DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND

Please Read Application And Notes, If Any,

Attached			EKMI	1	Permit Number: 081349
This is to certify thatK	ATZ JAMES & CHA	RLOT KAS	SSA (Crosby C	
has permission tore	eplace existing deck &	. Rails a	ubb f need		
AT _ 99 SILVER ST #501				C -029	0001501
•	of the Statutes	of Mare a	nd of the	aces of	his permit shall comply with all the City of Portland regulating and of the application on file in
Apply to Public Works and grade if nature of such information.		Not ation give nd whose this lath or	vritte permissi buing or pr	ed-in. 2	A certificate of occupancy must be procured by owner before this building or part thereof is occupied.
OTHER REQUIRED Fire Dept. Health Dept. Appeal Board Other	CITY OF POP	2009 TLAND		a	Mus Danke 5/4/5 Director - Birliding & Inspection Services
•	PE	NALTY FO	R REMOVING	THIS CARD	,

City of Portland, Maine - Build	00.001.0000	E (0.07) 07:10		00 1240		020,000	1501	
89 Congress Street, 04101 Tel: (20	_ ´ _	, Fax: (207) 874-8		08-1349	<u> </u>	029 O00	1301	
	Owner Name:	1		ner Address:	5 1	Phone:		
	Contractor Name	S & CHARLOTTE K		SILVER ST #	5-1	Phone		
	Ryan Crosby C		1	Cranberry Lane	Saca	207423210	60	
	Phone:	T		mit Type:	<u> </u>	207423210	Zone:	
Lessee/Duyer's (value Filone)			1	lterations - Con	mercial		B-3	
Past Use: Proposed Use:			Per	rmit Fee:	Cost of Work:	CEO District:		
		Multi-unit condo	<u> </u>	\$220.00	\$20,000.00		<u></u>	
		existing deck & ubber if needed	FIF	RE DEPT:	Denied		Type: SB	
			_		1	16-200)	3	
roposed Project Description: eplace existing deck & Rails and fix ru	i		nature (<u> </u>	ature: MB 5	14/09		
			PEI	DESTRIAN ACTI	VITIES DISTRICT	Γ (P.A.D.)	A.D.) / /	
			Action:		: Approved Approved w/Cond			
			Signature:		Date:			
ermit Taken By: Date App Idobson 10/22/2				Zoning	Approval		•	
This permit application does not proceed to the process of th	eclude the	Special Zone or Review		ews Zoning Appeal		Historic Prese	rvation	
Applicant(s) from meeting applical Federal Rules.				☐ Variance		Not in District		
 Building permits do not include pluseptic or electrical work. 	umbing,	Wetland	☐ Miscellaneous		neous	Does Not Require Review		
Building permits are void if work i within six (6) months of the date of		Flood Zone		Conditio	nal Use	Requires Revi	ew	
False information may invalidate a permit and stop all work	building	Subdivision		Interpretation		Approved		
		Site Plan		Approve	d	Approved w/C	Conditions	
PERMIT ISSUED				Denied		Denied		
MAY 4 2009		Date:	1231	Date:		Date: 11 19 (08)	STH	
CITY OF PORTLAN	ID							
		CERTIFICA	TION					
		CERTIFICA						

such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK TITLE		DATE	PHONE

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

to schedule your inspections as agreed upon Permits expire in 6 months, if the project is not started or ceases for 6 months.

The Owner or their designee is required to notify the inspections office for the following inspections and provide adequate notice. Notice must be called in 48-72 hours in advance in order to schedule an inspection:

By initializing at each inspection time, you are agreeing that you understand the inspection procedure and additional fees from a "Stop Work Order" and "Stop Work Order Release" will be incurred if the procedure is not followed as stated below.

A Pre-construction Meeting will take place upon receipt of your building permit.

X Framing inspection prior to completion of decking

X Final inspection required at completion of work.

Certificate of Occupancy is not required for certain projects. Your inspector can advise you if your project requires a Certificate of Occupancy. All projects <u>DO</u> require a final inspection.

If any of the inspections do not occur, the project cannot go on to the next phase, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.

CERIFICATE OF OCCUPANICES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED.

Signature of Applicant/Designee

Signature of Inspections Official

5

Date'

Permit No: CBL: Date Applied For: City of Portland, Maine - Building or Use Permit 08-1349 10/22/2008 389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716 029 0001501 Location of Construction: Owner Name: Owner Address: Phone: 99 SILVER ST #501 99 SILVER ST # 5-1 KATZ JAMES & CHARLOTTE K Business Name: Contractor Name: Contractor Address: Phone **Ryan Crosby Construction** 4 Cranberry Lane Saco (207) 423-2160 Permit Type: Lessee/Buyer's Name Phone: Alterations - Commercial Proposed Use: Proposed Project Description: Commercial / Multi-unit condo #501 - replace existing deck & Rails replace existing deck & Rails and fix rubber if needed and fix rubber if needed 11/19/2008 Dept: Historic **Approval Date: Status:** Approved with Conditions Reviewer: Scott Hanson Ok to Issue: Note: 1) New iron railing design submitted 11/13 is approved. 10/23/2008 Dept: Zoning **Status:** Approved with Conditions Reviewer: Marge Schmuckal **Approval Date:** Ok to Issue: Note: 1) ANY exterior work requires a separate review and approval thru Historic Preservation. This property is located within an Historic District. 2) This is NOT an approval for an additional dwelling unit. You SHALL NOT add any additional kitchen equipment including, but not limited to items such as stoves, microwaves, refrigerators, or kitchen sinks, etc. Without special approvals. This property shall remain a thirty-seven.(37) residential condominium building. Any change of use shall require a separate permit application for review and approval. 4) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work. Dept: Building 05/04/2009 **Status:** Approved with Conditions Reviewer: Jeanine Bourke **Approval Date:** Ok to Issue: Note: 1) Your guardrail system installed around your deck must meet the loading requirements of section 1607.7.1 of the IBC 2003 Building 2) Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approrval prior to work. Dept: Fire Status: Approved Reviewer: Capt Greg Cass 11/19/2008 **Approval Date:** Note: Ok to Issue:

Comments:

11/4/2008-sth: Contractor is waiting for owner to decide what material and design they want for the deck railings, he will submit additional information when they decide. He understands that HP cannot sign off until we know what we're signing off on.

11/19/2008-gg: received permit from historic as of 11/19/08. /gg

11/25/2008-jmb: Left voicemsg for Ryan C. For details on approved wrought iron style railing from historic, at 5" oc it may not meet the < 4" spacing requirement. Also need fastening and structural integrity details.

Location of Construction:	Owner Name:		Owner Address:	Phone:
99 SILVER ST #501	KATZ JAMES & CHARLOTTE K		99 SILVER ST # 5-1	
Business Name:	Contractor Name:		Contractor Address:	Phone
	Ryan Crosby Construction		4 Cranberry Lane Saco	(207) 423-2160
Lessee/Buyer's Name	Phone:		Permit Type:	
			Alterations - Commercial	

1/26/2009-jmb: Have not received response from November, spoke with Ryan C., he is no longer involved with the project and gave me Brian w/Emerald Management # 329-0427. Spoke with Brian, he thought it was approved, so he will come in and submit required details within a couple days.

3/30/2009-jmb: Brian from Emerald Mngmt came in to address the changes for this permit. Instead of replacing the deck, they want to replace the rubber membrane, lay down a mat and use patio blocks. They want to do the rail in wood. They will submit details for approval, I gave them Scott H. # for historic approval as this railing was formerly wrought iron.

5/4/2009-jmb: Rodney Baxter came in and submitted the plans and specs for a black metal railing system as historic is requiring this. They will also rebuild the existing wood deck, not use patio blocks, ok to issue.

General Building Permit Application

property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: 99	Silver St. Bothand	
Total Square Footage of Proposed Structure/A.	rea Square Footage of Lot	Number of Stories
Tax Assessor's Chart, Block & Lot	Applicant *must be owner, Lessee or Buye	er* Telephone:
Chart# Block# Lot#	Name James KAt2	423-2160
	Address 99 silver St.	
	City, State & Zip Portland ME	
Lessee/DBA (If Applicable)	Owner (if different from Applicant)	Cost Of
	Name	Work: \$ 20 ,000
	Address	C of O Fee: \$
OCT 2.2	City, State & Zip	
	,r	Total Fee: \$
Proposed Specific use: Dick Is property part of a subdivision? NU Project description: Note: Dick Replace Existing Deck	E Rails and Fix Rubber	
Contractor's name: _ Ryan CROSBY CON	Struction	
Address: 4 CKANberry JAN-e	· · · · · · · · · · · · · · · · · · ·	
City, State & Zip SAIO ME 09	1072	Telephone: 423 -2160
Who should we contact when the permit is read	y: RyAN Crosby I	elephone: <u>571-4389</u>
Mailing address: 4 CRAWBerry lane	_	

Please submit all of the information outlined on the applicable Checklist. Failure to do so will result in the automatic denial of your permit.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at www.portlandmaine.gov, or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature:	held	Date:	Oct 22	2008
	This is not a permit; you may not con	nmence	ANY work	until the permit is issue

is senot a permit; you may not commence ANY work until the permit is issue



Note: when pickets are used, rails should not exceed 8 ft. without post or brace. When using glass panels, post spacing should not exceed 6 ft. (braces are recommended at each post) Glass panels require black gasket and rubber spacer blocks.

Noto: Al usor barondos, las barandillas no deben exceder 8 pies sin paste o refuerzo. Al usar el cristal el espocio del paste no debe exceder 6 pies (los refuerzos se recomiendan en cada poste). La aplicación del cristal requiere junto negras de GVIL y blaques de aislamiento de caucho

or any Combination. Glass panels come in widths of

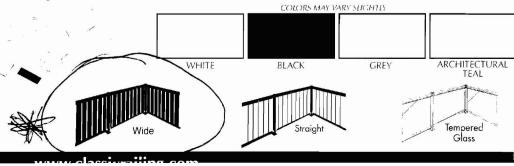
Los páneles de cristal vienen en anchuras de 24" a 66" en incrementos de 3".

TOOLS REQUIRED/HERRAMIENTAS REQUERIDAS

AVAILABLE IN 4 COLORS/DISPONIBLE EN 4 COLORES

- Drill with 3/8" hex Bit
- #2 Square Drive Bit 'acksaw or Mitre saw
- Tape Measure • Rubber Mallet
- Level

3 STYLES/3 ESTILOS



C	l	a	S	5	S İ	C
R	A	Π	L	Π	N	G

Classic	Date: Market: _	 _ Class	ic Customer: _ Store#:		Glass	P.O.#:	Straight
RAILING	Contact:			Phone:		Fax:	
Project Planner	1	i	·	1 1	: 1		
		1					

A. Determine position of all posts. Pre-drill Pilot Holes and secure loosely with only one fastener . Use #14 x 2 1/2" Lag screws or stainless steel

Scale: 1/4"= 1'0"

screws.

B. Install wall brackets as shown if required. Measure up from floor 42-1/8" to the top of upper bracket sleeve and 4 3/4" to the top of bottom bracket sleeve and secure with screws or lags.

C. Measure distance between posts ("x"). Mark both top and bottom rail and cut to required length. Cut top rail 1/2" shorter than bottom rail. (*Note: Install support leg in bottom rail every 48"). Install bottom rail in bottom bracket attached to posts. Set top rail in post brackets. Attach both top and bottom rails to brackets with #10 x 3/4" self

tapping or stainless steel screws as shown. Drill 3/16" holes through bottom rail every 24" for water drainage. Level all posts and secure with remaining lag screws.

D. Picket Installation

Start against one post, snap a spacer onto top and bottom rails using rubber mallet. Insert picket and tap it tight to spacer. Repeat until you have 3-4 pickets remaining. Install remaining pickets as a group, spread out and snap in remaining spacers. Cut last spacer to fit, using hacksaw. Option) Snap first spacer in centre of top & bottom and work outwards for equal end spacing.

E. Tempered Glass Installation

Discard clear PVC liner from top and bottom rails, replace with black gasket. Place rubber blocks in bottom rail only 2-4 blocks per panel. Glass then slides up into top rail and down into bottom rail and rests on rubber blocks.



B.

A. Determine la posición de todos los postes. Pretaladre los agujeros experimentales y asegúrelos libremente con solamente un sujetador. Utilize libremente con solamente un sujetador. Utilize tornillos No. 14 x 2 1/2" los tornillos de retraso o tornillos de acero inoxidable

B. Instale los soportes de Pared según lo mostrado, si es necesario. Mida para arriba desde el suelo 42 1/8" hasta la parte superior de la funda del soporte y 4 3/4" desde el suelo hasta la parte interior del soporte.

C. Mida la distancia entre los postes. Marcar barandilla superior e inferior y cortar a la longitud requerida. Cortar barandilla superior 1/2" más corto que la barandilla inferior. (Nota: instalar postes en la barandilla inferior cada 48").

Instalar barandilla inferior en el soporte inferior el cual está sujetado a los postes. Fije la barandilla superior en soportes del poste. Juntar barandillas superiores e inferiores a los soportes con golpecitos o con tornillos de acero inoxidable No. 10 x 3/4" como está demostrado. Perforar agujeros de 3/16" a través de la barandilla inferior cada 24"

para desague. Nivele todos los postes y asegúrelos con el resto de tornillos de

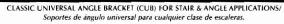
D. Instalación de la Baranda

Comience contra un poste, encajar a presión un espaciador sobre la barandilla superior e inferior usando un martillo de goma. Insertar la baranda y golpearla ligeramente apretada al espaciador, repítalo

hasta que tenga 3-4 barandas solamente. Instale las barandas restantes en un grupo. Sepárelas y encájelas a presión en los espacios restantes. Usando una sierra corte el último espaciador para que encaje (Opcional) encaje a presión primer espaciador en el centro de la parte superior e inferior y trabaje hacia afuera para tener los espacios finales iguales

E. Instalación del Cristal

Descartar el trazador de lineas claro del PVC de las barandillas superiores e inferiores, reeemplazar con juntas negras. Poner bloques de caucho en la barandilla inferior solamente, 2-4 bloques por panel. El Cristal se desliza dentro de la barandilla superior y abajo dentro de la barandilla inferior y se posa sobre los bloques de caucho.

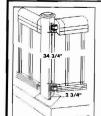




or incline. Mount top and bottom posts at desired locations on step treads. Mount CUB Brackets to posts while maintaining 27 5/8" between round backing plates. Use #10 x 3/4" self-tapping or stainless steel screws. Measure and cut top and bottom rails as shown("x"). Install pickets and spaces. as per illustration. Note: Location of top & bottom posts on stair treads will determine overall height of top rail. Top rail height shall not be less than 34" or greater than 38" above tread nosing.

Soportes de ángulo universal acomodan cualquier clase de Soportes de angulo universal acomodan cualquier clase de escaleras, ángulo o inclinación. Montar poste superior e inferior en la posición deseada en los escalones. Ajustar soportes CUB a los postes manteniendo 27 5/8" entre las placas de refuerzo redondas. Usar #10 por 3/4 de cinta adhesiva o tornillos inoxidables de acero. Mida y corte la baranda superior e inferior como indicado. Instalar barandillas y espaciarlas como en la ilustración.

Nota: La posicion de los postes superiores e inferiores en los escalones determinará la altura de la baranda superior. La altura de la baranda superior no debe ser menos de 34" o más de 38" por encima del escalón.



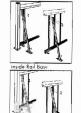
INSTALL BOTTOM RAIL FIRST AND WORK UP.

CUSTOM POST/ANGLE APPLICATION USING CLASSIC UNIVERSAL ANGLE BRACKET/ Postes a la medida/Aplicaciones en Ángulo usando Soportes de Ángulo Universal

Measure up from post base plate 2 3/4" to bottom of round backing plate. Attach to post.

Maintain 34 3/4" between backing plates. Attach top round plate as indicated using #10 X 3/4" self drilling or stainless steel screws.

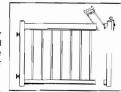
Mida para arriba desde la placa del poste 2 3/4" hasta la placa redonda de refuerzo. Ajustar al poste. Mantener 34 3/4" entre las placas de refuerzo. Ajustar placa redonda superior como indicado usando tornillos de acero inoxidable del No. 10.3/4"

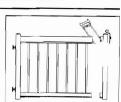


GATE INSTALLATION/ Instalación de la puerta

Gate fits 48" wide opening. For smaller openings, cut top and bottom rails of gate to desired size before assembling, allowing 2" for hinges and 2" for latch.

La avertura ancha de la verja mide 48". Para averturas pequeñas, corte lo de arriba y abaio de las tablas de la verja para el tamaño deseado antes de armarla, dejando 2" para la bisagra y 2" para el pazador.





(CUB)

4



Image Gallery | Products | Installation Guide | About Us | Contact Us

Specifications

ALUMINUM MATERIALS

- All aluminum rail parts are tempered
- Classic Top Rail wall thickness 2.00 mm using 6065 T5 alloys
- Classic Bottom Rail wall thickness 1.65 mm using 6060 T5 alloys
- Classic Posts wall thickness 1.90 mm using 6063 T54 alloys

PAINT

- All Classic Railing is powder coated with a durable polyester finish
- Coating is applied to a minimum of 1.3 mm to 1.8 mm thickness

GLASS

Clear tempered glass products are warranted to meet:

1. The quality and strength requirements of ASTM C 1048 and the safety requirements of CPSC 18 and C (categories 1 and 11)

ALUMINUM

Our products are constructed of 100% high strength aluminum and will meet or exceed national building code

PAINT

Classic superior powder coating finish allows for maximum durability in all climates and will not rust, fade, peel

COLORS

White is the classic standard stocking color. Black, grey and architectural teal are also available at no extra co 15 working days for delivery of color.

STANDARD HEIGHTS

Classic standard railings are 42" in height to meet national building code standards.

DELIVERY

For classic and standard color white allow approximately 7 working days. Other colors allow approximately 15 Note: Delivery may vary during peak seasons.

ESTIMATING

Although we do encourage our dealers to familiarize themselves with estimating their packages, we are availa anytime if required. Simply fax to our dealer the applicable information and we will provide you with a cost estil within 24 hours.

GLASS

Clear tempered glass panels are in stock in widths from 24" to 66", in 3" increments.

FREIGHT

Classic Railing shipments are prepared FOB destination on orders exceeding \$4,000.00.

WARRANTY

Classic Railing is guaranteed by Classic Railing 20 Year Limited Warranty.

Copyright © 2001-2003 Classic Railings. All Rights Reserved.

REGAL:



2840 West Valley Hwy N Unit 102, Auburn, WA 98001 Phone 800-819-4344 Fax 604-952-4206

FAX

	To:	The Home Depot - 2401	Fax	207-822-4802	
	Attn:	Nicole	Phone:	:	
	From:	Anu Verma	Date:	06-April-09	
	Re:	Engineering Specs	Pages:	10	
	□ Urge	ent ☑ For Review ☐ P	lease Comment	☐ Please Reply ☐ Plea	se Recycle
Here are	the spec	cs as requested.			
Please o	lo not he	sitate to call our customer se	ervice at 800 364 5	245 if you require any furt	her
nformati	on.				
Thanks					
Anu Ven	ma				





REPORT NUMBER: 3134212COQ-004 ORIGINAL ISSUE DATE: February 20, 2009

EVALUATION CENTER

Intertek Testing Services NA Ltd. 1500 Brigantine Drive Coquitlam, B,C, V3K 7C1

RENDERED TO

Regal Aluminum Products Inc. 102-2840 West Valley Highway, N Auburn WA, 98001 **United States**

PRODUCT EVALUATED:

Classic Handrall and Guardrail Glass and Picket Sections, Regal Handrail and Guardrail Glass and Picket Sections

EVALUATION PROPERTY: Structural Tests

Report of testing for compliance with the applicable requirements of the following criteria: ICC Evaluation Service, Inc. AC 273, Acceptance Criteria for Handrails and Guards, approved February 2008

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to copy or distribute this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

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REGAL:

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2 Introduction

Intertek Testing Services NA (Intertek) has conducted testing for Regal Aluminum Products Inc., on Regal and Classic Railing Products, to evaluate structural performance. Testing was conducted in accordance with ICC Evaluation Service, Inc. AC 273, Acceptance Criteria for Handrails and Guards, approved February 2008 (ICC-ES AC 273). The connection of the railing system to the structure was not evaluated. The testing was conducted at Intertek Testing Services Ltd., Building T52-8, 1201 Guiqiao Rd, Jinqiao Development Zone, Pudong, Shanghai, China, 201206. This evaluation began on May 14, 2008 and was completed on September 10, 2008.

3 Test Samples

3.1. SAMPLE SELECTION

Samples were randomly selected on February 22, 2008 and July 8, 2008 by Intertek representative John Qiao and Craig Lawson respectively. The samples were received at the Evaluation Center on April 28, 2008 and July 30, 2008 respectively...

The subject test specimens were traceable samples selected from the manufacturer's facility. Intertek selected the specimens and has verified the composition, manufacturing techniques and quality assurance procedures.

3.2. SAMPLE AND ASSEMBLY DESCRIPTION

Three production samples of each guardrail system were prepared for testing. The guardrail system components were summarized in Table 1 below.

Table 1. Guardrail System Components				
Component	Material			
Bottom Bracket				
Bottom Rail				
Base Plate				
Post	ACCCA TO AERIARAL MAINTE			
Top Bracket	A6061-T6 15°±1°aluminum			
Top Rail				
Spacer				
Pickets				
UAB Classic Top Bracket				
UAB Clam Back	VI 100 aluminum			
UAB Regal Top Bracket	YL102 aluminum			
UAB Bottom Bracket	_			
Screws	A1018 steel			
Glass	Tempered Glass			
Glass Track	Poly-Vinyl Chloride (PVC)			



February 20, 2009 Page 4 of 9

4 Testing and Evaluation Methods

4.1. CONDITIONING

The samples were tested in ambient conditions. No specific conditioning parameters were required before testing.

4.2. GENERAL (Clause 4.2.1)

One complete railing system, consisting of two posts, was tested at maximum spacing and in the worst-case scenario. The test specimen was loaded at a rate to achieve the specified loads between 10 seconds and 5 minutes. The specified test loads were held for one minute before the load was released.

4.3. IN-FILL LOAD TEST (Clause 4.2.2)

A load consisting of 125 lbf was applied over 1 sq. ft. (0.0929 m²) normal to the in-fill in a worst-case scenario, including standard picket, wide picket, and basket picket. The factored load included a safety factor of 2.5 for general and 4 for glass, as detailed in section 1714.3.1 and section 2407.1.1 of the 2006 International Building Code (IBC). After release of the load, the system was examined for any evidence of disengagement of any component and visible cracks in any component.

4.4. UNIFORM LOAD TEST (Clause 4.2.3)

The top rail of the system was subjected to a single test where a uniform load of 125 lbf/ft was applied in a downward direction and at an angle of 45° from the horizontal. The factored load included a safety factor of 2.5, as detailed in section 1714.3.1 of the IBC. The load was applied using quarter point loads calculated to impose an equivalent moment to the uniform load specified. After release of the load, the system was examined for any evidence of disengagements of any component and visible cracks in any component.

4.5. CONCENTRATED LOAD TEST (Clause 4.2.4)

Two separate tests were conducted where the proof load of 500 lbf was applied horizontally to the top-rail at mid-span and directly adjacent to the post to evaluate the connection capacity. The factored load included a safety factor of 2.5, as detailed in section 1714.3.1 of the IBC. After release of the load, the system was examined for any evidence of disengagements of any component and visible cracks in any component When the applied load reached 200 lbf, the deflection at the point of loading was recorded as per clause 4.2.4.a and 4.2.4.b of ICC-ES AC 273.



February 20, 2009 Page 5 of 9

5 Testing and Evaluation Results

5.1. RESULTS AND OBSERVATIONS

The product test results are shown in Table 2-12 below. Test data sheets and photographs can be found in Appendix A and B respectively.

Table 2. Test Results of Classic 8 ft Standard Picket Section					
Test Description	Test Result	Requirement	Pass/Fail		
In-fill Load, lbf	125 held for 1 minute	125 held for 1 minute	Pass		
45° Uniform Load, Ibf	1000 held for 1 minute	1000 held for 1 minute	Pass		
Midspan Concentrated Load, Ibf	500 held for 1 minute	500 held for 1 minute	Pass		
Top of Post Concentrated Load, ibf	500 held for 1 minute	500 held for 1 minute	Pass		

Table 3. Test Results of Classic 6 ft Standard Glass Section			
Test Description	Test Result	Requirement	Pass/Fail
In-fill Load, Ibf	200 held for 1 minute	200 held for 1 minute	Pass
45° Uniform Load, Ibf	750 held for 1 minute	750 held for 1 minute	Pass
Midspan Concentrated Load, Ibf	500 held for 1 minute	500 held for 1 minute	Pass
Top of Post Concentrated Load, Ibf	500 held for 1 minute	500 held for 1 minute	Pass

Table 4. Test Results of Regal 8 ft Standard Picket Section			
Test Description	Test Result	Requirement	Pass/Fail
In-fill Load, lbf	125 held for 1 minute	125 held for 1 minute	Pass
45° Uniform Load, Ibf	1000 held for 1 minute	1000 held for 1 minute	Pass
Midspan Concentrated Load, Ibf	500 held for 1 minute	500 held for 1 minute	Pass
Top of Post Concentrated Load, Ibf	500 held for 1 minute	500 held for 1 minute	Pass

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Table 5. Test Results of Regal 6 ft Standard Glass Section			
Test Description	Test Result	Requirement	Pass/Fail
In-fill Load, Ibf	200 held for 1 minute	200 held for 1 minute	Pass
45° Uniform Load, lbf	750 held for 1 minute	750 held for 1 minute	Pass
Midspan Concentrated Load, Ibf	500 held for 1 minute	500 held for 1 minute	Pass
Top of Post Concentrated Load, Ibf	500 held for 1 minute	500 held for 1 minute	Pass

Table 6. Test Results of Classic 6 ft Stair Picket Section			
Test Description	Test Result	Requirement	Pass/Fall
In-fill Load, Ibf	125 held for 1 minute	125 held for 1 minute	Pass
45° Uniform Load, lbf	750 held for 1 minute	750 held for 1 minute	Pass
Midspan Concentrated Load, lbf	500 held for 1 minute	500 held for 1 minute	Pass
Top of Post Concentrated Load, Ibf	500 held for 1 minute	500 held for 1 minute	Pass

Table 7. Test Results of Classic 6 ft Stair Glass Section			
Test Description	Test Result	Requirement	Pass/Fail
In-fill Load, Ibf	200 held for 1 minute	200 held for 1 minute	Pass
45° Uniform Load, Ibf	750 held for 1 minute	750 held for 1 minute	Pass
Midspan Concentrated Load, Ibf	500 held for 1 minute	500 held for 1 minute	Pass
Top of Post Concentrated Load, Ibf	500 held for 1 minute	500 held for 1 minute	Pass

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Table 8. Test Results of Regal 6 ft Stair Picket Section			
Test Description	Test Result	Requirement	Pass/Fail
In-fill Load, lbf	125 held for 1 minute	125 held for 1 minute	Pass
45° Uniform Load, Ibf	750 held for 1 minute	750 held for 1 minute	Pass
Midspan Concentrated Load, lbf	500 held for 1 minute	500 held for 1 minute	Pass
Top of Post Concentrated Load, Ibf	500 held for 1 minute	500 held for 1 minute	Pass

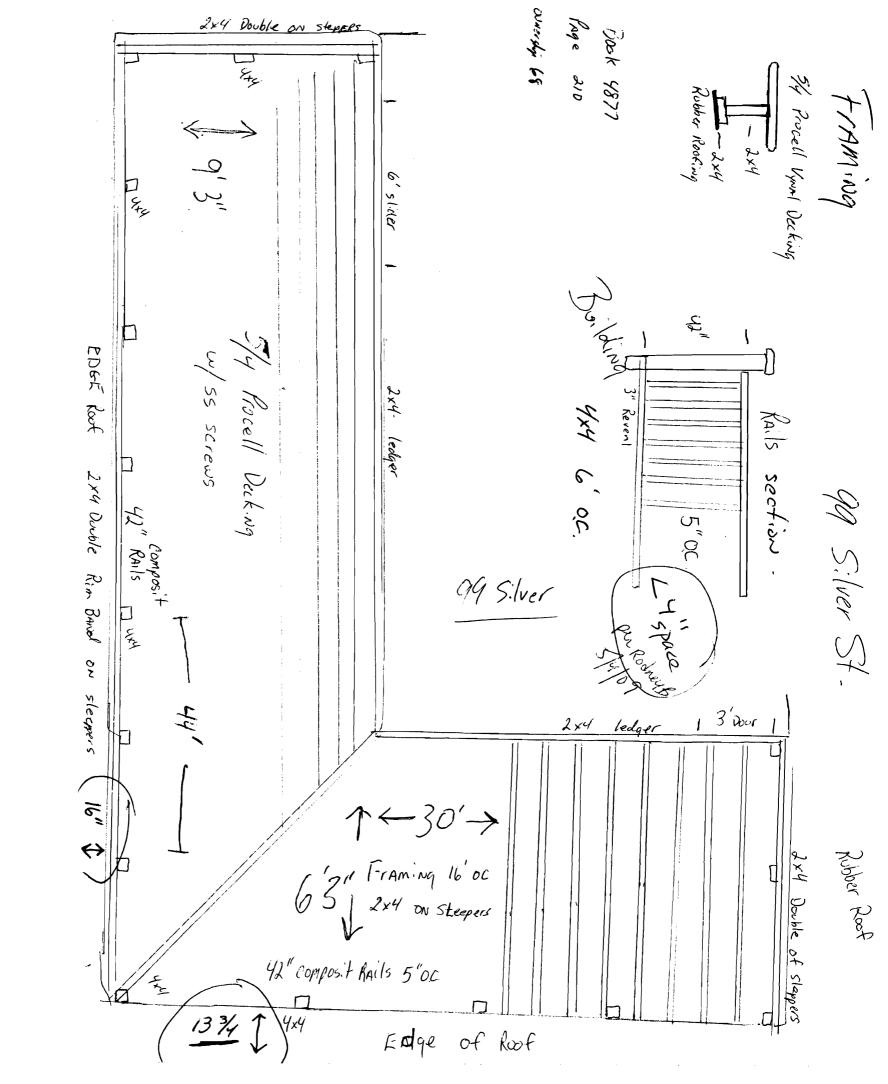
Table 9. Test Results of Regal 6 ft Stair Glass Section			
Test Description	Test Result	Requirement	Pass/Fail
In-fill Load, Ibf	200 held for 1 minute	200 held for 1 minute	Pass
45° Uniform Load, lbf	750 held for 1 minute	750 held for 1 minute	Pass
Midspan Concentrated Load, Ibf	500 held for 1 minute	500 held for 1 minute	Pass
Top of Post Concentrated Load, lbf	500 held for 1 minute	500 held for 1 minute	Pass

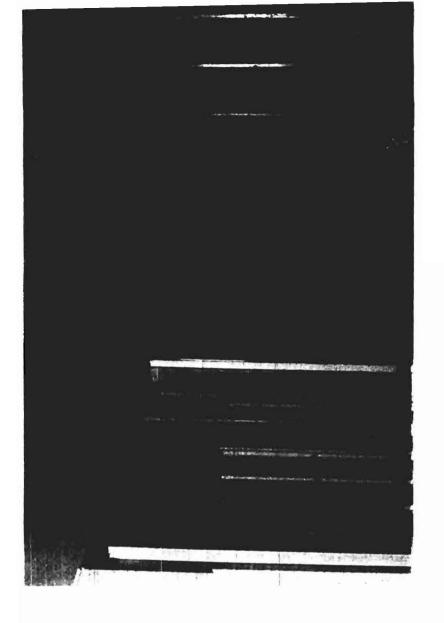
Table 10. Test Results of Classic 8 ft Angle Picket Section			
Test Description	Test Result	Requirement	Pass/Fail
in-fill Load, lbf	125 held for 1 minute	125 held for 1 minute	Pass
45° Uniform Load, lbf	1000 held for 1 minute	1000 held for 1 minute	Pass
Midspan Concentrated Load, lbf	500 held for 1 minute	500 held for 1 minute	Pass
Top of Post Concentrated Load, lbf	500 held for 1 minute	500 held for 1 minute	Pass

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Table 11. Test Results of Regal 6 ft Angle Picket Section			
Test Description	Test Result	Requirement	Pass/Fail
In-fill Load, Ibf	125 held for 1 minute	125 held for 1 minute	Pass
45° Uniform Load, Ibf	750 held for 1 minute	750 held for 1 minute	Pass
Midspan Concentrated Load, lbf	500 held for 1 minute	500 held for 1 minute	Pass
Top of Post Concentrated Load, Ibf	500 held for 1 minute	500 held for 1 minute	Pass

Table 12. Test Results of Picket for In-fill load			
Picket Type	Test Result	Requirement	Pass/Fail
Standard	125 held for 1 minute	125 held for 1 minute	Pass
Wide	125 held for 1 minute	125 held for 1 minute	Pass
Basket	125 held for 1 minute	125 held for 1 minute	Pass





APPENDED PAGLENG DESTEN FOR 99 SELVER SP.



Fastened to building
Fastened to building
Weather colated screws
Built in 6'x6' Sections
Built in 6'x6' Sections
Fastened to each
other for easy
removal repair
sub
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