

ICC 500 and FEMA Approved DF Tornado Offering
Hollow metal with latching hardware

Model	Latching hardware			Single-Outswg		Single-Inswg		Pair-Outswg		Pair-Inswg		Figure	
	Exit	Rod	Latches	Tornado	Fire	Tornado	Fire	Tornado	Fire	Tornado	Fire	Single	Pair
Schlage LM9300	Lever	CVR	3-point	320/361	3 hr	320/361	3 hr	320/361	3 hr	320/361	3 hr	11.4	11.6
Securitech 52xx-V	Lever	CVR	2-point	320/361	n/a	n/a	n/a	320/361	90 m	n/a	n/a		
Securitech 53xx	Lever	CVR	3-point	320/361	3 hr	n/a	n/a	320/361	3 hr	n/a	n/a		
Securitech 7L, 8L	Lever	CVR	3-point	320/361	3 hr	n/a	n/a	320/361	3 hr	n/a	n/a		
ATAR RB-100	Lever	CVR	3-point	n/a	n/a	320 only	3 hr	n/a	n/a	n/a	n/a		
Medeco 3-deadbolts with Schlage ND or Falcon T	Lever	n/a	3-point	n/a	n/a	320 only	3 hr	n/a	n/a	n/a	n/a		
Von Duprin WS98/9927	Panic	SVR	2-point	320/361	n/a	n/a	n/a	320/361	90 m	No	n/a	11.5	11.7
Von Duprin WS98/9957	Panic	SVR	3-point	320/361	3 hr	n/a	n/a	n/a	n/a	No	n/a	11.5*	n/a
Securitech 7T, 7C	Panic	CVR	3-point	320/361	3 hr	n/a	n/a	320/361	n/a	No	n/a		
Securitech 8T, 8C	Panic	SVR	3-point	320/361	3 hr	n/a	n/a	320/361	n/a	No	n/a		

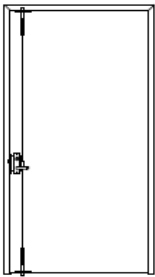


Figure 11.4: LM9300 3-point latch (shown)

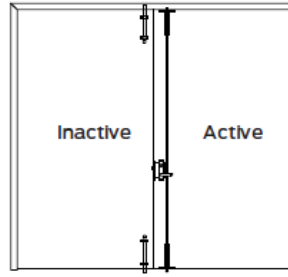


Figure 11.6: LM9300 3-point latch (shown)

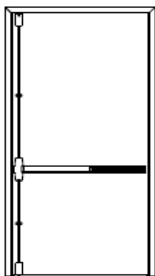


Figure 11.5: WS98/9927 2-point latch (shown)
 WS98/9957 (not shown) is similar but is a 3-point latch, adding a center latch point.

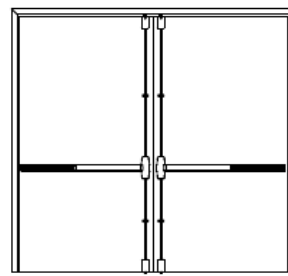


Figure 11.7: WS98/9927 2-point latch (shown)

- Notes:
- 1) ending xx = series
 - 2) SVR = surface vertical rods, CVR = concealed vertical rods
 - 3) LM 9300 Inactive leaf must use IVES SB360 surface bolts. See LM9300 data sheets and installation instructions in the online library at <http://us.allegion.com/en/home/document-library.html> for more information.
 Any levers shown can be used as pair with Ives SB360 surface bolt for inactive leaf.
 - 4) WS devices available with EO (exit only). NL (night latch) not available. Electrical options include LX, RX, RX-2, ALK, SS, QEL, E996L E-Trim. See WS98/9927 data sheets and installation instructions in the online library at <http://us.allegion.com/en/home/document-library.html> for more information.
 - 5) Available glass light options may be added to any PW flush door in a 3-sided frame using Schlage or Von Duprin latching hardware only
 - 6) Tornado Shutters must use Schlage LM9300 latching hardware
 - 7) Panic Bar pair exits use wide inactive leaf (no astragal) except for rare cases where a 3-hour fire rating is required.

- [6\) Intertek tornado listing](#)
- [7\) DF Fire Listing - Frames](#)
- [8\) DF Fire Listing - Doors](#)

ICC 500 and FEMA Approved Paladin Tornado Hardware Offering



[Intertek tornado listing](#)

[FP Fire Listing](#)

[PW Fire Listing](#)

Search UL Product iQ Keywords below/right for hardware fire listings

Type	Brand	Model	Description/Notes	UL Fire listings	
Latches - Panic Exit hardware Outswing only	Von Duprin	WS98/9927 Series	with or without (F) 2-point Panic, SVR (no primary), electrified options. Grout in 304L strike.	R4504 & SA163	
	Von Duprin	WS98/9957 Series			
	Von Duprin	WS-LGO Series		ADA bottom latch guard cover with ramp used with WS98/9927/57	
	Ives	SB360		Manual surface bolt for inactive lever pair and grouted-in 304L strike	R4942
	Securitech	7T/7C Series		3-point, IHD, HVL option (single-only), electric options	R27798
	Securitech	83T, 83C 84T, 84C Series		Autolock, 3-point, 4-point, SBD, IHD, HVL option (single-only) electric options	R27798
Latches - Multi-point Lever hardware Outswing & inswing	Schlage	LM/LMV9300 Series	3-point lock	R27031	
	Von Duprin		CVR used with Schlage 3-point lock	R21149	
Latches - Multi-point Lever hardware Outswing only	Securitech	5200 Series V		2-point, IHD concealed vertical rods (no primary)	R27798
	Securitech	5300 Series, 5400 Series		3 or 4-point, IHD concealed vertical rods, HVL option (single-only)	R27798
	Securitech	73L, 74L, 83L, 84L Series		3 or 4-point IHD/SBD, HVL option (single-only), electrified options	R27798
Latches - Latching hardware for FEMA 320 only Inswing only multi-action release for small business and residential applications <16 occupancy	Securitech	ATAR System RB-100 Series		Multi-latch system with HVL in conjunction with cylindrical locks shown below (3068 thru 4080, call for 28 thru < 30 width)	
	Medeco	Maxum		3 manual deadbolts in conjunction with cylindrical locks shown below	R18248
	Schlage	ND Series		Cylindrical locks used with Medeco Maxum or Securitech ATAR System	R3515
	Falcon	T Series			GWVW
Butt hinges	Ives	3CB1, 3CB1HW, 3CB1NRP, 3CB1HWNRP, 3CB1SH, 3CB1HWSH, 5BB1, 5BB1HW, 5BB1WT, 5BB1NRP, 5BB1HWNRP, 5BB1SH, 5BB1HWSH, 5BB1HW WT		Ives butt hinges - 4.5 High (0.134 Min) or 5 high (0.146 Min)	R16697
	Ives	TW4, TW8		Ives electric hinge options	BP9752
Continuous hinges	Ives	112HD, 112XY, 224HD, 224XY		Ives aluminum geared continuous hinge - nominal leaf thickness 0.110	R16697
	Ives	600, 700, 700Cs, 705		Ives steel pin & barrel continuous hinge - nominal leaf thickness 14 gage	R16697
	Ives	TW8, TWP		Ives electric continuous hinge options	BP9752
Electronic power transfer	Von Duprin	EPT-2, EPT-10			SA163
Surface mounted closers	LCN	4000T, 4010, 4010T, 4020, 4020T, 4030, 4030T, 4040XP, 4040XPT, 4050, 4110, 4110T		All surface mounted closers must be attached to door with through bolts per manufacturer's installation instructions. Covers must be attached with steel screws. 4010, 4040XPT, 4000T & 4050 do not open to 180 degrees, so application should be confirmed.	R1943
	Falcon	FALCON SC70 (heavy duty), SC80A (med duty), SC60A (light duty)			R1943
Surface mount Overhead holder/stop	Glynn Johnson	70S, 79S, 81S, 90S		79 Series does not open to 180 degrees, so application should be confirmed.	R18895
Electronic door closer	LCN	Sentronic 4040SE, 4310ME		4310ME May be mounted on interior or exterior side of storm shelter or safe room. 4040SE exterior side only.	R1943
Auto-door operator	LCN	9542, 9553		To be mounted only to the exterior side of storm shelter or safe room.	R7303
Magnetic holder	LCN	SEM 7800		Extenders not permitted on inswing applications	R8327
Door position switch	Schlage	679-05 (round), 7764 (rectangular)		Must be mortised into the edge or top of the door, and into the door rabbet of the jamb or head of the frame.	
	Sentrol	1076, 1078 (round), 2757 (rectangular)			R13778
Kick plates	Ives	8400 (Metal or plastic), 8402 (metal)		Must be secured with steel screws. 48" Max height bottom of door only.	R22142
Thresholds & gasketing	Zero	multiple		Must not impede or affect the function of the opening or latching hardware. Must grout full in area around strike to secure strike in slab.	R18465
Floor & wall stops/holders	Ives	multiple		Attached to exterior with steel screws per manufacturer's instructions. Interior application must be Ives FS495 through bolted to the door, at the bottom only, minimum 6" from lock or strike side of door.	

Notes:

1) For 1/2" ADA thresholds, the bottom strike should be mounted flush with the top of the threshold. Refer to hardware manufacturer to specify door undercut.

2) Factory installed Vision and ADA Narrow Glass lights rated up to 3 hours.

Nomenclature: SVR & SBD=surface vert rods, CVR & IHD=concealed vert rods, 4-pt=stationary bolt, 98 (smooth) /99 (groove)=touch bar, T=toughbar, C=crossbar, L-lever. www.allegion.com/us

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