

Original Date
March 28, 2007

Revised Date
January 22, 2008

Mr. M. Prestwich
MailCase
4455 South 700 East #303
Salt Lake City, UT 84107

PO Number
Credit Card

Date Received
March 7, 2007

Specification
USPS-STD-7B

MATERIAL ANALYSIS

IMR Report Number 200702154 - Revision 3 (customer request)

RECEIVED

One Locked mailbox was received for testing to USPS-STD-7B.

SUMMARY

The mailbox **meets** the requirements of USPS-STD-7B.

The results are reported on the following pages.



Reviewed by

Bill DeLaurier for
David Feavearyear
Mechanical Engineer

Reviewed by

Jim Andrews, CWI
Manager, Mechanical & Machine
Shop

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DATA SHEET Locked Mailbox

Criterion	Requirement	Applicable Design	Pass	Fail	Comments
General Design	Easy insertion and retrieval of mail	L	✓		
	No advertisements	L	✓		
Locked Design	Design conforms to or is similar to Figures 2 & 3	L	✓		
	Defined size for incoming mail slot (1.75"H x 10"W)	L	✓		
	Protective flap must operate inward	L	✓		
	Slot must face street	L	✓		
	Slot must be visible and accessible	L	✓		
Materials of Construction	Cannot be toxic, flammable, or transparent	L	✓		
Mailbox Floor	Must prevent moisture damage (including condensation)	L	✓		
	No lip/protrusion that obstructs mail ingress/egress	L	✓		
	Wood construction prohibited	L	✓		
	Floor ribbing per figure or dimpled/embossed per dimensions.	L	✓		
	Mat inserts may be substituted for ribbed/dimpled/embossed floors for the internal mail compartment of locked designs	L	NA		
Carrier Signal Flag	Wood construction prohibited	L	✓		
Door Handle	Wood construction prohibited	L	✓		

Criterion	Requirement	Applicable Design	Pass	Fail	Comments
Carrier Service Door	Only one carrier service door	L	✓		
	Provide “proper access” and meet “delivery requirements”	L	✓		
	Must operate outward and downward	L	✓		
	Door latch must hold door closed	L	✓		
	Door latch must operate with 5lb force max.	L	✓		
	Latch operation must be mechanical, not friction alone	L	✓		
	Spring loaded doors prohibited	L	✓		
	Magnetic latches must provide “adequate closure power”	L	✓		
	Door must not be self-closing	L	✓		
	Door rotation must rotate min of 100 deg. max 180 deg.	L	✓		
	Only prescribed protrusions: handle, knob, door catch, alternate flag, decorative features, or markings allowed.	L	✓		
	Decorative features or markings must not interfere with delivery or present a safety hazard	L	✓		
	Protrusions reducing internal volume (at all) prohibited	L	✓		

Criterion	Requirement	Applicable Design	Pass	Fail	Comments
Handle/Knob	Handle/knob must be single hand operable	L	✓		
	Handle/knob must permit “quick” grasping	L	✓		
	Handle/knob positioned on top 1/3 of door	L	✓		
	Acceptable handle designs conform with dimensions depicted in Figure 5	L	✓		
Rear Door	Must not “interfere” with normal delivery	L	NA		
	Must not be “susceptible” to accidental opening due to mail insertion	L	NA		
Locked Mailbox Access	Incoming mail must only be accessible to the customer	L	✓		
Locks and Instructions	Specified wording must be included in directions	L	✓		
Carrier Signal Flag	Shall be in accordance with approved designs, see Figures 1, 2, & 4	L	✓		
	Must be on right side of mailbox	L	✓		
	Front edge of flag cannot be located more than 2" from front edge of mailbox (Figures 1 & 2)	L	✓		
	Signal portion of flag must be at least 4 square inches (Figures 1, 2, & 4)	L	✓		
	Signal surface must be perpendicular to street when deployed	L	✓		
	When retracted, flag must not extend above top of box	L	✓		
	Flag must operate “properly” in ambient conditions	L	✓		

Criterion	Requirement	Applicable Design	Pass	Fail	Comments
Carrier Signal Flag (continued)	Must be lubricant free	L	✓		
	Must resist “freeze-up” at extreme temps	L	✓		
	Must maintain position until retracted by carrier	L	✓		
	Must not require a lift or more than 2 lbs of force to retract	L	✓		
	Self lowering must not require additional effort by carrier	L	✓		
	Self lowering cannot present protrusions/attachments	L	✓		
	Self lowering must not present hazardous features	L	✓		
Marking	“U.S. Mail” and “Approved by the Postmaster General” shall appear on the carrier service door in the correct size lettering	L	✓		
	Manufacturer’s name, address, date of manufacture, and model designation shall be readily accessible	L	✓		
Coating & Finishings	Must be free from stated defects	L	✓		
	Must be “compatible” with materials of construction	L	✓		
	Except for small decorative accents, mirror-like coatings or finishes are prohibited	L	✓		

Criterion	Requirement	Applicable Design	Pass	Fail	Comments
Color	The mailbox may be any color	L	✓		
	Flag can be any color except any shade of green, brown, white, yellow, or blue so long as it contrasts with mailbox color	L	✓		
Workmanship	Movable parts shall fit and operate properly	L	✓		
	No harmful projections or hazardous devices	L	✓		
	Sharp edges, sharp corners, burrs, etc. prohibited	L	✓		
Locked Design Capacity	Accepts standard size mailpieces through slot or opening	L	✓		
	Standard mailpieces can be retrieved from locked compartment	L	✓		
Operational Requirements	Service door operation, 7500 cycles	L	✓		
	Auxiliary door operation, 7500 cycles	L	NA		
	Door catch operation, 7500 cycles	L	✓		
	Carrier signal flag operation, 7500 cycles	L	✓		
Water-Tightness	UL771 Sec. 47.7 Unit must contain no water at test termination	L	✓		
Salt Fog Resistance	ASTM G 85 method A5. No destructive reaction at test termination	L	✓		
Abrasion Resistance	ASTM D 968 method A. Coating abrasion resistance	L	✓		
	ASTM D 968 method A. Plating abrasion resistance	L	✓		

Criterion	Requirement	Applicable Design	Pass	Fail	Comments
Temperature Stress Test	-65F 24 hr exposure				
	Service door operation OK	L	✓		
	Auxiliary door operation OK	L	NA		
	Door catch operation OK	L	✓		
	Carrier signal flag operation OK	L	✓		
	140F 24 hr exposure				
	Service door operation OK	L	✓		
	Auxiliary door operation OK	L	NA		
	Door catch operation OK	L	✓		
	Carrier signal flag operation OK	L	✓		
Structural Rigidity	Mailbox deforms less than specified after loading	L	✓		
	Service door operation OK after loading	L	✓		
	Auxiliary door operation OK after loading	L	NA		
	Door catch operation OK after loading	L	✓		
	Carrier signal flag operation OK after loading	L	✓		
Impact Test	No perforation, sharp edges or cracking may appear	L	✓		
	Carrier service door must still operate and close normally	L	✓		