		All glass or custom
POWER REQUIRED	120 VAC, 50/60 HZ, 5 Amps Minimum		
DRIVE SYSTEM	1/4 HP DC Motor, Gear Drive, Toothed belt		Twin 1/4 HP DC Motors
CONTROLS	Rocker Switch		Rotary, Keyed Rotary, Eco Pro
CONTROLLER	Microprocessor based with position encoder		
MUNTIN	One 2" muntin		4 1/4", Multiple
ACTIVATION SENSORS	2 SU-100 motion sensors		Activation sensors, mats, push button controls, wall plates, radio control
SAFETY SENSORS	1 Stan-Guard® and 2 Doorway Holding Beams		Combination sensors and mats
TEMPERATURE RATING	-30F to 130F		
GLASS	1/4"		1/2", 5/8" or 1"
TRANSOM	Configurable Verticals and/or Horizontals		
SPEED RANGE	Closing Speeds: 0.5' - 1.5 per sec per ANSI. Opening Speeds: 0.5' - 2.5' per sec.		
CODES AND STANDARDS	UL, cUL, ANSI A156.10, IBC, UBC, BOCA, ICBO, NFPA 101		