



VTsmartdoor™

PROVIDING EFFICIENT AND
RELIABLE FIRE DOOR INSPECTION



FAST AND ACCURATE INSPECTIONS

Whether a commercial building is one or 45 stories tall, the safety of its occupants is of the utmost importance. That's why the National Fire Protection Association has issued a list of standards for fire-rated doors and other materials.

Initiated in 2008, the NFPA now requires all fire doors be inspected on an annual basis. What's more, written records of each inspection must be maintained in order to comply.

This process can take a lot of time and effort — unless you have a VTsmartdoor.™ Using industry-leading technology, VT Industries makes the entire inspection process quick and easy. With barcodes placed on every fire-rated door, inspectors merely scan the door and all information will be captured and ready to save in a digital format.

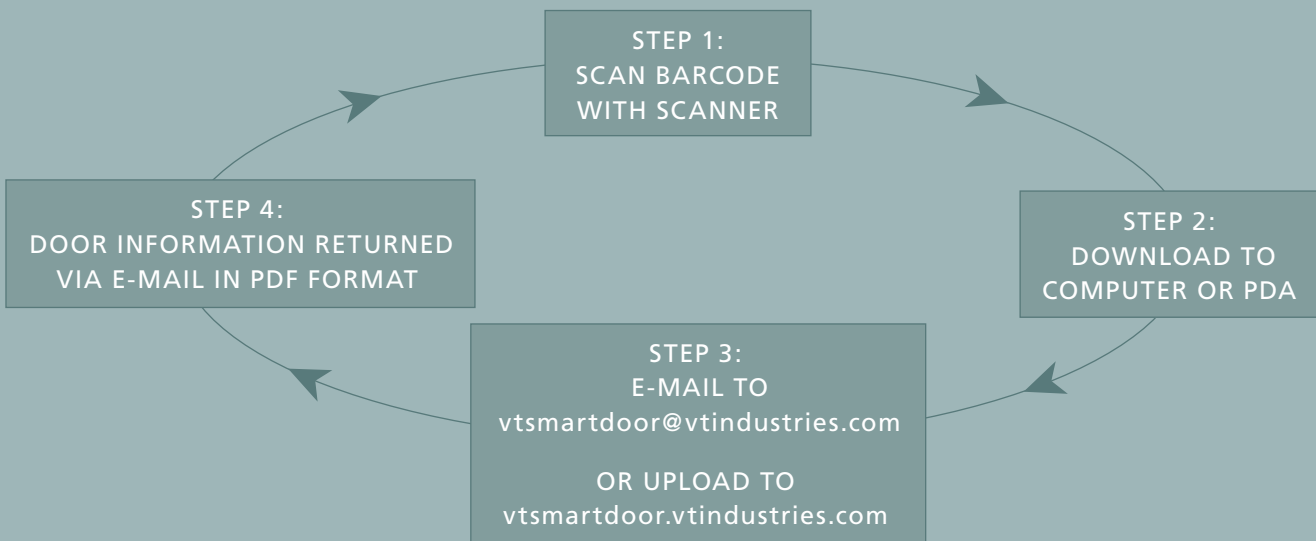


HOW IT WORKS

Before they even leave our factory, a fire rating label with barcode is placed on the hinge stile of each door. This code is easy to access and tells inspectors the exact specifications of the door, including fire rating, machining, veneer, finish, manufacture date, door number and more. This gives the inspector all the information he or she needs in a matter of seconds.

The added bonus — this data can either be e-mailed or uploaded to our website. So if you ever need to replace or order more doors of the same specification, all the information you need is accessible in a matter of seconds.

THE ENTIRE PROCESS TAKES ONLY A FEW STEPS:



STEP 1:

Scan the barcode located on the hinge stile of the door. All of the information is automatically saved in the scanner.

STEP 2:

Connect the scanner to a computer using the provided cable. Or, transfer the data wirelessly to your computer or Smartphone using Bluetooth technology.

STEP 3:

E-mail an Excel file of the data to vtsmartdoor@vtindustries.com or upload the file to vtsmartdoor.vtindustries.com.

STEP 4:

All the door's data will be retrieved in a matter of seconds.

KEY FACTS

- Inspector training and criteria are developed by DHI.
- VT will assist in inspector training.
- Using a computer or handheld device, door information can be e-mailed to vtsmartdoor@vtindustries.com or uploaded and stored at vtsmartdoor.vtindustries.com.

For more information or to locate a local VT CORE Distributor visit www.vtindustries.com.

1000 INDUSTRIAL PARK
P.O. BOX 490
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WWW.VTINDUSTRIES.COM



**Architectural
Wood Doors**





MACHINING OF VT FIRE RATED DOORS BY OTHERS

In order for another company to machine VT fire rated doors, the company must write a letter to VT requesting to become a licensed machiner of fire rated doors manufactured by VT and authorized by Intertek/Warnock Hersey. VT will then forward this request to Intertek/Warnock Hersey advising them to send the requesting company VT machining specifications and set up said company as a licensed machiner of VT fire rated doors.

Please refer to the sample request letter, "Request To Become VT Licensed Machiner Through Intertek/Warnock Hersey".



REQUEST TO BECOME VT LICENSED MACHINER THROUGH INTERTEK/WARNOCK HERSEY

Type on Customer Letterhead

Mr. Tom Hoffert
VT Industries Inc.
Architectural Wood Doors
1000 Industrial Park
P.O. Box 490
Holstein, IA 51025

RE: Machining of Fire Rated Doors

Dear Mr. Hoffert:

[INSERT Company Name] would like to become a licensed machiner of fire doors (20-minute through 90-minute) manufactured by VT Industries. We request an authorization from Intertek/Warnock Hersey pending your approval.

Sincerely,

Heritage Flush Doors

FIRE DOOR CAPABILITY CHART - NEUTRAL PRESSURE



VT INDUSTRIES INC. 1000 INDUSTRIAL PARK
 ARCHITECTURAL WOOD DOORS P.O. BOX 490
 800.827.1615 HOLSTEIN, IA 51025
 WWW.VTINDUSTRIES.COM

Fire Rating	VT Door Types		Maximum Size Single		Maximum Size Standard Pair		Maximum Size DE Pair		Max. Transom Size	Maximum Lite (1/4" wire glass)**			Maximum Louver (fusible link)			Hinges & Pivots	Locks	Fire Exit Devices	Closers	Viewer 2 per door max.	Flush Bolts	Auto Door Bottoms	Kick Plates
	5-Ply Wood	HPDL	Door Only	Door w/ Transom	W/ CVR	W/out CVR	W/ CVR	W/out CVR		W	L	Sq."	W	L	Sq."								
90-Minute Mineral Core	5511	1111	4-0 x 10-0	4-0 x 10-0	8-0 x 9-0	8-0 x 9-0	8-0 x 8-0	8-0 x 8-0	4-0 x 3-4	10"	33"	100	24"	24"	576	Per NFPA 80 Table 2A	Cylinder Mort. Unit & Cyl. Deadbolt	Rim, Surface, Mortise & CVR	Surface	1" Dia.	Listed Auto or Manual, 24" max.	Mortised, Surface & Semi-mortised	PVC or Metal 48"
60-Minute Mineral Core	5511	1111	4-0 x 10-0	4-0 x 10-0	8-0 x 9-0	8-0 x 9-0	8-0 x 8-0	8-0 x 8-0	4-0 x 3-4	10"	33"	100	24"	24"	576	Per NFPA 80 Table 2A	Cylinder Mort. Unit & Cyl. Deadbolt	Rim, Surface, Mortise & CVR	Surface	1" Dia.	Listed Auto or Manual, 24" max.	Mortised, Surface & Semi-mortised	PVC or Metal 48"
60-Minute Dutch	5511	1111	4-0 x 8-0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Per NFPA 80 Table 2A	Cylinder Mort. Unit & Cyl. Deadbolt	N/A	Surface	1" Dia.	N/A	Mortised, Surface & Semi-mortised	PVC or Metal 48"
45-Minute Mineral Core	5545	1345	4-0 x 10-0	4-0 x 10-0	8-0 x 9-0	8-0 x 9-0	8-0 x 8-0	8-0 x 8-0	4-0 x 3-4	30"	54"	1296	24"	24"	576	Per NFPA 80 Table 2A	Cylinder Mort. Unit & Cyl. Deadbolt	Rim, Surface, Mortise & CVR	Surface	1" Dia.	Listed Auto or Manual, 24" max.	Mortised, Surface & Semi-mortised	PVC or Metal 48"
45-Minute Dutch	5511	1111	4-0 x 8-0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Per NFPA 80 Table 2A	Cylinder Mort. Unit & Cyl. Deadbolt	N/A	Surface	1" Dia.	N/A	Mortised, Surface & Semi-mortised	PVC or Metal 48"
20-Minute Particle Board	5502	101 303 404	4-0 x 10-0	4-0 x 10-0	8-0 x 9-0	8-0 x 10-0	8-0 x 9-0	8-0 x 10-0	8-0 x 3-4	30"	54"	1296	N/A	N/A	N/A	Per NFPA 80 Table 2A	Cylinder Mort. Unit & Cyl. Deadbolt	Rim, Surface, Mortise & CVR	Surface or Mortised	1" Dia.	Listed Auto or Manual, 24" max.	Mortised, Surface & Semi-mortised	PVC or Metal 48"
20-Minute SCL (Timber strand)	5508	808	4-0 x 10-0	4-0 x 10-0	8-0 x 9-0	8-0 x 10-0	8-0 x 9-0	8-0 x 10-0	8-0 x 3-4	30"	54"	1296	N/A	N/A	N/A	Per NFPA 80 Table 2A	Cylinder Mort. Unit & Cyl. Deadbolt	Rim, Surface, Mortise & CVR	Surface or Mortised	1" Dia.	Listed Auto or Manual, 24" max.	Mortised, Surface & Semi-mortised	PVC or Metal 48"
20-Minute Stave	5507	707	4-0 x 10-0	4-0 x 10-0	8-0 x 9-0	8-0 x 10-0	8-0 x 9-0	8-0 x 10-0	8-0 x 3-4	30"	54"	1296	N/A	N/A	N/A	Per NFPA 80 Table 2A	Cylinder Mort. Unit & Cyl. Deadbolt	Rim, Surface, Mortise & CVR	Surface or Mortised	1" Dia.	Listed Auto or Manual, 24" max.	Mortised, Surface & Semi-mortised	PVC or Metal 48"
20-Minute Dutch	Same as 20-Minute	Same as 20-Minute	4-0 x 8-0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Per NFPA 80 Table 2A	Cylinder Mort. Unit & Cyl. Deadbolt	N/A	Surface or Mortised	1" Dia.	N/A	Mortised, Surface & Semi-mortised	PVC or Metal 48"
20-Minute STC 39	5540	1240	4-0 x 8-0	N/A	N/A	N/A	N/A	N/A	N/A	Non-rated STC doors available with 6"x36" (216 sq. in.) max. lite kit.			N/A	N/A	N/A	Per NFPA 80 Table 2A	Cylinder Mort. Unit & Cyl. Deadbolt	N/A	Surface	1" Dia.	N/A	Mortised, Surface & Semi-mortised	PVC or Metal 48"
20-Minute STC 45	5550	1250	4-0 x 8-0	N/A	N/A	N/A	N/A	N/A	N/A	20-Minute STC doors must use std. 110 vision panel. STC rating void.			N/A	N/A	N/A	Per NFPA 80 Table 2A	Cylinder Mort. Unit & Cyl. Deadbolt	N/A	Surface	1" Dia.	N/A	Mortised, Surface & Semi-mortised	PVC or Metal 48"

20-Minute Lead Lined	5515	1515	4-0 x 8-0	N/A	N/A	8-0 x 8-0	N/A	N/A	N/A	16"	16"	256	N/A	N/A	N/A	Per NFPA 80 Table 2A	Cylinder Mort. Unit & Cyl. Deadbolt	Rim, Mortised & Surface Vert. Rod	Surface	1" Dia.	Listed Auto or Manual, 12" max.	Mortised, Surface & Semi-mortised	PVC or Metal 48"
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*Larger lite sizes available with special glass & stops.

MISCELLANEOUS NOTES:

FIRE RATED TRANSOMS

1. Frame transom bar or astragal required if the meeting rails are square.
2. No transom bar or astragal required if meeting rails have 1/2" rabbet with G.P. FireStop™ material (2" meeting rails @ 20-minute and 5" @ 45- through 90-minute).
3. Springbolts for transoms & side panels shall be placed 3" (76 mm) from each corner with the minimum number centered on each side as follows:
 - Panels up to 18" (457 mm) in height - 2 spring bolts per side
 - Panels up to 36" (914 mm) in height - 3 spring bolts per side
 - Panels up to 48" (1219 mm) in height - 4 spring bolts per side
 - Side Panels over 48" (1219 mm) in height – 18" (457 mm) on center

MACHINING OF DUTCH DOORS

All preparations and requirements of the current edition of NFPA 80 shall be followed.

Hinges: Per NFPA 80, Table 2-8.1.1.

Cylindrical Locksets: One (maximum 2-1/8"/54 mm bore) per leaf to provide latching between top and bottom leaves and into the frame, or from top and bottom leaves into frame.

(Neutral Pressure) Maximum Opening Sizes For Fire Rated Pairs With Metal Edges

Hardware Prep	Standard Pair (Single Egress)				Double Egress Pair			
	20-Minute	45-Minute	60-Minute	90-Minute	20-Minute	45-Minute	60-Minute	90-Minute
3-Point Latching	8-0 x 10-0	8-0 x 8-0	8-0 x 8-0	8-0 x 8-0	8-0 x 8-0	6-0 x 7-0	6-0 x 7-0	6-0 x 7-0
Surface Vertical Rod Exit Device	8-0 x 10-0	8-0 x 9-0	8-0 x 9-0	8-0 x 9-0	8-0 x 10-0	8-0 x 8-0	8-0 x 8-0	8-0 x 8-0
Rim x Rim	N/A	8-0 x 8-0	8-0 x 8-0	8-0 x 8-0	N/A	N/A	N/A	N/A
Surface LBR	8-0 x 9-0	8-0 x 8-0	8-0 x 8-0	8-0 x 8-0	8-0 x 9-0	N/A	N/A	N/A
Concealed Vertical Rod	8-0 x 9-0	8-0 x 9-0	8-0 x 9-0	8-0 x 9-0	8-0 x 9-0	8-0 x 8-0	8-0 x 8-0	8-0 x 8-0
Concealed LBR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

- Dimensions given are maximum opening sizes. Specific hardware requirements may affect opening size.
- Specific hardware may affect the amount of blocking needed.
- Specific hardware may require the use of intumescent.
- LBR devices require the use of thermal pins (door to floor/sill).
- All Metal Stamping astragals and edge sets may be veneer wrapped. Please specify.

(Neutral Pressure) Maximum Opening Sizes For Fire Rated Pairs Without Metal Edges

Hardware Prep	Standard Pair (Single Egress)				Double Egress Pair			
	20-Minute	45-Minute	60-Minute	90-Minute	20-Minute	45-Minute	60-Minute	90-Minute
3-Point Latching	8-0 x 10-0	8-0 x 8-0	8-0 x 8-0	8-0 x 8-0	8-0 x 10-0	N/A	N/A	N/A
Surface Vertical Rod Exit Device	8-0 x 10-0	8-0 x 8-0	8-0 x 8-0	8-0 x 8-0	8-0 x 10-0	8-0 x 8-0	8-0 x 8-0	8-0 x 8-0
Rim x Rim	8-0 x 10-0	8-0 x 8-0	8-0 x 8-0	8-0 x 8-0	N/A	N/A	N/A	N/A
Surface LBR	8-0 x 9-0 Thermal Pin: door to door	8-0 x 8-0* Thermal Pin: door to door	8-0 x 8-0* Thermal Pin: door to door	8-0 x 8-0 Thermal Pin: door to door	8-0 x 9-0 Thermal Pin: door to door	8-0 x 8-0 Thermal Pin: door to door	8-0 x 8-0 Thermal Pin: door to door	8-0 x 8-0 Thermal Pin: door to door
Concealed Vertical Rod	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Concealed LBR	8-0 x 9-0	8-0 x 8-0	8-0 x 8-0	8-0 x 8-0	8-0 x 9-0	8-0 x 8-0	8-0 x 8-0	8-0 x 8-0

- Dimensions given are maximum opening sizes. Specific hardware requirements may affect opening size.
- Specific hardware requirements may affect the amount of blocking needed.
- Specific hardware requirements may require the use of intumescent.
- LBR devices require the use of thermal pins applied door to floor/sill (unless noted otherwise).