

## RACEWAYS & RACEWAY WIRES

A raceway in a door provides wire access through the door core and is required when electric hardware is specified.

### Raceway Capabilities Chart:

DOOR TYPE	RACEWAY DIMENSION	VT SUPPLIED WIRE	CUSTOMER SUPPLIED WIRE	RACEWAYS WITH LITES OR PANELS
FLUSH HOLSTEIN NON-RATED 20-90-MINUTE	3/4" W X 1/2" H	12 wires, 22AWG, Unpinned, no connectors	Connectors on one end only  Wires supplied with connectors on both ends will have one end cut and discarded	Raceway routed shortest distance around cutout  VT installed glass/Wires not installed - one side of stops will be provided loosely tacked for field installation
	3/8" W X 3/8" H at 45-minute WSPC			
FLUSH NEENAH/TWO RIVERS NON-RATED 20-90-MINUTE	3/4" W X 1/2" H	12 wires, 22AWG, Unpinned, no connectors	Connectors on one end only  Wires supplied with connectors on both ends will have one end cut and discarded	Raceway routed shortest distance around cutout  VT installed glass requires wires to be installed
	3/8" W X 3/8" H EPT to Exit Device Raceway	Electrolynx 12 wires, 22AWG, Pinned and connector one end		
STILE & RAIL TWO RIVERS NON-RATED 20-MINUTE	5/16" W X 5/16" H Perimeter Groove	8, 10, or 12 wires, 22AWG, Unpinned, no connectors	Unavailable	5/16" x 5/16" raceway routed around the design layout (lite/panel) or 3/8" diameter through mid- rail
	3/8" Diameter Raceway	Electrolynx 8, 10, or 12 wires, 22AWG, Pinned and connector one end  No CAT/POE		
STILE & RAIL TWO RIVERS 45-90-MINUTE	3/8" W X 3/16" H	8 wires, 22AWG, Unpinned, no connectors  No Electrolynx or CAT/POE	Unavailable	Raceway routed around the design layout (lite/panel)

### Raceway to Electric Hardware/Glass:

- Cat/POE wire cannot be supplied by VT but can be customer supplied for VT installation
  - See customer supplied raceway wires section below
- Pull wires/pull strings will not be provided when wires are not installed
- Engineering approval required for electrified glass

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### **Raceway Start Point:**

- Raceway start points can begin at the hinge/pivot, hinge edge, EPT, or door loop
  - EPT unavailable at 45-90-Minute Stile & Rail, must be electric hinge

### **Raceway End Point:**

- Raceway end points can be at lock, strike, back of exit bar, electrified glass, or door position switch, subject to fire approvals
- EPT face holes to be drilled in the field as standard
  - Neenah / Two Rivers EPT to Exit Device Raceway (see below) may require drilling at an angle from the back of push bar location to raceway location

### **Wires Installed By VT:**

- Expect 4-6" extra wire length when VT supplies wires
- When raceway end point is at hinge edge of the exit device push bar, VT will not install wires due to field installation of hardware

### **Customer Supplied Raceway Wires:**

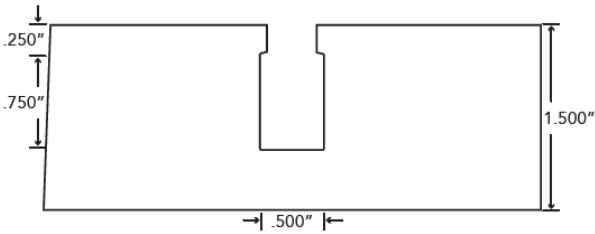
- VT will work with customer supplied raceway wires within the following requirements and limitations:
- Flush doors only (excluding Stile & Rail doors)
- Wires must be supplied with no connectors or a connector on one end
  - If wires are supplied with connectors on both ends, the hinge edge connectors will be trimmed and disposed of at VT.
- VT Project Number and Shop/Order Number must be listed on the packaging
- Each raceway wire must be separately packaged & labeled with corresponding door number
- Shipment tracking will be required before the door order will be released to production
- Orders will not proceed until the above specified information is provided
- Confirm facility location to send wires to with your Detailer
- Door lead time is dependent upon receipt of raceway wires by VT
  - Delays caused by insufficient material supplied to VT or invalid information is not the responsibility of VT and may result in shipment delays and/or additional costs
- Contact your Customer Service Representative if you have any questions surrounding customer supplied raceway wires

### **Wires for Field Installation:**

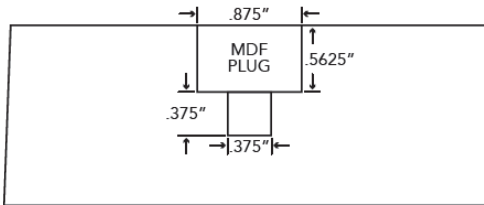
- Stile & Rail Doors with perimeter groove around lite or panel will have wood bead press fit and taped when wires are not factory installed. Wire must be installed and wood bead nailed in the field
- Flush doors will have standard VT wire installed when glass is requested factory installed. (Neenah/Two Rivers)
- Flush doors will have wood bead loosely fit on one side when glass is requested factory installed, no wire or pull provided. Loose stops to be removed and installed with wire installation (Holstein)

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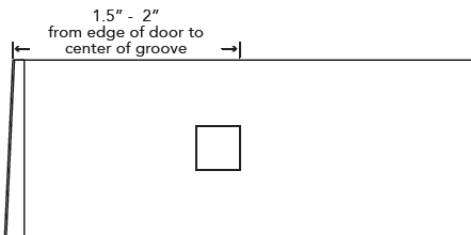
**Flush Raceway – Non-Rated – 90-minutes (Except 45-min WSPC):**



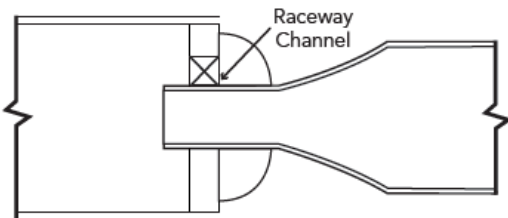
**Flush Raceway – 45-minute WSPC (Agrifiber):**



**EPT to Exit Device Raceway - Neenah / Two Rivers:**



**Stile & Rail Perimeter Groove Raceway:**



**Related Resources:**

- [Technical Bulletin: Electric & Open Back Strikes](#)
- [EPT Device Approval on 20-Minute through 90-Minute Fire Doors Technical Bulletin](#)