

Customer Bulletin

September 18, 2024

ICC500-2020 Severe Weather Solutions

The International Code Council (ICC) published a standard for the design and construction of storm shelters in 2020. This standard, the *ICC 500 - 2020*, is referenced in the 2021 International Building Code. The prior version of the ICC 500 standard was dated 2014 (*ICC 500-2014*).

The *ICC 500 - 2020* standard requires:

- System to meet robust testing criteria against wind and debris conditions
- Outside levers to be rigid or locked during a storm event
 - Levers that are not always locked must be able to be quickly locked from the inside. Signage provided by the General Contractor should instruct users on lockdown.

Allegion's ICC 500 Offering

In Q2 2024, Allegion began offering select assemblies that are certified and labeled in compliance with the *ICC 500 - 2020* standard. These assemblies include a Steelcraft Paladin door and frame and a secure locking device from Schlage or Von Duprin.

Some noteworthy hardware requirements based on *ICC 500 - 2020* guidelines, 3rd party testing interpretations, and internal expertise are:

- WS-T option must be used in Von Duprin configurations
- Von Duprin devices that allow external unlocking include an indicator

Paladin Series doors and FP14 frames are available with factory attached labels for *ICC 500 - 2020* in the configurations shown below.

**ICC 500-2020
ALLEGION Approved
Latching Hardware**
Current Offering

The Paladin™ Series door systems (PW14 Series doors and FP14 Series frames) are available in compliance with the international building code, FEMA 320/361 (2021), and ICC 500-2020 with factory-applied Intertek or UL labels signifying compliance with approved product listings.

(Updated 8/26/24)

ICC 500-2020 Allegion assembly approved tornado hardware		Latching hardware			Single-Outswg		Single-Inswg		Pair-Outswg		Pair-Inswg		Notes
		Exit	Rod	Latches	Tornado	Fire	Tornado	Fire	Tornado	Fire	Tornado	Fire	
LEVERS	Schlage LM9300 MultiPoint	Lever	CVR	3-point	320/361	3hr	320/361	3hr	320/361	3hr	n/a	n/a	Active x Inactive
	Schlage LM9300 for Shutters	Lever	CVR	3-point	320/361	3hr	320/361	3hr	n/a	n/a	n/a	n/a	n/a
	Securitech 52xx-V	Lever	CVR	2-point	320/361	n/a	n/a	n/a	320/361	90m	n/a	n/a	Active x Active
	Securitech 53xx/54xx	Lever	CVR	3/4-point	320/361	3hr	n/a	n/a	320/361	3hr	n/a	n/a	Active x Inactive
	Securitech 7L, 83/84L	Lever	CVR	3/4-point	320/361	3hr	n/a	n/a	320/361	3hr	n/a	n/a	Active x Inactive
	Medeco and Schlage ND / Falcon T	Lever	n/a	3 DB's	n/a	n/a	320	3hr	n/a	n/a	n/a	n/a	FEMA 320, <16 occupants
PANIC EXITS	Von Duprin WS-T-98/9927(F) exit	Panic bar	SVR	2-point	n/a	n/a	n/a	n/a	*320/361	90m	n/a	n/a	Active x Active
	Von Duprin WS-T-98/9957(F) exit	Panic bar	SVR	3-point	320/361	3hr	n/a	n/a	n/a	n/a	n/a	n/a	499F center strike
	Securitech 7T/7C	Panic bar	CVR	3/4-point	320/361	3hr	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	Securitech 83/84T/C (pair 83T)	Panic bar	CVR/SVR	3/4-point	320/361	3hr	n/a	n/a	320/361	n/a	n/a	n/a	Active x Inactive
Not available: Contact your HMS		LM9300 Inswing Pairs. Shutter Pairs. *Glass light and Continuous hinge options for WS-T-98/9927 Pairs.											

Currently, ICC500-2020 labels are not available for:

- LM9300 Inswing Pairs
- Shutter Pairs
- Glass lights on WS-T 98/9927 pairs
- Continuous hinges on WS-T 98/9927 pairs

For ICC 500-2014 label requests, please contact your Hollow Metal Specialist prior to ordering.

For complete Assembly Approvals, see Approved Paladin Tornado Hardware Offering Approvals section in the [Steelcraft Technical Data Manual](#). For WS-T pairs, see the [UL Outswing Pair listing](#).

Steelcraft Paladin Doors and FP Frames

Paladin doors are specifically designed for tornadoes and have a specially designed steel-stiffened core and reinforced construction for maximum duty usage. When paired with the FP14 frame and WS-T exit devices or LM9300 series locks, the assembly withstands tornado conditions.

Von Duprin WS-T98/9927 and WS-T-98/9957 Exit Devices

The Von Duprin 98/99 series has a new WS-T option for 27 surface mounted vertical rods with two-point latching for pairs and 57 surface vertical rod with three-point latching for singles. This new WS-T option differs from a design perspective from the previous WS option, and these enhancements enable it to meet *ICC 500 - 2020* requirements.

Compliant WS-T Trim Choices

ICC 500 - 2020 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 unlocked outside trim and enable a lockdown functionality with indication, providing *ICC 500 - 2020* compliance.

Option 1: You require an exterior lever that remains unlocked/active until lockdown and always latches

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

In a storm event, a user can see the lock's status via the indicator to quickly determine if the door needs to be locked, which is done via 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 retract the latch when a credential is presented until lockdown

Option	Inside Cylinder	Trim	Function
Quiet Electronic Latch Retraction (QEL) with Emergency Secure Lockdown (ESL)	Keyed or thumbturn	996	L-KC
		<i>or</i>	
		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 but want the ability to mechanically undog the door until lockdown. (Opening must be non-fire rated.)

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

In a storm event, the user can quickly see the latch's status via the indicator to see if the push pad is undogged or dogged. If undogged, the user twists the thumbturn to dog 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.

Note: 377T-KC is not ADA compliant

The following Von Duprin trim options allow for fixed outside trim, providing ICC 500 - 2020 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.

Schlage LM9300 Multi-Point Locks

Schlage LM9300 Multi-Point locks secure the door at three points: top, bottom, and the traditional center latch location.

Option 1: Exit

Option	Outside	Inside
LM9325	No outside trim	Lever only

Option 2: Entrance/Office

Option	Outside	Inside
LM9350	Key cylinder & Lever	Thumbturn & Lever

Option 3: Classroom Security

Option	Outside	Inside
LM9371	Key cylinder & Lever	Key cylinder & Lever

Option 4: Storeroom

Option	Outside	Inside
LM9380	Key cylinder & Lever	Lever only

Note: For the LM9300 pair inactive leaf outswing assemblies, use SB360-WS inside mounted.

LM9310 Passage Set and **LM9370** Classroom are not approved for use in our ICC 500 - 2020 solutions.

Pricing & How to Order

Orders may be submitted to Steelcraft via OEW, email at Steelcraft_Order_Entry@allegion.com, or fax at 800.356.7178.

Von Duprin List Price Configurations

The below list is an example of the WS-T list price addition of \$1,706 for 98/9927 and 98/9957 configured devices.

WS-T-98/9927 - PAIRS

Function	Device Description (3ft)	Lever	Trim and Cylinder Control	Finish	List Price
EO	WS-T-98/9927 - EO	06 (Rhodes)	None	626	\$4,597
DT x less control	WS-T-98/9927 - DT x Less Control		990DT	626	\$4,959
DT	WS-T-98/9927 - DT		990DT x 377T-KC	626	\$6,007
L-DT x less control	WS-T-98/9927 - L-DT x Less Control		996L-DT	626	\$5,257
L-DT	WS-T-98/9927 - L-DT		996L-DT x 377T-KC	626	\$6,305
L-BE -2SI	WS-T-98/9927 - L-BE -2SI		996L-BE -2SI x 377T-KC	626	\$7,272
L-KC	WS-T-98/9927-L-KC		996L-KC	626	\$5,425

WS-T-98/9957 - SINGLES

Function	Device Description (3ft)	Lever	Trim and Cylinder Control	Finish	List Price
EO	WS-T-98/9957 - EO	06 (Rhodes)	None	626	\$5,750
DT x less control	WS-T-98/9957 - DT x Less Control		990DT	626	\$6,112
DT	WS-T-98/9957 - DT		990DT x 377T-KC	626	\$7,160
L-DT x less control	WS-T-98/9957 - L-DT x Less Control		996L-DT	626	\$6,410
L-DT	WS-T-98/9957 - L-DT		996L-DT x 377T-KC	626	\$7,458
L-BE -2SI	WS-T-98/9957 - L-BE -2SI		996L-BE -2SI x 377T-KC	626	\$8,425
L-KC	WS-T-98/9957 L-KC		996L-KC	626	\$6,578

Note: LD is a default at no charge.

Pricing will be updated in the Q4 pricing release.

Schlage List Price Configurations

The below list is an example of the list price for LM9300 devices:

Function	Description	Lever	Trim	Finish	Cylinder	List Price
LM9325	LM9325 06A 626 RH 09-720 10-072 1 3/4"	06 (Rhodes)	A Rose	626	N/A	\$2,197
LM9325	LM9325 06N 626 RH 09-720 10-072 1 3/4"	06 (Rhodes)	N Escutcheon	626	N/A	\$2,212
LM9350	LM9350P6 06A 626 RH 09-720 10-072 1 3/4" 09-544 S123	06 (Rhodes)	A Rose	626	P6	\$2,658
LM9350	LM9350P6 06N 626 RH 09-720 10-072 1 3/4" 09-544 S123	06 (Rhodes)	N Escutcheon	626	P6	\$2,687
LM9371	LM9371P6 06A 626 RH 09-720 10-072 1 3/4" S123	06 (Rhodes)	A Rose	626	P6	\$2,784
LM9371	LM9371P6 06N 626 RH 09-720 10-072 1 3/4" S123	06 (Rhodes)	N Escutcheon	626	P6	\$2,813
LM9380	LM9380P6 06A 626 RH 09-720 10-072 1 3/4" S123	06 (Rhodes)	A Rose	626	P6	\$2,658
LM9380	LM9380P6 06N 626 RH 09-720 10-072 1 3/4" S123	06 (Rhodes)	N Escutcheon	626	P6	\$2,687

Support and Resources

- [WS-T Sell Sheet](#)
- [LM9300 Sell Sheet](#)
- Paladin [webpage](#)
- [Steelcraft Tech Data Manual](#)
- Learn more about ICC 500 from the [ICC](#), [FEMA](#) or [idighardware](#) websites
- Utilize the Overtur Estimate & Order tool in the [Allegion 360 Portal](#) for specific configuration pricing.

Reach out to Steelcraft_Order_Entry@allegion.com with questions.