VON DUPRIN®

WS-T-9827/9927
WS-T-9857/9957

Multi-Point Exit Devices: Certified to ICC 500 (2020)

WS-T-9827 shown

Overview

The Von Duprin® 98/99 Series exit device is designed to withstand the toughest of environments. In accordance with ICC 500 (2020) standard for wind and storm shelters required by the 2021 International Building Code (IBC 2021), Von Duprin offers a Windstorm Tornado (WS-T) option on multi-point exit devices for single doors or door pairs. The two-point WS-T 98/9927 exit device for door pairs and three-point WS-T 98/9957 exit devices for single doors incorporate reinforced components to help ensure the building and its occupants are kept safe from wind and projectile debris. These devices are third party tested to comply with ICC-500 (2020) standards and FEMA P-361 (2021) guidelines when installed on Steelcraft listed and labeled Tornado Resistant Assemblies.

Windstorm Tornado devices may be required on perimeter doors or on doors to mixed-use shelters or safe rooms such as classrooms, auditoriums, and cafeterias.

During storm events, the ICC 500 standard requires latching hardware to be latched. To facilitate compliance with the standard, Windstorm Tornado devices are shipped Less Dogging by default. However, if mechanical or electrified dogging is desired, thumbturn cylinder dogging or electric latch retraction with emergency secure lockdown may be used. During a storm event, these options allow for quick undogging of the device.

During storm events, the ICC 500 standard also requires operating hardware on the non-egress side to be locked. Von Duprin® uses the -2 or -2SI device option to allow the outside active lever to be safely locked from inside the shelter. Lever trim with locking cylinder on the storm side is not offered.

Since pioneering the first exit device in 1908, Von Duprin life safety products have provided unparalleled quality, performance and flexibility for schools, hospitals, stadiums and public buildings. These products come with the support and customer care only offered by Von Duprin, providing the confidence and peace of mind at critical moments of life safety.

Features & Benefits

- Designed to endure tornado force winds and flying debris
- Uniquely designed center case
- Reinforced top and bottom latch housing with strengthening strap
- Top soffit latch with reinforced ratchet release bracket
- Cast latch covers
- Stronger latch mounting screws
- Thru-bolted attachment points
- Lockdown security indicator options provide peace of mind

WS-T-9827/9927 Windstorm Ratings

- Flush door pair applications:

  Minimum 6'0" x 6'8" and maximum 8'0" x 8'0" flush Steelcraft Tornado Resistant Pair Assemblies (swinging same direction)

- ICC 500, FEMA P-361, cand International Building Code Compliant:
  - Listed and labeled for ICC 500 Standard for the Design and Construction of Storm Shelters.
    - Design pressure +/- 243 PSF
    - 15 pound 2 x 4 at 100 mph
  - Listed for Panic and Fire-Rated Exit Hardware
    - Fire exit hardware listed for 90-minute UL10C for door pairs (swinging same direction)
    - Panic Hardware UL305 listed
  - ANSI/BHMA A156.3 Grade 1
- WS-T-9827/9927 is suitable for use in Enhanced Hurricane Protection Areas. See Allegion-Schlage Lock Company, LLC. Florida product approval FL41734.

WS-T-9857/9957 Windstorm Ratings

- Flush single door applications:

  Minimum 3'0" x 6'8" and maximum 4'0" x 8'0" flush Steelcraft Tornado Resistant Single Door Assemblies

- ICC 500, FEMA P-361, and International Building Code Compliant:
  - Listed and labeled for ICC 500 Standard for the Design and Construction of Storm Shelters.
    - Design pressure +/- 252 PSF
    - 15 pound 2 x 4 at 100 mph
  - Listed for Panic and Fire-rated Exit Hardware
    - Fire exit hardware listed for 3 hour UL10C (single doors)
    - Panic Hardware UL305 listed
  - ANSI/BHMA A156.3 Grade 1
- WS-T-9857/9957 is suitable for use in Enhanced Hurricane Protection Areas. See Allegion-Schlage Lock Company, LLC. Florida product approval FL41734.

Note: The Von Duprin WS-T exit device options must be installed on Steelcraft Tornado Resistant Assemblies that are tested to ICC 500 and FEMA standards. Tornado assembly components are approved and certified as an assembly and cannot be mixed and matched. These components include the frame, door, hinges, anchors, and latching hardware. Proper installation of tornado doors is critical. It is recommended to have a pre-installation meeting with the contractor, specifier, door supplier, and installer to discuss the installation. Steelcraft Tornado Resistant Assemblies that include glass lights and continuous hinges tested for ICC 500 with WS-T 98/9927 pairs are currently not available. View the Steelcraft Tech Data Manual for the most up-to-date testing and assembly information.

Specifications	
Device functions	Device ships EO (Exit only) DT, L-DT, L-BE-2, L-KC
Device lengths	3': 2' 4" to 3' (71mm to 914mm) door size 4': 2' 10" to 4' (864mm to 1219mm) door size
Strikes	Bottom – WS-T-304L (WS-T-98/9927) or 304L (WS-T-9957); Middle – 499F (WS-T-9957 only)
Mechanical options	-2SI - Double cylinder with security indicator CD - Cylinder dogging* CDSI - Cylinder dogging, security indicator* WS-T devices furnished less dogging, except when CD/CDSI is specified (non-fire-rated devices only). *WS-T devices with CD/CDSI option must utilize a thumbturn cylinder. A keyed cylinder is not permitted.
Electrical options	LX - Latchbolt monitor switch RX - Push pad monitor switch RX-2 - Double push pad monitor switch SS - Signal switch QEL/ESL - Quiet Electric Latch/Emergency Secure Lockdown
Fasteners & through bolts (SNB)	Included for 1-3/4" (44mm) metal doors SNB furnished for top & bottom latches and device (required)
Device centerline from finished floor	39-1/2" (1003mm)
Door undercut	1/4" (7mm)
Center case dimensions	8" x 2-3/4" x 2-3/8"
Mechanism case dimensions	2-1/4" x 2-1/4" (57mm x 57mm)
Top & bottom latch case	4-1/2" x 2-1/2" x 1-7/8" (114mm x 64mm x 48mm)
Vertical rods	1/2" (13mm) round stainless steel tubing, standard rods accommodate 7' (2134mm) doors Top extension rod furnished for doors over 7'
Projection	Pushbar neutral – 3-13/16" (97mm) Pushbar depressed – 3-1/16" (78mm)
Finishes	605, 606, 612, 625, 626, 628, 313, 315, and 630* *630 available on WS-T 9827 and WS-T 9857 only

Trim Guide

Trim Function	Exit Only (EO)	Dummy Trim (DT)	Dummy Trim, Less Control (DT)	Lever - Key Capture (L-KC)	Lever - Blank Escutcheon (L-BE)-2/-2SI option	Lever - Dummy Trim (L-DT)	Lever - Dummy Trim (L-DT) Less Control
Product Description	WS-T-9927-EO WS-T-9827-EO WS-T-9957-EO WS-T-9857-EO	WS-T-9927-DT WS-T-9827-DT WS-T-9957-DT WS-T-9857-DT	WS-T-9927-DT-less control WS-T-9827-DT-less control WS-T-9957-DT-less control WS-T-9857-DT-less control	WS-T-9927-L-KC WS-T-9827-L-KC WS-T-9957-L-KC WS-T-9857-L-KC	WS-T-9927-L-BE-2SI WS-T-9827-L-BE-2SI WS-T-9957-L-BE-2SI WS-T-9857-L-BE-2SI	WS-T-9927-L-DT WS-T-9827-L-DT WS-T-9957-L-DT WS-T-9857-L-DT	WS-T-9927-L-DT-less control WS-T-9827-L-DT-less control WS-T-9957-L-DT-less control WS-T-9857-L-DT-less control
Supplied Trim	None	377T-KC x 990DT	990DT	996L-KC	377T-KC x 996L-BE-2	377T-KC x 996L-DT	996L-DT
Projection		2" (51 mm)	2" (51 mm)	2 7/8" (73mm)	2 7/8" (73mm)	2 7/8" (73mm)	2 7/8" (73mm)
ANSI Function	1	12	2	9	12, 14	12	2
Cylinder Type		1 1/4" (32mm) mortise		Rim	1-1/4" (32mm) mortise	1-1/4" (32mm) mortise	
FAQ	1. Is a nightlatch function available (key retracts latchbolt, ANSI function 03)? Tornado device vertical rods are too heavy for trim with key-only operation. Instead, use the KC (key capture) trim: 996L-KC (ANSI function 9) or 377T-KC (ANSI function 12). While the key is turned, the lever or thumbturn can retract the latches. When the key is removed, the trim is locked. (See options 2, 3, and 5 on next page.) 2. Is a classroom function available (key locks/unlocks lever, ANSI function 05)? Order the L-BE-2SI device, and an active lever trim that can be locked and unlocked will be furnished. But, since this is a tornado shelter product, the lever locking/unlocking must occur from the secured (device) side using the -2SI cylinder. For -2SI application, a 377T-KC is provided in addition to the lever trim. The 377T-KC allows pull-side momentary key override during lockdown. (See option 1 on next page.)						

Compliant WS-T Trim Choices

ICC 500 requires the exterior lever to be locked or rigid during a storm. The 996L-Trim option is not available with the WS-T option due to this requirement.

The following three Von Duprin trim options allow for day-to-day ingress without a mechanical key. They also enable lockdown functionality, providing ICC 500 compliance. When using lockdown options, security indicator (SI) versions are recommended. They enhance visual awareness during a storm event.

Option 1: You require a device that always latches and an exterior lever that can be locked and unlocked until lockdown.

Option	Inside Cylinder	Trim	Function
Double Cylinder with Security Indicator (-2SI)	Keyed or thumbturn	996	L-BE-2
		and	
		377	T-KC

In a storm event, a user can see the lever trim's status via the indicator to quickly determine if the trim needs to be locked, which is done via the inside thumbturn or key. A key can be used to enter from the outside during lockdown. The door returns to a locked state as soon as the key is removed.

Option 2: You require access control to to be able to retract the latch until lockdown.

Option	Inside Cylinder	Trim	Function
Quiet Electric Latch retraction (QEL) with Emergency Secure Lockdown (ESL)	Keyed or thumbturn	996	L-KC
		or	
		377	T-KC

In a storm event, the user engages the thumbturn which prompts ESL to interrupt power to QEL motor, disabling card access and electronic dogging. A key can be used to enter from the outside during lockdown. The door returns to a locked state as soon as the key is removed.

Option 3: You require an exterior lever that is always locked and requires key for entry but want the ability to mechanically dog the device until lockdown. (Opening must be non-fire rated.)

Option	Inside Cylinder	Trim	Function
Cylinder Dogging Security Indication (CDSI)	Thumbturn only	996	L-KC 377T-KC

Note: 377T-KC is not ADA compliant

In a storm event, the user can quickly see via the indicator whether the device is dogged or undogged. If dogged, the user twists the thumbturn to undog the door. A key can be used to enter from the outside during lockdown. The door returns to a locked state as soon as the key is removed.

The following Von Duprin trim options allow for fixed outside trim, providing ICC 500 compliance:

Option 4: You require an exterior that is exit only

Option	Inside Cylinder	Trim	Function
Exit only	NA	NA	EO

There is no exterior lever, so no action is needed during storm event.

Option 5: You require trim that is always locked and requires key for entry

Option	Inside Cylinder	Trim	Function
Always locked	NA	996	L-KC

Exterior is always locked and can only be operated with use of mechanical key. No action is needed during storm event.

To support ADA compliance, extended latch guards for rods are recommended (WS-LGO-3 and WS-LGO-4) but they are not required for ICC 500 compliance.

Ordering Information

WS-T	-	98	-	27	-	L-BE	-	F	-	-2SI	-	626	-	3'	-	LHR	-	06
Option (Prefix)		ICC 500		Device Series		Device Type		Trim Function		Rating		Suffix		Finish		Door Width		Handing		Lever Style
1		2		3		4		5		6		7		8		9		10		11

Selections correspond with the numbers above.

1 Device Option (Prefix)	
CD	Cylinder dogging
CDSI	Cylinder dogging security indicator
ESL	Emergency Secure Lockdown
LX	Latch bolt monitoring
RX	Request to exit
RX2	Double request to exit
SS	Signal switch
QEL	Quiet electric latch retraction

2 Storm Rating	
WS-T	Windstorm Tornado

3 Device Series	
98	Series 98 - smooth
99	Series 99 - grooved

4 Device Type	
27	Two point latch surface-mounted vertical rod device
57	Three point latch surface-mounted vertical rod device

5 Trim Function	
EO	Exit only
DT	Dummy trim
L-DT	Lever, rigid - dummy trim
L-BE	Lever - blank escutcheon*
L-KC	Lever - key capture trim

*Specify for -2SI option

6 Rating	
F	Fire exit device
	Panic hardware

7 Suffix	
-2	Double cylinder
-2SI	Double cylinder with security indicator
CON	Connectors

8 Finish	
605	Brass, polished
606	Brass, satin
612	Bronze, satin
625	Chrome, polished
626	Chrome, satin
628	Anodized, aluminum
313	Dark bronze
315	Black
630*	Stainless steel, satin

*For the WS-T-9827 and WS-T-9857 devices only

9 Door Width	
3'	Device (2'4" - 3' door size)
4'	Device (2'10" - 4' door size)

10 Handing*	
LHR	Left hand reverse
RHR	Right hand reverse

*WS-T devices are handed and not field reversible.

11 Lever Style

Refer to 98/99 Series catalog for lever style options

Example Configurations

	Specify	Supplied Trim	Partial Sample Allegion Catalog Number (ACN)*
Storm Rating	WS-T	NA	NA
Device	9827/9927	NA	NA
Function	EO DT x less control DT L-DT x less control L-DT L-BE -2 or -2SI L-KC	None 990DT 990DT x 377T-KC 996L-DT 996L-DT x 377T-KC 996L-BE -2 x 377T-KC 996L-KC	WS-T-9827-EO WS-T-9827-DT-less control WS-T-9827-DT WS-T-9827-L-DT-less control WS-T-9827-L-DT WS-T-9827-L-BE-2SI WS-T-9827-L-KC
Options	CD CDSI QEL/ESL LX, RX CON (suffix)	NA	CD-WS-T-9827-L-KC CDSI-WS-T-9827-L-KC QELA-ESL-WS-T-9827-L-KC

* In addition to the sample descriptions shown above, specify finish, door width and height, handing (device is not field reversible), desired options and fire listing (if applicable)

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