

# GGI GLASS DISTRIBUTORS TEST REPORT

**SCOPE OF WORK**

ASTM C1629 HARD BODY IMPACT RESISTANCE TESTING ON PYROBEL 120 2-1/8" THICK GLASS

**REPORT NUMBER**

H4184.01-106-31 R1

**TEST DATE(S)**

08/22/17 - 08/23/17

**ISSUE DATE**

09/01/17

**REVISED DATE**

10/05/17

**RECORD RETENTION END DATE**

08/23/21

**PAGES**

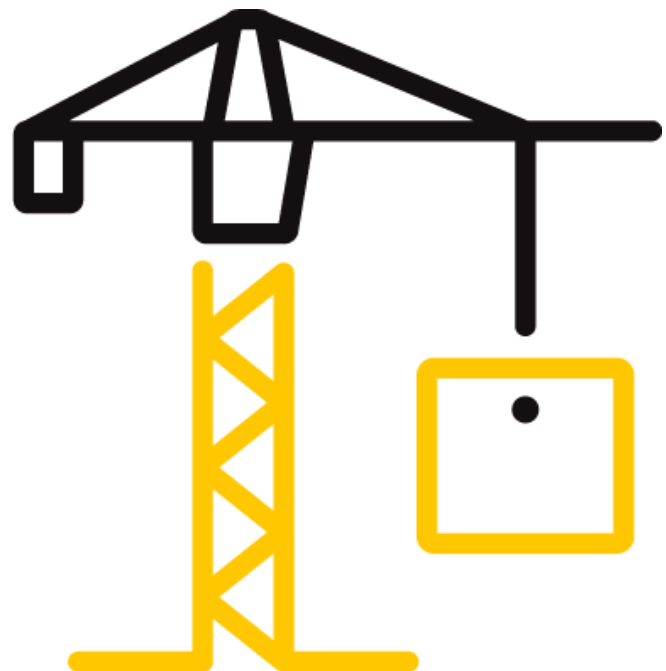
7

**DOCUMENT CONTROL NUMBER**

ATI 00231 (07/25/17)

RT-R-AMER-Test-2827

© 2017 INTERTEK



## TEST REPORT FOR GGI GLASS DISTRIBUTORS

Report No.: H4184.01-106-31 R1

Date: 09/01/17

### REPORT ISSUED TO

#### GGI GLASS DISTRIBUTORS CORP.

101 Venture Way

Secaucus, New Jersey 07094-1808

### SECTION 1

#### SCOPE

**Product:** Pyrobel 120 2-1/8" Thick Glass

Intertek Building & Construction (B&C) was contracted by GGI Glass Distributors Corp., to evaluate their Pyrobel 120 2-1/8" thick glass in general accordance with the Hard Body Impact Resistance test in ASTM C1629, Annex A1. Results obtained are tested values and were secured by using the designated test methods. Testing was conducted at the Intertek B&C test facility in York, Pennsylvania.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

For INTERTEK B&C:

|                      |                                       |
|----------------------|---------------------------------------|
| <b>COMPLETED BY:</b> | Andrew D. Cook                        |
| <b>TITLE:</b>        | Technician II<br>Materials Laboratory |
| <b>SIGNATURE:</b>    |                                       |
| <b>DATE:</b>         | 10/05/17                              |

ADC:jmb/kf

|                     |   |
|---------------------|---|
| <b>REVIEWED BY:</b> | Joseph M. Brickner                            |
| <b>TITLE:</b>       | Laboratory Supervisor<br>Materials Laboratory |
| <b>SIGNATURE:</b>   |   |
| <b>DATE:</b>        | 10/05/17                                      |

---

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 permit copying or distribution of 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(s) tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

## TEST REPORT FOR GGI GLASS DISTRIBUTORS

Report No.: H4184.01-106-31 R1

Date: 09/01/17

### SECTION 2

#### TEST METHOD

The specimens were evaluated in general accordance with the following:

**ASTM C1629/C1629M-15**, *Standard Classification for Abuse-Resistant Nondecorated Interior Gypsum Panel Products and Fiber-Reinforced Cement Panels.*

### SECTION 3

#### MATERIAL SOURCE

The glass was provided by GGI Glass Distributors Corp., and was received on August 8, 2017. The material was tested as received.

### SECTION 4

#### LIST OF OFFICIAL OBSERVERS

| NAME               | COMPANY      |
|--------------------|--------------|
| Andrew D. Cook     | Intertek B&C |
| Joseph M. Brickner | Intertek B&C |

### SECTION 5

#### TEST PROCEDURE

All conditioning of test specimens and test conditions were at standard laboratory conditions unless otherwise reported. Refer to the test related photos in Section 9.

#### **ASTM C1629 - Annex 1 - Hard Body Impact**

The nominally 2 ft. square glass panels were clamped to a metal frame, and impacted using a 150 lb. pendulum, swinging from a drop height of 1 ft, to achieve an impact energy of 150 ft-lb<sub>f</sub>. Failure was defined as any impact resulting in a penetration into the glass or an indent greater than the nominal thickness of the glass. Three specimens were tested on both sides of the glass.

Test Procedure - Deviation: The test was only run at the maximum impact energy prescribed by ASTM C1629. The test was not performed incrementally with increasing impact energy.

**TEST REPORT FOR GGI GLASS DISTRIBUTORS**

Report No.: H4184.01-106-31 R1

Date: 09/01/17

**SECTION 6****TEST SPECIMEN DESCRIPTIONS**

| TEST PROCEDURE | NUMBER OF SPECIMENS | NOMINAL SPECIMEN DIMENSIONS | VISUAL CHARACTERISTICS |
|----------------|---------------------|-----------------------------|------------------------|
| ASTM C1629     | 3                   | 24" x 24" x 2-1/8" thick    | Clear-Blue Glass       |

**SECTION 7****TEST RESULTS****ASTM C1629 Hard Body Impact Resistance**

| SPECIMEN   | OBSERVATIONS  |
|------------|---|
| 1 - Side 1 | No damage occurred to the glass                                     |
| 1 - Side 2 | No damage occurred to the glass                                     |
| 2 - Side 1 | Some cracking of glass, but no penetration or measurable indent     |
| 2 - Side 2 | Significant glass cracking, but no penetration or measurable indent |
| 3 - Side 1 | Some cracking of glass, but no penetration or measurable indent     |
| 3 - Side 2 | Significant glass cracking, but no penetration or measurable indent |

**SECTION 8****CONCLUSION**

The glass panels met the maximum performance requirements of ASTM C1629 Hard Body Impact testing. No impact penetrated through the glass or resulted in an indent greater than the thickness of the panel when impacted with 150 ft-lb<sub>f</sub>.

## TEST REPORT FOR GGI GLASS DISTRIBUTORS

Report No.: H4184.01-106-31 R1

Date: 09/01/17

### SECTION 9 PHOTOGRAPHS



**Photo No. 1**  
**Glass Panel As Received**



**Photo No. 2**  
**Specimen #1 After First Impact**

## TEST REPORT FOR GGI GLASS DISTRIBUTORS

Report No.: H4184.01-106-31 R1

Date: 09/01/17



**Photo No. 3**  
**Specimen #2 After First Impact**



**Photo No. 4**  
**Specimen #2 After Second Impact**

## TEST REPORT FOR GGI GLASS DISTRIBUTORS

Report No.: H4184.01-106-31 R1

Date: 09/01/17

### SECTION 10

#### REVISION LOG

| REVISION # | DATE     | PAGES      | REVISION                                      |
|------------|----------|------------|---|
| 0          | 09/01/17 | N/A        | Original Report Issue                         |
| 1          | 10/05/17 | Throughout | Added Pyrobel 120 to the product description. |