

# TEST REPORT

**Intertek**

**REPORT NUMBER: 3174887COQ-002B**

**ORIGINAL ISSUE DATE: April 6, 2009**

## **EVALUATION CENTER**

**INTERTEK TESTING SERVICES NA LTD.  
1500 BRIGANTINE DRIVE  
COQUITLAM, BC V3K 7C1**

## **RENDERED TO**

**EXCELL RAILING SYSTEMS LTD.  
#306 – 12886 ANVIL WAY  
SURREY, BC V3W 8E7**

**PRODUCT EVALUATED: Excell Picket and Glass Railing Systems  
EVALUATION PROPERTY: Load Requirements**

**Report of Excell Picket and Glass Railing Systems for  
compliance with the applicable requirements of the following  
criteria: 2006 International Building Code, Section 1607.7.1**

**THIS REPORT HAS BEEN EDITED BY EXCELL RAILING SYSTEMS. FOR A  
COPY OF THE ORIGINAL REPORT CONTACT EXCELL RAILING SYSTEMS.**

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## 2 Introduction

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Intertek Testing Services NA Ltd. (Intertek) has conducted a test program for Excell Railing Systems Ltd. on two face mounted aluminum railing systems. The evaluation was carried out to determine whether the railing systems would meet the loads specified in the 2006 International Building Code (IBC), Section 1607.7. The evaluation was conducted in the month of March 2009.

## 3 Test Samples

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### 3.1. SAMPLE SELECTION

The client submitted one (1) aluminum face mounted picket railing sample and one (1) aluminum face mounted glass in-fill railing sample to the Evaluation Center on March 16, 2009. Samples were not independently selected for testing and cannot be used for Intertek Certification.

### 3.2. SAMPLE AND ASSEMBLY DESCRIPTION

The samples were identified as the following:

- 6 ft. Excell Welded Picket Railing System, which consists of the following:

Post: 1.72 in. x 1.72 in. 6061-T6 extruded aluminum post

Base Plate: 2 in. x 2 in. x 5 in. x 1/4 in. 6061-T6 fascia mounted angle bars (2) each with 2 mounting holes

Top Rails: 42 in. high, 6063-T5 aluminum rail (1-piece round profile)

Picket Insert: 5/8 in. x 5/8 in. 6063-T5 aluminum spaced 4-1/2 in. o/c

Connections: Connection details are provided in Appendix B.

- 5 ft. Excell Glass In-fill Railing System, which consists of the following:

Post: 1.72 in. x 1.72 in. 6061-T6 extruded aluminum post

Base Plate: 2 in. x 2 in. x 5 in. x 1/4 in. 6061-T6 fascia mounted angle bars (2) each with 2 mounting holes

Top Rails: 42 in. high, 6063-T5 aluminum rail (1-piece round profile)

Panel Insert: 6 mm, tempered glass panel measuring 54 in. wide x 38 in. high

Connections: Connection details are provided in Appendix C.

Note: Post to sub-structure fastener evaluation is beyond the scope of this report. Four 3/8 inch Grade 5 bolts were used to install deck mount posts.

## 4 Testing and Evaluation Methods

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Each 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. As per Section 1607.7.1 of the 2006 IBC, the following tests were conducted:

### 4.1. GENERAL (Clause 1607.7.1)

One complete railing system, consisting of two posts, was tested at maximum spacing and in the worst-case scenario.

### 4.2. IN-FILL LOAD TEST (Clause 1607.7.1.2)

A load consisting of 125 lbf was applied over 1 sq. ft. (0.0929 m<sup>2</sup>) normal to the in-fill in a worst-case scenario for the picket railing system. A load consisting of 200 lbf was applied over 1 sq. ft. (0.0929 m<sup>2</sup>) normal to the in-fill in a worst-case scenario for the glass railing system. As per Section 2407.1.1 of the 2006 IBC, a safety factor of 4 was used for glass panel.

### 4.3. UNIFORM LOAD TEST (Clause 1607.7.1)

A load consisting of 125 lbf/ft was applied across the top rail of each system in a 45° vectored direction.

### 4.4. CONCENTRATED LOAD TEST (Clause 1607.7.1.1)

The top rail of the guardrail system was subjected to two separate tests where a concentrated load of 500 lbf was applied at the following locations:

- Horizontally at the centre of the guardrail.
- Horizontally at the top rail adjacent to the rail to post connection to verify the connection capacity.

## 5 Testing and Evaluation Results

### 5.1. RESULTS AND OBSERVATIONS

The product test results are shown in Table 1 below and a copy of the test data sheets are located in Appendix A.


Table 1. Test Results				
System Description	System Height (inches)	Maximum Post to Post Center Spacing (inches)	Test	Compliance
6 ft. Excell Welded Picket Railing System	42	72	In-fill load	Complied
			Uniform Load	Complied
			Mid-span Concentrated Load	Complied
			Adjacent to Post Concentrated Load	Complied
5 ft. Excell Glass In-fill Railing System	42	60	In-fill load	Complied
			Uniform Load	Complied
			Mid-span Concentrated Load	Complied
			Adjacent to Post Concentrated Load	Complied

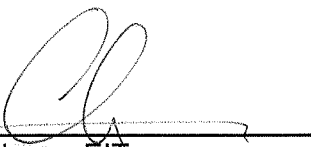
## 6 Conclusion


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The Excell Welded Picket and Glass In-fill Railing Systems identified in this test report have complied with the loads specified in the 2006 International Building Code, Section 1607.7.1 as presented in Section 5 of this test report.

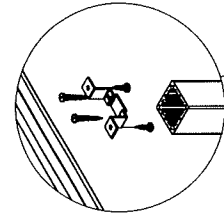
### INTERTEK TESTING SERVICES NA LTD.

Tested by:   
Riccardo DeSantis  
Project Coordinator / Test Technician, Construction Products

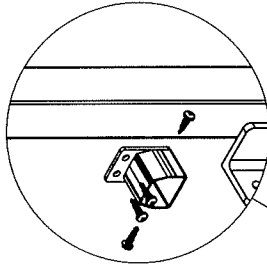
Reported by:   
Chris Chang, EIT  
Project Leader / Test Engineer, Construction Products

Reviewed by:   
Heiko Neugebauer, ASCT  
Manager, Fenestration / Construction Products Group

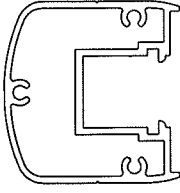
## EXCELL GLASS SYSTEM WITH 1.72" FASCIA POSTS



POST MOUNT PLATE FASTENED  
TO 1.72" FASCIA POST WITH  
2x #10x1 1/2" PH SS SCREWS  
AND TO TOP RAIL WITH  
2x #10x3/4" PH SS SCREWS



BOTTOM MOUNT FASTENED  
TO 1.72" FASCIA POST WITH  
2x #10x3/4" TEK SCREWS  
AND BOTTOM RAIL WITH  
2x #10x3/4" TEK SCREWS

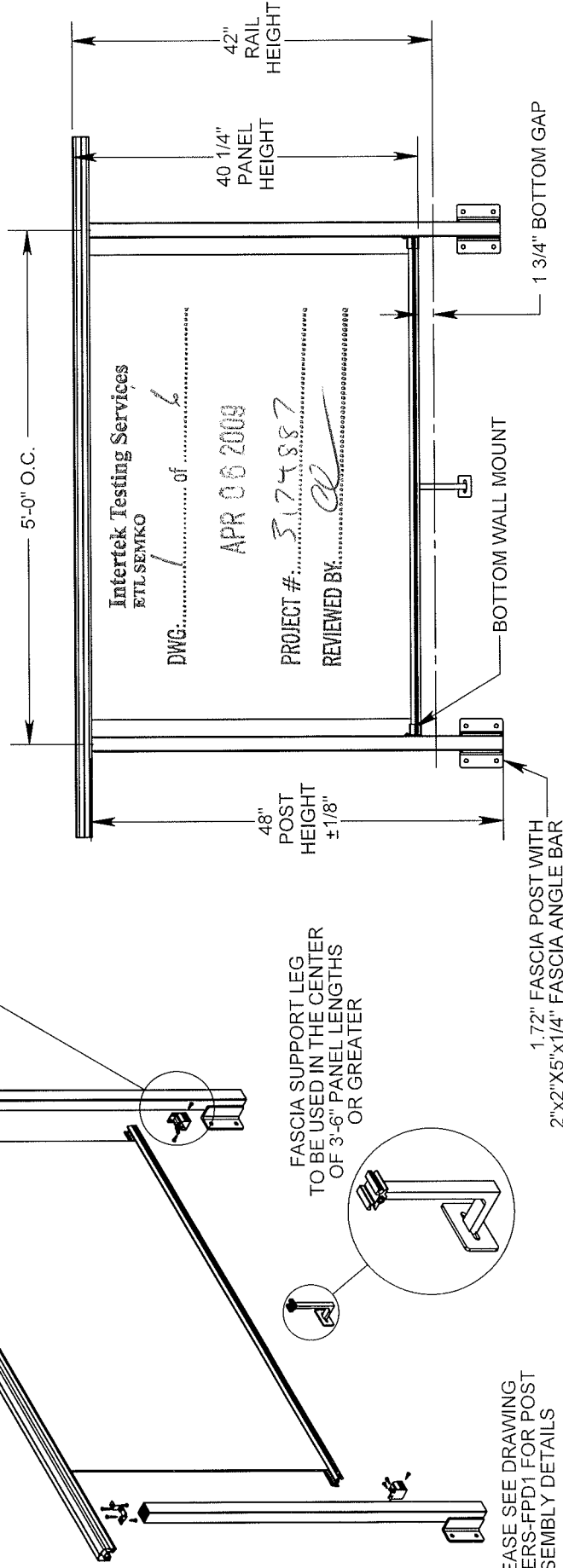


EXCELL ROUND  
COMPONENT GLASS  
TOP RAIL



EXCELL SQUARE  
COMPONENT GLASS  
TOP RAIL

COMPONENT GLASS  
BOTTOM RAIL



Intertek Testing Services  
ETL SEMKO

DWG:..... of ..... 6


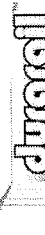
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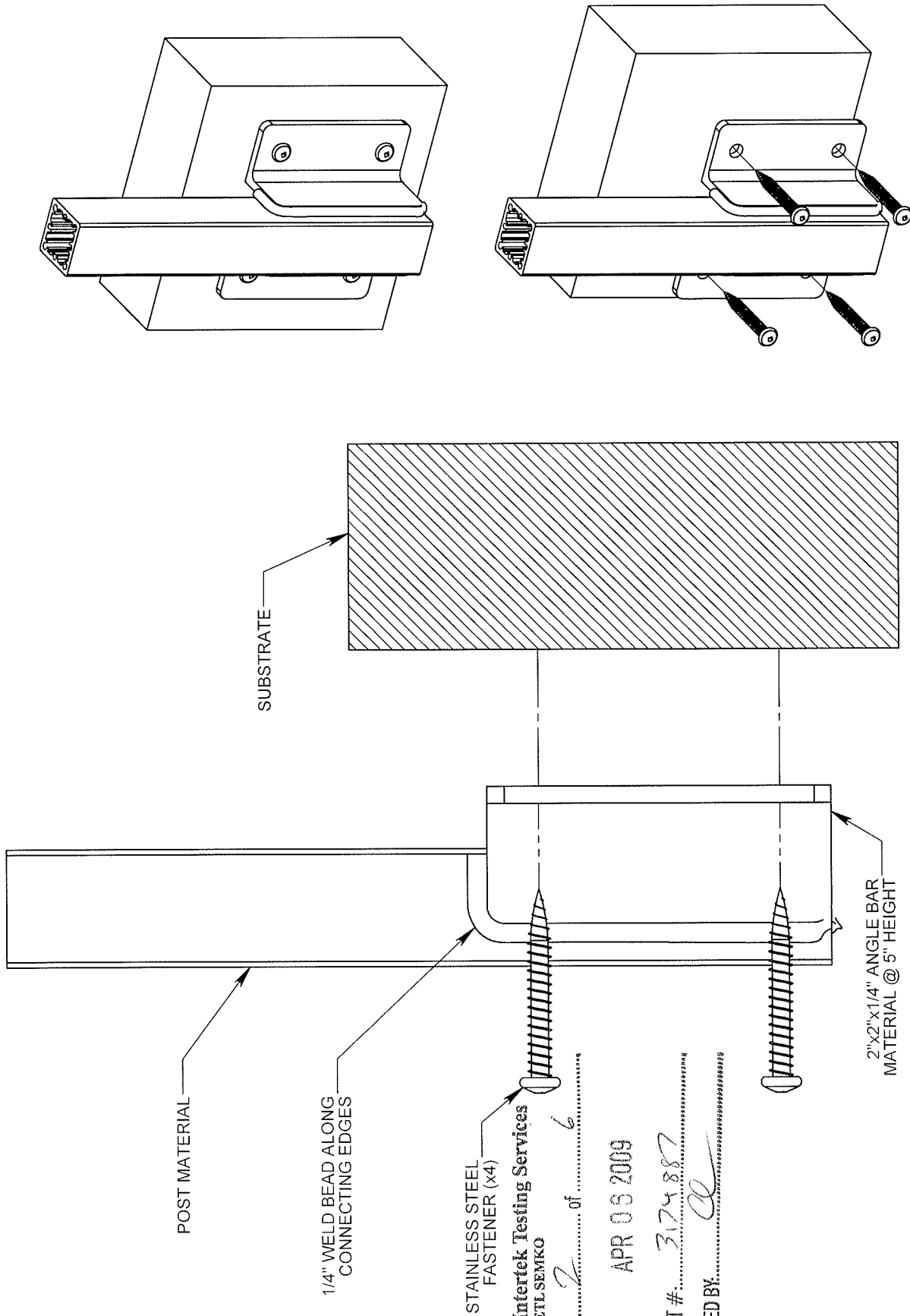
PROJECT #: 3175887

REVIEWED BY: *AL*

PLEASE SEE DRAWING  
08-ERS-FPD1 FOR POST  
ASSEMBLY DETAILS

ALL DIMENSIONS ARE SUBJECT TO SITE MEASUREMENTS AND ARE TO BE CONFIRMED BEFORE FABRICATION OF PRODUCT

 <b>EXCELL</b> RAILING SYSTEMS LTD.	ALL DIMENSIONS ARE SUBJECT TO SITE MEASUREMENTS AND ARE TO BE CONFIRMED BEFORE FABRICATION OF PRODUCT	
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	Date of Authorization	
	Drawing Name	
	Customer	
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North Kansas City, MO 64116		
Phone: 604-501-0151 Fax: 604-501-0155		
Toll Free: 1-866-999-7245		
www.excellrailing.com		
www.durarail.com		
Revision No.		
Scale		
NTS		
Last Update		
April 2, 2009		
Project Name		
Excell Glass Style 1 with 1.72 Fascia Posts (Engineer Report)		
Drawn By		
Csaba Bezzegh		
Date Created		
April 2, 2009		
Drawing Name		
09-ERSL-EGL1FASENG1		
Customer		
Excell Railing Systems Ltd.		
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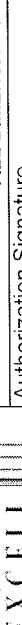
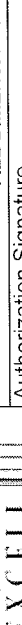
DWG: 2 of 6

APR 06 2009

PROJECT #: 374887

REVIEWED BY: [Signature]

ALL DIMENSIONS ARE SUBJECT TO SITE MEASUREMENTS AND ARE TO BE CONFIRMED BEFORE FABRICATION OF PRODUCT

		Authorization Signature		Date of Authorization		Drawing Name		08-ERS-FPD1									
<b>MANUFACTURER OF EXCELL &amp; DURARAIL PRODUCT LINES</b> 		Excell Railing Systems Ltd. #306 - 12886 Anvil Way Surrey, BC Canada V3W 8E7 Phone: 604-501-0151 Fax: 604-501-0155 Toll Free: 1-866-999-7245 www.excellrailing.com		Durarail Kansas City Warehouse 1722 Iron Street North Kansas City, MO 64116 Toll Free: 1-800-338-3568 Fax: 1-816-421-2924 www.durarail.com		Customer		Durarail / Excell Railing Systems									
						Project Name		Fascia Post Design									
						Drawn By		Csaba Bezzegh		Date Created		December 10, 2008					
						Revision No.		2		Scale		NTS		Last Update		April 6, 2009	
														\\bsrv\sales\Drawing Library\Engineering\Railing Assemblies\Posts and Base Plates\1.72 Inch Post\Fascia Installation\			