

BioSafe®

Cleanroom Doors



Product Data & Submittal Sheet

At Terra, we strive to develop and produce the highest quality products for our customers to improve health, safety, performance, and yields. Our product quality is enabled by high-grade manufacturing equipment and processes, 50 years of engineering and application expertise, and our commitment to continuously improve.

Manual Swing Cleanroom Doors



Product Data & Submittal Sheet



Continuous-Seam Welds

Smooth surfaces and corners are easy to clean, ideal for critical biopharmaceutical facilities.



Flush-Mount Dual Pane Windows

Flush mount dual-pane window design simplifies cleaning.



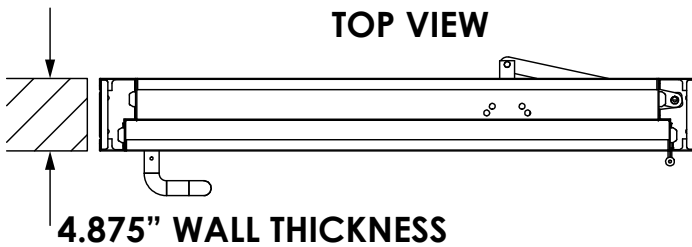
Automatic Door Bottom Gasket

The automatic door bottom helps maintain differential pressure inside the room. It is equipped with a fully concealed drop-down gasket that seals the bottom gap when the door closes.



Custom Builds

Terra's BioSafe doors can be built with custom configurations and features.



Specifications

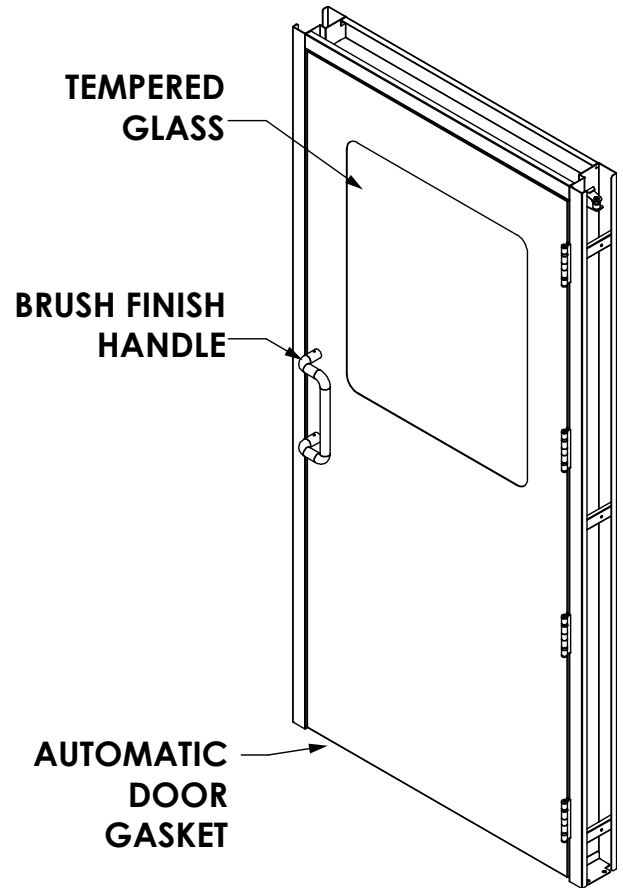
- Frame: 16 gauge fully-welded, single rabbet
- Door Type: Flush
- Door Skin Thickness: 16-18 gauge
- Door Thickness: 1 3/4"
- Finish: #4 finish
- Material: 316L SS
- Fire Safety Rating: None
- Leakage Rating: UL 1784
- Core: ASTM C578 Type IV Polystyrene
- Window Pane: Tempered glass
- Hydraulic Door Closer: Adjustable ADA compliant heavy-duty, ANSI Grade 1

GENERAL DESCRIPTION

Terra's BioSafe® products are designed for life science applications: no gaps and crevices where microbes can colonize, rounded corners for easy disinfection, won't produce contaminants during sterilization, and exceed cGMP, IEST, ASTM and ISO 14644-1 requirements.

At Terra, we strive to develop and produce the highest quality products for our customers to improve health, safety, performance, and yields. Our product quality is enabled by high-grade manufacturing equipment and processes, 45 years of engineering and application expertise, and our commitment to continuously improve.

- Available Certified ISO Grade Designs: ISO 5, ISO 6, ISO 7, ISO 8
- Doors and frames are designed to fit flush with an existing wall for easy cleaning
- Flush double-glazed window design minimizes surfaces and crevices where contaminants can collect.
- Window consists of two 1/4" tempered glass panes pre-mounted, bonded, and encased in a durable stainless steel frame.
- 304 or 316 stainless steel hollow metal door and door frame with superior corrosion protection to meet your strictest GMP, FDA, and cleanroom requirements.
- All seams on door and door frame are continuously welded and ground smooth for a seamless finish, ideal for aseptic applications.
- Door is equipped with a fully concealed drop-down bottom seal (automatic door bottom) that seals the bottom when the door is closed.
- Door comes pre-hung to a frame to allow fast and easy mounting.
- All hardware locations reinforced with internal steel backing plates.
- Stainless steel push/pull handles



UNIT CONFIGURATION

Door Height:

- 80"
- 84"
- Custom

Door Width:

- 36"
- 42"
- 72" (Double-Door)
- Custom

Door Swing:

- Left
- Right
- Double

Window

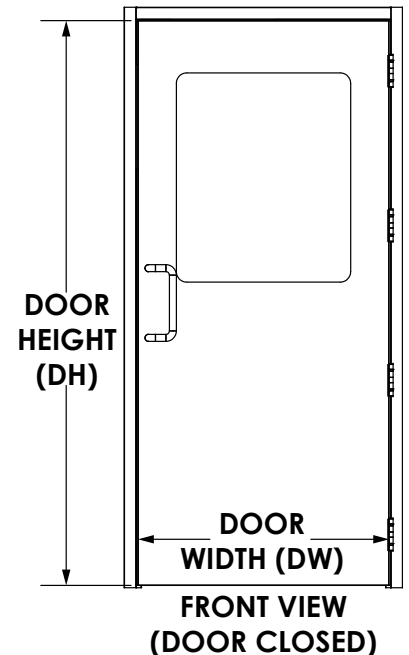
- Full
- Half
- None

Additional Options:

- Premium ladder pulls
- Automatic Operator
- Inactive Door Leaf

Lock Prep Options:

- None
- Cylindrical
- Mortise Only
- Electromagnetic Interlock



REQUIRED ROUGH OPENING FOR SLIDE-IN FRAME

(DW+4") x (DH+2.25")

|___W x |___H

cGMP uPVC Coated Cleanroom Doors



Product Data & Submittal Sheet



Reinforced Stainless Steel Door Frame

The uPVC paneling is contained in a tight, sturdy stainless steel frame. The powder-coated jamb is mounted flush in the wall facilities.



Flush-Mount Dual Pane Windows

Flush mount dual-pane window design simplifies cleaning.



Corrosion Resistant Stainless Steel Door Handle

Outward-facing door side has handle for pull-open access. Polished stainless steel handle withstands frequent wipe downs.



Automatic Door Bottom Gasket

The automatic door bottom helps maintain differential pressure inside the room. It is equipped with a fully concealed drop-down gasket that seals the bottom gap when the door closes.

Terra Universal® uPVC Coated Steel Cleanroom Doors

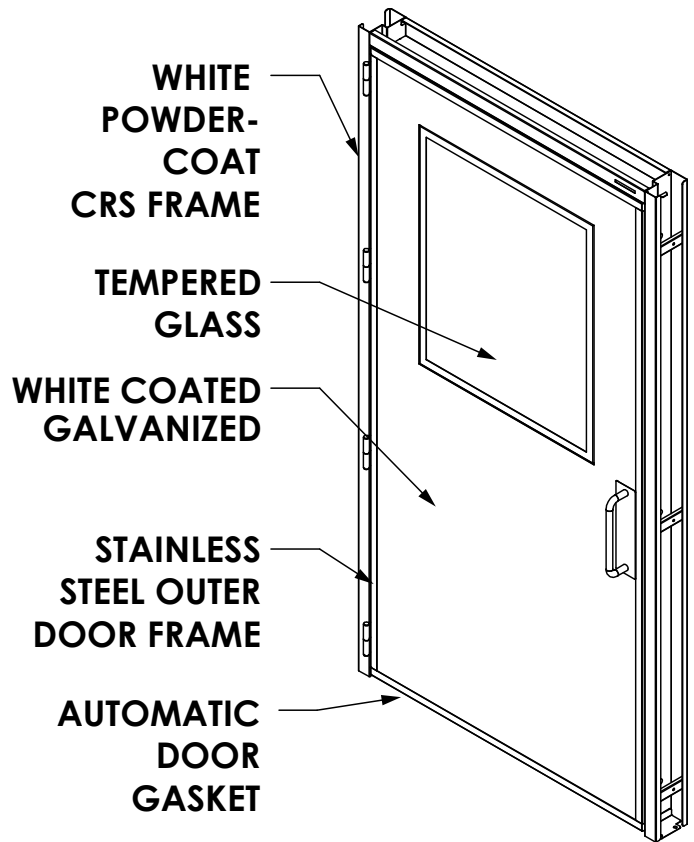


Specifications

- Frame: 16 gauge fully-welded, single rabbet
- Door Type: Flush
- Door Skin Thickness: 26 gauge
- Door Thickness: 1.644"
- Material: uPVC Coated Galvanized Steel
- Fire Safety Rating: None
- Leakage Rating: UL 1784
- Core: EPS Rigid Foam or Aluminum Honeycomb Core
- Window Pane: Tempered glass
- Hydraulic Door Closer: Adjustable ADA compliant heavy-duty, ANSI Grade 1

GENERAL DESCRIPTION

- Pre-hung hygienic cleanroom doors for healthcare, pharma, and cGMP applications; fits standard 4.875" wall thickness
- uPVC coated door panel holds up to aggressive chemical cleaning agents like Hydrogen Peroxide (H₂O₂); will not absorb moisture or humidity
- Extremely durable uPVC coating is impact and scratch resistant, and includes anti-static film for sensitive microelectronic application
- Flushmount dual pane windows provide visibility without jeopardizing cleanroom compliance
- Automatic door bottom gasket helps minimize air leakage and maintain room pressure
- Doors and frames are designed to fit flush with an existing wall for easy cleaning
- Unique EPS Rigid Foam insulation design is lighter weight than all-stainless steel doors
- Doors and frames are designed to fit flush with an existing wall for easy cleaning
- Doors are pre-hung on door frame for easy installation



UNIT CONFIGURATION

Door Height:

- 80"
- 84"
- Custom

Door Width:

- 36"
- 42"
- Custom

Door Swing:

- Left
- Right
- Double

Window

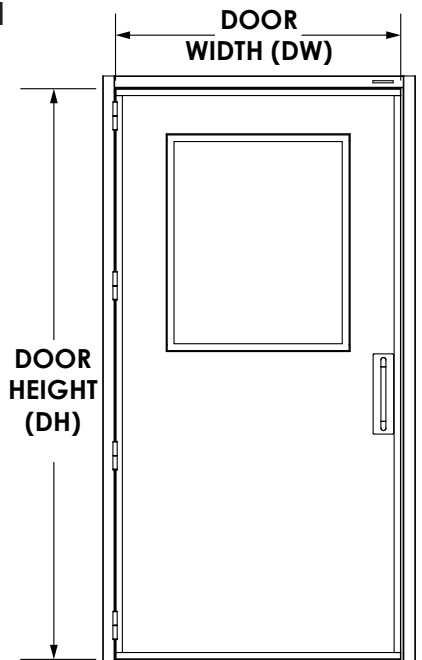
- Full
- Half
- None

Additional Options:

- Premium ladder pulls
- Automatic Operator
- Inactive Door Leaf

Lock Prep Options:

- None
- Cylindrical
- Mortise
- Electromagnetic Interlock



REQUIRED ROUGH OPENING FOR SLIDE-IN FRAME

(DW+4") x (DH+2.25")

|___W x |___H

Stainless Steel Sliding Cleanroom Doors



Hands Free Operation

Smooth surfaces and corners are easy to clean, ideal for critical biopharmaceutical facilities.



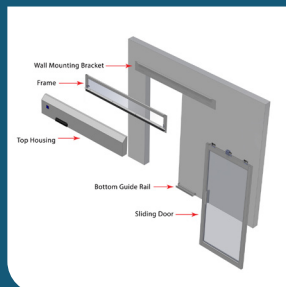
Flush-Mount Dual Pane Windows

Flush mount dual-pane window design simplifies cleaning.



Automatic Sliding Door Operation Switches

Door operation switches provide responsive automatic door control. Choose between three configurations: fully open, partially open, and closed.

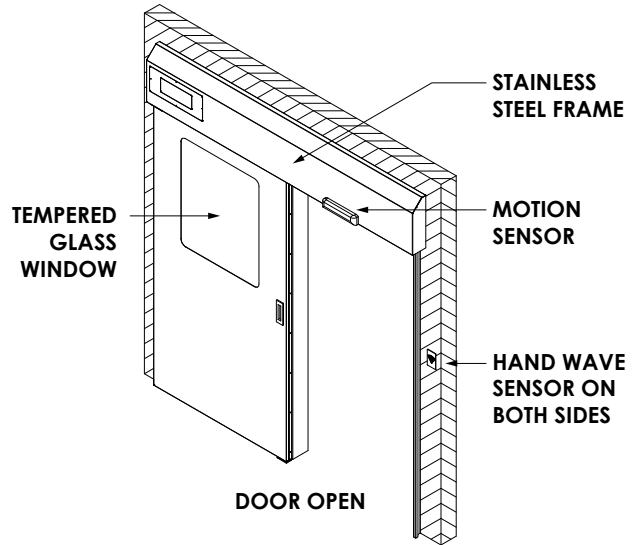
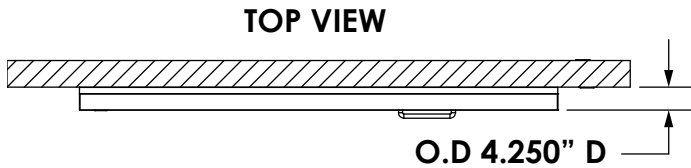


Fast, Easy Installation

Install Terra's door in under an hour. Don't waste an entire day with an overly complex door that requires special expertise.

Product Data & Submittal Sheet

Terra Universal® Stainless Steel Sliding Cleanroom Doors

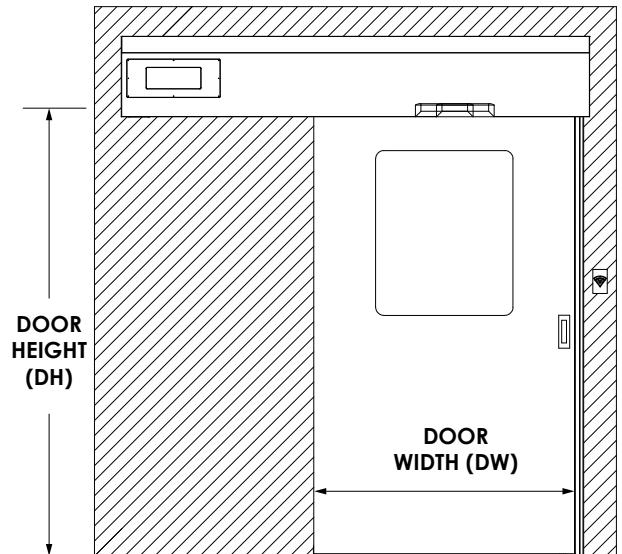


Specifications

- Mount Type: External
- Material Type: Stainless Steel
- Door Skin Thickness: 16-18 gauge
- Door Thickness: 1 3/4"
- Finish: #4 finish
- Fire Safety Rating: None
- Leakage Rating: UL 1784
- Core: ASTM C578 Type IV Polystyrene
- Window Pane: Tempered glass
- Automatic or Manual Sliding Door
- Single or Bi-Parting Doors

GENERAL DESCRIPTION

- Flush double-glazed window design minimizes surfaces and crevices where contaminants can collect.
- Window consists of two 1/4" tempered glass panes pre-mounted, bonded, and encased in a durable stainless steel frame.
- 316L stainless steel hollow metal doors combines superior corrosion protection with outstanding design and beauty to meet your strictest GMP, FDA, and cleanroom requirements.
- Door track is mounted externally to wall surface
- Well suited for retrofit construction and easy installation where a large opening is not possible for recessed door frames.
- System requires enough empty wall space next to the opening to allow door(s) to slide completely open.
- Minimizes obstructive sight lines and provide hand-free entrance into cleanrooms
- Microprocessor controller continually monitors door position with adjustable: opening & closing speed, distance & speed of braking, reduced opening and time delay
- Auto reverse on obstruction
- Toothed drive belt reinforced with fiberglass to prevent slippage and ensures even closing
- Quick installation with pre-assembled header and panel sub-assemblies
- 304 stainless steel stands up to common disinfectants



REQUIRED ROUGH DOOR OPENING
40"W x 80"H

UNIT CONFIGURATION

Door Mount Type:

- External

Door Material:

- Stainless Steel

Door Height:

- 80"
 84"
 Custom

Door Width:

- 34"
 40"
 46"
 60" (Double Door)
 80" (Double Door)
 Custom

Door Opening Style:

- Left
 Right
 Double

Window

- Full
 Half
 None

Additional Options:

- Automatic Operator
 Cleanroom Talkthrough
 Intercom

Lock Prep Options:

- None
 Electromagnetic Interlock



Aluminum Automatic Sliding Doors



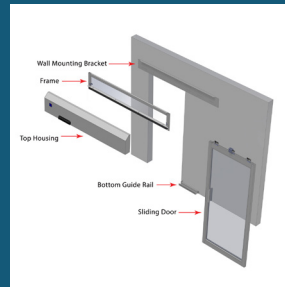
No Sidelite Door

Unlike competitors, Terra's door design doesn't use a sidelite door, eliminating the building of dust and other contamination that can be difficult to clean.



Simple Door Programming

Adjustment and troubleshooting can be done by anyone. Programming is simple and doesn't require special equipment or costly field technicians.



Fast, Easy Installation

Install Terra's door in under an hour. Don't waste an entire day with an overly complex door that requires special expertise.



No Hardwiring Required

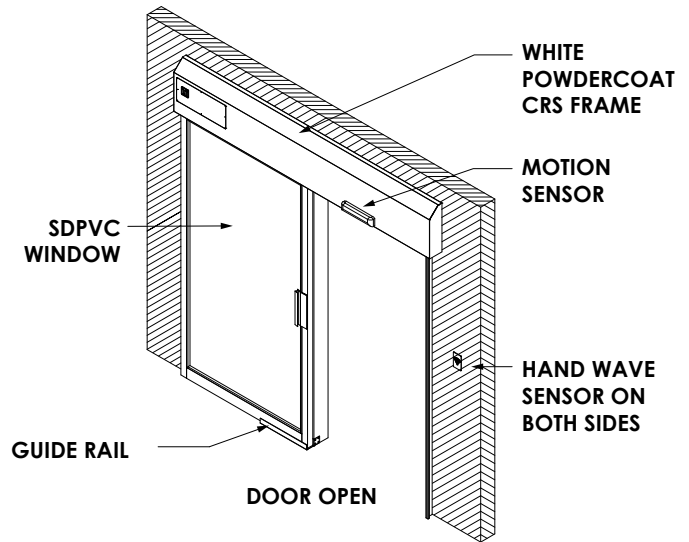
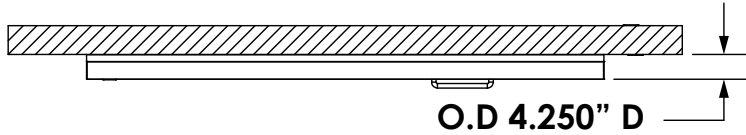
Simply insert Terra's plug into your outlet and the door is ready. Avoid costly and lengthy hardwiring. An electrician is not needed for the install.

Product Data & Submittal Sheet

Terra Universal® Aluminum Automatic Sliding Cleanroom Doors



TOP VIEW

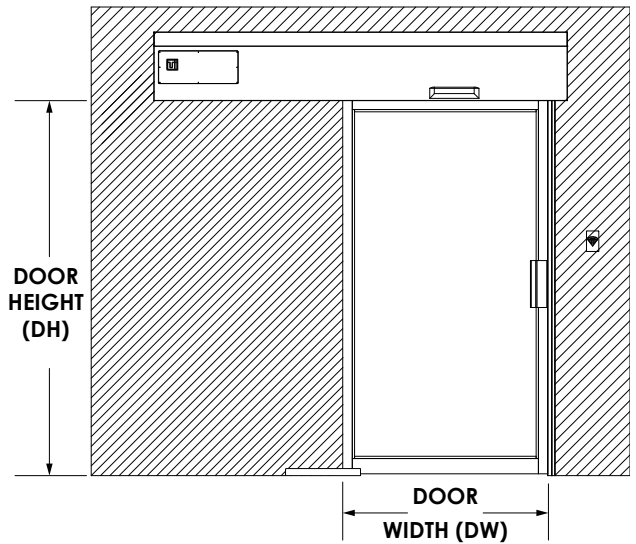


Specifications

- Mount Type: External
- Material Type: Aluminum
- Door Thickness: 1 3/4"
- Fire Safety Rating: None
- Leakage Rating: UL 1784
- Window Pane: Tempered Glass or SDPVC
- Single or Bi-Parting Doors

GENERAL DESCRIPTION

- Available ISO Ratings: ISO 6, ISO 7, ISO 8
- Door track is mounted externally to wall surface
- Well suited for retrofit construction and easy installation where a large opening is not possible for recessed door frames
- Door Frame and track are installed inside existing wall cutout/partition
- Touchless motion door pad for hands-free operation
- Simple door programming that can be done by anyone without the need for costly field technicians
- Installation is quick and does not require special expertise
- Well suited for room partitions or openings larger than desired door size; can be configured to include side lights for additional visibility
- Installation is quick and does not require special expertise
- Elastomer door seals and fiberglass reinforced timing belt ensures cleanliness, durability and uniform closing
- Microprocessor controller continually monitors door position with adjustable opening and closing speed, distance and speed of braking reduces opening and time delay
- Auto reverse on obstruction; slow speed search for obstruction
- Load-bearing wheels made of cast urethane for long-lasting, smooth and trouble-free operation
- Adjustable anti-riser wheels lock each door in its overhead track
- Doors undergo life testing to a minimum of one million cycles
- Static-dissipative PVC door panels enhance static and particle control, stand up to cleaning agents, minimize obstructive sight lines and reduce claustrophobic sensation in small rooms
- Quick installation with pre-assembled header and panel sub-assemblies ANSI compliant
- Custom sizes and configurations, including swing and folding doors, available; call Terra to discuss your requirements!



REQUIRED ROUGH DOOR OPENING
40"W x 80"H

UNIT CONFIGURATION

Door Mount Type:

- External

Door Material:

- Aluminum

Door Height:

- 80"
 84"
 Custom

Door Width:

- 34"
 40"
 46"
 60" (Double Door)
 80" (Double Door)
 Custom

Door Opening Style:

- Left
 Right
 Double

Window Options:

- Cleanroom Talkthrough
 Intercom

Additional Options:

- Cleanroom Talkthrough
 Intercom

Lock Prep Options:

- None
 Electromagnetic Interlock

