



Horton ICU/CCU Smoke & Non-Smoke Rated Door Systems





Index

- Brief History
- What Sets Horton Apart?
- What Are Health Care Facility Preferences?
- Why Smoke Rated Doors?
- What Is NFPA 105 & UL 1784?
- Smoke-Rated Packages
 - Profiler-ICU® Single Slide Door System
 - Profiler-ICU® Single Slide P-X or X-P Door System
 - Profiler-ICU® Telescoping Door System
 - ICU/CCU Slide & Swing Door Systems With Mini-Blinds & Fire-Rated Door Panel
 - Profiler-ICU® SmokeSwing™ Door System
- Non-Smoke Rated Packages
 - Bi-Fold/Bi-Swing Door System
 - Profiler® Series 2000 Isolation Door System
- Self-Closing Smoke-Rated ICU Door System
- Profiler® Series 2000 Isolation Door System
- Breakout Review



Horton Automatics

- **Formed in 1960**
- **Developed first automatic sliding door for commercial use**
- **First to gain nationwide building code acceptance for the automatic sliding door**
- **First automatic door manufacturer to catalogue a motion detector with safety beam**
- **First U.S. manufacturer to develop the automatic folding door**
- **Operations in Texas, USA; Telford, England; Matamoros, MX**
- **Part of Overhead Door Corporation; division of \$3.5 Billion Sanwa Shutter holdings**





What Sets Horton Apart?

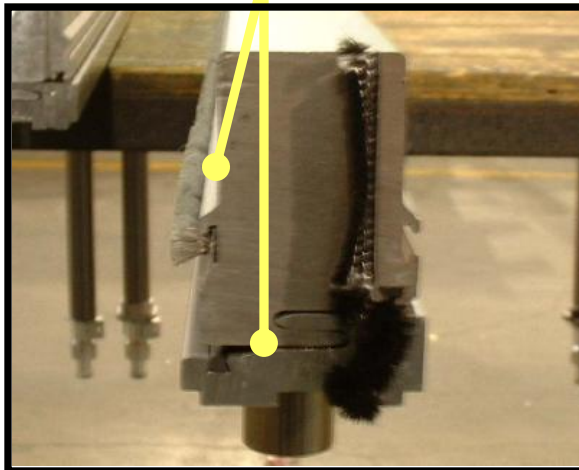
- Broadest and deepest ICU/CCU product line in the industry
 - ICU Slide: 1-panel, 2-panel, 3-panel, 4-panel
 - ICU Swing: single, pair, unequal pair, bifold/bi-swing
 - Trackless or floor track
 - Smoke-rated option
 - Slide or swing or fold with matching sight lines
 - Self Closing configurations
 - Isolation room applications
- Largest selection of finishes
- Superior construction
- Expert design assistance

What Sets Horton Apart?

- Door panel construction
 - Horton exclusive SOLID break-out extrusion

Horton

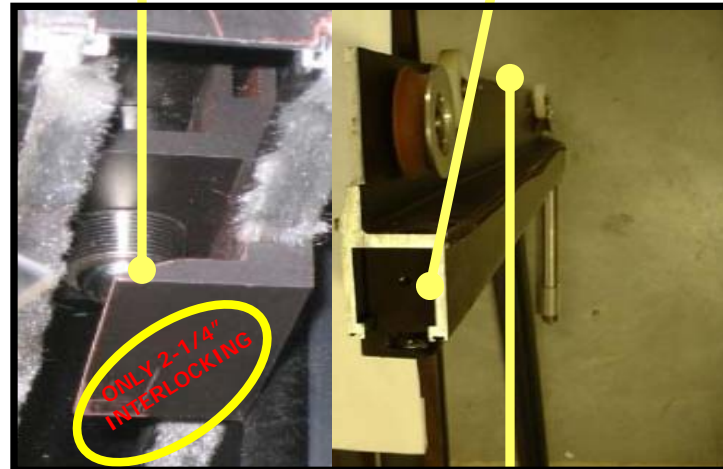
Solid bar with continuous interlocking



Typical Mass Produced Door

ONLY 2 1/4" interlock at strike end

Hollow extrusion sloppy operation



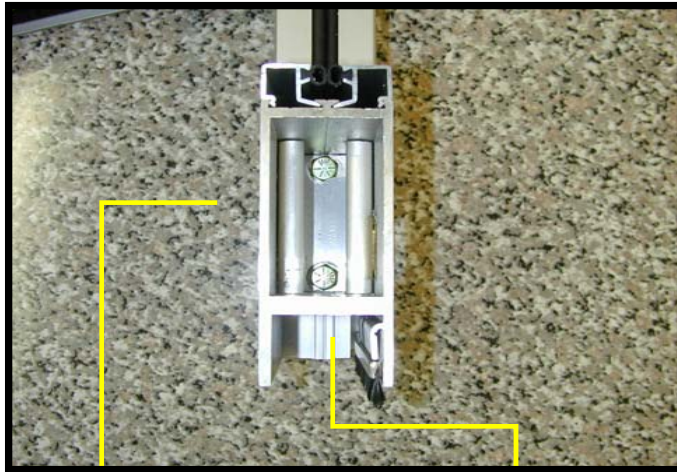
Wheels mount to extrusion!

Horton advantages:

- Robust design increased durability and support
- Continuous scissor action

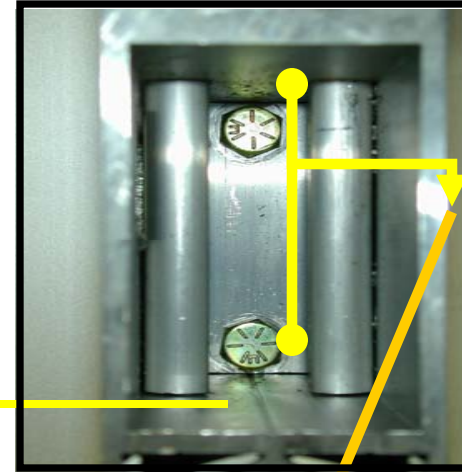
What Sets Horton Apart?

- Door panel construction
 - Horton exclusive corner block design



Cut to length
corner blocks add
strength

Massive bottom
rail web for
superior strength



Grade 8 ¼ - 20 Bolts

(4) 10-24 X ¾" self
threading FHMS secure
corner block to
horizontal rail

What Sets Horton Apart?

- Corner Block Construction is Superior to Through Bolt Construction



Rails Can Twist and Misalign
With Through Bolt Design

Health Care Facility Preferences

- Full view of patient within ICU unit
- Trackless configurations for fast and safe removal of patients and equipment
 - Regional requirements apply
- Swing out capability for both slide panel and sidelite for maximum clearance for beds and equipment
- Developing trend towards smoke rated systems





Why Smoke Rated Doors?

- The Rationale
 - Evacuating patients from a number of ICU/CCU rooms during a fire can be difficult
 - Smoke rated doors allow hospital personnel to lock down ICUs until fire and smoke is contained
 - Smoke rated doors allow architects greater flexibility in designing ICU areas where certain patient/nurse ratios could be an issue with a fire marshal

What Is NFPA 105 & UL 1784?

- NFPA 105 is a standard for installation of smoke door assemblies and other devices
 - Tested in accordance with air leakage requirements

- UL 1784 (Air Leakage Test of Door Assemblies):
 - Required to get 'S' label
 - Developed for areas of health care facilities where smoke infiltration is a concern
 - Consists of:
 - Testing at ambient and high temperature (400° F)
 - Ensuring leakage rate not exceeding 3 ft³/minute/sqft





ICU/CCU Smoke Rated Packages

A door package which carries a 'S' label certifying that it is tested per UL 1784



ICU/CCU Smoke Rated Packages

- Profiler-ICU® Single Slide Door System
 - Door nosings, bottom rails and interlock seals engineered to contain smoke infiltration
 - Available in trackless or recessed track configurations
 - Visually appealing low profile header
 - Positive latching handle
 - Sizes range from 7 to 9 feet in width





ICU/CCU Smoke Rated Packages

- Profiler-ICU® Single Slide P-X or X-P Door System
 - Utilizes one slide door with no side lite
 - Walk-thru opening up to 59 ½"
 - No breakout required for patient access
 - No floor track obstruction
 - Available with nylon covered track
 - Smooth & quiet operation
 - Surface mounted header
 - Positive latching handle
 - Available with and without horizontal bars
 - Sizes range from 7' 6" to 11' 3-1/8" in width





ICU/CCU Smoke Rated Packages

- Profiler-ICU® Telescoping Door System
 - Up to 78% greater opening width than standard smoke rated single slide ICU doors
 - Trackless design
 - Sizes range from 7 to 12 feet in width
 - All panels break out for maximum clear opening
 - Positive latching handle





ICU/CCU Slide & Swing Door Systems with Mini-Blinds & Fire-Rated Door Panel

- Available in single slide and swing doors
 - Allows staff to adjust viewing of patients without the use of drapes
 - Magnet actuated
 - Positive latching handle
 - Fire rated panel integrated into packages
 - Tested to UL 1784





ICU/CCU Smoke Rated Packages

- Profiler-ICU[®] SmokeSwing[™] Door System
 - Modified door nosings, bottom rails and interlock seals exceed smoke infiltration requirements of UL 1784
 - Available in trackless configurations
 - Available in single swing, equal and unequal pairs
 - Low profile header to match slide ICUs
 - Positive latching handle
 - Sizes range from 3' 3-1/2" to 8' 3-1/2"



ICU/CCU Non-Smoke Rated Packages



ICU/CCU Sliding & Swing Doors Non-Smoke Rated

- Bi-Fold/Bi-Swing
 - Trackless floor design
 - Low profile header
 - Choice of fold-in or fold-out Bi-Fold panels
 - Allows a number of options for patients and hospital staff



Fully Opened



Swing Door Open/Bi-Fold Closed



Fully Closed



Profiler® Self-Closing ICU

- First of its kind
 - No power needed to operate door
 - Fully concealed, self-closing device
 - Hold open feature
 - Available in Smoke Rated or Non-Smoke Rated
 - Smoke Rated meets UL1784 requirements & air leakage requirements of NFPA 105
 - Available in track or trackless configurations
 - Allows a number of options for patients, architects, and hospital staff
 - Used for single slide units
 - Sizes range from 7 to 9 feet





Profiler[®] Series 2000 IDS Isolation Door System

- Utilizes electric drive operator to open and close ICU doors with optional operation in manual mode
- Hands free operation
- Replicates functional features of manual ICUs
 - for breakout and trackless features
- Recessed handles for manual operation of
 - the door in the event of a power outage
- Flexible control options
- Available with 'touch less' actuator switches
- Sizes range from 7 to 9 feet



Breakout Review



Slide open, release flush bolt & swing out

Return to fully closed & re-latch flush bolt

