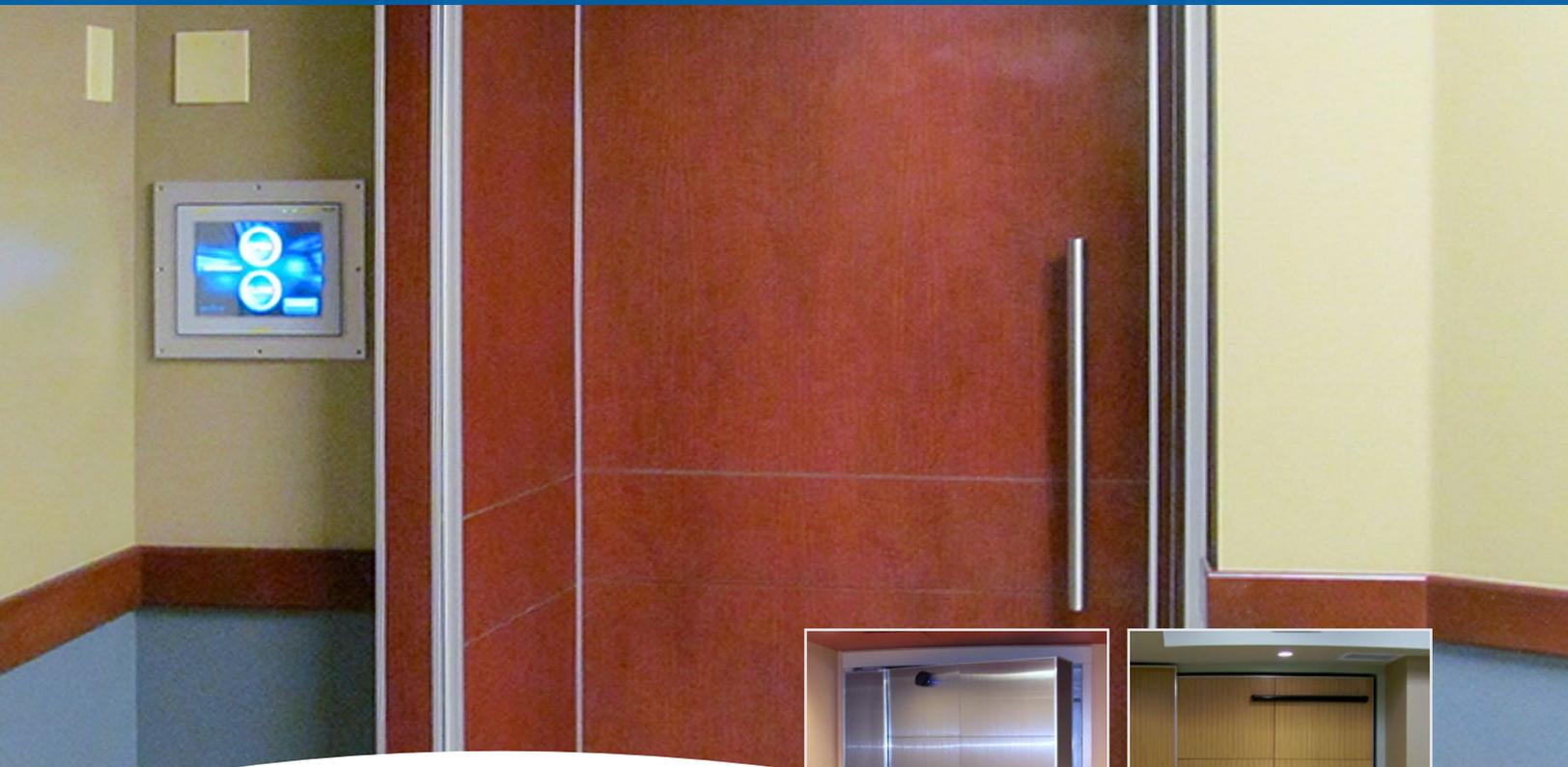


SmartDoor® Shielded Entry Systems

SWING-STYLE CONFIGURATION



veritas
SmartDoor®
Shielded Entry Systems

Eliminate mechanical problems and the industrial look of ordinary radiation shielded doors. Veritas door systems provide 100% guaranteed shielding with unmatched reliability and the visual appeal of contemporary designer finishes.

Today's most advanced radiation therapy room entry system, Veritas doors come equipped with SmartDoor® Touch Screen technology, which provides a variety of user functions including enhanced security features with thumbprint reader, remote access from the control room or nurses' station, and performance reports. Opening in 10 seconds or less, the doors will knock the competition off their hinges!



Veritas Swing-Style SmartDoor® System

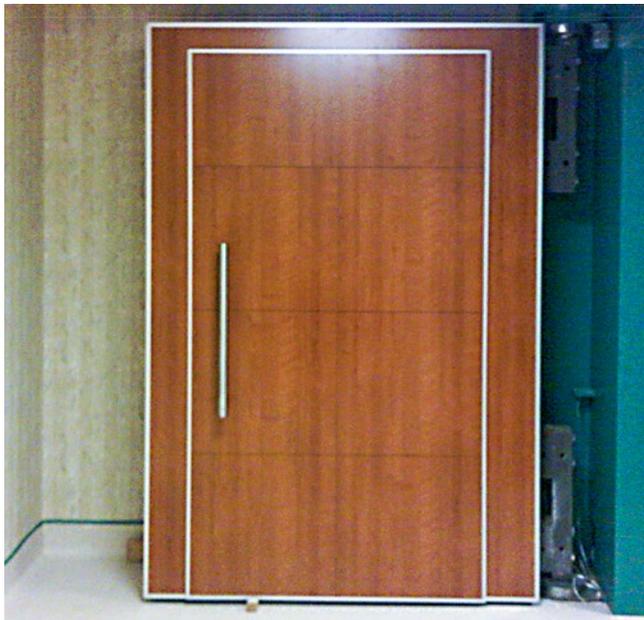
SPECIFICATIONS

ITEM	DESCRIPTION
Construction	Single leaf, swing door supported by a radial/thrust pivot bearing, surface mounted to the floor concrete, and a top radial bearing installed into a steel frame support. Hinged from the spine edge.
Standard Clear opening	122cm x 213cm (4ft x 7ft). Conforms with required opening sizes as listed in major equipment supplier's IDP manuals. Clear opening size can be customized to fit specific customer requirements.
Drive System	Motor driven through an advanced roller pinion gear providing high positional accuracy. Direct drive assembly with built-in current limit sensing (fault detection).
Control Cabinet	609mm x 609mm x 254mm (24" x 24" x 10") box, vented front door.
Machine Interlock Switch	101mm x 101mm x 50mm (4" x 4" x 2") metal box, (for machine use or interoperability).
Opening / Closing Speed	Full open/close in 8-10 seconds. Operating speed is infinitely adjustable.
Electrical Requirements	208-240 VAC 3 phase 50/60 HZ power supply. 220 V single-phase, 20-amp available. Low voltage wiring to all door controls and presence sensors and safety systems.
Controls and Operation	Programmable Veritas SmartDoor touch screen interface and two (2) NEMA 12 enclosures. 24V DC low voltage push button control stations. Mushroom-style emergency stop button. UL listed system.
Manual Operation	With the drive system disengaged, the door system can be opened and closed manually for emergency and maintenance operation.
Safety	Two (2) Emergency Stop ("E Stop") buttons, one inside and one outside room. E Stop built into HMI. Emergency disable on control box.
Presence Sensors	BEA, Inc. SuperScan Series on both sides of door. Completely disengages power/driving force.
Safety Doors	The door drive is concealed behind protective panels that are finished to match the door veneers.
Radiation Shielding	100% effective radiation shielding barrier and enclosure. Doors are precisely machined and installed to minimize the gap between the floor and the bottom of the door to reduce under-door scatter and eliminate the need to recess the door into the floor.
Door Thickness	Veritas SmartDoors are available in thicknesses of 5" (127mm), 10" (254mm), 15" (381mm) or 20" (508mm) and are loaded with VeriShield modular shielding or alternate materials as necessary to meet the requirements of the physics report. Custom thicknesses are available.
Finishes	Choice of high-quality door finishes (durable polymers and high pressure laminates, stainless steel or anodized aluminum). Custom graphics are available at an additional charge.
Testing	Radiation shielding integrity testing shall be completed by client within 60 days of project. Veritas will rectify any deficiencies in the door shielding or door operating system as warranted.
Warranty	100% shielding guarantee against radiation streaming and one-year standard coverage against mechanical failure. Preventative maintenance contracts are available.
Attenuation	Photon and neutron attenuating. 100% shielding guarantee.
Swing Direction	Available with either left- or right-hand swing.

Veritas SmartDoors®— The Future of Radiation Therapy Room Entry

With 100% guaranteed shielding protection, the fastest open/close speeds in the industry, and a long list of unique benefits, Veritas SmartDoors are far superior to other shielded doors providing new options for your treatment room entry ways.

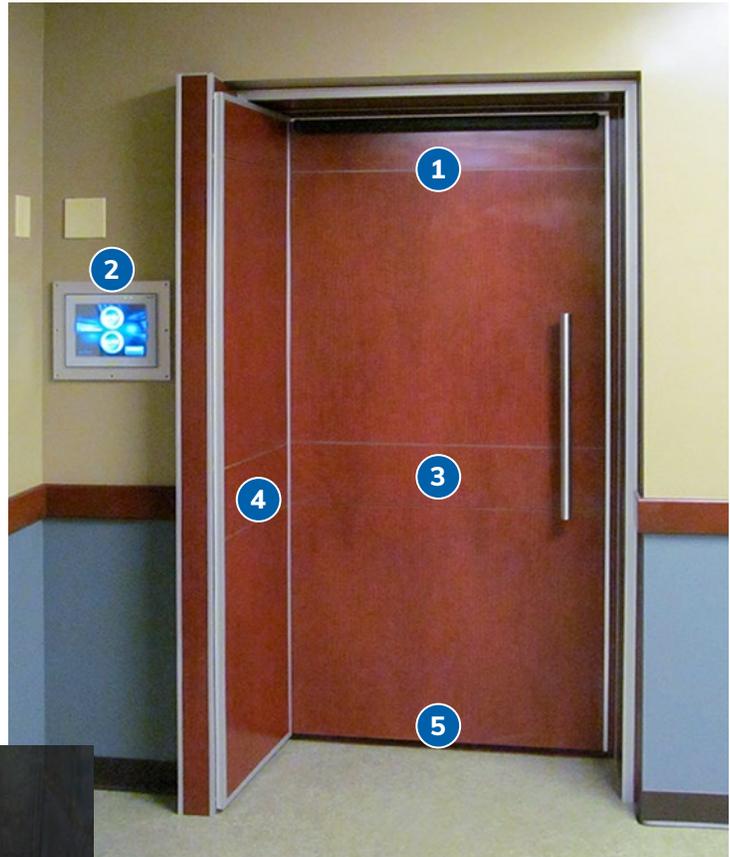
- Smooth, safe operation backed by Veritas SmartCare™ service.
- 8–10 second open/close speeds—more than twice as fast as competing doors.
- Advanced touch-screen operation—control all operations from a single interface. Remote troubleshooting capability.
- Quick, cost-efficient installation—ideal for both new rooms and renovations.
- Endless selection of contemporary door finishes.



Veritas SmartDoor® Engineering and Physics

Veritas provides engineering, physics, design services and architectural support for the construction of the door system based upon final physics parameters. A comprehensive physics report is provided, which documents all design parameters and physics calculations for the door installation. Design and engineering services include structural and mechanical.

1. **Safety sensor protection**
2. **Touch screen operation**—programmable door control, operation monitoring/reporting and electronic door lock
3. **Appearance package**—choice of finishes/trim
4. **Built-in safety panels**—prevent access to the drive mechanism and eliminate pinch points
5. **Precision installation** prevents under door radiation scatter
6. **Single-source motor drive** and all wiring concealed and located next to the door—eliminates overhead operator
7. **Smooth, silent operation**
8. **Full weight of the door** is finely balanced on a 200,000lb. capacity bearing (10x safety factor) eliminates industrial style wall hinges



Veritas SmartDoor® Remote Service System

The system is designed to provide remote access for off-site Veritas service technicians to perform remote diagnostics and troubleshooting, upload software updates, and backup data.

Offered on a subscription basis, the Veritas Remote Service System will safeguard the door system and help increase up-time. The system also helps reduce customer interaction typically required during service and troubleshooting events. With the remote log-in capability, chances are good that Veritas Service Personnel can remedy most operating incidents with only operational involvement of clinical personnel.

Should an on-site service call be necessary, the system provides Veritas technicians an advance look at the problem. This allows any required vendor assistance and/or mechanical parts to be obtained prior to making the trip, thus keeping potential on-site service interruptions to a minimum.

Service subscribers will receive email and phone support immediately upon notifying Veritas of any out-of-normal system behavior. Notifications will also be distributed in advance of automatic software updates.

Remote Service Benefits

- Provides access to performance criteria that would allow for preemptive malfunction repairs to be assessed and scheduled, limiting down time
- System is ready in advance for remote diagnostics and troubleshooting
- Eliminates the need to maintain and connect a laptop for door service and maintenance operations
- Limits the need for customers to procure control system software
- Provides for regular software upgrades
- Allows service work or data collection during off-peak hours—minimizes impact to operations
- Reduces the need for on-site Veritas personnel—saves on travel expenses and reduces lead time for the delivery of identified parts



SYSTEM DETAILS

Configuration

The Remote Service System consists of an industrial computer located in the SmartDoor control system enclosure. This single computer can be utilized to service multiple door systems (if applicable) by daisy chaining the individual doors together to form a subnet.

The introduction of the embedded computer allows live access to the door device through the facility firewall settings or internet connection via LabTech software, which is installed on both the device and the Veritas technician's PC.

Limitations

CAT-5e connections are limited to 500 feet from the control cabinet. Any door systems beyond this distance will require an additional powered switch to be added. The computer is fanless and has an operating temperature range of 0°C - 50°C.

The servos currently used in the linear door systems do not have direct connectivity via remote access. However, servo data is accessed via the communication link with the HMI or PLC.

Power Requirements

The Remote Service System computer and switches can be powered internally from within the SmartDoor control cabinet via 110 VAC power adapter or additional 24VDC power supply.

Network Protocol

Input to the computer from the customer needs to be an active Ethernet drop only. General internet access is required (Port 80) as well as access to the website <http://www.labtechsoftware.com>

If additional security is desired, the system computer can be isolated in a DMZ.

System Cost Elements

The following items are included in the overall cost of the Remote Access System. Specific pricing is compiled after reviewing site specific details.

- Embedded PC—1 per site
- Software modifications—If IP conflicts with remote door system and client network
- Remote Monitoring and Phone Service Subscription

Additional Elements

- Optional 24VDC power supply
- CAT-5E cabling between multiple treatment room door cabinets. Added to wiring based on run between systems. In multiple door operations, assumes all doors are within 300 feet of each other.

