

MultiPoint Lock Tornado Shutter

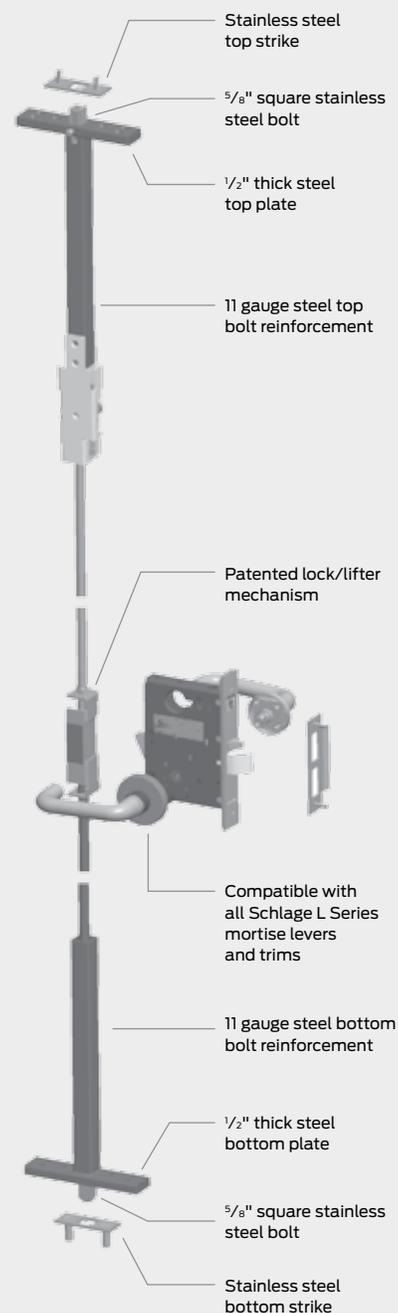
for tornado storm
shutter applications

Overview

Multipoint Lock Tornado Shutter is specifically designed to secure window openings during tornadoes. Mounted on the inside of the room to protect occupants from flying glass and debris, Multipoint Lock Tornado Shutter is an integrated system consisting of a 4-sided frame and a shutter with a unique 3-point locking system specifically designed to meet all guidelines set forth in the FEMA 361 and 320 standards as well as ICC 500 for protection in tornadoes. The patented system secures the shutter to the frame at 3 locations - the top, bottom, and center latch points - and has been tested to withstand the most powerful EF5 tornadoes, providing protection from windspeeds up to 250 mph and 15 lb. projectile impacts up to 100 mph.

Features and benefits

- Six available functions supporting a wide range of applications
 - Passage, exit, storeroom, classroom, classroom security, and office/inner entry (exit function recommended for shutter applications)
 - VandlGard® available for additional protection from forced entry
- Compatible with all Schlage Mortise lock key systems
 - Standard, FSIC and SFIC key systems available
 - Patented key systems, including Everest 29™ with patented keyway through 2029
- Compatible with all Schlage L Series Mortise trims and finishes
 - 31 lever designs allow complete suiting with Schlage L Mortise and LT Tubular locks along with Von Duprin exit devices.
 - Sectional (rose) or escutcheon trim
 - 13 different finishes
- Seamless operation
 - FEMA/ICC compliant when door is shut - no secondary operation required
 - Handle rotation retracts all three latches; closing door re-engages all latches
- Simple installation
 - Vertical rods pre-assembled and factory aligned in door
 - Mortise lock can be installed/removed with door installed
- Wide range of shutter sizes available (for use with Steelcraft Paladin door and frame systems only)
 - 2' 6" x 3' 1" minimum to 4' 0" x 8' 0" maximum single door (inswinging only)
 - 5' 2" x 3' 1" minimum to 8' 0" x 8' 0" maximum pair doors (inswinging only)
- Certifications
 - UL approved to FEMA 361 and FEMA 320 guidelines and ICC 500 test standards for inswinging and outswinging single and pair of doors
 - UL10C 3 hour fire rating available



Note: This datasheet is for MultiPoint Lock Tornado Shutter only. For information on MultiPoint Lock Tornado, Hurricane, or High Security solutions, visit www.allegion.com/us.

Ordering guidelines

The MultiPoint Lock Tornado Shutter solution requires separate orders for the lock, door/shutter (includes the vertical rods), frame and miscellaneous hardware.

MultiPoint Lock Order from Schlage using the Schlage order form as follows:

Function	Trim	Finish	Handing	Options
LM9325	O3A	626	LH	XLxx-xxx

Lock specifications

Function*	LM9310 (passage), LM9325 (exit) - recommended function , LM/LMV9350 (office/entry), LM/LMV9370 (classroom), LM/LMV9371 (classroom security), LM/LMV9380 (storeroom)
Trim**	All L Series levers, knobs, roses, and escutcheons available
Finish**	All L Series finishes available
Handing	LH, RH (Note: must specify handing on order)
Options	All L Series options available except electrified

All other lock parameters pre-defined as part of MultiPoint Lock Tornado Shutter solution, no value required.

*Include cylinder suffix when ordering function. Less cylinder not available on storeroom function. LMV refers to Vandlgard® free-wheeling outside trim option.

**Not all lever/knobs available in all finishes; consult price book or customer care.

MultiPoint Tornado Shutter Order from Steelcraft using the Steelcraft door ordering form as follows (includes vertical rods):

Door type	Width	Height	Hand	Lock prep	Closer prep	Labels	Hinge prep	Inactive leaf	Floor clear
PW	3' 0"	6' 0"	LH	LM9325 rose	Standard	UL 3 hour	5"	As required	1/4"

Door specifications

Door type	PW Series (Paladin)
Width	2' 6" - 8' 0"
Height	3' 1" - 8' 0"
Handing	LH, RH
Lock prep	LM/LMV function, rose or escutcheon trim
Closer prep	Standard
Labels	Optional (UL 20 minute, 45 minute, 1 hour, 90 minute, 3 hour)
Hinge prep	4 1/2", 4 1/2" high frequency top hinge, 5", 5" high frequency top hinge, continuous (full mortise only)
Inactive leaf	Optional (inactive with or without Z-astragal, wide inactive)
Floor clearance	1/4"

All other door parameters pre-defined as part of MultiPoint Tornado Shutter solution, no value required.

For use with Steelcraft PW (Paladin) doors only. Available in F configuration only.

F (flush)

Lock centerlines

Shutter height	Centerline (from top of sill)
3' 1" - 3' 11"	15"
4' 0" - 5' 11"	26"
6' 0" - 8' 0"	39 15/16"

MultiPoint Tornado Shutter Frame Order from Steelcraft using the Steelcraft frame ordering form as follows:

Frame series	4 Sided frame	Gauge	Glazing beads	Jamb depth	Width	Height	Hand	Strike prep	Closer prep	Labels	Hinge prep	Anchors	Head
FP	BLF04	14	pkg. #4702	5 3/4"	3' 0"	6' 0"	LH	LM9325, ASA	Optional	UL 3 hour	5"	EMA	4"

Frame specifications

Frame series	FP for Tornado applications
4 Sided frame	BLF04 for Shutters
Gauge	14
Glazing beads	Optional, for use if installing glass directly to frame (Pkg. 4700: 1/16" width x 5/8" height; Pkg. 4701: 5/8" width x 5/8" height; Pkg. 4702: 1" width x 5/8" height) Glazing beads only available with LM9325 (exit) function. Security screws not included.
Jamb depth	5 3/4" - 10 3/4"
Width	2' 6" - 8' 0"
Height	3' 1" - 8' 0"
Handing	LH, RH for single door; specify active leaf for pairs (LHA, RHA)
Strike prep	LM/LMV function head and sill; ASA strike prep
Closer prep	Standard (specify regular or parallel arm)
Labels	Optional (UL 20 minute, 45 minute, 1 hour, 90 minute, 3 hour)
Hinge prep	4 1/2", 4 1/2" high frequency top hinge, 5", 5" high frequency top hinge, continuous (full mortise only)
Anchors	Wire, EMA, welded EMA
Heads	Optional (4", for new masonry wall construction only)

All other frame parameters pre-defined as part of MultiPoint Tornado Shutter solution, no value required.

Hinges, closers and surface bolts

Hinges must be heavyweight 4 1/2", 5" or continuous (Ives recommended). For inactive leaves, Ives SB360 surface bolts required.