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NORTH EAST WINDOWS USA THERMAL PERFORMANCE TEST REPORT

SCOPE OF WORK
900 DOUBLE HUNG

REPORT NUMBER
J8171.01-116-46 R0

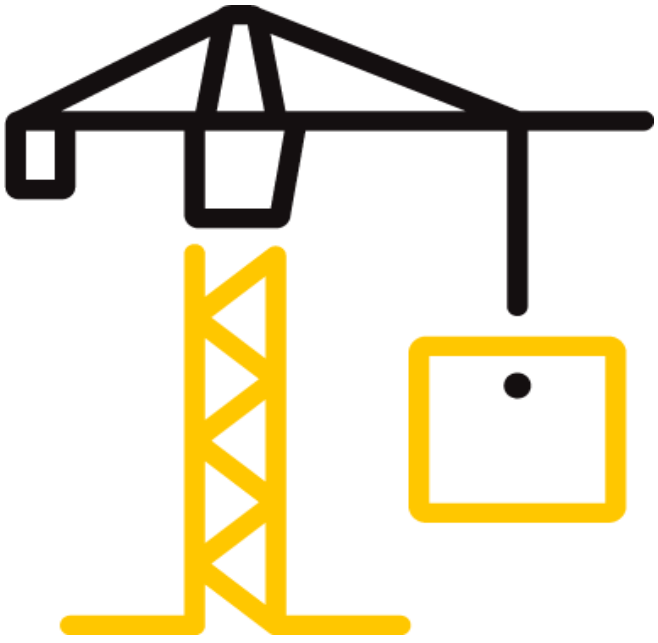
TEST DATE
08/28/19

ISSUE DATE
09/09/19

RECORD RETENTION END DATE
08/28/24

PAGES
25

DOCUMENT CONTROL NUMBER
RTTDS-R-AMER-Test-2822(a) (07/07/18)



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York, Pennsylvania 17406

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TEST REPORT FOR NORTH EAST WINDOWS USA, INC.
Report No.: J8171.01-116-46 R0
Date: 09/09/19

REPORT ISSUED TO

NORTH EAST WINDOWS USA, INC.
One Kees Place
Merrick, New York 11566

SECTION 1

SCOPE

SERIES/MODEL: 900 Double Hung
TYPE: Vertical Slider (Double Hung)

Intertek Building & Construction (Intertek B&C) was contracted by North East Windows USA, Inc. to evaluate the thermal performance per NFRC 102-2017. The purpose of this testing was to evaluate the U-Factor performance. Results obtained are tested values and were secured by using the designated test method. Testing was conducted at 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.

SECTION 2

SUMMARY OF TEST RESULTS

Standardized U-factor (Ust): 0.27 Btu/hr·ft^2·F (CTS Method)

For INTERTEK B&C:

COMPLETED BY	Ryan P. Moser	**REVIEWED BY**	Shon W. Einsig
TITLE	Senior Technician	**TITLE**	Technician Team Leader, IIRC
SIGNATURE		**SIGNATURE**	
DATE	09/09/19	**DATE**	09/09/19

RPM:pan

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SECTION 3
TEST SPECIMEN SUMMARY

SERIES/MODEL	900 Double Hung
TYPE	Vertical Slider (Double Hung)
OVERALL SIZE	47-1/4" x 59" (1200 mm x 1499 mm) (Model Size)
NFRC STANDARD SIZE	47.2" x 59.1" (1200 mm wide x 1500 mm high)
TEST SAMPLE SUBMITTED BY	Client
TEST SAMPLE SUBMITTED FOR	Validation for Recertification (Production Line Unit) & Plant Qualification

SECTION 4
TEST METHOD

The specimens were evaluated in accordance with the following:

> **NFRC 102-2017**, Procedure for Measuring the Steady-State Thermal Transmittance of Fenestration Systems

SECTION 5
MATERIAL SOURCE/INSTALLATION

The test specimen was provided by the client. Representative samples of the test specimen will be retained by Intertek B&C for a minimum of two and half years from the submittal date to the Inspection Agency and no more than 5 years from the test date.

Test Chamber Installation

The test sample was installed in a vertical orientation, the exterior of the specimen was exposed to the cold side.

SECTION 6
LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Ryan P. Moser	Intertek B&C
Shon W. Einsig	Intertek B&C

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SECTION 7
TEST SAMPLE DESCRIPTION

Frame

MATERIAL	VY: Vinyl*		
SIZE	47-1/4" x 59" (Model Size)		
DAYLIGHT OPENING	N/A	**GLAZING METHOD**	N/A
EXTERIOR COLOR	White	**EXTERIOR FINISH**	Vinyl
INTERIOR COLOR	White	**INTERIOR FINISH**	Vinyl
CORNER JOINERY	Mitered / Welds / Unsealed		

*Jambs contained EPS insulation in exterior cavity

Exterior Sash

MATERIAL	VY: Vinyl		
SIZE	43-3/4" x 28-1/8"		
DAYLIGHT OPENING	40-1/2" x 24-7/8"	**GLAZING METHOD**	Exterior
EXTERIOR COLOR	White	**EXTERIOR FINISH**	Vinyl
INTERIOR COLOR	White	**INTERIOR FINISH**	Vinyl
CORNER JOINERY	Mitered / Welds / Unsealed		

Interior Sash

MATERIAL	VI: Vinyl with Interlock Reinforced with Aluminum		
SIZE	44-3/4" x 29-1/8"		
DAYLIGHT OPENING	41-1/2" x 25-7/8"	**GLAZING METHOD**	Exterior
EXTERIOR COLOR	White	**EXTERIOR FINISH**	Vinyl
INTERIOR COLOR	White	**INTERIOR FINISH**	Vinyl
CORNER JOINERY	Mitered / Welds / Unsealed		

Glazing Information

LAYER 1	DS	AGC Comfort Select 28 (e=0.023*, #2)	
GAP 1	0.63"	P1-S: Duralite Spacer	90% Argon*
LAYER 2	DS	AGC Comfort Select 73 (e=0.148*, #4)	
GAS FILL METHOD	Single-Probe Method*		

**Stated per Client/Manufacturer*
N/A Non-Applicable

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SECTION 7 (CONTINUED)

TEST SAMPLE DESCRIPTION (CONTINUED)

Weatherstripping

DESCRIPTION	QUANTITY	LOCATION
Polypile with center fin	2 Rows	All stiles and exterior meeting rail
Polypile with center fin	1 Row	Interior meeting rail, top rail and sill
Wrapped foam gasket	1 Row	Bottom rail

Hardware

DESCRIPTION	QUANTITY	LOCATION
Plastic cam sweep lock	2	Interior meetign rail
Plastic keeper	2	Exterior meetign rail
Metal pivot bar	4	Bottom corners of each sash
Plastic tilt-latch	4	Top rail of each sash
Safety latch	2	Exterior sash stiles
Constant force balance	4	Two per jambs
Vinyl insert	1	Head

Drainage

DRAINAGE METHOD	SIZE	QUANTITY	LOCATION
Weepslot	0.38" x 0.13"	6	Bottom corners of eash sash, screen track
Diameter weephole	0.25"	2	Screen track
Weepslot	1.19" x 0.13"	2	Sill face
Sloped sill		1	Sill

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SECTION 8
THERMAL TRANSMITTANCE (U-FACTOR): MEASURED TEST DATA

Heat Flows

1.	Total Measured Input into Metering Box (Qtotal)	448.22	Btu/hr
2.	Surround Panel Heat Flow (Qsp)	51.64	Btu/hr
3.	Surround Panel Thickness	4.00	inches
4.	Surround Panel Conductance	0.0472	Btu/hr·ft^2·F
5.	Metering Box Wall Heat Flow (Qmb)	8.59	Btu/hr
6.	EMF vs Heat Flow Equation (equivalent information)	0.0124*EMF + -0.206	
7.	Flanking Loss Heat Flow (Qfl)	13.59	Btu/hr
8.	Net Specimen Heat Loss (Qs)	374.40	Btu/hr

Areas

1.	Test Specimen Projected Area (As)	19.36	ft^2
2.	Test Specimen Interior Total (3-D) Surface Area (Ah)	23.46	ft^2
3.	Test Specimen Exterior Total (3-D) Surface Area (Ac)	23.55	ft^2
4.	Metering Box Opening Area (Amb)	36.11	ft^2
5.	Metering Box Baffle Area (Ab1)	33.94	ft^2
6.	Surround Panel Interior Exposed Area (Asp)	16.75	ft^2

Test Conditions

1.	Average Metering Room Air Temperature (th)	69.81	F
2.	Average Cold Side Air Temperature (tc)	-0.40	F
3.	Average Guard/Environmental Air Temperature	71.25	F
4.	Metering Room Average Relative Humidity	13.95	%
5.	Metering Room Maximum Relative Humidity	14.83	%
6.	Metering Room Minimum Relative Humidity	12.46	%
7.	Measured Cold Side Wind Velocity (Perpendicular Flow)	12.66	mph
8.	Measured Warm Side Wind Velocity (Parallel Flow)	N/A	mph
9.	Measured Static Pressure Difference Across Test Specimen	0.00" ± 0.04"	H_2O

Average Surface Temperatures

1.	Metering Room Surround Panel	65.58	F
2.	Cold Side Surround Panel	0.26	F

Results

1.	Thermal Transmittance of Test Specimen (Us)	0.28	Btu/hr·ft^2·F
2.	Standardized Thermal Transmittance of Test Specimen (Ust)	0.27	Btu/hr·ft^2·F

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SECTION 9
THERMAL TRANSMITTANCE (U-FACTOR): CALCULATED TEST DATA

CTS Method Results

1.	Warm Side Emittance of Glass (e1)	0.84	
2.	Cold Side Emittance of Glass	0.84	
3.	Warm Side Frame Emittance*	0.90	
4.	Cold Side Frame Emittance*	0.90	
5.	Warm Side Sash/Panel/Vent Emittance*	0.90	
6.	Cold Side Sash/Panel/Vent Emittance*	0.90	
7.	Warm Side Baffle Emittance (eb1)	0.92	
8.	Cold Side Baffle Emittance (eb2)	N/A	
9.	Equivalent Warm Side Surface Temperature (t1)	55.83	F
10.	Equivalent Cold Side Surface Temperature (t2)	3.37	F
11.	Warm Side Baffle Surface Temperature	68.81	F
12.	Cold Side Baffle Surface Temperature	N/A	F
13.	Measured Warm Side Surface Conductance (hh)	1.38	$Btu/hr \cdot ft^2 \cdot F$
14.	Measured Cold Side Surface Conductance (hc)	5.12	$Btu/hr \cdot ft^2 \cdot F$
15.	Test Specimen Thermal Conductance (Cs)	0.37	$Btu/hr \cdot ft^2 \cdot F$
16.	Convection Coefficient (Kc)	0.35	$Btu/(hr \cdot ft^2 \cdot F^{1.25})$
17.	Radiative Test Specimen Heat Flow (Qr1)	191.61	Btu/hr
18.	Conductive Test Specimen Heat Flow (Qc1)	182.79	Btu/hr
19.	Radiative Heat Flux of Test Specimen (qr1)	9.90	$Btu/hr \cdot ft^2 \cdot F$
20.	Convective Heat Flux of Test Specimen (qc1)	9.44	$Btu/hr \cdot ft^2 \cdot F$
21.	Standardized Warm Side Surface Conductance (hsth)	1.21	$Btu/hr \cdot ft^2 \cdot F$
22.	Standardized Cold Side Surface Conductance (hstc)	5.28	$Btu/hr \cdot ft^2 \cdot F$
23.	Standardized Thermal Transmittance (Ust)	0.27	$Btu/hr \cdot ft^2 \cdot F$

**Stated per NFRC 101*

SECTION 10
TEST DURATION

1. The environmental systems were started at 06:58 hours, 08/27/19.
2. The test parameters were considered stable for two consecutive four hour test periods from 08:28 hours, 08/28/19 to 16:28 hours, 08/28/19.
3. The thermal performance test results were derived from 12:28 hours, 08/28/19 to 16:28 hours, 08/28/19.

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SECTION 11
GLAZING DEFLECTION

	EXTERIOR SASH	INTERIOR SASH
EDGE GAP WIDTH	0.63"	0.63"
ESTIMATED CENTER GAP WIDTH upon receipt of specimen in laboratory (after stabilization)	0.66"	0.78"
CENTER GAP WIDTH at laboratory ambient conditions on day of testing	0.66"	0.78"
CENTER GAP WIDTH at test conditions	0.56"	0.66"

Glass collapse determined using a digital glass and air space meter

The sample was inspected for the formation of frost or condensation, which may influence the surface temperature measurements. The sample showed no evidence of condensation/frost at the conclusion of the test.

"This test method does not include procedures to determine the heat flow due to either air movement through the specimen or solar radiation effects. As a consequence, the thermal transmittance results obtained do not reflect performances which are expected from field installations due to not accounting for solar radiation, air leakage effects, and the thermal bridge effects that have the potential to occur due to the specific design and construction of the fenestration system opening. The latter can only be determined by in-situ measurements. Therefore, it is important to recognize that the thermal transmittance results obtained from this test method are for ideal laboratory conditions and should only be used for fenestration product comparisons and as input to thermal performance analyses which also include solar, air leakage and thermal bridge effects."

Required annual calibrations for the Intertek B&C, 'thermal test chamber' (ICN 000001) in York, Pennsylvania were last conducted in May 2019 in accordance with Intertek B&C calibration procedure. A CTS Calibration verification was performed August 2018. A Metering Box Wall Transducer and Surround Panel Flanking Loss Characterization was performed August 2018.

The reported Standardized Thermal Transmittance (Ust) was determined using CTS Method, per Section 9.2(A) of NFRC 102.

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Date: 09/09/19

SECTION 12
CTS CALIBRATION DATA

1.	CTS Test Date	05/05/17	
2.	CTS Size	21.53	ft^2
3.	CTS Glass/Core Conductance	0.42	$Btu/hr \cdot ft^2 \cdot F$
4.	Warm Side Air Temperature	69.80	F
5.	Cold Side Air Temperature	-0.40	F
6.	Warm Side Average Surface Temperature	54.32	F
7.	Cold Side Average Surface Temperature	3.79	F
8.	Convection Coefficient (Kc)	0.35	$Btu/(hr \cdot ft^2 \cdot F^{1.25})$
9.	Measured Cold Side Surface Conductance (hc)	5.12	$Btu/hr \cdot ft^2 \cdot F$
10.	Measured Thermal Transmittance	0.31	$Btu/hr \cdot ft^2 \cdot F$

ANSI/NCSL Z540-2-1997 type B uncertainty for this test was 2.15%.

"Ratings included in this report are for submittal to an NFRC licensed IA for certification purposes and are not meant to be used for labeling purposes. Only those values identified on a valid Certification Authorization Report (CAR) are to be used for labeling purposes."

The direction of heat transfer was from the interior (warm side) to the exterior (cold side) of the specimen. The ratings were rounded in accordance to NFRC 601, NFRC Unit and Measurement Policy. The data acquisition frequency is 5 minutes.

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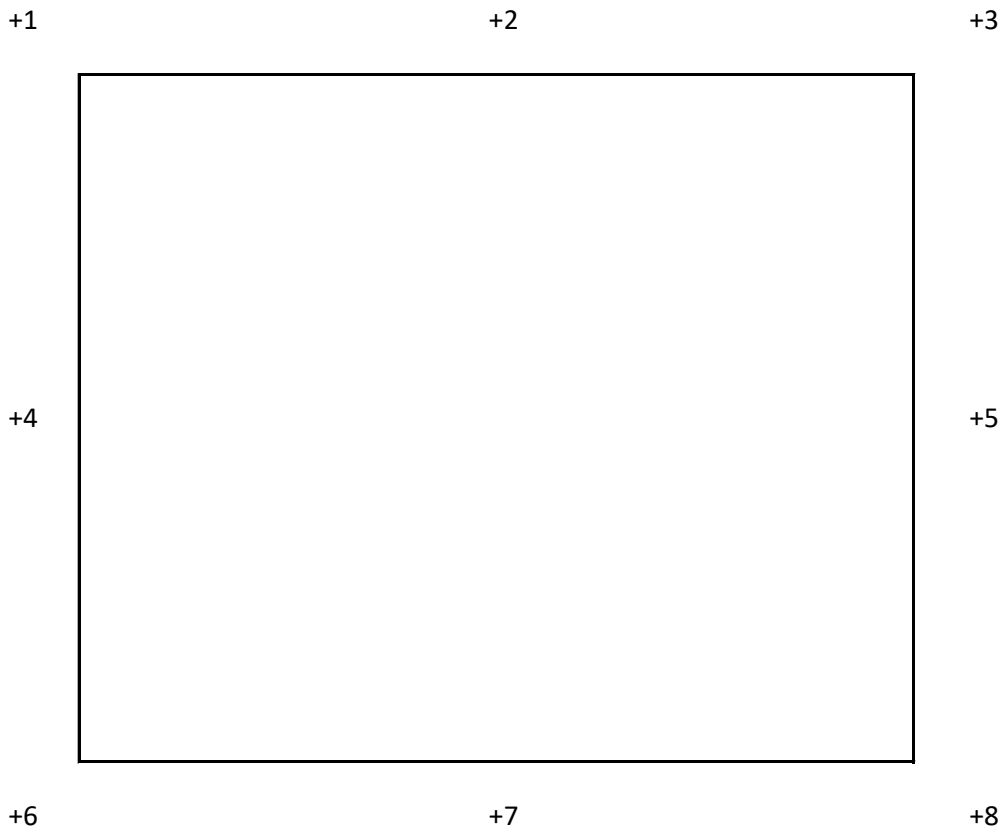
SECTION 13

SURROUND PANEL WIRING DIAGRAM



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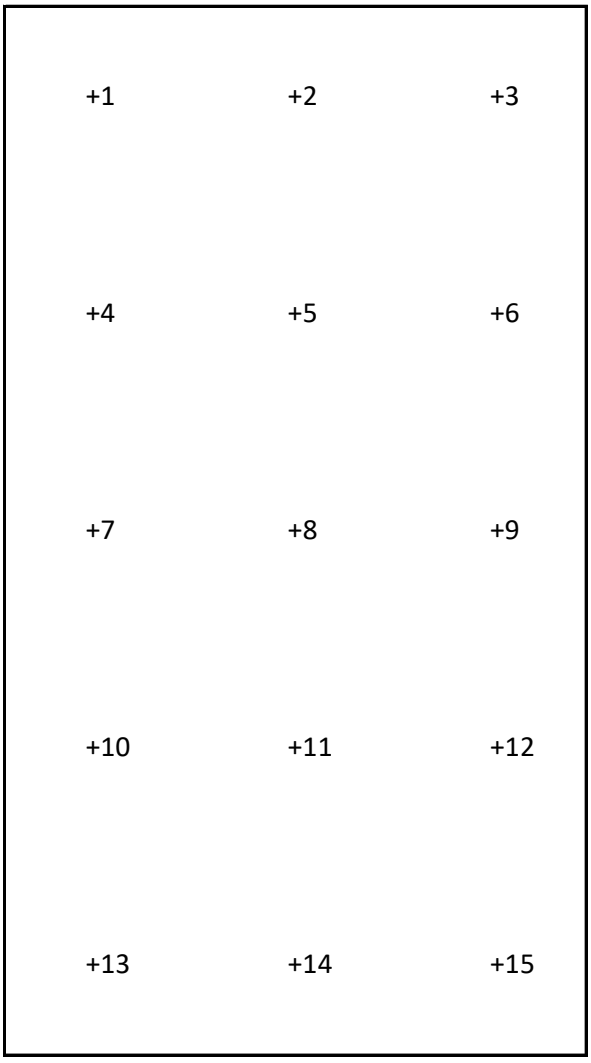
SECTION 14
BAFFLE WIRING DIAGRAM



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SECTION 15
SUBMITTAL FORM AND DRAWINGS

The test specimen drawings which follow have been reviewed by Intertek B&C and are representative of the test specimen(s) reported herein. Test specimen construction was verified by Intertek B&C per the drawings included in this report. Any deviations are documented herein or on the drawings.

NFRC PRODUCT CERTIFICATION PROGRAM

Submittal Form for Test Samples

For use by Manufacturers, Lineal Suppliers and Fabricators

National Fenestration Rating Council®

1. Information on Production of the Test Sample (complete **ALL** fields):

Manufacturer: NORTH EAST WINDOWS USA INC. Date of sample manufacture: 5/17/19

Plant Address where manufactured: 1 KEES PLACE

City: MERRICK State: NY Zip Code: 11566

Name of IA: ASSOCIATED LABS Phone: 214-565-0593 Fax: _____

2. Product Information (complete **APPLICABLE** fields):

Existing Product Line ID (CPD) No.: NEW-A-Z Product/Operator Type (Table 4-3 of NFRC 100): VERTICAL SLIDER

Series/Model: DH 900

3. Test sample is being submitted for (select **ONE**):

a. ☐ Validation for Initial Certification (prototype only) no plant qualification

b. ☒ Validation for Initial Certification or Recertification (production line unit) & plant qualification

c. ☐ Plant Qualification Only (production line unit)

d. ☐ Test Only Alternative (production line unit) & plant qualification

I, PHILIP REID, as the designated agent for NORTH EAST WINDOWS USA do hereby attest that the foregoing information is true to the best of my information, knowledge, and belief. Further, if the unit is identified in Section 3 as a production line unit, I hereby authorize the NFRC-accredited testing laboratory to send a copy of the test report to the IA identified above for plant qualification purposes pursuant to the NFRC Product Certification Program.

Signature: _____ Date: 8/29/19

For Laboratory Use Only

1. Laboratory: Intertek
2. Date Sample Received: 6/11/19 Test Report #: J8171
3. Date Sample Tested: 8/28/19 By: RPM
4. Modifications made: _____

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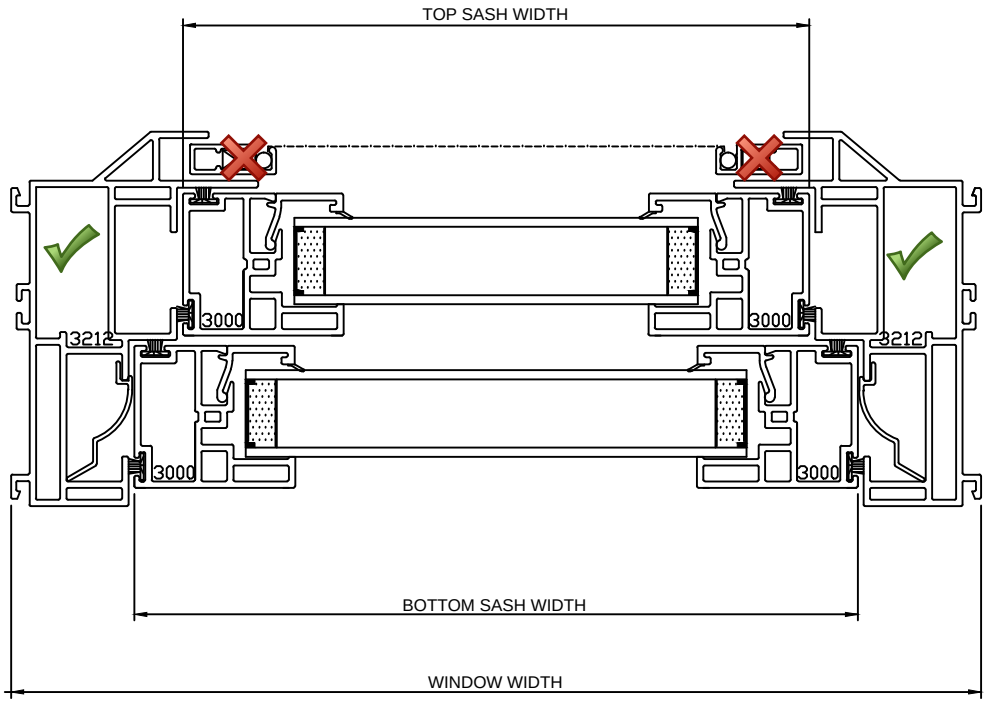
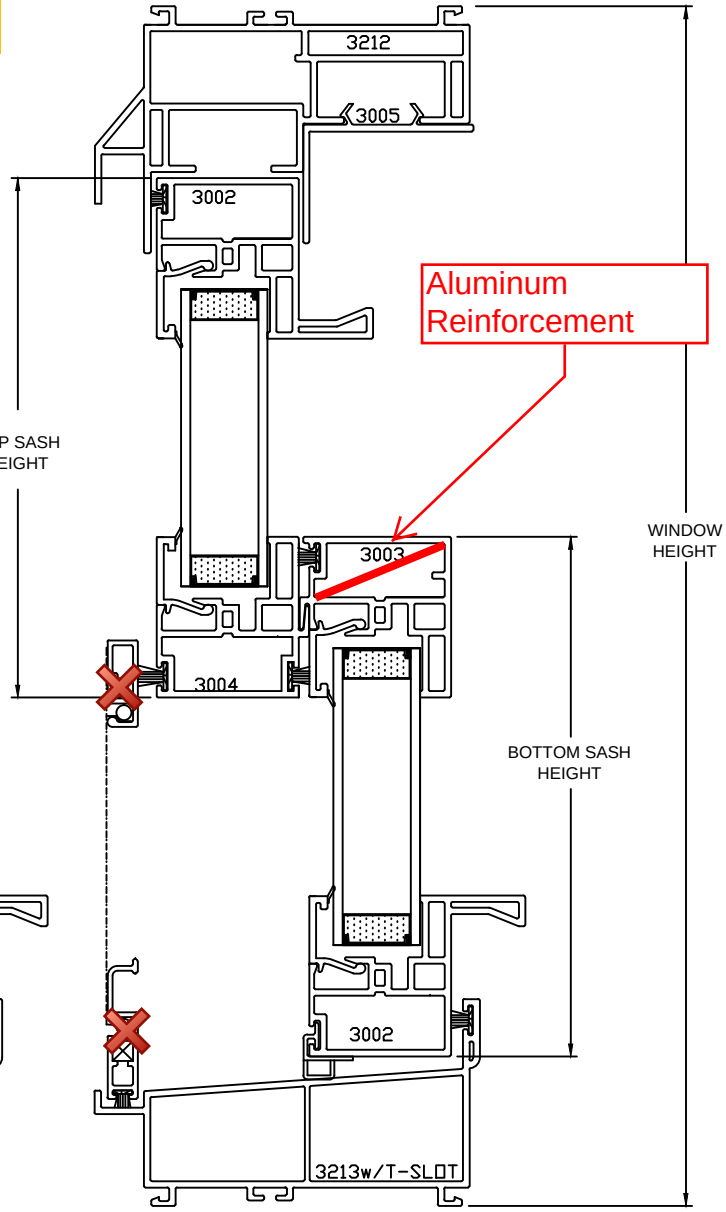
Report #: J8171-116-46
Date: 08/28/2019
Verified by: Ryan P. Moser





EPS FOAM

DO NOT SCALE DRAWING

NO.	REVISION	BY	DATE

LOCATION FOR IMPACT TEST SPECIFICATION–LENGTHS TO 3/8"

ALLOWABLE BOW MAX. 1" PER 14'
ANGULARITY TO BE ± 1/2°

DRAWN FOR QUALITY LINEALS BY DDS DESIGNS "OUR NAME SAYS IT ALL"

1) MATERIAL RIGID PVC
2) CAPSTOCK
3) UNSPECIFIED WALLS
4) BREAK ALL CORNERS .015R
5) AREA SQ.IN.
6) WT/FT LBS/FT

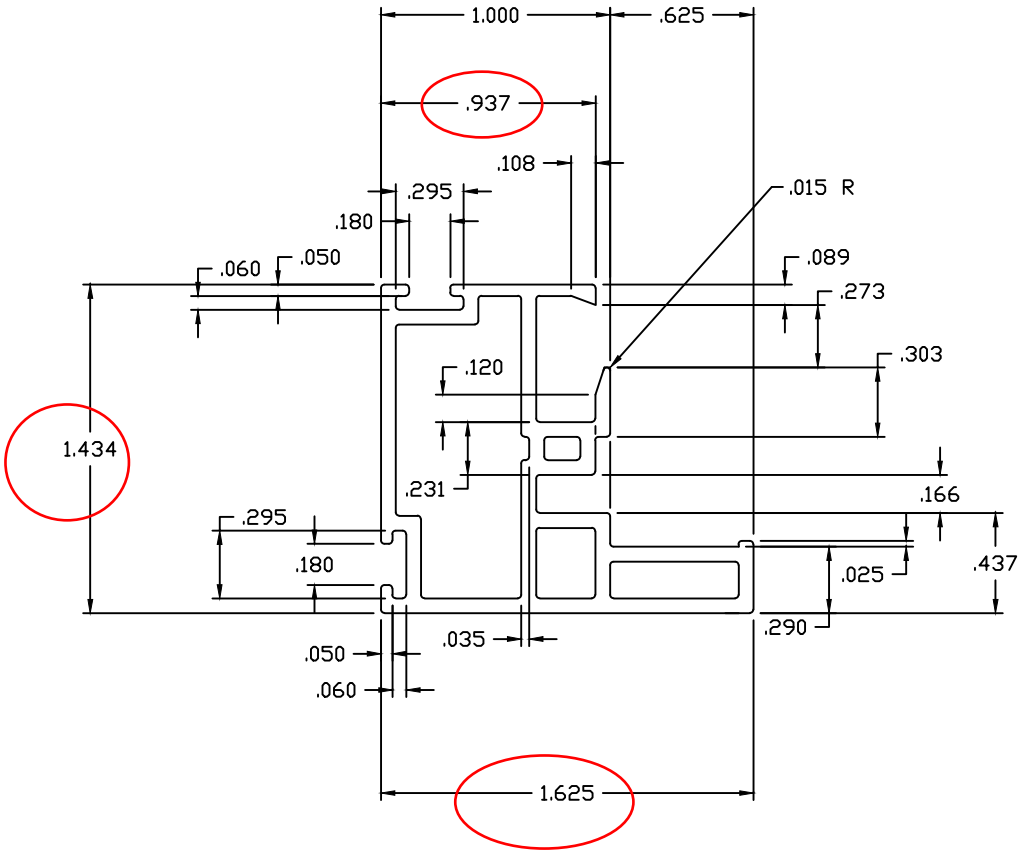
TITLE SERIES 900-DOUBLE HUNG w/OPT MF
WELDED MAIN FRAME / WELDED SASH

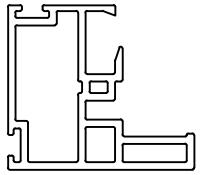
DWN BY	SCALE	DATE	CHKD BY	APPD BY
DDS		11/28/11		

COMPUTER NO

DWG NO C-900 DH CROSS SECTIONw/OPT .MF

Report #:	J8171-116-46
Date:	08/28/2019
Verified by:	Ryan P. Moser





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NO.	REVISION	BY	DATE

LOCATION FOR IMPACT TEST SPECIFICATION–LENGTHS TO 3/8"

ALLOWABLE BOW MAX. 1" PER 14'
ANGULARITY TO BE ± 1/2

DRAWN FOR QUALITY LINEALS BY DDS DESIGNS
"OUR NAME SAYS IT ALL"

1) MATERIAL RIGID PVC
2) CAPSTOCK
3) UNSPECIFIED WALLS .065
4) BREAK ALL CORNERS .015 R
5) AREA .509 SQ.IN.
6) WT/FT .320 LBS/FT

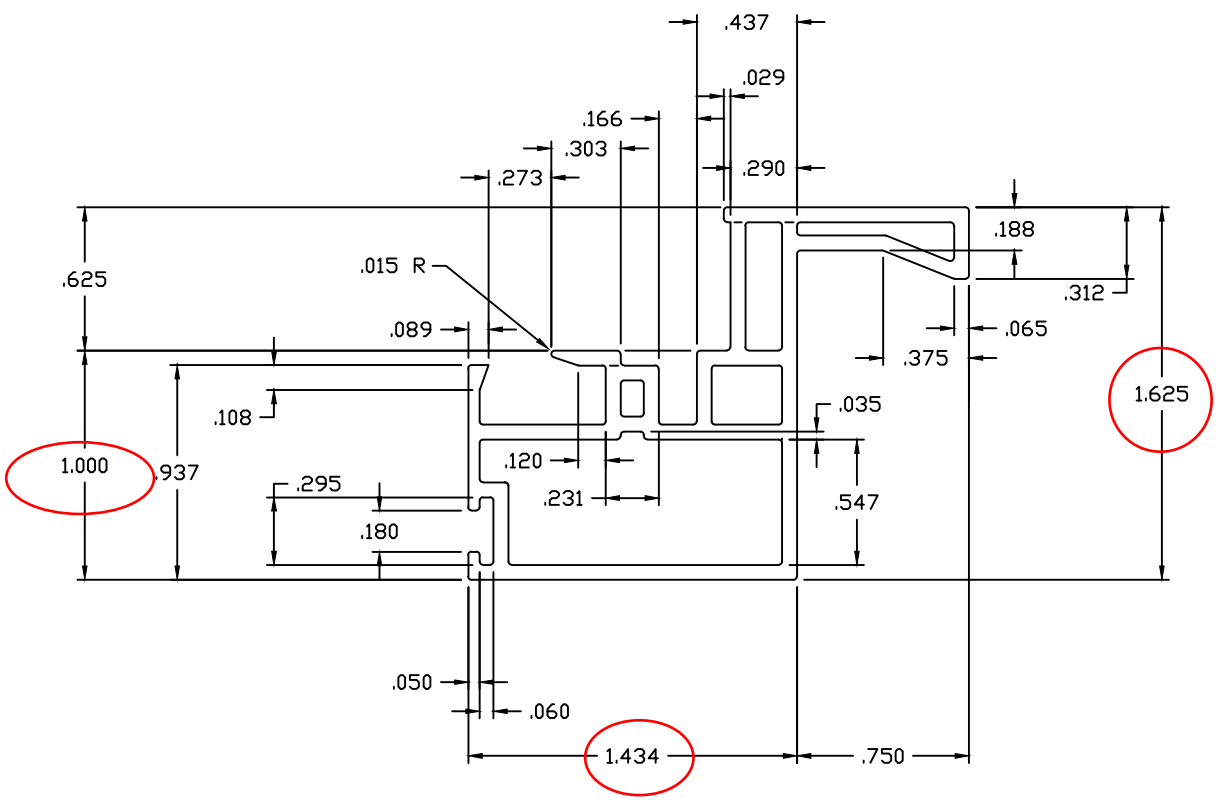
TITLE WELDED DOUBLE HUNG
REGULAR SASH

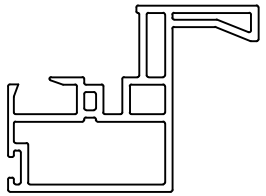
DWN BY	SCALE	DATE	CHKD BY	APPD BY
DDS	2:1	11/13/02		

COMPUTER NO

DWG NO 3000

Report #:	J8171-116-46
Date:	08/28/2019
Verified by:	Ryan P. Moser





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NO.	REVISION	BY	DATE

LOCATION FOR IMPACT TEST SPECIFICATION–LENGTHS TO 3/8"

ALLOWABLE BOW MAX. 1" PER 14'
ANGULARITY TO BE ± 1/2

DRAWN FOR QUALITY LINEALS BY DDS DESIGNS
"OUR NAME SAYS IT ALL"

1) MATERIAL RIGID PVC
2) CAPSTOCK
3) UNSPECIFIED WALLS .065
4) BREAK ALL CORNERS .015 R
5) AREA .607 SQ.IN.
6) WT/FT .378 LBS/FT

TITLE WELDED DOUBLE HUNG HANDLE SASH

DWN BY	SCALE	DATE	CHKD BY	APPD BY
DDS	2:1	11/13/02		

COMPUTER NO

DWG NO 3002

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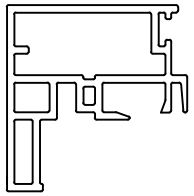

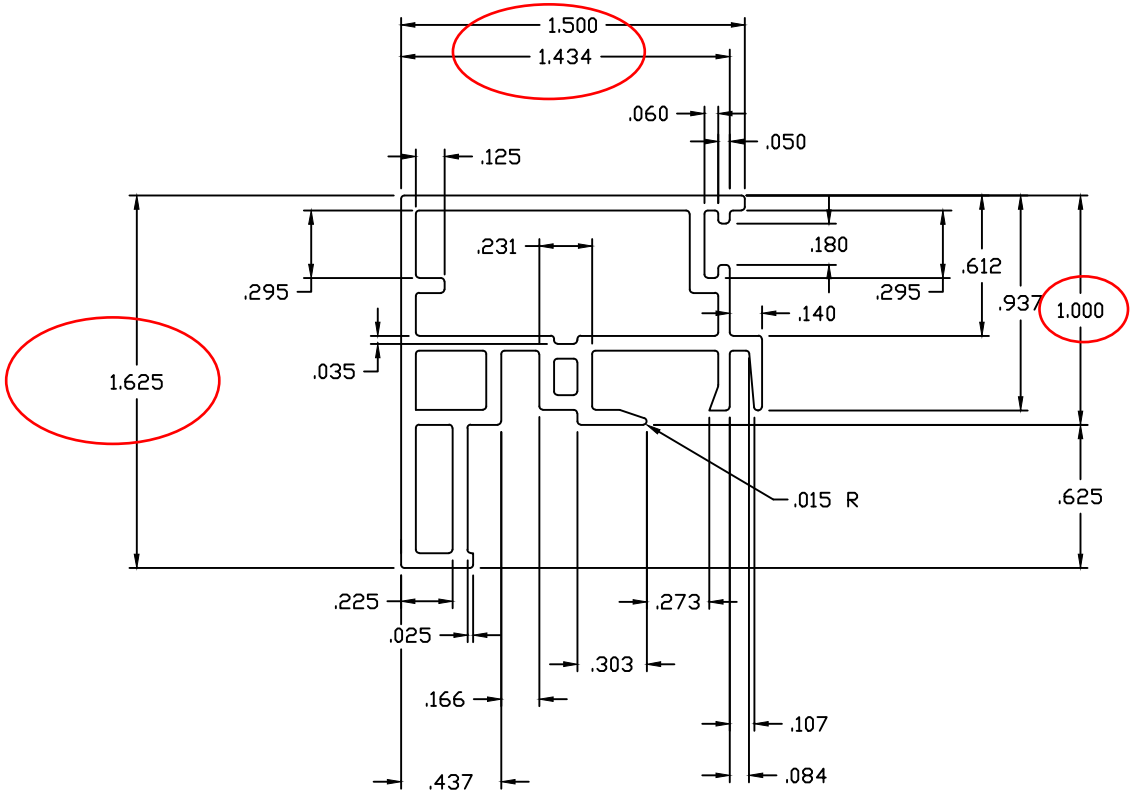

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NO.	REVISION	BY	DATE
A	ADDED .125 LEG	DDS	11/28/11

LOCATION FOR IMPACT TEST SPECIFICATION–LENGTHS TO 3/8"

ALLOWABLE BOW MAX. 1" PER 14' ANGULARITY TO BE ± 1/2

DRAWN FOR QUALITY LINEALS BY DDS DESIGNS "OUR NAME SAYS IT ALL"

1) MATERIAL RIGID PVC
2) CAPSTOCK
3) UNSPECIFIED WALLS .065
4) BREAK ALL CORNERS .015 R
5) AREA .529 SQ.IN.
6) WT/FT .333 LBS/FT

TITLE WELDED DOUBLE HUNG FEMALE

DWN BY	SCALE	DATE	CHKD BY	APPD BY
DDS	2:1	11/13/02		

COMPUTER NO

DWG NO 3003

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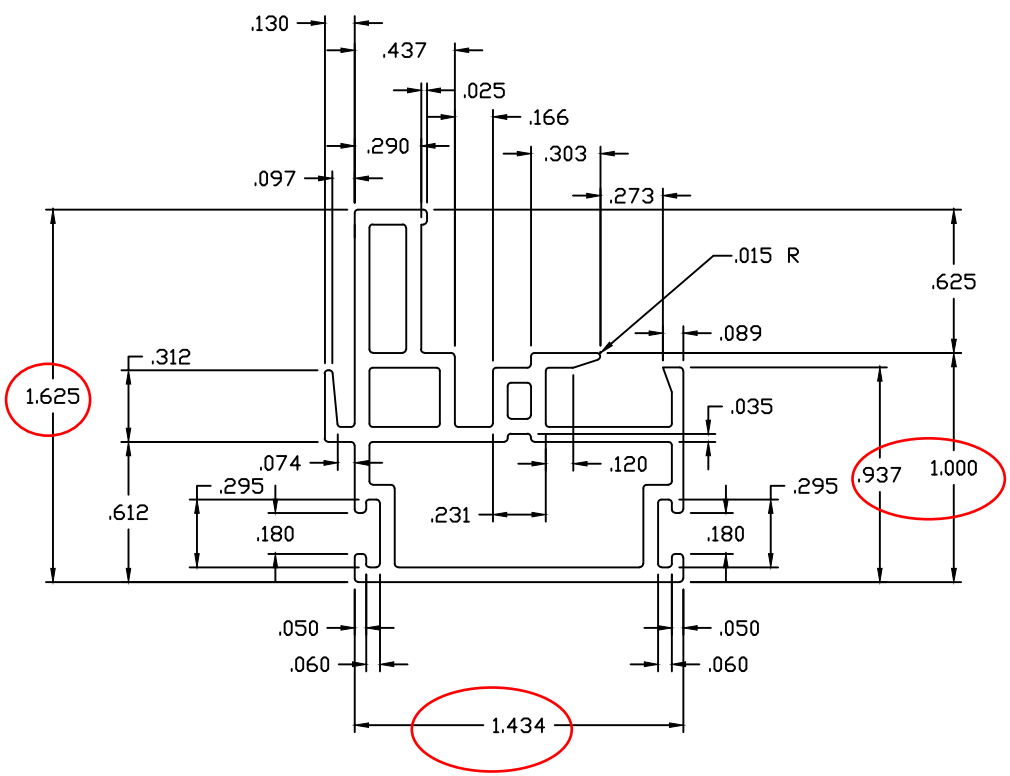
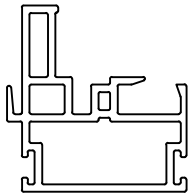
Report #: J8171-116-46
Date: 08/28/2019
Verified by: Ryan P. Moser





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NO.	REVISION	BY	DATE

LOCATION FOR IMPACT TEST SPECIFICATION–LENGTHS TO 3/8"

ALLOWABLE BOW MAX. 1" PER 14'
ANGULARITY TO BE ± 1/2

DRAWN FOR QUALITY LINEALS BY DDS DESIGNS
"OUR NAME SAYS IT ALL"

1) MATERIAL RIGID PVC
2) CAPSTOCK
3) UNSPECIFIED WALLS .065
4) BREAK ALL CORNERS .015 R
5) AREA .528 SQ.IN.
6) WT/FT .332 LBS/FT

TITLE WELDED DOUBLE HUNG MALE

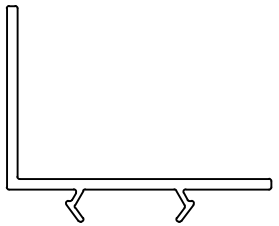
DWN BY	SCALE	DATE	CHKD BY	APPD BY
DDS	2:1	11/14/02		

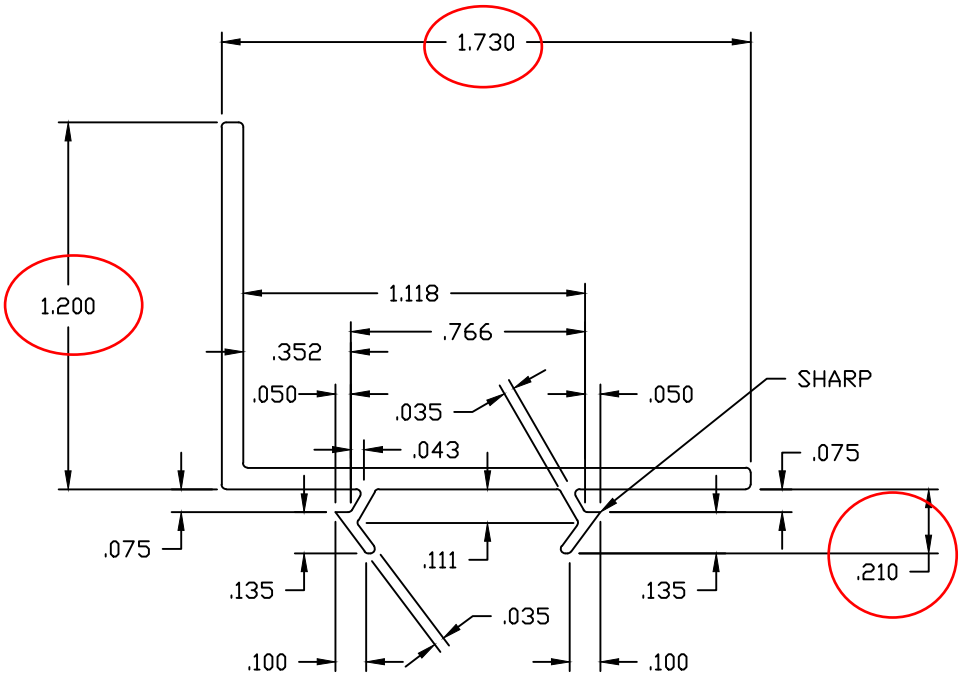
COMPUTER NO

DWG NO 3004

intertek
Total Quality. Assured.

Report #: J8171-116-46
Date: 08/28/2019
Verified by: Ryan P. Moser





DO NOT SCALE DRAWING

NO.	REVISION	BY	DATE

LOCATION FOR IMPACT TEST SPECIFICATION–LENGTHS TO 3/8"

ALLOWABLE BOW MAX. 1" PER 14'
ANGULARITY TO BE ± 1/2

DRAWN FOR QUALITY LINEALS BY DDS DESIGNS
"OUR NAME SAYS IT ALL"

1) MATERIAL RIGID PVC
2) CAPSTOCK
3) UNSPECIFIED WALLS .065
4) BREAK ALL CORNERS .015 R
5) AREA .219 SQ.IN.
6) WT/FT .138 LBS/FT

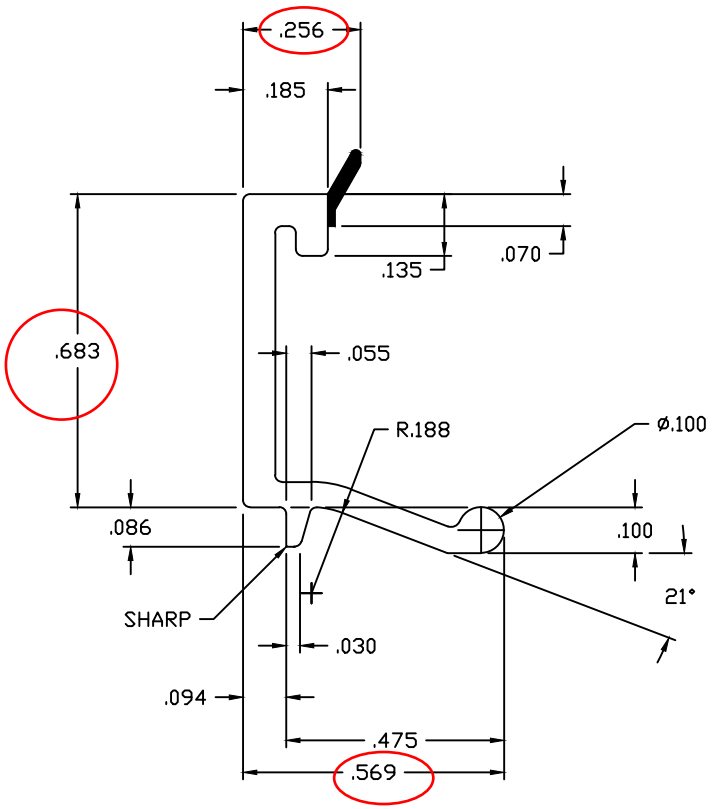
TITLE WELDED DOUBLE HUNG HEAD ADAPTER

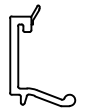
DWN BY	SCALE	DATE	CHKD BY	APPD BY
DDS	FULL	11/16/02		

COMPUTER NO

DWG NO 3005

Report #:	J8171-116-46
Date:	08/28/2019
Verified by:	Ryan P. Moser





AREA OF RIGID PVC = .096
AREA OF SOFT PVC = .004

WT/FT OF RIGID PVC = .060
WT/FT OF SOFT PVC = .003

DO NOT SCALE DRAWING

NO.	REVISION	BY	DATE

LOCATION FOR IMPACT TEST SPECIFICATION–LENGTHS TO 3/8"

ALLOWABLE BOW MAX. 1" PER 14'
ANGULARITY TO BE ± 1/2

DRAWN FOR QUALITY LINEALS BY DDS DESIGNS
"OUR NAME SAYS IT ALL"

1) MATERIAL RIGID PVC
2) CAPSTOCK
3) UNSPECIFIED WALLS .070
4) BREAK ALL CORNERS .015 R
5) AREA .100 SQ.IN.
6) WT/FT .063 LBS/FT

TITLE WELDED DOUBLE HUNG GLAZING BEAD

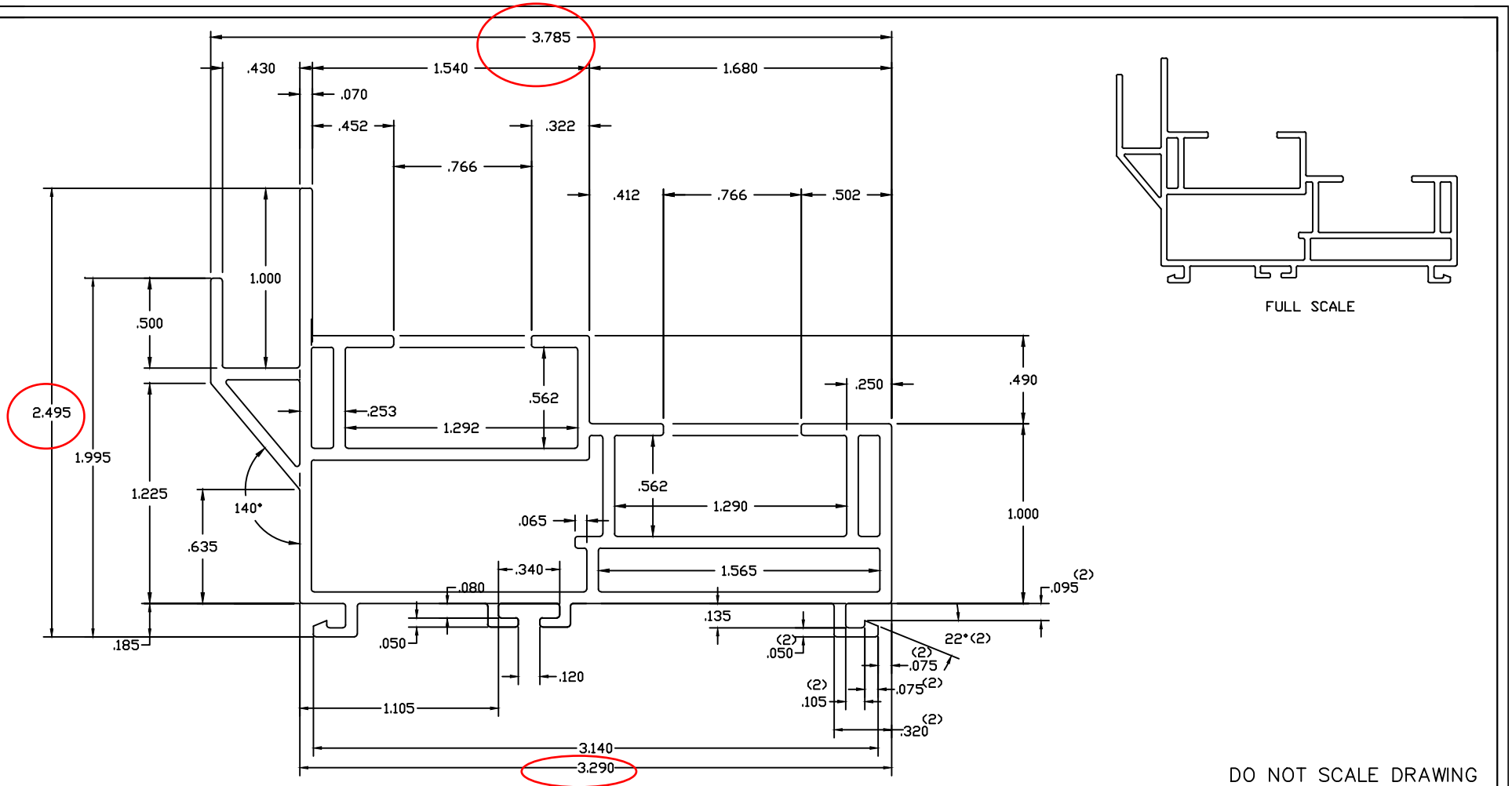
DWN BY	SCALE	DATE	CHKD BY	APPD BY
DDS	4:1	11/20/02		

COMPUTER NO

DWG NO 3008

intertek
Total Quality. Assured.

Report #: J8171-116-46
Date: 08/28/2019
Verified by: Ryan P. Moser



FULL SCALE

DO NOT SCALE DRAWING

NO.	REVISION	BY	DATE
A	REVISED TO "T" SLOT	DDS	11/28/11

LOCATION FOR IMPACT TEST SPECIFICATION–LENGTHS TO 3/8"

ALLOWABLE BOW MAX. 1" PER 14'
ANGULARITY TO BE ± 1/2

DRAWN FOR QUALITY LINEALS BY DDS DESIGNS
"OUR NAME SAYS IT ALL"

1) MATERIAL RIGID PVC
2) CAPSTOCK
3) UNSPECIFIED WALLS .065
4) BREAK ALL CORNERS .015R
5) AREA 1.109 SQ.IN.
6) WT/FT .698 LBS/FT

TITLE WELDED DOUBLE HUNG
JAMB NO FIN NO J

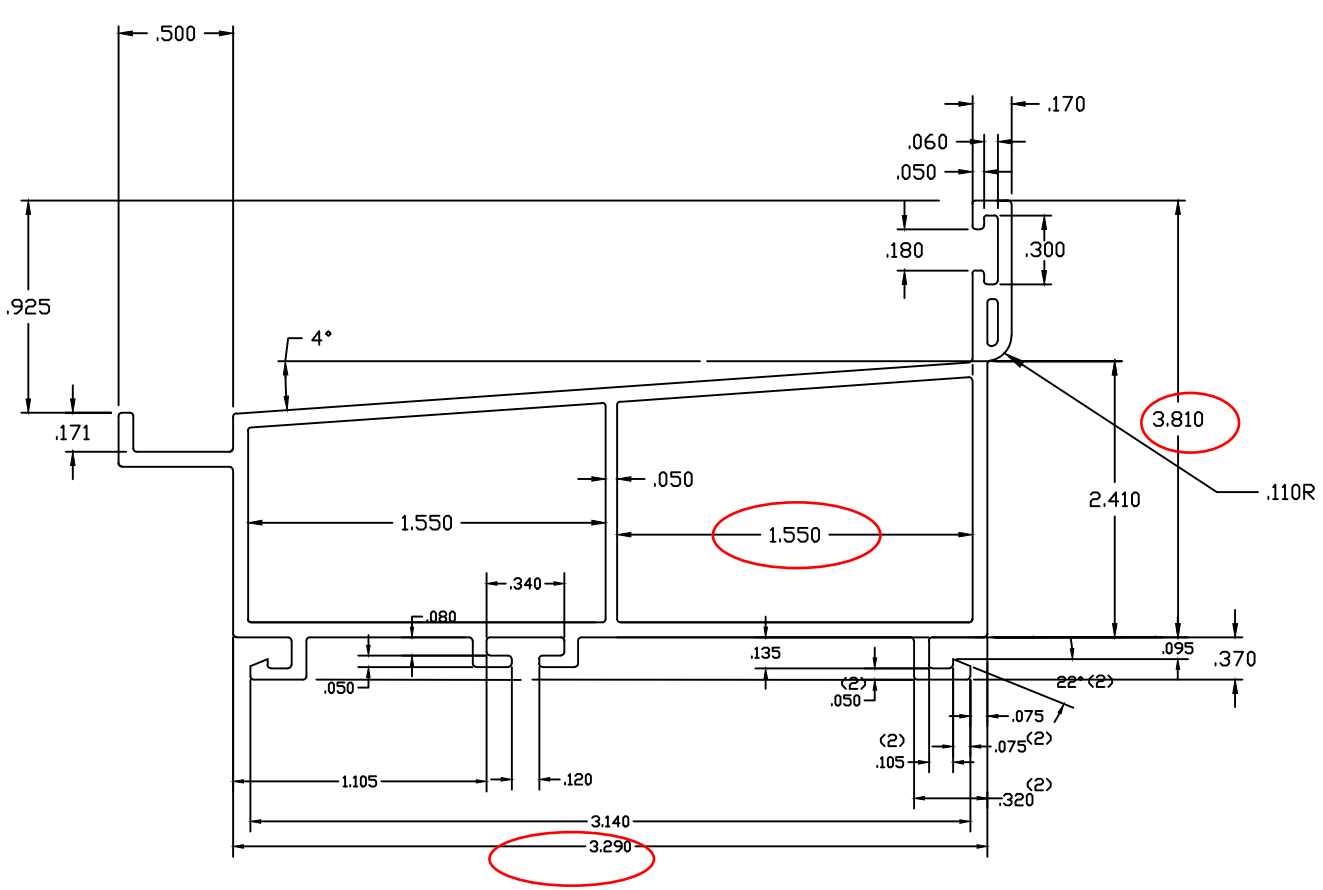
DWN BY	SCALE	DATE	CHKD BY	APPD BY
DDS	2:1	11-05-10		

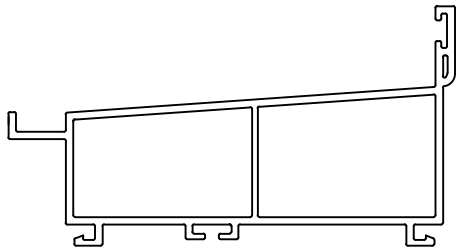
COMPUTER NO

DWG NO 3212

intertek
Total Quality. Assured.

Report #: J8171-116-46
Date: 08/28/2019
Verified by: Ryan P. Moser





FULL SCALE

DO NOT SCALE DRAWING

NO.	REVISION	BY	DATE
A	REMOVED SCREW BOSSES; ADDED "T" SLOT	DDS	11/28/11

LOCATION FOR IMPACT TEST SPECIFICATION–LENGTHS TO 3/8"

ALLOWABLE BOW MAX. 1" PER 14'
ANGULARITY TO BE ± 1/2

DRAWN FOR QUALITY LINEALS BY DDS DESIGNS "OUR NAME SAYS IT ALL"

1) MATERIAL RIGID PVC
2) CAPSTOCK
3) UNSPECIFIED WALLS .065
4) BREAK ALL CORNERS .015R
5) AREA .815 SQ.IN.
6) WT/FT .512 LBS/FT

TITLE WELDED DOUBLE HUNG SILL

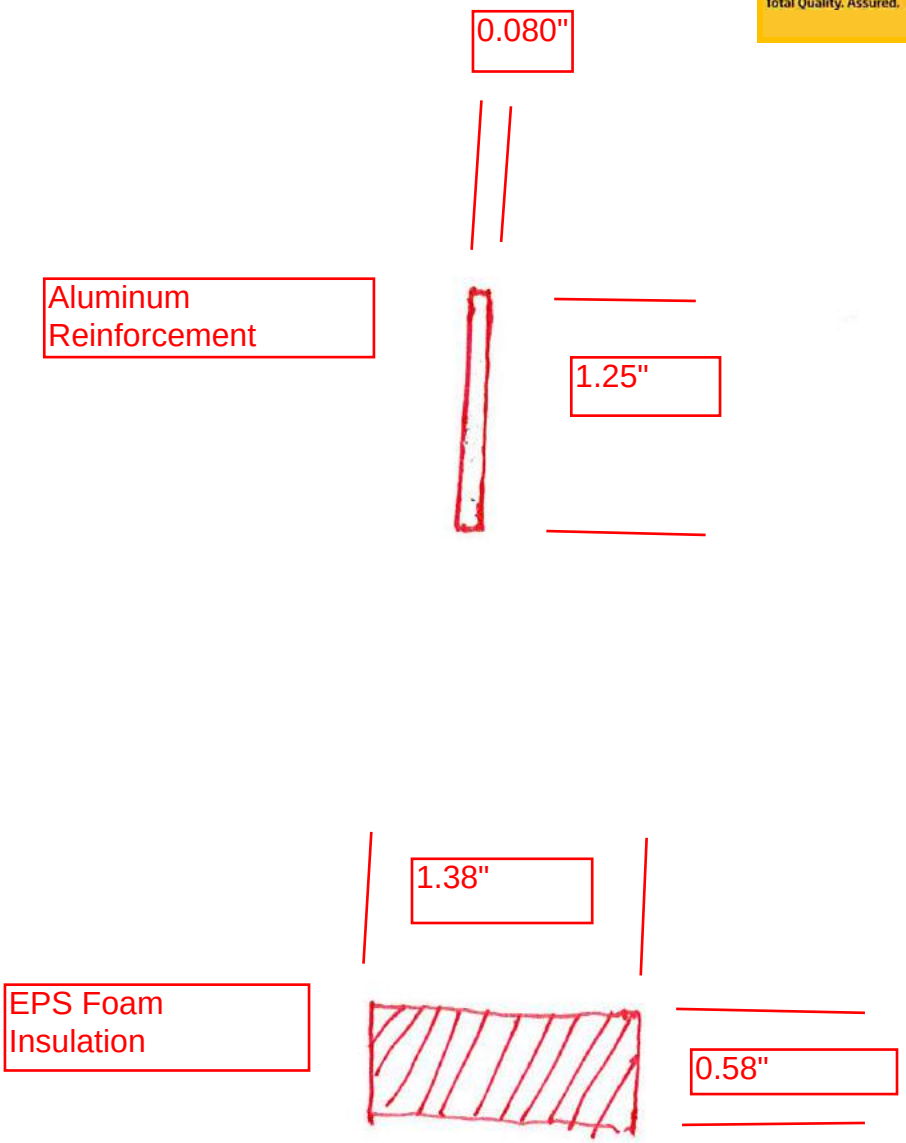
DWN BY	SCALE	DATE	CHKD BY	APPD BY
DDS	2:1	11-05-10		

COMPUTER NO

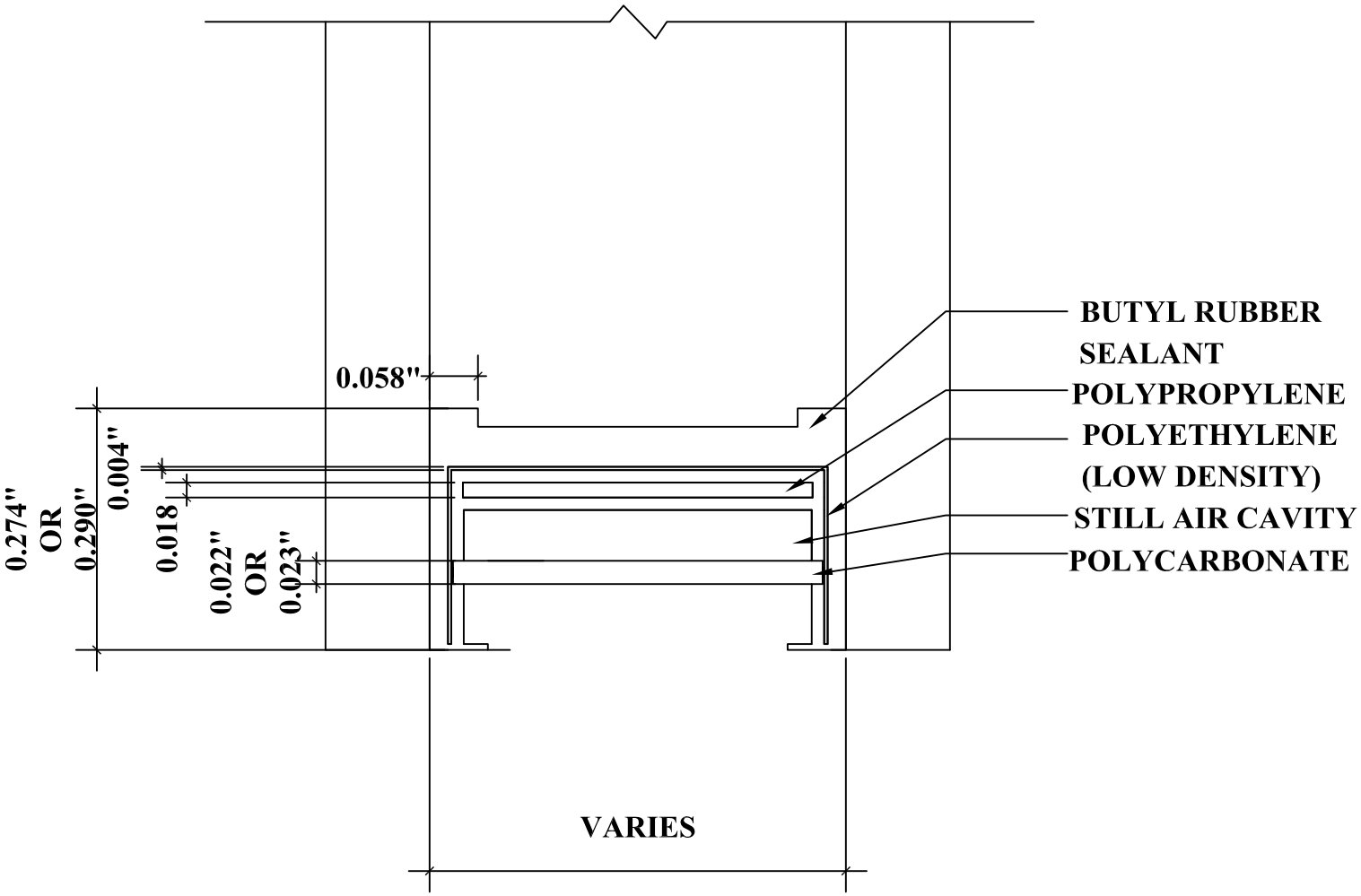
DWG NO 3213

intertek
Total Quality. Assured.

Report #: J8171-116-46
Date: 08/28/2019
Verified by: Ryan P. Moser



Report #:	J8171-116-46
Date:	08/28/2019
Verified by:	Ryan P. Moser



DETAIL FOR THERMAL MODELING OF
QUANEX DURALITE SPACER (P1-S)

130 Derry Court
York, Pennsylvania 17406

Telephone: 717-764-7700
Facsimile: 717-764-4129
www.intertek.com/building

SECTION 16
REVISION LOG

REVISION #	DATE	PAGES	REVISION
.01 R0	09/09/19	N/A	Original Report Issue