FLEETWOOD GLAZING COMPARATIVE ANALYSIS

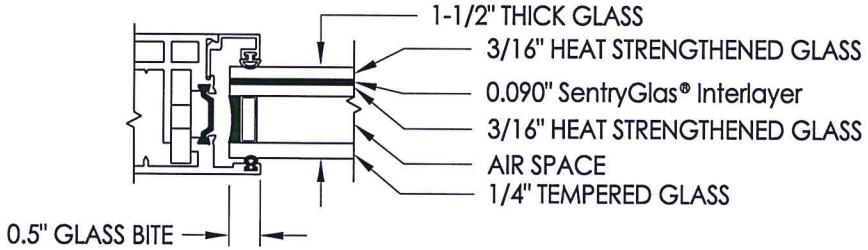
3900-T Aluminum Side Hinged Door

TEST REPORT: ***TEL 01991347***

			MAX. DLO (in.)	ASTM E1300 LOAD RESISTANCE (psf)
Door	TESTED GLAZING	A	36.0 x 109.0	> 209
	COMPARABLE GLAZING	A1	36.0 x 109.0	> 209
Sidelite	TESTED GLAZING	A	55.25 x 115.25	129
	COMPARABLE GLAZING	A1	55.25 x 115.25	168
Transom	TESTED GLAZING	A	102.25 X 43.25	179
	COMPARABLE GLAZING	A1	102.25 X 43.25	200

TESTED IMPACT GLAZING

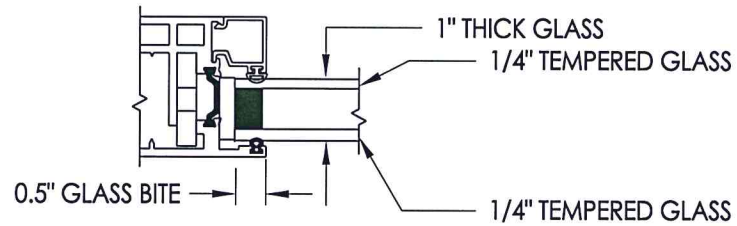
TEST REPORT: TEL 01991347



A GLAZING DETAIL

NON-IMPACT GLAZING

VERIFIED PER ASTM E1300



A1 GLAZING DETAIL

PRODUCT: FLEETWOOD SIDE HINGE DOOR

PART OR ASSEMBLY: GLAZING DETAILS

NO.	DATE	BY

REVISIONS

RW BUILDING CONSULTANTS, INC.
813.659.9197

DATE: 9-2-15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: NA
SHEET 1 OF 1

R:\Clients\Fleetwood PERMANENT\A - Florida Product Approvals\FL-17954 Hinged Single Door\NAMI NON-IMPACT GLAS CALCS\GLAZING ASTM E1300..dwg, GLAZING-:

Glass Load Resistance Report -- FLEETWOOD NON-IMPACT GLASS COMPARISON

Glazing Information

Edge Supports: 4 Sides
Glazing Angle: 90°
Lite Dimensions:
Width: 36.0 in.
Height: 109 in.

Project Details

Project Name: FLEETWOOD NON-IMPACT GLASS COMPARISON
Location: FLEETWOOD SIDE HINGED DOOR
Comments: TESTED IMPACT GLASS
"A" GLAZING (DOOR)

Glass Construction (Rectangular)

Double Glazed Insulating Unit
Outboard Lite: { Fully Tempered }
Nominal Thickness: 1/4 in.

Air Space: 0.5 in.
Inboard Lite: { Heat Strengthened }
Interlayer Type: SentryGlas® Plus
Outboard Ply Thickness: 3/16 in.
Interlayer Thickness: 0.09 in.
Inboard Ply Thickness: 3/16 in.
Nominal Thickness: 3/8 in.

Short Load Duration, Resistance, and Deflection Data

Load (~ 3 sec.):	55.0 psf
Load Resistance:	> 209 psf
Approximate center of glass deflection:	0.16 in.

Conclusion

Based on your design information, the load resistance is greater than or equal to the specified loading.

Statement of Compliance

Procedures followed in determining the resistance of this window glass are in accordance with ASTM E1300-04.

Disclaimer:

This software can be used to determine the load resistance of specified glass types exposed to uniform lateral loads of short or long duration subject to the following conditions:

- The glass is free of edge and surface damage and has been properly glazed in the opening in conformance with the manufacturer's recommendations.
- Procedures exist to determine load resistance for rectangular glass assemblies that are:
  a. Continuously supported along all four edges,
  b. Continuously supported along three edges,
  c. Continuously supported along two parallel edges, and
  d. Continuously supported along one edge.
- The software user has the responsibility of selecting the correct procedures for the required application from the software.
- The stiffness of members supporting any glass edge shall be sufficient that under design load, edge deflections shall not exceed L/175, where L denotes that length of the supported edge.
- The manufacturer states that the Safety Plus II 0.090 Polyurethane Large Missile Resistant interlayer is comparable to the PVB interlayer.
- The non-factored load values for laminated glass are representative of test data and calculations performed for an interlayer at a temperature of 50° C (122° F).

For other limiting conditions that may apply, refer to Section 5 of ASTM E1300 and local building codes.

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Prepared by: LFS on 9/2/2015

Glass Load Resistance Report -- FLEETWOOD NON-IMPACT GLASS COMPARISON

Glazing Information

Edge Supports: 4 Sides
Glazing Angle: 90°
Lite Dimensions:
Width: 36.0 in.
Height: 109 in.

Project Details

Project Name: FLEETWOOD NON-IMPACT GLASS COMPARISON
Location: FLEETWOOD SIDE HINGED DOOR
Comments: NON-IMPACT COMPARABLE GLASS
1/4" TEMPERED "A1" GLAZING (DOOR)

Glass Construction (Rectangular)

Double Glazed Insulating Unit
Outboard Lite: { Fully Tempered }
Nominal Thickness: 1/4 in.

Air Space: 0.5 in.
Inboard Lite: { Fully Tempered }
Nominal Thickness: 1/4 in.

Short Load Duration, Resistance, and Deflection Data

Load (~ 3 sec.):	55.0 psf
Load Resistance:	> 209 psf
Approximate center of glass deflection:	0.38 in.

Conclusion

Based on your design information, the load resistance is greater than or equal to the specified loading.

Statement of Compliance

Procedures followed in determining the resistance of this window glass are in accordance with ASTM E1300-04.

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Prepared by: LFS on 9/2/2015

Glass Load Resistance Report -- FLEETWOOD NON-IMPACT GLASS COMPARISON

Glazing Information

Edge Supports: 4 Sides
Glazing Angle: 90°
Lite Dimensions:
Width: 55.2 in.
Height: 115 in.

Project Details

Project Name: FLEETWOOD NON-IMPACT GLASS COMPARISON
Location: FLEETWOOD SIDE HINGED DOOR
Comments: TESTED IMPACT GLASS
"A" GLAZING (SIDELITE)

Glass Construction (Rectangular)

Double Glazed Insulating Unit
Outboard Lite: { Fully Tempered }
Nominal Thickness: 1/4 in.

Air Space: 0.5 in.
Inboard Lite: { Heat Strengthened }
Interlayer Type: SentryGlas® Plus
Outboard Ply Thickness: 3/16 in.
Interlayer Thickness: 0.09 in.
Inboard Ply Thickness: 3/16 in.
Nominal Thickness: 3/8 in.

Short Load Duration, Resistance, and Deflection Data

Load (~ 3 sec.):	55.0 psf
Load Resistance:	129 psf
Approximate center of glass deflection:	0.53 in.

Conclusion

Based on your design information, the load resistance is greater than or equal to the specified loading.

Statement of Compliance

Procedures followed in determining the resistance of this window glass are in accordance with ASTM E1300-04.

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- The manufacturer states that the Safety Plus II 0.090 Polyurethane Large Missile Resistant interlayer is comparable to the PVB interlayer.
- The non-factored load values for laminated glass are representative of test data and calculations performed for an interlayer at a temperature of 50° C (122° F).

For other limiting conditions that may apply, refer to Section 5 of ASTM E1300 and local building codes.

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Prepared by: _____ on 9/2/2015
LFS

Glass Load Resistance Report -- FLEETWOOD NON-IMPACT GLASS COMPARISON

Glazing Information

Edge Supports: 4 Sides
Glazing Angle: 90°
Lite Dimensions:
Width: 55.2 in.
Height: 115 in.

Project Details

Project Name: FLEETWOOD NON-IMPACT GLASS COMPARISON
Location: FLEETWOOD SIDE HINGED DOOR
Comments: NON-IMPACT COMPARABLE GLASS
1/4" TEMPERED "A1" GLAZING (SIDELITE)

Glass Construction (Rectangular)

Double Glazed Insulating Unit
Outboard Lite: { Fully Tempered }
Nominal Thickness: 1/4 in.

Air Space: 0.5 in.
Inboard Lite: { Fully Tempered }
Nominal Thickness: 1/4 in.

Short Load Duration, Resistance, and Deflection Data

Load (~ 3 sec.):	55.0 psf
Load Resistance:	168 psf
Approximate center of glass deflection:	0.98 in.

Conclusion

Based on your design information, the load resistance is greater than or equal to the specified loading.

Statement of Compliance

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Prepared by: _____ on 9/2/2015
LFS

Glass Load Resistance Report -- FLEETWOOD NON-IMPACT GLASS COMPARISON

Glazing Information

Edge Supports: 4 Sides
Glazing Angle: 90°
Lite Dimensions:

Width:	102 in.
Height:	43.2 in.

Project Details

Project Name: FLEETWOOD NON-IMPACT GLASS COMPARISON
Location: FLEETWOOD SIDE HINGED DOOR
Comments: TESTED IMPACT GLASS
"A" GLAZING (TRANSOM)

Glass Construction (Rectangular)

Double Glazed Insulating Unit

Outboard Lite: { Fully Tempered }

Nominal Thickness: 1/4 in.

Air Space: 0.5 in.

Inboard Lite: { Heat Strengthened }

Interlayer Type:	SentryGlas® Plus
Outboard Ply Thickness:	3/16 in.
Interlayer Thickness:	0.09 in.
Inboard Ply Thickness:	3/16 in.
Nominal Thickness:	3/8 in.

Short Load Duration, Resistance, and Deflection Data

Load (~ 3 sec.):	55.0 psf
Load Resistance:	179 psf
Approximate center of glass deflection:	0.28 in.

Conclusion

Based on your design information, the load resistance is greater than or equal to the specified loading.

Statement of Compliance

Procedures followed in determining the resistance of this window glass are in accordance with ASTM E1300-04.

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Glass Load Resistance Report -- FLEETWOOD NON-IMPACT GLASS COMPARISON

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Edge Supports: 4 Sides
Glazing Angle: 90°
Lite Dimensions:
Width: 102 in.
Height: 43.2 in.

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Location: FLEETWOOD SIDE HINGED DOOR
Comments: NON-IMPACT COMPARABLE GLASS
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Glass Construction (Rectangular)

Double Glazed Insulating Unit
Outboard Lite: { Fully Tempered }
Nominal Thickness: 1/4 in.

Air Space: 0.5 in.
Inboard Lite: { Fully Tempered }
Nominal Thickness: 1/4 in.

Short Load Duration, Resistance, and Deflection Data

Load (~ 3 sec.):	55.0 psf
Load Resistance:	200 psf
Approximate center of glass deflection:	0.58 in.

Conclusion

Based on your design information, the load resistance is greater than or equal to the specified loading.

Statement of Compliance

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