

CERTIFICATE OF COMPLIANCE

Certificate Number 20140502-BP20789
Report Reference BP20789-20140501
Issue Date 2014-MAY-02

Issued to: QUIKSERV CORP
11441 BRITTMOORE PARK DR
HOUSTON TX 77041

This is to certify that BULLET-RESISTING DEVICES, MISCELLANEOUS
representative samples of See Addendum Page

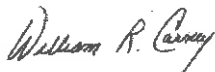
Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL752, Bullet Resisting Equipment
Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Listing Mark should be considered as being covered by UL's Listing and Follow-Up Service.

The UL Listing Mark generally includes the following elements: the symbol UL in a circle:  with the word "LISTED"; a control number (may be alphanumeric) assigned by UL; and the product category name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product.



William R. Carney, Director, North American Certification Programs

UL LLC

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CERTIFICATE OF COMPLIANCE

Certificate Number 20140502-BP20789
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Issue Date 2014-MAY-02

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Bullet-Resisting Devices, Window Assemblies, Model Bullet Resistant Aluminum Framing; Model Bullet Resistant Stainless Framing.

Device	Level 3
Window Assembly	Model Bullet Resistant Aluminum Framing
Window Assembly	Bullet Resistant Stainless Framing



William R. Carney, Director, North American Certification Programs
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File BP20789
Project 4786362393

May 01, 2014

REPORT

on

BULLET-RESISTING MATERIALS, DEVICES, MISCELLANEOUS

Quikserv Corp
Houston, X

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DESCRIPTION

PRODUCT COVERED:

Bullet-Resisting Devices, Window Assemblies, Model Bullet Resistant Aluminum Framing; Model Bullet Resistant Stainless Framing.

Device	Level 3
Window Assembly	Model Bullet Resistant Aluminum Framing
Window Assembly	Bullet Resistant Stainless Framing

ENGINEERING CONSIDERATIONS:

General - The products covered by this Report are bullet-resisting frame assemblies. Glazing material will be provided with Listed bullet-resisting glazing material of proper rating.

The products are intended to be installed and maintained by trained personnel.

CONSTRUCTION DETAILS:

General - Refer to the following paragraphs and illustrations for construction details. The general design, shape and arrangement shall be as shown unless described otherwise.

Glazing Material - Glazing material shall be UL Listed bullet-resisting glazing material, having the same rating as the assembly.

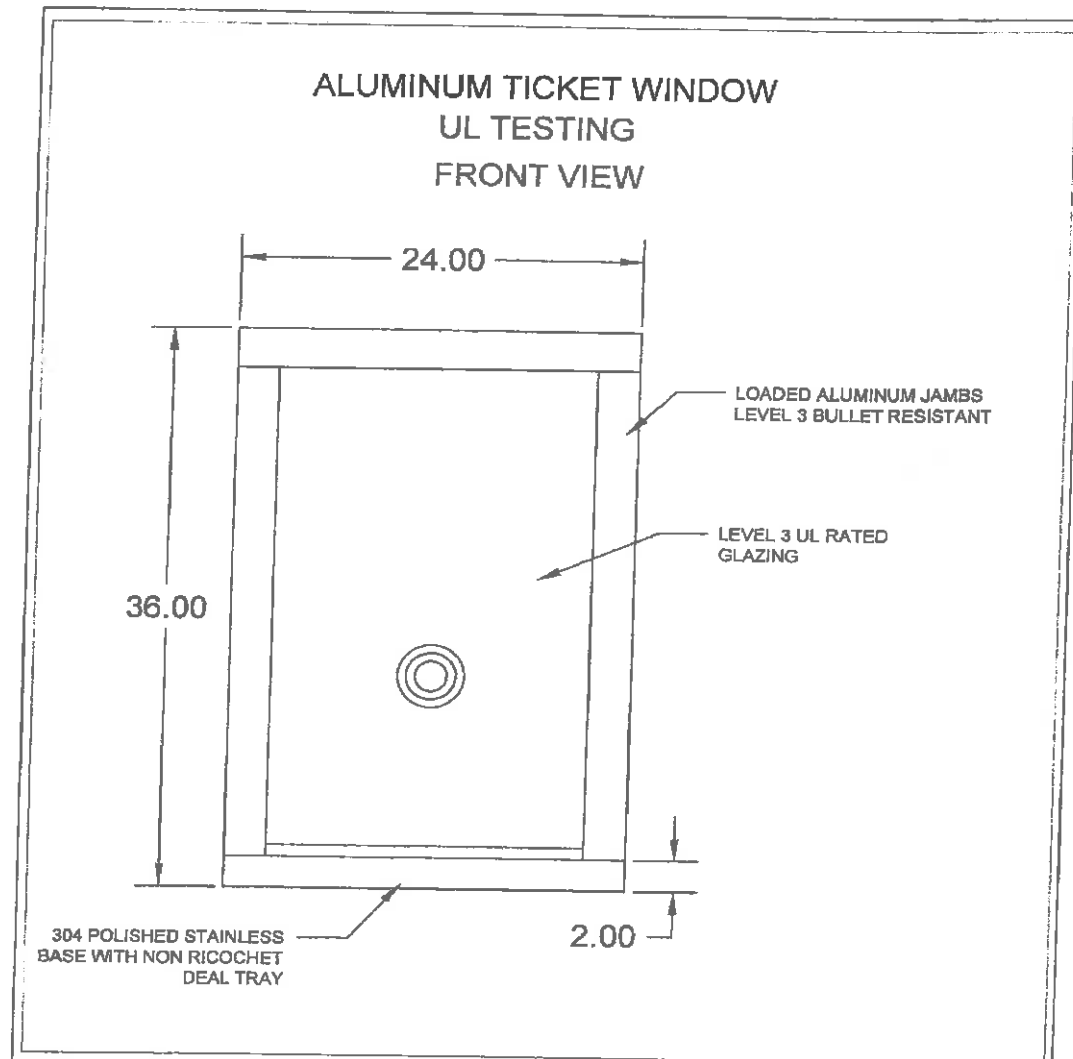
Window Assemblies - The height and width of each window assembly may vary according to the requirements for a particular application. However, the thickness of the protective materials used in the construction of the product shall not be less than those specified as described above.

Corrosion Protection - All ferrous parts other than stainless steel shall be painted, plated or otherwise suitably coated to resist corrosion.

ILLUSTRATION INDEX
(File in front of first illustration)

The following provides an index correlating the illustration number to the manufacturer's drawings. This index is provided for reference only.

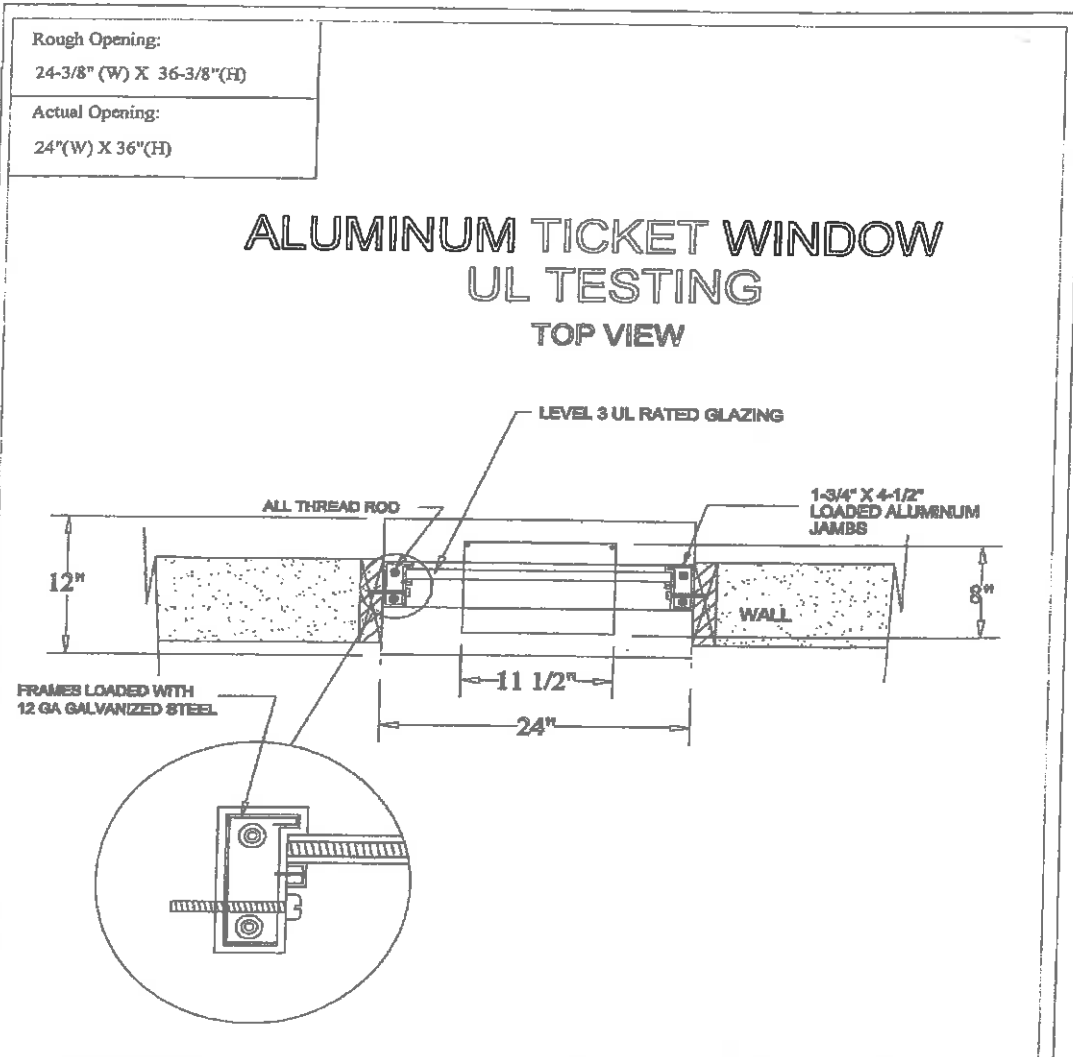
ILL. No.	Title
1	Model Bullet Resistant Aluminum Framing - Construction Details
2	Model Bullet Resistant Stainless Framing - Construction Details



NOTE: THIS DRAWING EMBODIES A CONFIDENTIAL PROPRIETARY DESIGN ORIGINATED AND OWNED BY QUIKSERV CORP., AND IS SUBMITTED UNDER A CONFIDENTIAL RELATIONSHIP. ALL PATENT, MANUFACTURING, SALE RIGHTS REGARDING THE SAME ARE RESERVED EXCEPT TO THE EXTENT RIGHTS ARE EXPRESSLY GRANTED TO OTHERS. THE RECIPIENT AGREES BY ACCEPTING THESE DRAWINGS NOT TO SUPPLY OR DISCLOSE ANY INFORMATION REGARDING THEM TO ANY UNAUTHORIZED PERSON.

Quikserv Corp. P.O. Box 40466 Houston TX 77240 1-800-388-8307 www.quikserv.com	ALUMINUM TICKET WINDOW UL FRONT Drawing Name:				Rough Opening: 24-3/8" (W) X 36-3/8" (H)
					Actual Dimension: 24" (W) X 36" (H)
	Date: 3/26/2014	Drawn By: BC	Scale: 1:8	Rev.	Service Opening: VARIES BY SIZE

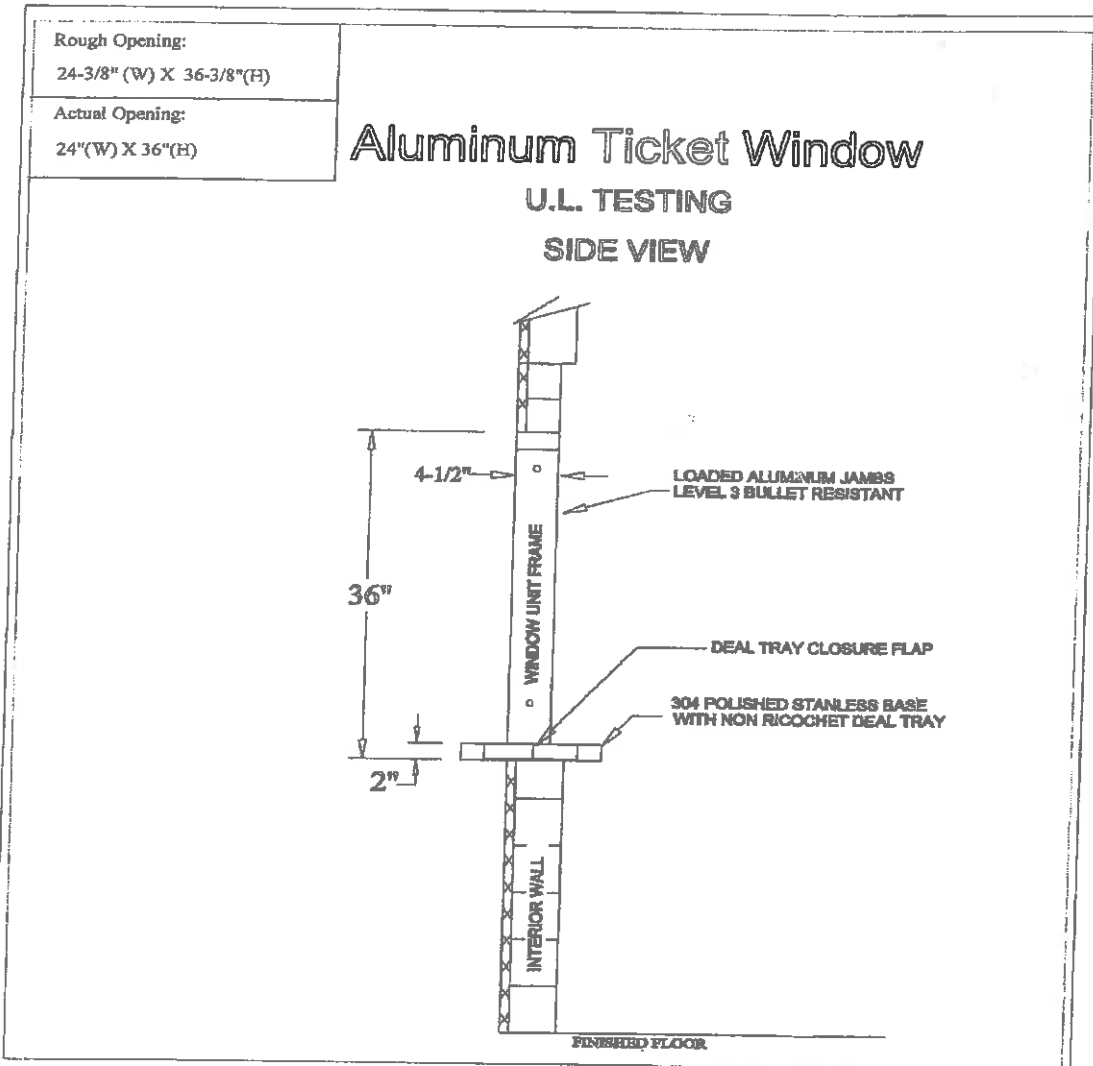
N141153053



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Quikserv Corp. P.O. Box 40466 Houston, TX 77240-466	ALUMINUM TICKET WINDOW UL		
Submitted By: BC	Scale: n/a	Date: 3/26/2014	Sheet: Alum. Ticket Window UL

N141153053



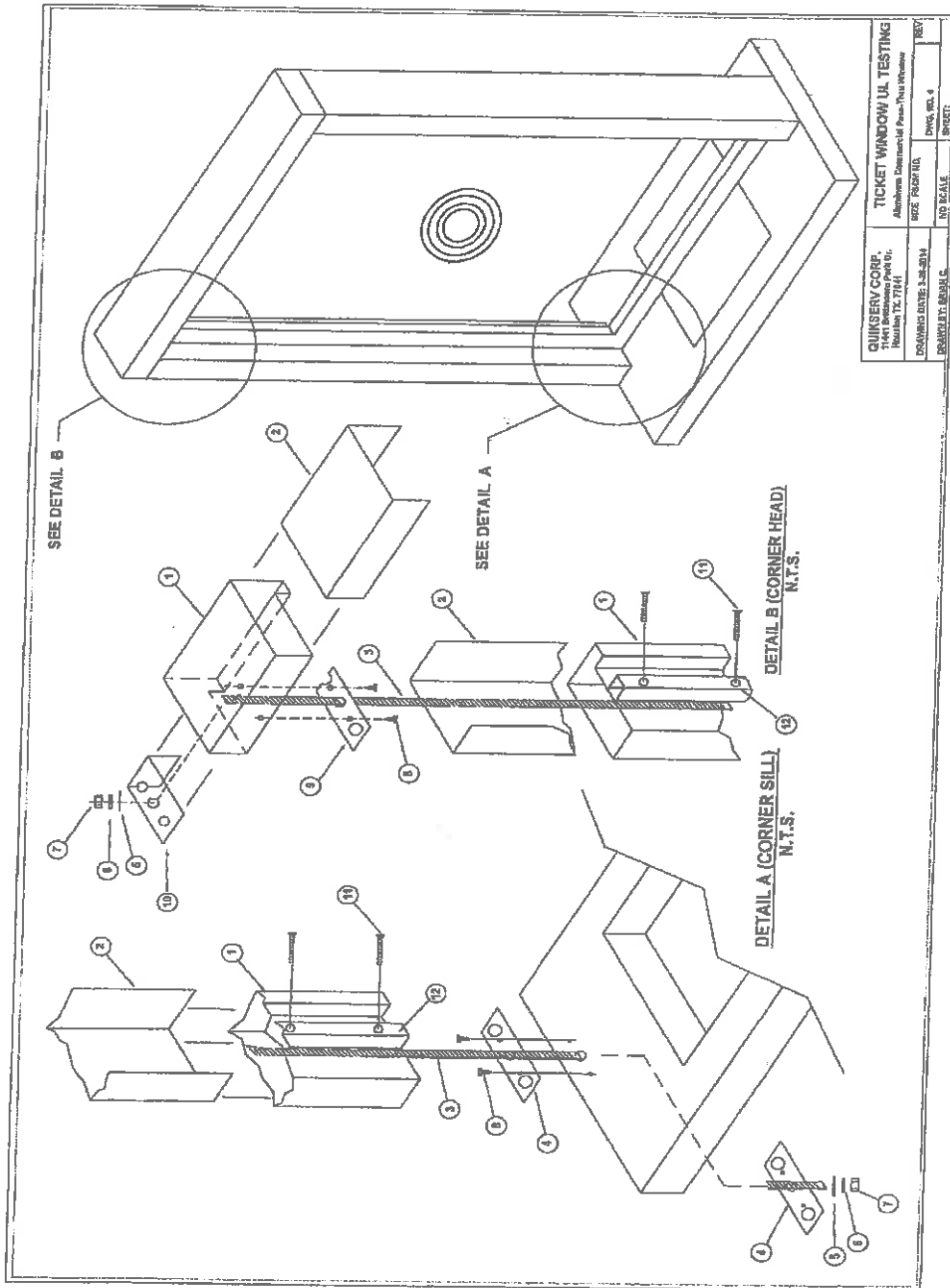
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Quiksery Corp.
 P.O. Box 40466
 Houston, TX 77240-466

Alum. Ticket Window UL Test Side View

Submitted By: BC	Scale: n/a	Date: 3/26/2014	Sheet: Alum. Ticket Window UL Side View
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ALUMINUM TICKET WINDOW - BR LOADED

BILL OF MATERIALS

Part #	Description	Quantity#	Material	Specs
1	BR Ticket Window - Header	3194	6063-T5 Aluminum	Aluminum Extrusion - length varies
2	Bullet Resistant Plate - Vertical	3900	12 ga. ASTM A-653, CQ, Grade 40, G-90 Galvanized Steel	length varies
3	Alithread Rod	2130	Grade 2 Carbon Steel, Zinc Plated	length varies
4	Framing Clip	3757	14 ga. ASTM A-653, CQ, Grade 40 G-90 Galvanized Steel	4.219 X 1.469
5	Flat Washer	5404	Grade 2 Carbon Steel, Zinc Plated	.750 O.D. X .313 ID
6	Lock Washer	5403	Grade 2 Carbon Steel, Zinc Plated	5/16" diameter X 0.083 in. Thick
7	HEX NUT	5901	Zinc Plated	5/16" - 18
8	Tek Hex Washer	5017	Grade 2 Carbon Steel, Zinc Plated	#2
9	Framing Clip	8759	14 ga. ASTM A-653, CQ, Grade 40 G-90 Galvanized Steel	3.625 X 1.469 in.
10	Bullet Resistant Plate - Top Framing Clip	8752	12 ga. ASTM A-653, CQ, Grade 40, G-90 Galvanized Steel	length varies
11	Screw Machine Flat Head	5085	304 Stainless Steel	10-32 x 1 1/2"
12	BR Ticket Window U-channel 3/4" - Vertical	3352	6063-T5 Aluminum	Aluminum Extrusion - length varies

Quantity / Unit	1
Material / Part	6063-T5 Aluminum
Specs / Notes	Aluminum Extrusion - length varies
Drawn By / Date	W. K. AB
Checked By / Date	
App. / Date	

N141153053

TEST RECORD NO. 1

SAMPLES:

Samples of the Model Bullet Resistant Stainless Framing and Model Bullet Resistant Stainless Framing window assemblies, constructed as described in the preceding section of this Report and considered representative, was submitted by the manufacturer and subjected to the following test program in accordance with the applicable requirements of UL752, Bullet Resisting Equipment, for the Level 3 rating.

Results relate only to the item tested.

BALLISTIC TEST:

Level 3 - The ammunition used for the investigation was 240 grain (15.6g) .44 Magnum lead semi-wadcutter gas checked, minimum velocity of 1350 fps (411 mps).

All tests were conducted at close range, approx 15 ft (4.6 m) using the ammunition and weapon specified. The test sample was mounted with 1/8 in. (3.2 mm) thick corrugated cardboard indicator panels placed approx 18 in. (467 mm) behind the protected side of the test sample. During the test, each bullet velocity was monitored and recorded.

The ballistics test shall not produce penetration of the weapon's projectile through the test sample, nor spalling of the test sample material to the extent that fragments of the sample or projectile imbed in or damage the cardboard indicators. The sample shall not break apart or open so as to leave an unobstructed path for additional projectiles or permit the insertion of the muzzle of the weapon used for the test.

METHOD

The sample was subjected to shots placed at various locations on the assembly that were judged most likely to allow penetration of the projectile, fragments of the projectile, or fragments of the assembly with sufficient force to penetrate the assembly to open the assembly, or imbed material into or damage the cardboard indicators.

The velocity of each projectile was recorded during the test.

RESULTS

Acceptable results were obtained at the following locations on the samples as indicated with the corresponding velocities.

MODEL BULLET RESISTANT ALUMINUM FRAMING - LEVEL 3

SHOT NO.	VELOCITY (FPS)	LOCATION
1	1389	RIGHT SIDE FRAME
2	1395	TOP CENTER FRAME
3	1359	RIGHT SIDE UPPER SEAM
4	1389	GLAZING BITE

MODEL BULLET RESISTANT STAINLESS FRAMING - LEVEL 3

SHOT NO.	VELOCITY (FPS)	LOCATION
1	1386	LEFT SIDE FRAME
2	1377	TOP CENTER FRAME
3	1433	RIGHT SIDE UPPER SEAM
4	1466	GLAZING BITE

TEST RECORD NO. 1 SUMMARY:

The results of this investigation, including construction review and testing, indicate that the products evaluated comply with the applicable requirements in UL752, Bullet Resisting Equipment, 11th Edition, Dated September 9, 2005 and, therefore, such products are judged eligible to bear UL's Mark as described on the Conclusion Page of this Report.

Report by:

Cyndi Prosser
Lead Engineering Associate

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CONCLUSION

Samples of the product covered by this Report have been found to comply with the requirements covering the category and the product is found to comply with UL's applicable requirements. The description and test result in this Report are only applicable to the sample(s) investigated by UL and does not signify UL certification or that the product(s) described are covered under UL's Follow-Up Service Program. When covered under UL's Follow-Up Service Program, the manufacturer is authorized to use the UL Listing Mark on such products which comply with UL's Follow-Up Service Procedure and any other application requirements of UL LLC. The Listing Mark of UL LLC on the product, or the UL symbol on the product and the Listing Mark on the smallest unit container in which the product is packaged, is the only method to identify products investigated by UL to published requirements and manufactured under UL's Listing and Follow-Up Service.

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Report by:

Cyndi Prosser
Lead Engineering Associate

Reviewed by:

Steve Sein
Staff Engineer