

CR LAURENCE CO., INC.

TEST REPORT

SCOPE OF WORK

FORCED ENTRY TESTING ON GDP4LHR, SCREEN PIVOT DOOR

REPORT NUMBER

I0061.01-303-47 R1

TEST DATE

03/29/18

ISSUE DATE

05/07/18

REVISION DATE

05/08/18

RECORD RETENTION END DATE

03/22/22

PAGES

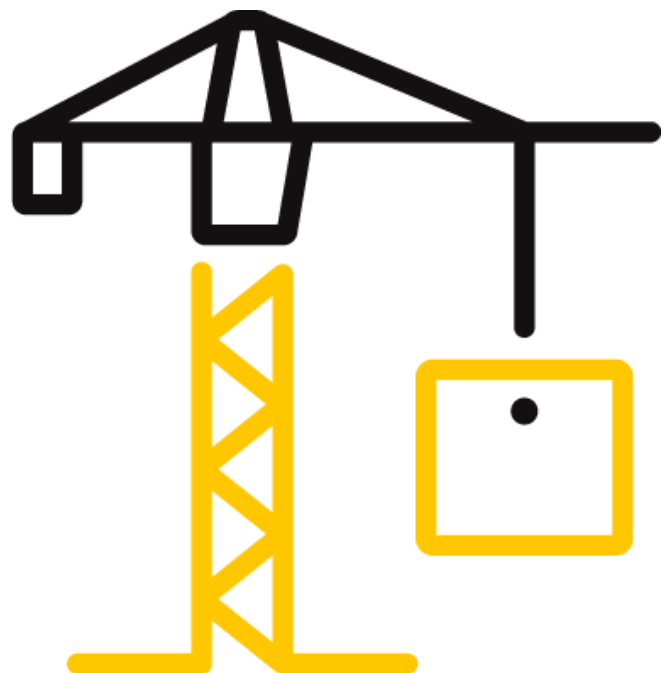
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TEST REPORT FOR CR LAURENCE CO., INC.

Report No.: I0061.01-303-47 R1

Date: 05/07/18

REPORT ISSUED TO**CR LAURENCE CO., INC.**2503 E. Vernon Avenue
Los Angeles, California 90058**SECTION 1****SCOPE**

Intertek Building & Construction (B&C) was contracted by CR Laurence Co., Inc. 2503 E. Vernon Avenue to perform testing in accordance with AAMA 1304, *Voluntary Specification for Forced Entry Resistance of Side-Hinged Door Systems*, and AS 5041-Section 3, *Methods of test – Security screen doors and window grilles*, on their GDP4LHR, Screen Pivot Door. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at CR Laurence Co., Inc. test facility in Los Angeles, California.

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

SECTION 2**SUMMARY OF TEST RESULTS**

| TITLE | RESULTS |
|---------------------|---------|
| AAMA 1304 | Pass |
| AS 5041 – Section 3 | Pass |

For INTERTEK B&C:

| | |
|---------------|--------------------|
| COMPLETED BY: | Jarod Hardman |
| TITLE: | Laboratory Manager |
| SIGNATURE: | |
| DATE: | 05/07/18 |

jsh:ss:ab

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TEST REPORT FOR CR LAURENCE CO., INC.

Report No.: I0061.01-303-47 R1

Date: 05/07/18

SECTION 3

TEST METHOD(S)

The specimens were evaluated in accordance with the following:

AAMA 205-15, *In-Plant Testing Guidelines for Manufacturers and Independent Laboratories*

AAMA 1304-02, *Voluntary Specification for Forced Entry Resistance of Side-Hinged Door Systems*

AS 5041-2003, *Methods of test – Security screen doors and window grilles, Section 3*

SECTION 4

MATERIAL SOURCE/INSTALLATION

Test specimen was provided by the client.

The specimen was installed into a Spruce-Pine-Fir wood buck. The rough opening allowed for a 1/8" shim space. The door was secured to test buck with #9 x 2" T20 trim head wood screws.. Installation of the tested product was performed by the client.

SECTION 5

LIST OF OFFICIAL OBSERVERS

| NAME | COMPANY |
|----------------|-----------------------|
| Jesus Gonzalez | CR Laurence Co., Inc. |
| Jarod Hardman | Intertek B&C |

SECTION 6

TEST SPECIMEN DESCRIPTION

Product Type: Screen Pivot Door

Series/Model: GDP4LHR

Product Size(s):

| OVERALL AREA: | WIDTH | | HEIGHT | |
|---|-------------|--------|-------------|---------|
| 1.77 m ² (19.1 ft ²) | millimeters | inches | millimeters | inches |
| Overall Size | 870 | 34-1/4 | 2040 | 80-5/16 |

TEST REPORT FOR CR LAURENCE CO., INC.

Report No.: I0061.01-303-47 R1

Date: 05/07/18

Frame Construction:

| FRAME MEMBER | MATERIAL | DESCRIPTION |
|-----------------------|--------------|--|
| Head, sill, and jambs | Aluminum | Part #G50MA144, Premium Door Frame (see attached drawings Section 9) |
| Head, sill, and jambs | Aluminum | Part #G50MA095, Snap In Cover, press fit into exterior face of door frame (see attached drawings Section 9) |
| | JOINERY TYPE | DETAIL |
| All Corners | Mitered | Secured at corners with corner block (Part #G50MA12), held in place with a #6 x 5/8" Phillips pan head screw on each member. |

Leaf Construction:

| LEAF MEMBER | MATERIAL | DESCRIPTION |
|-------------------------------|--------------|--|
| Top rail, bottom rail, stiles | Aluminum | Part #G50MA062, Premium Door Outer Sash (see attached drawings Section 9) |
| | JOINERY TYPE | DETAIL |
| All Corners | Mitered | Secured at corners with corner block (Part #G50MA1516), held in place with a #6 x 5/8" Phillips pan head screw on each member. |

Reinforcement: *No reinforcement was utilized.*
Weatherstripping:

| DESCRIPTION | QUANTITY | LOCATION |
|-----------------------------|----------|---|
| Amesbury TPE Bulb Seal 1179 | 1 row | Channel inserted full perimeter of frame at exterior face of interior leg of the extrusion. |
| Amesbury TPE Bulb Seal 1179 | 1 row | Channel inserted full perimeter of leaf at interior face of exterior leg of the extrusion. |

TEST REPORT FOR CR LAURENCE CO., INC.

Report No.: I0061.01-303-47 R1

Date: 05/07/18

Screen:

| SCREEN MATERIAL | WEAVE SPACING | GLAZING METHOD |
|--------------------------|---------------------|---|
| Stainless Steel 316 Mesh | 11 strands per inch | Channel glazed and secured with fixed gasket at exterior face (Part #G50MG023) and locking strip (Part #G50MG021) at interior with push-in gasket (Part #G50MG022) secondary at interior. |

| LOCATION | QUANTITY | DAYLIGHT OPENING | | GLASS BITE |
|----------|----------|------------------|---------------|------------|
| | | millimeters | inches | |
| Leaf | 1 | 659 x 1829 | 25-15/16 x 72 | 3/4" |

Drainage: No drainage was utilized.

Hardware:

| DESCRIPTION | QUANTITY | LOCATION |
|--|----------|---|
| French Stainless Steel Hinge (Part #G50MH029) | 3 | Secured to jamb with #8 x 3/4" Phillips flat head screws through predrilled holes. |
| Handle Assembly (Part #G50MH051B) with 3 point lock (Part #G50MH014) | 1 | Secured approximately 42" from sill into lock stile. |
| Strike (Part #G50MH032C) | 1 | Center strike, located directly opposite handle assembly on lock jamb. |
| Strike (Part #G50MH032TB) | 2 | Top and bottom strikes, located directly opposite top and bottom locking points on lock jamb. |

TEST REPORT FOR CR LAURENCE CO., INC.

Report No.: I0061.01-303-47 R1

Date: 05/07/18

SECTION 7
TEST RESULTS

The results are tabulated as follows:

| TITLE OF TEST | RESULTS | ALLOWED | NOTE |
|--|----------------------------|----------------------------------|------|
| Forced Entry Resistance, per AAMA 1304 | Top Corner ($\leq 6''$): | No entry | 1 |
| | Pass | | |
| | Lock ($\leq 3''$): | No entry | 1 |
| | Pass | | |
| Bottom Corner ($\leq 6''$): | Pass | No entry | 1 |
| | Pass | | |
| | Pass | | |
| Impact Resistance, Impact #1 per AS 5041 Section 3 100 J (73.8 lbf) | Pass 0.5 mm (0.02") | <65mm x 25 mm x 15 mm opening | 2, 3 |
| Impact Resistance, Impact #2 per AS 5041 Section 3 100 J (73.8 lbf) | Pass 2.3 mm (0.09") | <65mm x 25 mm x 15 mm opening | 2, 3 |
| Impact Resistance, Impact #3 per AS 5041 Section 3 100 J (73.8 lbf) | Pass 2.3 mm (0.09") | <65mm x 25 mm x 15 mm opening | 2, 3 |
| Impact Resistance, Impact #4 per AS 5041 Section 3 100 J (73.8 lbf) | Pass 4.1 mm (0.16") | <65mm x 25 mm x 15 mm opening | 2, 3 |
| Impact Resistance, Impact #5 per AS 5041 Section 3 100 J (73.8 lbf) | Pass 4.1 mm (0.16") | <65mm x 25 mm x 15 mm opening | 2, 3 |

General Note: All testing was performed in accordance with the referenced standard(s).

Note 1: Loads were held for 60 seconds.

Note 2: Allowed criteria based on Type III infill criteria.

Note 3: No penetration of screen material observed, deflection of material taken for reference purpose.

TEST REPORT FOR CR LAURENCE CO., INC.

Report No.: I0061.01-303-47 R1

Date: 05/07/18

SECTION 8 PHOTOGRAPHS



Photo No. 1
AAMA 1304 top corner pull



Photo No. 2
AAMA 1304 center pull at lock

TEST REPORT FOR CR LAURENCE CO., INC.

Report No.: I0061.01-303-47 R1

Date: 05/07/18

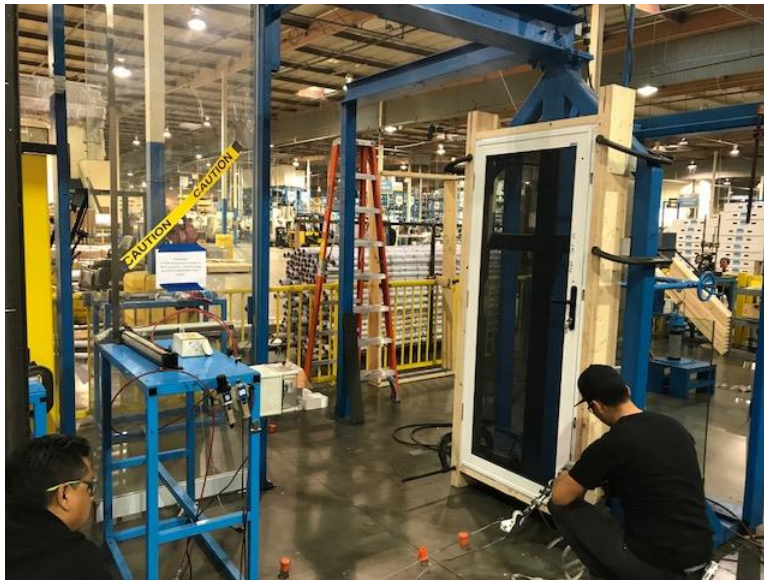


Photo No. 3
AAMA 1304 bottom corner pull



Photo No. 4
AS 5041 impact setup

TEST REPORT FOR CR LAURENCE CO., INC.

Report No.: I0061.01-303-47 R1

Date: 05/07/18



Photo No. 5
AS 5041 after impact #1



Photo No. 6
AS 5041 after impact #2

TEST REPORT FOR CR LAURENCE CO., INC.

Report No.: I0061.01-303-47 R1

Date: 05/07/18



Photo No. 7
AS 5041 after impact #3



Photo No. 8
AS 5041 after impact #4

TEST REPORT FOR CR LAURENCE CO., INC.

Report No.: I0061.01-303-47 R1

Date: 05/07/18



Photo No. 9
AS 5041 after impact #5



Photo No. 10
AS 5041 specimen interior after impact #5

TEST REPORT FOR CR LAURENCE CO., INC.

Report No.: I0061.01-303-47 R1

Date: 05/07/18



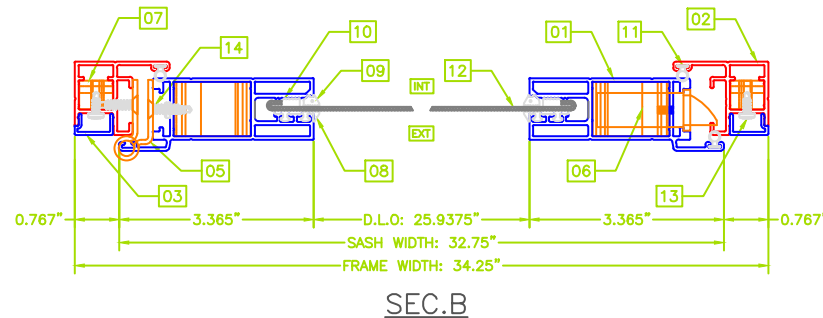
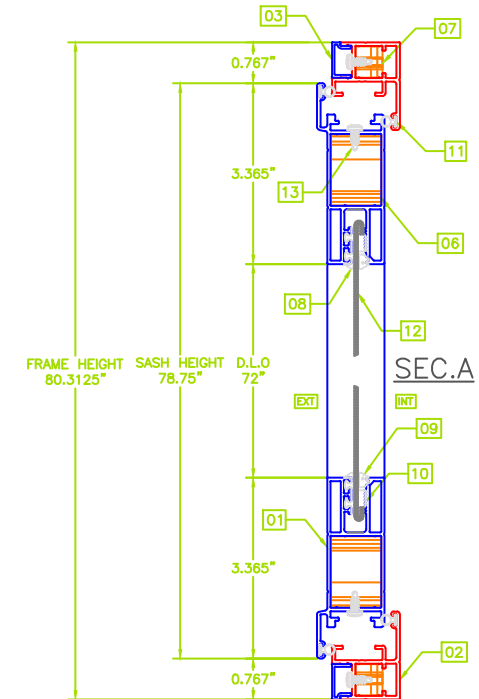
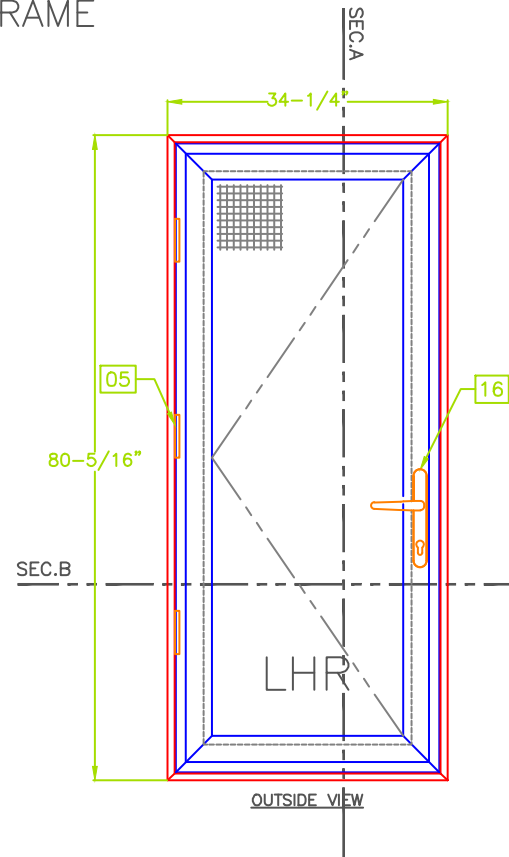
Photo No. 11
Screen infill measurement

SECTION 9 DRAWINGS

The test specimen drawings have been reviewed by Intertek B&C and are representative of the test specimen(s) reported herein.

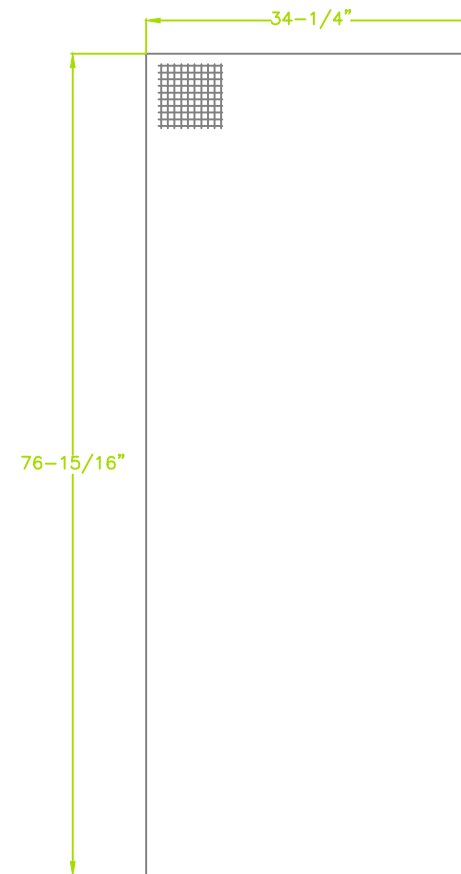
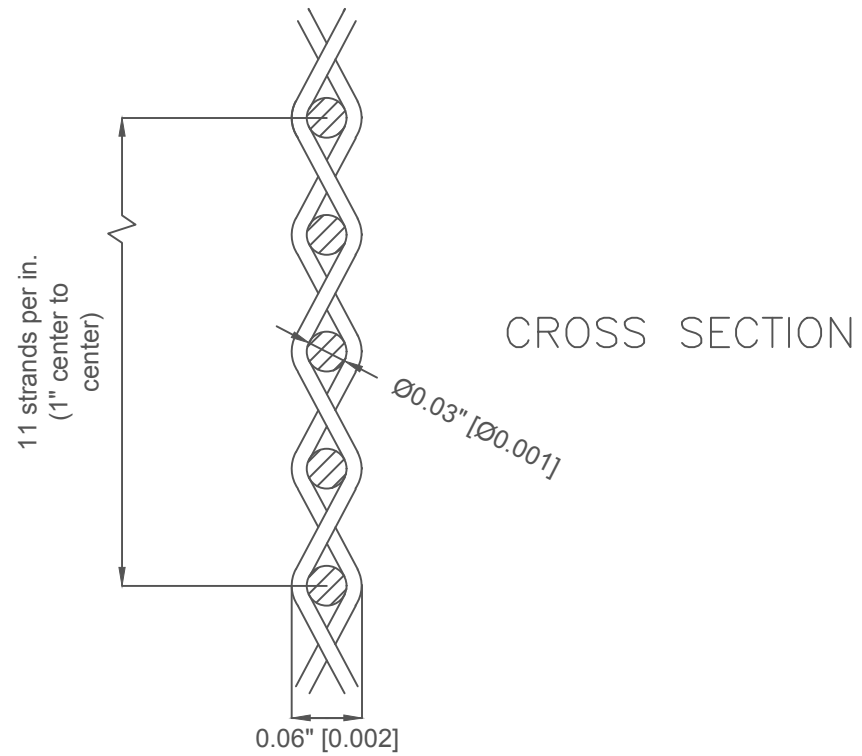
PREMIUM PIVOT DOOR 4 SIDED FRAME GDP4LHR

| Tag: | Part Number: | Description: |
|------|--------------|--|
| 01 | G50MA062 | CRL SS - Premium Door Outer Sash |
| 02 | G50MA144 | CRL SS - Premium Door Frame |
| 03 | G50MA095 | CRL SS - Snap In Cover (Frame) |
| 04 | G50MA084 | CRL SS - Bottom Weather Strip Retainer |
| 05 | G50MH029 | CRL SS - Premium/French Stainless Steel Hinge |
| 06 | G50MA1516 | CRL SS - Corner Block; (Premium Sash) |
| 07 | G50MA12 | CRL SS - Corner Block; (Fire Escape, Prem Frame) |
| 08 | G50MG023 | CRL SS - Fixed Gasket |
| 09 | G50MG022 | CRL SS - Push-In Gasket |
| 10 | G50MG021 | CRL SS - Locking Strip |
| 11 | G50MG012 | Amesbury TPE Bulb Seal 1179 |
| 12 | G50MESH | CRL SS - Stainless Steel 316 Mesh |
| 13 | 6X58PPHSDSS | #6 x 5/8", PHILLIPS PAN HEAD SCREW |
| 14 | G50MH086 | Nylon Brush, 13/16" x 96" Pemko (P516062) |
| | G50MH087 | Nylon Brush, 1-3/16" x 96" Pemko (P516100) |
| | G50MH088 | Nylon Brush, 1-9/16" x 96" Pemko (P516137) |
| 15 | G50MH014 | CRL SS - 3 Point Lock |
| 16 | G50MH051B | CRL SS - Handle, Black Finish |
| 17 | G50MH032C | CRL SS - Center Strike, BS Finish |
| 18 | G50MH032TB | CRL SS - Top & Bottom Strike, BS Finish |
| 19 | G50SCSC00 | CRL SS - Keyed Different Cylinder |
| | G50SCSC0_ | CRL SS - Keyed Alike Cylinder |

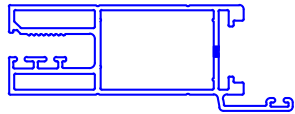


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| | Scale: As Noted |
| | Sheet No.: PTC665410-1 |

PREMIUM PIVOT DOOR 4 SIDED FRAME
SCREEN MATERIAL

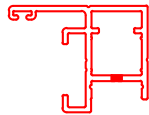


PREMIUM PIVOT DOOR 4 SIDED FRAME EXTRUSIONS LIST



G50MA062

CRL SS – Premium Door Outer Sash



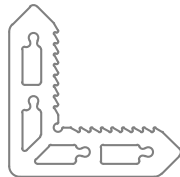
G50MA144

CRL SS – Premium Door Frame



G50MA095

CRL SS – Snap In Cover (Frame)



G50MA1516

CRL SS – Corner Block; (Premium Sash)



G50MG021

CRL SS – Locking Strip

| | |
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TEST REPORT FOR CR LAURENCE CO., INC.

Report No.: I0061.01-303-47 R1

Date: 05/07/18

SECTION 10

REVISION LOG

| REVISION # | DATE | PAGES | REVISION |
|------------|----------|-------|---|
| 0 | 05/07/18 | N/A | Original Report Issue |
| 1 | 05/08/18 | 2 | Correct AS standard number reference. |
| 1 | 05/08/18 | 3 | Correct installation method and fastener reference. |