



# Test Report

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Intertek Testing Services  
ETL SEMKO

**ITS** Intertek Testing Services  
ETL SEMKO

ITS TEST REPORT #3009496-231-02

REPORT

OF

IMPACT TESTS

OF

7MM  
PYROGUARD  
GLAZING

FOR

CGI INTERNATIONAL LTD.  
DILLAM LANE  
WARRINGTON, CHESHIRE, UNITED KINGDOM WA2 7NT

BY

INTERTEK TESTING SERVICES NA INC.  
8431 MURPHY DRIVE  
MIDDLETON, WISCONSIN 53562

TEST DATE: OCTOBER 2, 2001  
REPORT DATE: OCTOBER 2, 2001

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Intertek Testing Services NA, Inc.

8431 Murphy Drive, Middleton, WI 53562

Telephone 608-836-4400 Fax 608-831-9279 Home Page [www.etlsemko.com](http://www.etlsemko.com)

Warnock Hersey



emc



RESULTS

**IMPACT TESTS**

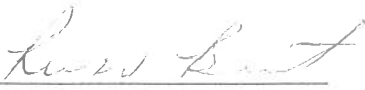
Sample	Average Thickness (mm)	Impact Height Inches	Results	Allowed
#1	6.84	18	No cracking	No shear or opening >3" diameter
#2	6.77	18	No cracking	No shear or opening >3" diameter
#3	6.79	18	Cracking occurred	No shear or opening >3" diameter
#4	6.85	18	No cracking	No shear or opening >3" diameter

A boil test was previously conducted on this product in accordance with ANSI Z97.1 1984 section 5.2 with no cracking or bubbles forming in the laminate (This complies with the requirements specified in the standard). Reference ITS test report #J20054357-231-01.

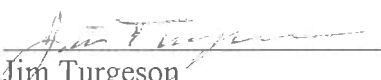
CONCLUSIONS

The 7mm Pyroguard laminated glazing samples under evaluation met the 18 inch impact requirements of ANSI Z97.1 1984.

Test Conducted by:

  
Russ Burt  
Associate Engineer

Report Reviewed by:

  
Jim Turgeson  
Fenestration Manager

ITS TEST REPORT #3009496-231-02  
MODEL: 7MM PYROGUARD GLAZING  
CLIENT: CGI INTERNATIONAL LTD.  
TEST DATE: OCTOBER 2, 2001

ANSI Z97.1 1984

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## INTRODUCTION

This report gives the results of the evaluation of the provided sample (Job #3009496 - 231). The test results described in this report are limited to the submitted items. On October 2, 2001, Intertek Testing Services performed tests on 7mm Pyroguard laminated glazing at the ITS Middleton, Wisconsin facility for CGI International Ltd. The samples were tested in accordance to ANSI Z97.1 1984.

Dimensional measurements taken with a digital caliper WHI #264 had an accuracy of +/- 0.001-inch. All impacts were made within +/- 1 foot pound of the indicated force.

## SPECIMEN DESCRIPTION

Manufacturer: CGI International Ltd.

Specimen size: 34" wide by 76" high by 7mm thick (Nominal).

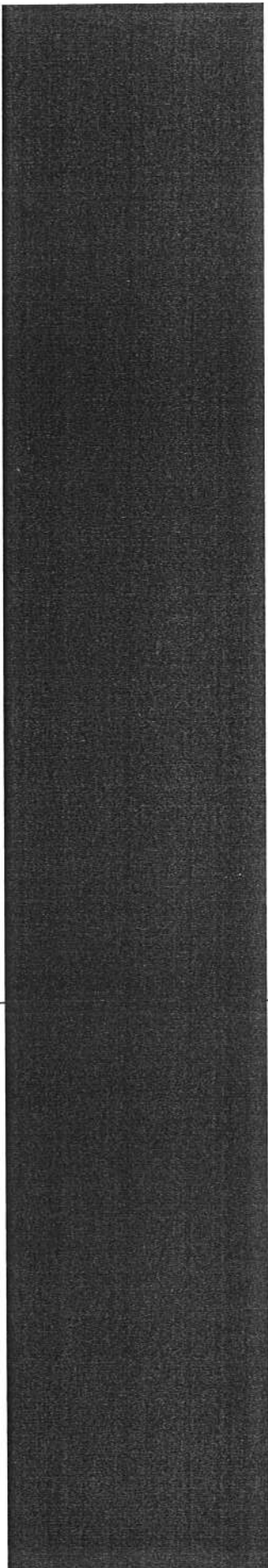
Description of typical specimen: Pyroguard Fire Resistant Impact Safety Glass

- Two layers of 2.87mm glass laminated together.
- Resin innerlayer

## PROCEDURE

The units were installed in a test frame built according to the test specifications in ANSI Z97.1 1984. The following test was conducted on the samples:

- ◆ Impact test per ANSI Z97.1 1984



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# Test Report

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Intertek Testing Services  
ETL SEMKO

ITS TEST REPORT #3009496-231-01

REPORT

OF

IMPACT TESTS

OF

7MM  
PYROGUARD  
GLAZING

FOR

CGI INTERNATIONAL LTD.  
DILLAM LANE  
WARRINGTON, CHESHIRE, UNITED KINGDOM WA2 7NT

BY

INTERTEK TESTING SERVICES NA INC.  
8431 MURPHY DRIVE  
MIDDLETON, WISCONSIN 53562

TEST DATE: OCTOBER 2, 2001  
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### INTRODUCTION

This report gives the results of the evaluation of the provided sample (Job #3009496 - 231). The test results described in this report are limited to the submitted items. On October 2, 2001, Intertek Testing Services performed tests on 7mm Pyroguard laminated glazing at the ITS Middleton, Wisconsin facility for CGI International Ltd. The samples were tested in accordance to CPSC 16CFR 1201-98.

Dimensional measurements taken with a digital caliper WHI #264 had an accuracy of +/- 0.001-inch. All impacts were made within +/- 1 foot pound of the indicated force.

### SPECIMEN DESCRIPTION

Manufacturer: CGI International Ltd.

Specimen size: 34" wide by 76" high by 7mm thick (Nominal).

Description of typical specimen: Pyroguard Fire Resistant Impact Safety Glass

- Two layers of 2.87mm glass laminated together.
- Resin innerlayer

### PROCEDURE

The units were installed in a test frame built according to the test specifications in CPSC 1201.4. The following test was conducted on the sample:

- ◆ Impact test per CPSC 1201 11-98



RESULTS

**IMPACT TESTS**

Sample	Average Thickness (mm)	Impact Height Inches	Results	Allowed
#1	6.84	18	No cracking	No shear or opening >3" diameter

A boil test was previously conducted on this product in accordance with CPSC 1201.4 with no cracking or bubbles forming in the laminate (This complies with the requirements specified in the standard). Reference ITS test report #J20054357-231-01.

CONCLUSIONS

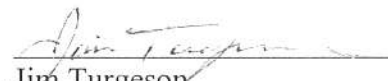
The 7mm Pyroguard laminated glazing sample under evaluation tested per the requirements of CPSC 1201 – 98 Impact test, met the safety requirements of Category I.

Test Conducted by:



Russ Burt  
Associate Engineer

Report Reviewed by:



Jim Turgeson  
Fenestration Manager

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