

# RENLITA DOORS NORTH AMERICA LLC

## THERMAL PERFORMANCE TEST REPORT

**SCOPE OF WORK**

S-500 / S-1000 / S-2000 / S-3000 GARAGE DOORS

**REPORT NUMBER**

L0326.01-116-46 R0

**TEST DATE**

06/11/20

**ISSUE DATE**

06/30/20

**RECORD RETENTION END DATE**

06/11/25

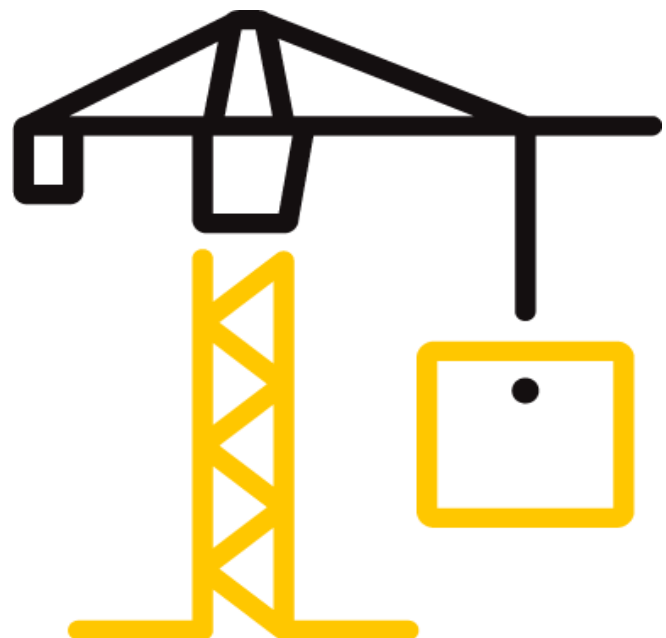
**PAGES**

27

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

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**TEST REPORT FOR RENLITA DOORS NORTH AMERICA LLC**

Report No.: L0326.01-116-46 R0

Date: 06/30/20

**REPORT ISSUED TO**

**RENLITA DOORS NORTH AMERICA LLC**

200 East 1st Street

Bonham, Texas 75418

**SECTION 1**

**SCOPE**

**SERIES/MODEL: S-500 / S-1000 / S-2000 / S-3000 Garage Doors**

**TYPE: GARAGE DOOR**

Intertek Building & Construction (Intertek B&C) was contracted by Renlita Doors North America LLC 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) (Area-weighted): 0.56 Btu/hr·ft<sup>2</sup>·F (A.W. Method)

For INTERTEK B&C:

|                     |                                 |
|---------------------|---------------------------------|
| <b>COMPLETED BY</b> | Shon W. Einsig                  |
| <b>TITLE</b>        | Technician Team Leader,<br>IIRC |
| <b>SIGNATURE</b>    |                                 |
| <b>DATE</b>         | 06/30/20                        |

SWE:kmm

|                    |                   |
|--------------------|-------------------|
| <b>REVIEWED BY</b> | Ryan P. Moser     |
| <b>TITLE</b>       | Senior Technician |
| <b>SIGNATURE</b>   |                   |
| <b>DATE</b>        | 06/30/20          |

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**SECTION 3**

**TEST SPECIMEN SUMMARY**

|                                  |   |
|----------------------------------|---|
| <b>SERIES/MODEL</b>              | S-500 / S-1000 / S-2000 / S-3000 Garage Doors                                     |
| <b>TYPE</b>                      | Garage Door   |
| <b>OVERALL SIZE</b>              | 83" x 82-3/8" (2108 mm x 2092 mm)   |
| <b>NFRC STANDARD SIZE</b>        | 84" x 84" (2134 mm wide x 2134 mm high)   |
| <b>TEST SAMPLE SUBMITTED BY</b>  | Client  |
| <b>TEST SAMPLE SUBMITTED FOR</b> | Validation for Initial Certification (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**

| <b>NAME</b>    | <b>COMPANY</b> |
|----------------|----------------|
| Ryan P. Moser  | Intertek B&C   |
| Shon W. Einsig | Intertek B&C   |

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**SECTION 7**

**TEST SAMPLE DESCRIPTION**

**Panel 1**

|                         |   |                        |          |
|-------------------------|---|------------------------|----------|
| <b>MATERIAL</b>         | AU (0.07"): Aluminum with Thermal Improvement - All Members |                        |          |
| <b>SIZE</b>             | 83" x 59-1/2"   |                        |          |
| <b>DAYLIGHT OPENING</b> | 38-1/2" x 18-1/2" (x2)                                      | <b>GLAZING METHOD</b>  | Exterior |
| <b>EXTERIOR COLOR</b>   | Gray  | <b>EXTERIOR FINISH</b> | Anodized |
| <b>INTERIOR COLOR</b>   | Black   | <b>INTERIOR FINISH</b> | Paint    |
| <b>CORNER JOINERY</b>   | Mitered / Screws / Welds / Sealed                           |                        |          |

**Panel 2**

|                         |   |                        |          |
|-------------------------|---|------------------------|----------|
| <b>MATERIAL</b>         | AU (0.07"): Aluminum with Thermal Improvement - All Members |                        |          |
| <b>SIZE</b>             | 83" x 22-3/4"   |                        |          |
| <b>DAYLIGHT OPENING</b> | 38-1/2" x 18-1/2" (x2)                                      | <b>GLAZING METHOD</b>  | Exterior |
| <b>EXTERIOR COLOR</b>   | Gray  | <b>EXTERIOR FINISH</b> | Anodized |
| <b>INTERIOR COLOR</b>   | Black   | <b>INTERIOR FINISH</b> | Paint    |
| <b>CORNER JOINERY</b>   | Mitered / Screws / Welds / Sealed                           |                        |          |

**Glazing Information**

|                 |       |                            |           |
|-----------------|-------|----------------------------|-----------|
| LAYER 1         | 1/4"  | SolarBan 60 (e=0.035*, #2) |           |
| GAP 1           | 0.50" | A1-D: Aluminum Spacer      | 100% Air* |
| LAYER 2         | 1/4"  | Clear                      |           |
| GAS FILL METHOD | N/A*  |                            |           |

*\*Stated per Client/Manufacturer*

*N/A Non-Applicable*

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**SECTION 7 (CONTINUED)**

**TEST SAMPLE DESCRIPTION (CONTINUED)**

**Weatherstripping**

| DESCRIPTION   | QUANTITY | LOCATION                                 |
|---|----------|--|
| (1-1/4" dia.) Custom rubber rigid flexible hollow bulb gasket | 1 Row    | Bottom of bottom panel                   |
| (1" dia.) Flexible hollow foam gasket                         | 1 Row    | Top of bottom panel, bottom of top panel |
| (1/2" dia.) Flexible hollow vinyl gasket                      | 1 Row    | Top of top panel                         |
|   |          |  |
|   |          |  |

**Hardware**

| DESCRIPTION                       | QUANTITY | LOCATION                  |
|-----------------------------------|----------|---------------------------|
| (1" dia.) Steel lifting/cable rod | 2        | Bottom panel stiles       |
| Mortise hinge                     | 3 Sets   | Top / bottom panels joint |
| Steel lifting bracket             | 2        | Top panel ends            |
|                                   |          |                           |
|                                   |          |                           |

**Drainage**

| DRAINAGE METHOD   | SIZE        | QUANTITY | LOCATION                   |
|-------------------|-------------|----------|----------------------------|
| Diameter weephole | (1/4" dia.) | 8        | Four per each panel bottom |
|                   |             |          |                            |
|                   |             |          |                            |
|                   |             |          |                            |
|                   |             |          |                            |

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**SECTION 8**

**THERMAL TRANSMITTANCE (U-FACTOR): MEASURED TEST DATA**

**Heat Flows**

|   |                                  |
|---|----------------------------------|
| 1. Total Measured Input into Metering Box (Qtotal)    | 2236.54 Btu/hr                   |
| 2. Surround Panel Heat Flow (Qsp)                     | 80.76 Btu/hr                     |
| 3. Surround Panel Thickness                           | 4.00 inches                      |
| 4. Surround Panel Conductance                         | 0.0476 Btu/hr·ft <sup>2</sup> ·F |
| 5. Metering Box Wall Heat Flow (Qmb)                  | 12.89 Btu/hr                     |
| 6. EMF vs Heat Flow Equation (equivalent information) | 0.0117*EMF + -0.044              |
| 7. Flanking Loss Heat Flow (Qfl)                      | 16.81 Btu/hr                     |
| 8. Net Specimen Heat Loss (Qs)                        | 2126.08 Btu/hr                   |

**Areas**

|   |                       |
|---|-----------------------|
| 1. Test Specimen Projected Area (As)                    | 49.22 ft <sup>2</sup> |
| 2. Test Specimen Interior Total (3-D) Surface Area (Ah) | 57.01 ft <sup>2</sup> |
| 3. Test Specimen Exterior Total (3-D) Surface Area (Ac) | 45.77 ft <sup>2</sup> |
| 4. Metering Box Opening Area (Amb)                      | 75.11 ft <sup>2</sup> |
| 5. Metering Box Baffle Area (Ab1)                       | 70.84 ft <sup>2</sup> |
| 6. Surround Panel Interior Exposed Area (Asp)           | 25.89 ft <sup>2</sup> |

**Test Conditions**

|   |                                |
|---|--------------------------------|
| 1. Average Metering Room Air Temperature (th)               | 69.80 F                        |
| 2. Average Cold Side Air Temperature (tc)                   | -0.41 F                        |
| 3. Average Guard/Environmental Air Temperature              | 71.24 F                        |
| 4. Metering Room Average Relative Humidity                  | 7.39 %                         |
| 5. Metering Room Maximum Relative Humidity                  | 8.07 %                         |
| 6. Metering Room Minimum Relative Humidity                  | 6.83 %                         |
| 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 <sub>2</sub> O |

**Average Surface Temperatures**

|                                 |         |
|---------------------------------|---------|
| 1. Metering Room Surround Panel | 65.51 F |
| 2. Cold Side Surround Panel     | 0.01 F  |

**Results**

|  |                                |
|--|--------------------------------|
| 1. Thermal Transmittance of Test Specimen (Us)               | 0.62 Btu/hr·ft <sup>2</sup> ·F |
| 2. Standardized Thermal Transmittance of Test Specimen (Ust) | 0.56 Btu/hr·ft <sup>2</sup> ·F |

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**SECTION 9**

**THERMAL TRANSMITTANCE (U-FACTOR): CALCULATED TEST DATA**

**Area-Weighted Method Results**

|  |                                |
|--|--------------------------------|
| 1. Area-Weighted Warm Side Surface Temperature (t1)  | 49.92 F                        |
| 2. Area-Weighted Cold Side Surface Temperature (t2)  | 9.74 F                         |
| 3. Measured Warm Side Surface Conductance (hh)       | 1.88 Btu/hr·ft <sup>2</sup> ·F |
| 4. Measured Cold Side Surface Conductance (hc)       | 4.58 Btu/hr·ft <sup>2</sup> ·F |
| 5. Standardized Warm Side Surface Conductance (hsth) | 1.36 Btu/hr·ft <sup>2</sup> ·F |
| 6. Standardized Cold Side Surface Conductance (hstc) | 5.28 Btu/hr·ft <sup>2</sup> ·F |
| 7. Standardized Thermal Transmittance (Ust)          | 0.56 Btu/hr·ft <sup>2</sup> ·F |

**SECTION 10**

**TEST DURATION**

1. The environmental systems were started at 11:38 hours, 06/10/20.
2. The test parameters were considered stable for two consecutive four hour test periods from 22:10 hours, 06/10/20 to 06:10 hours, 06/11/20.
3. The thermal performance test results were derived from 02:10 hours, 06/11/20 to 06:10 hours, 06/11/20.

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**SECTION 11**

**GLAZING DEFLECTION**

|  | <b>PANEL 1</b>                | <b>PANEL 2</b> |
|--|-------------------------------|----------------|
| <b>EDGE GAP WIDTH</b>  | 0.50" / 0.50" / 0.50" / 0.50" | 0.50" / 0.50"  |
| <b>ESTIMATED CENTER GAP WIDTH</b> upon receipt of specimen in laboratory (after stabilization) | 0.50" / 0.50" / 0.50" / 0.50" | 0.50" / 0.50"  |
| <b>CENTER GAP WIDTH</b> at laboratory ambient conditions on day of testing                     | 0.50" / 0.50" / 0.50" / 0.50" | 0.50" / 0.50"  |
| <b>CENTER GAP WIDTH</b> at test conditions   | 0.47" / 0.47" / 0.47" / 0.47" | 0.47" / 0.47"  |

*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 April 2020 in accordance with Intertek B&C calibration procedure. A CTS Calibration verification was performed March 2020. A Metering Box Wall Transducer and Surround Panel Flanking Loss Characterization was performed April 2020.

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



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**SECTION 12**

**CTS CALIBRATION DATA**

|  |   |
|--|---|
| 1. CTS Test Date                               | 08/11/18  |
| 2. CTS Size                                    | 43.06 ft <sup>2</sup>                             |
| 3. CTS Glass/Core Conductance                  | 0.42 Btu/hr·ft <sup>2</sup> ·F                    |
| 4. Warm Side Air Temperature                   | 69.79 F   |
| 5. Cold Side Air Temperature                   | -0.40 F   |
| 6. Warm Side Average Surface Temperature       | 54.30 F   |
| 7. Cold Side Average Surface Temperature       | 3.52 F  |
| 8. Convection Coefficient (Kc)                 | 0.34 Btu/(hr·ft <sup>2</sup> ·F <sup>1.25</sup> ) |
| 9. Measured Cold Side Surface Conductance (hc) | 5.50 Btu/hr·ft <sup>2</sup> ·F                    |
| 10. Measured Thermal Transmittance             | 0.31 Btu/hr·ft <sup>2</sup> ·F                    |

ANSI/NCSL Z540-2-1997 type B uncertainty for this test was 1.54%.

"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 options identified on a valid Certificate of Authorization (CA) 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.

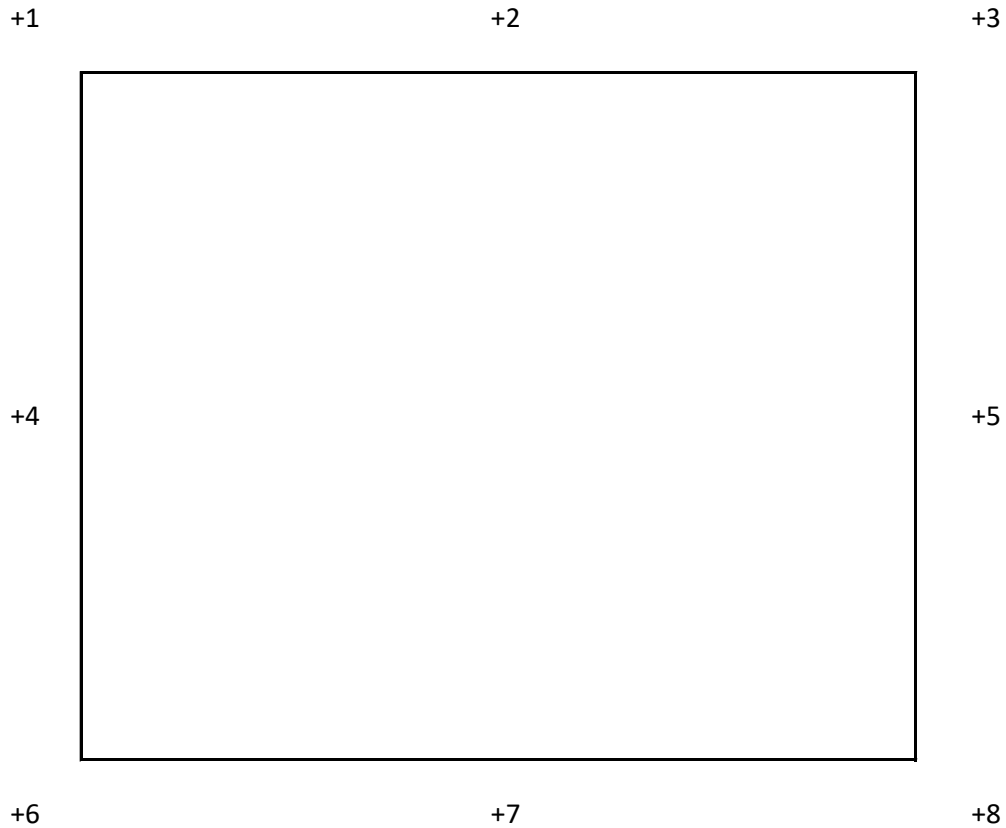
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**SECTION 13**

**SURROUND PANEL WIRING DIAGRAM**



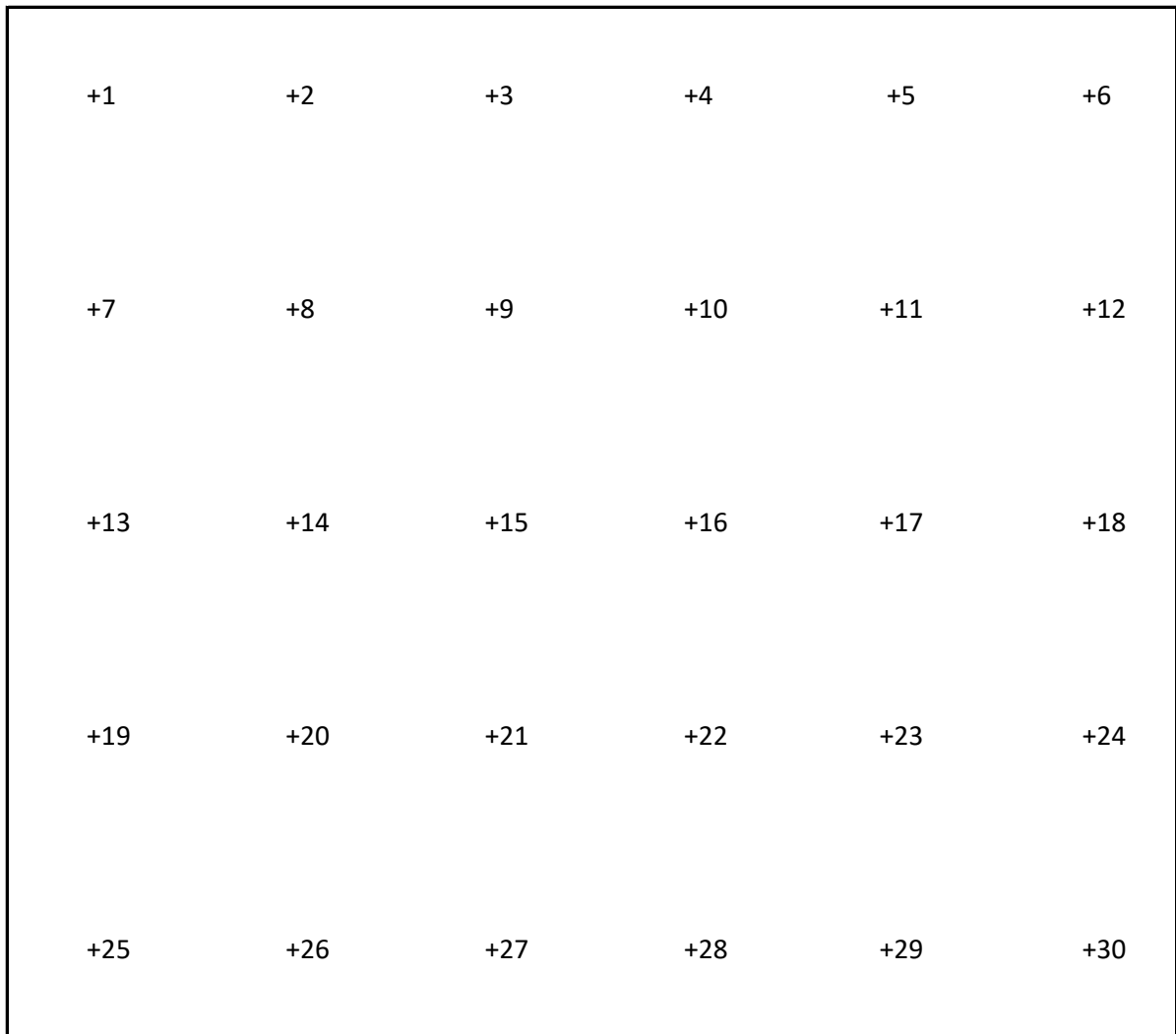
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**SECTION 14**

**BAFFLE WIRING DIAGRAM**



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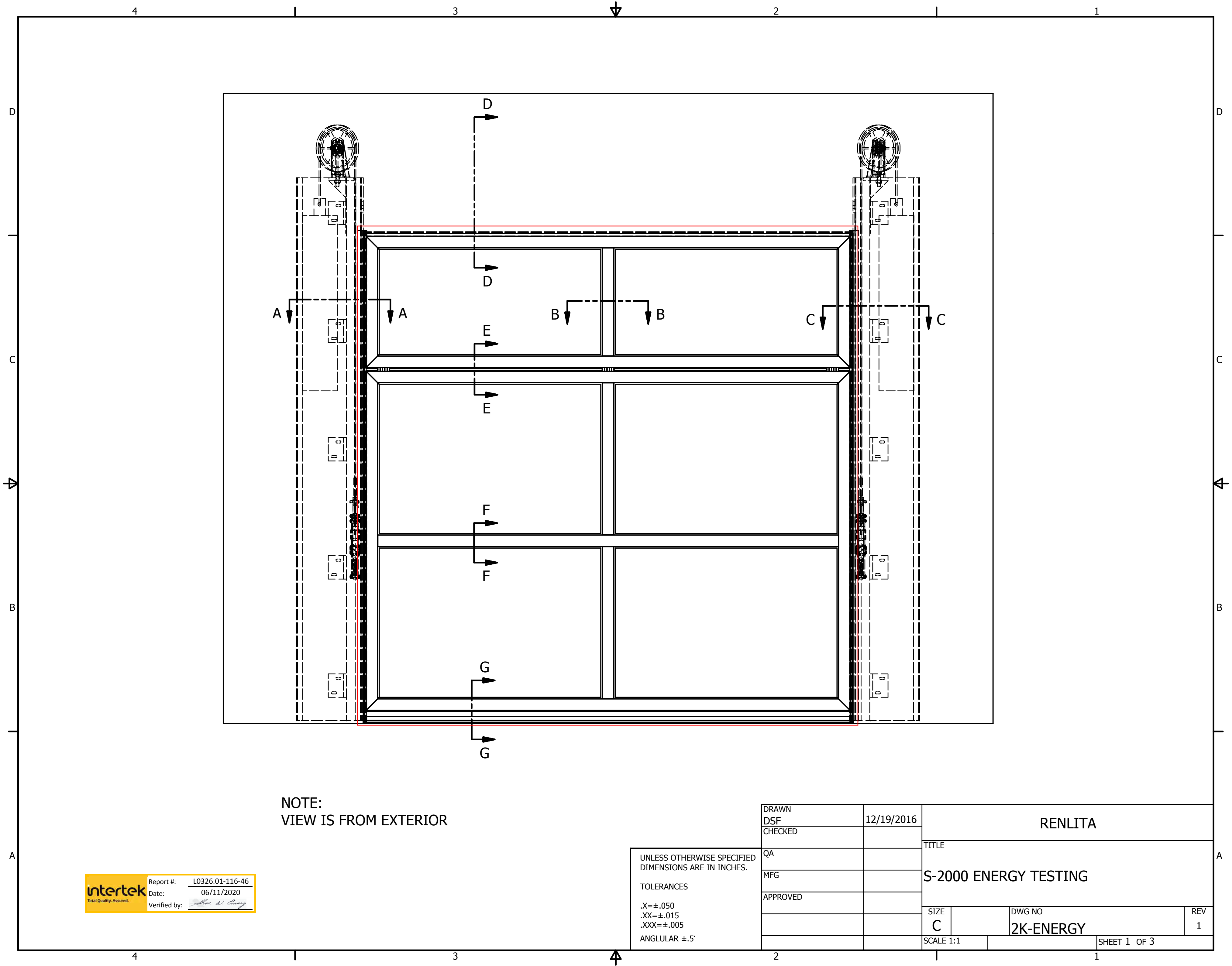
Report No.: L0326.01-116-46 R0

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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.



NOTE:  
VIEW IS FROM EXTERIOR



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Date: 06/11/2020  
Verified by: *Shane W. Conroy*

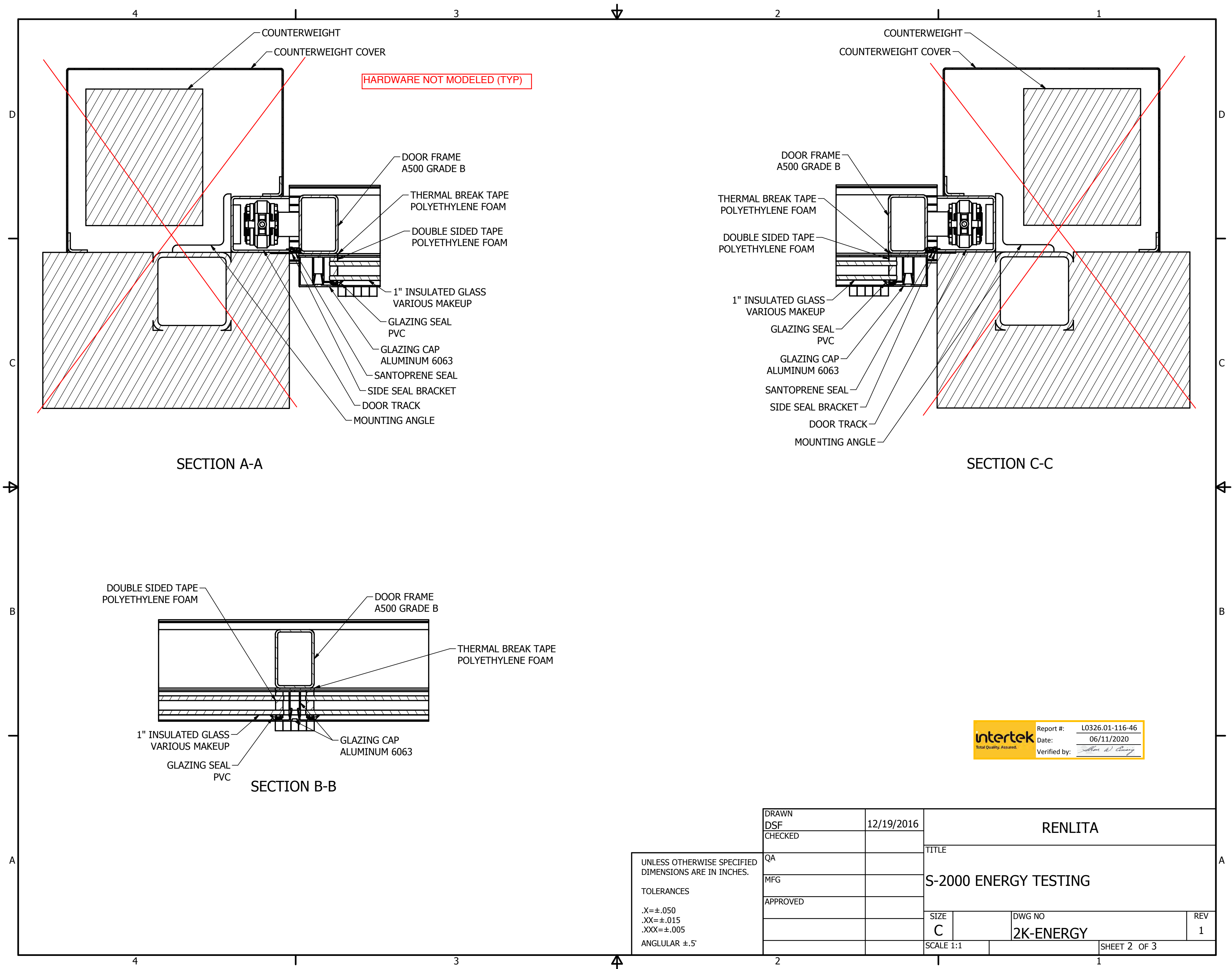
UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES.

TOLERANCES

.X=±.050  
.XX=±.015  
.XXX=±.005

ANGULAR ±.5°

|              |            |                       |                     |          |
|--------------|------------|-----------------------|---------------------|----------|
| DRAWN<br>DSF | 12/19/2016 | RENLITA               |                     |          |
| CHECKED      |            | TITLE                 |                     |          |
| QA           |            | S-2000 ENERGY TESTING |                     |          |
| MFG          |            |                       |                     |          |
| APPROVED     |            | SIZE<br>C             | DWG NO<br>2K-ENERGY | REV<br>1 |
|              |            | SCALE 1:1             | SHEET 1 OF 3        |          |





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Date: 06/11/2020  
Verified by: *[Signature]*

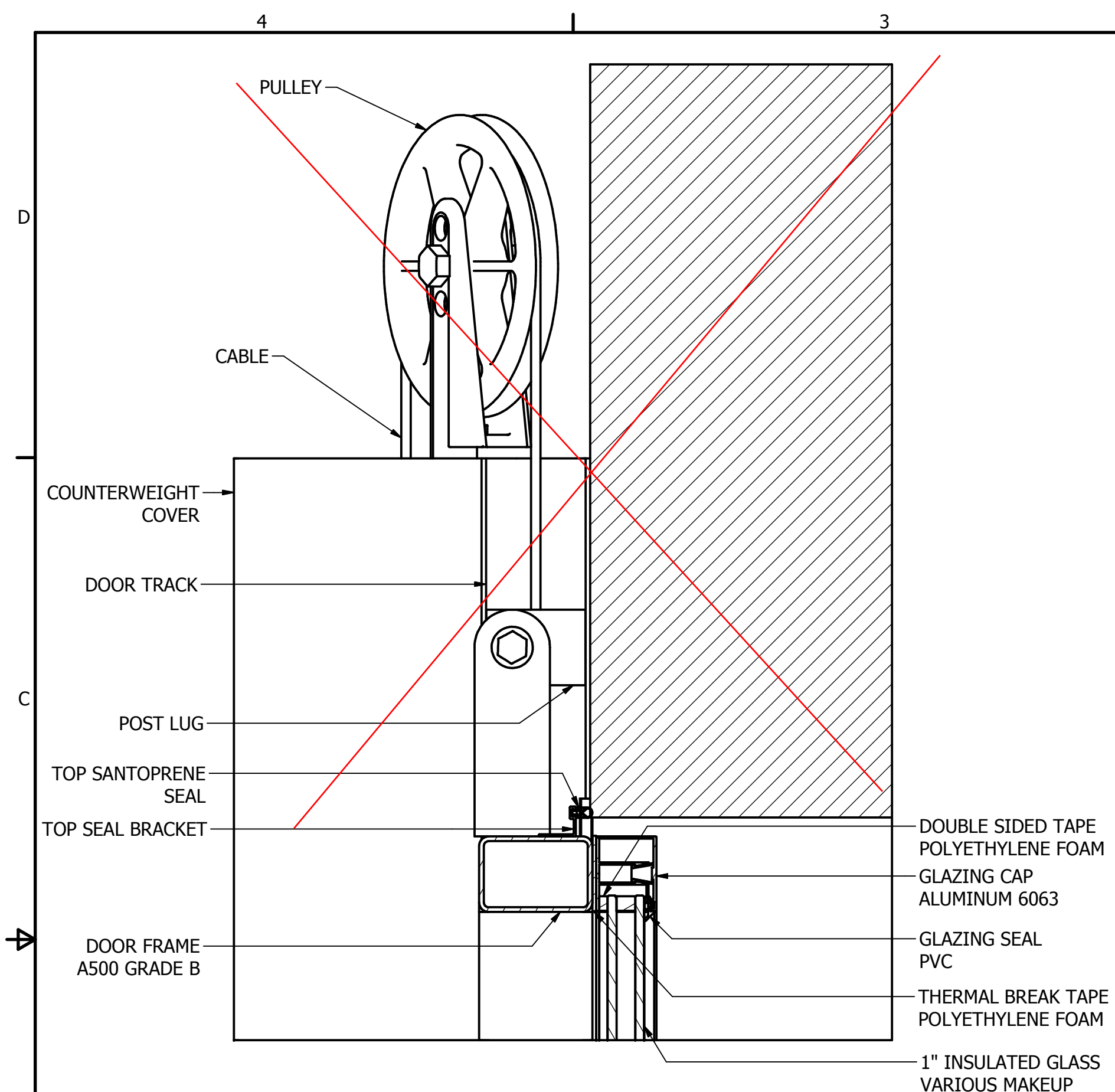
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TOLERANCES

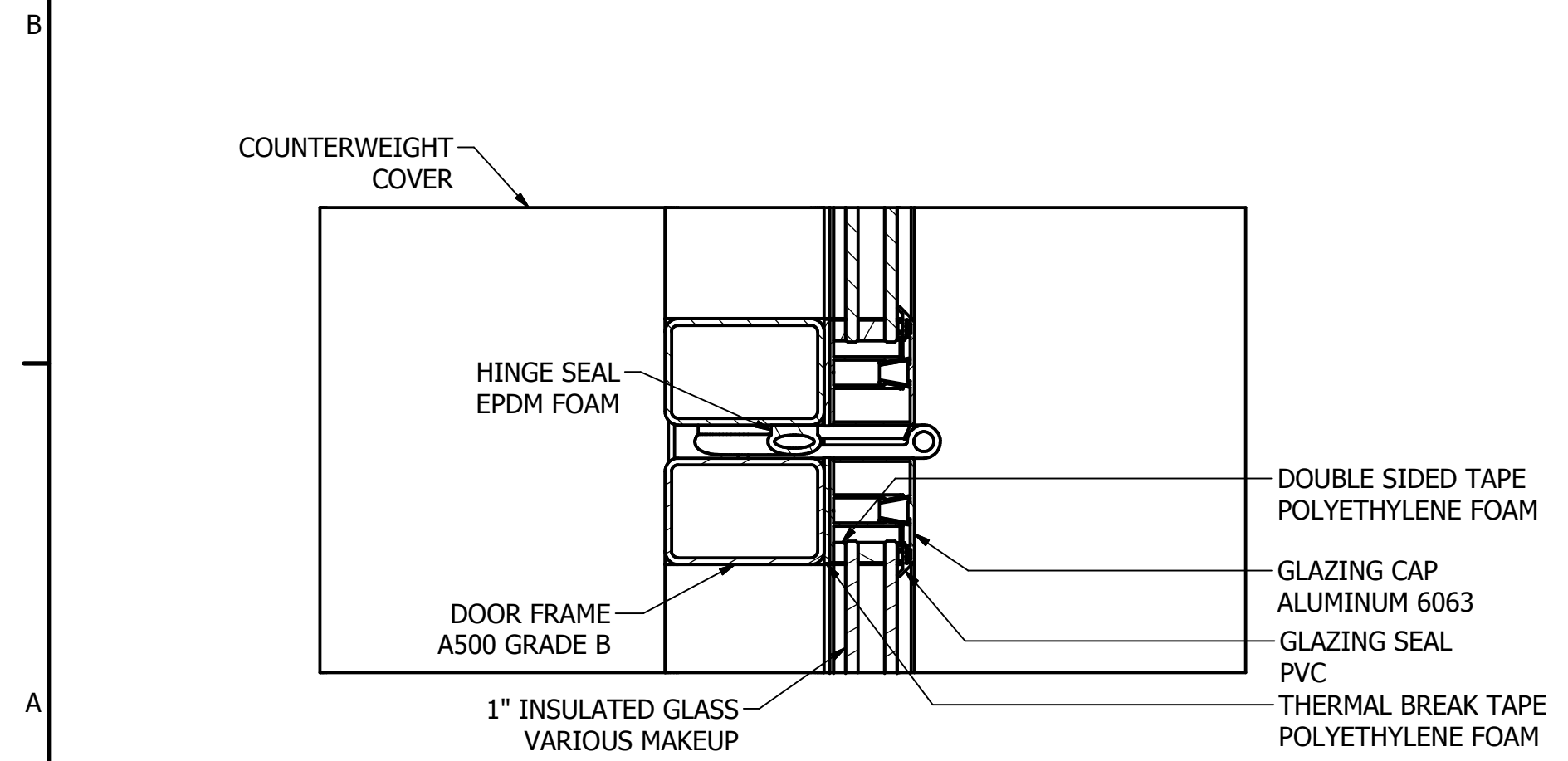
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ANGULAR ±.5°

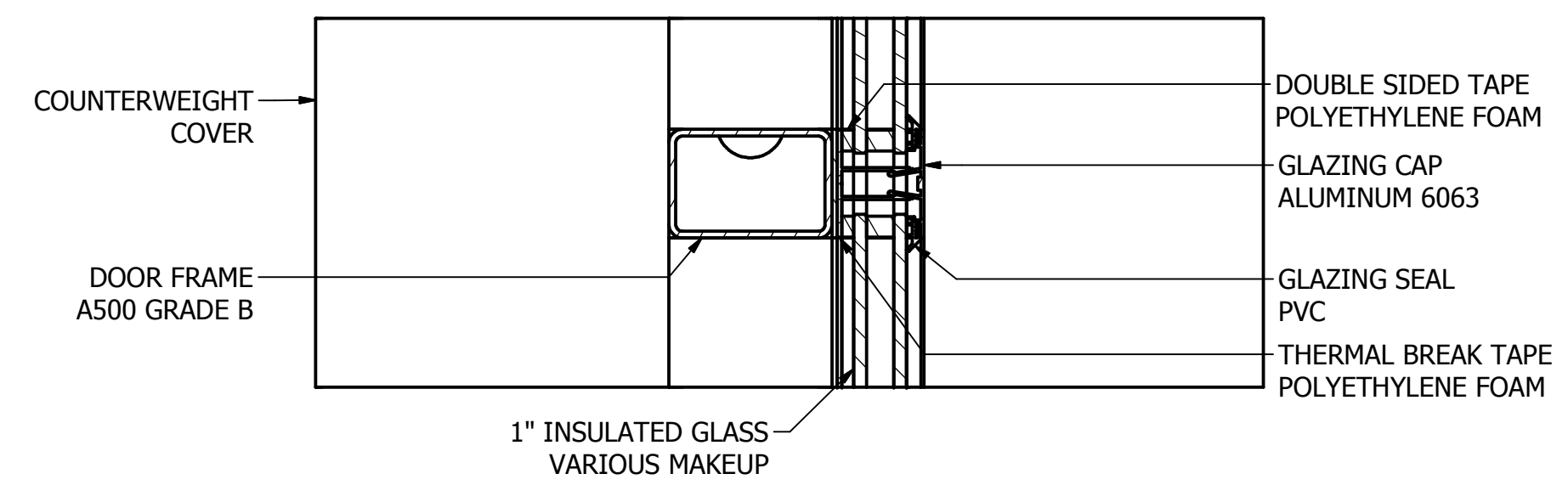
|              |            |                       |                     |          |
|--------------|------------|-----------------------|---------------------|----------|
| DRAWN<br>DSF | 12/19/2016 | RENLITA               |                     |          |
| CHECKED      |            | TITLE                 |                     |          |
| QA           |            | S-2000 ENERGY TESTING |                     |          |
| MFG          |            |                       |                     |          |
| APPROVED     |            | SIZE<br>C             | DWG NO<br>2K-ENERGY | REV<br>1 |
|              |            | SCALE 1:1             | SHEET 2 OF 3        |          |



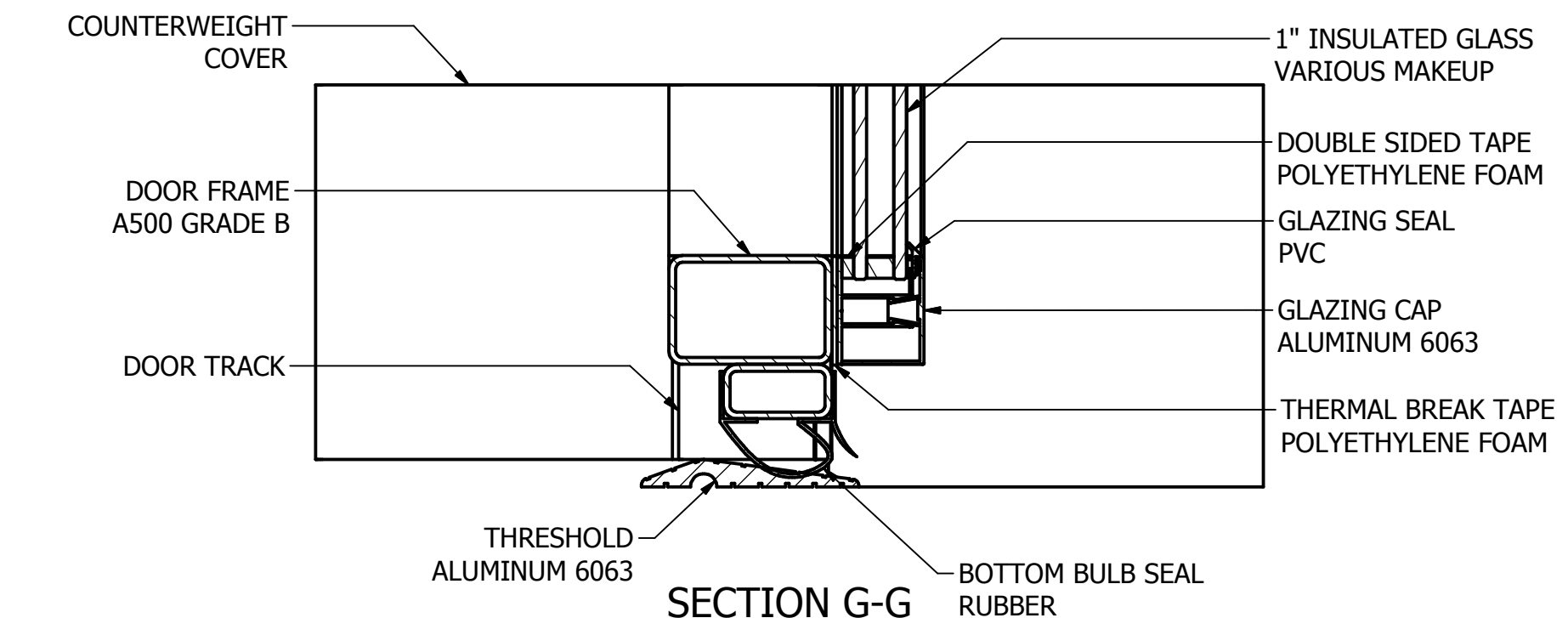
SECTION D-D



SECTION E-E



SECTION F-F



SECTION G-G

UNLESS OTHERWISE SPECIFIED  
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TOLERANCES

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.XX=±.015  
.XXX=±.005

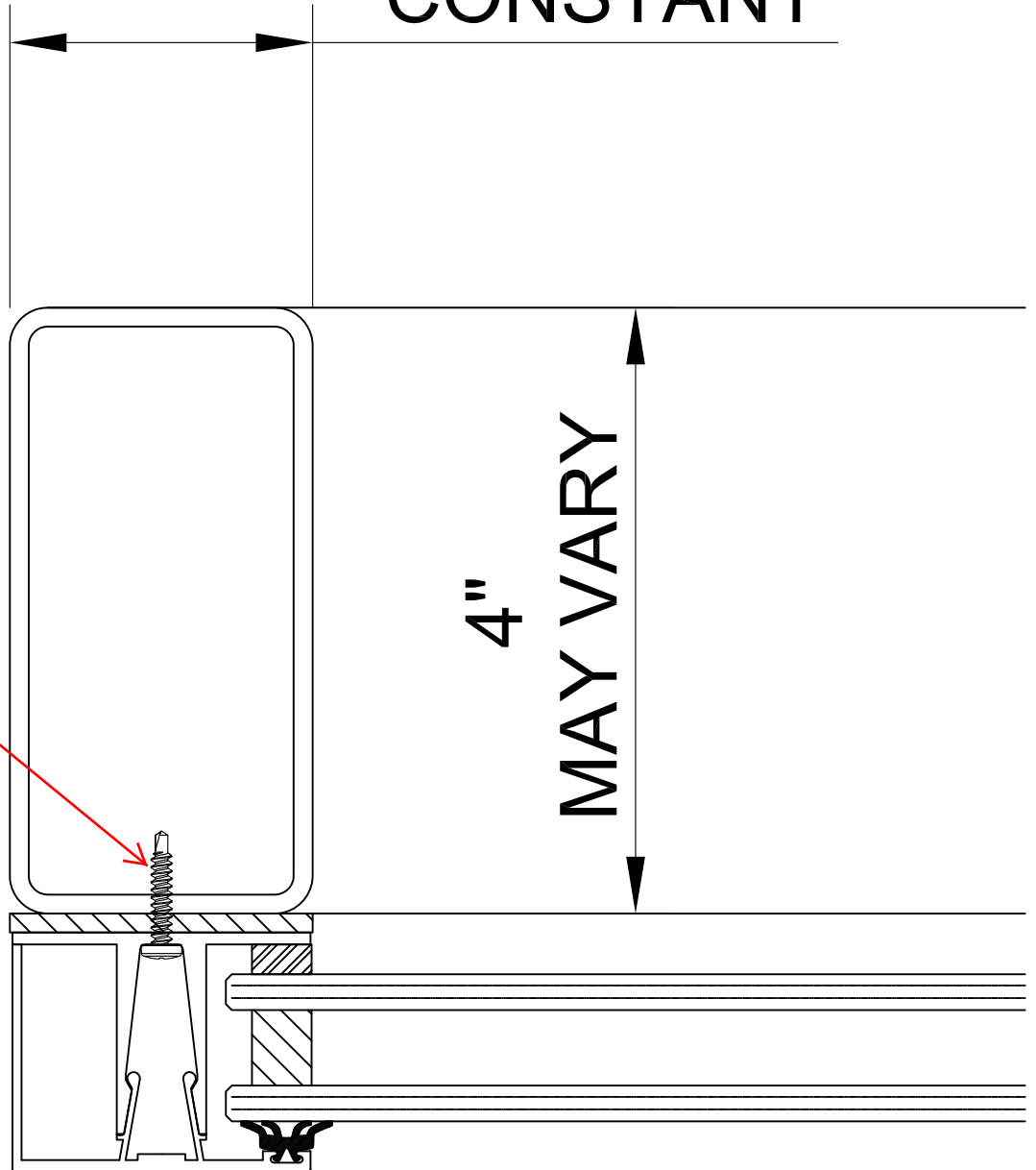
ANGULAR ±.5°

|              |            |                       |                     |          |
|--------------|------------|-----------------------|---------------------|----------|
| DRAWN<br>DSF | 12/19/2016 | RENLITA               |                     |          |
| CHECKED      |            | TITLE                 |                     |          |
| QA           |            | S-2000 ENERGY TESTING |                     |          |
| MFG          |            |                       |                     |          |
| APPROVED     |            | SIZE<br>C             | DWG NO<br>2K-ENERGY | REV<br>1 |
|              |            | SCALE 1:1             | SHEET 3 OF 3        |          |

2"  
CONSTANT

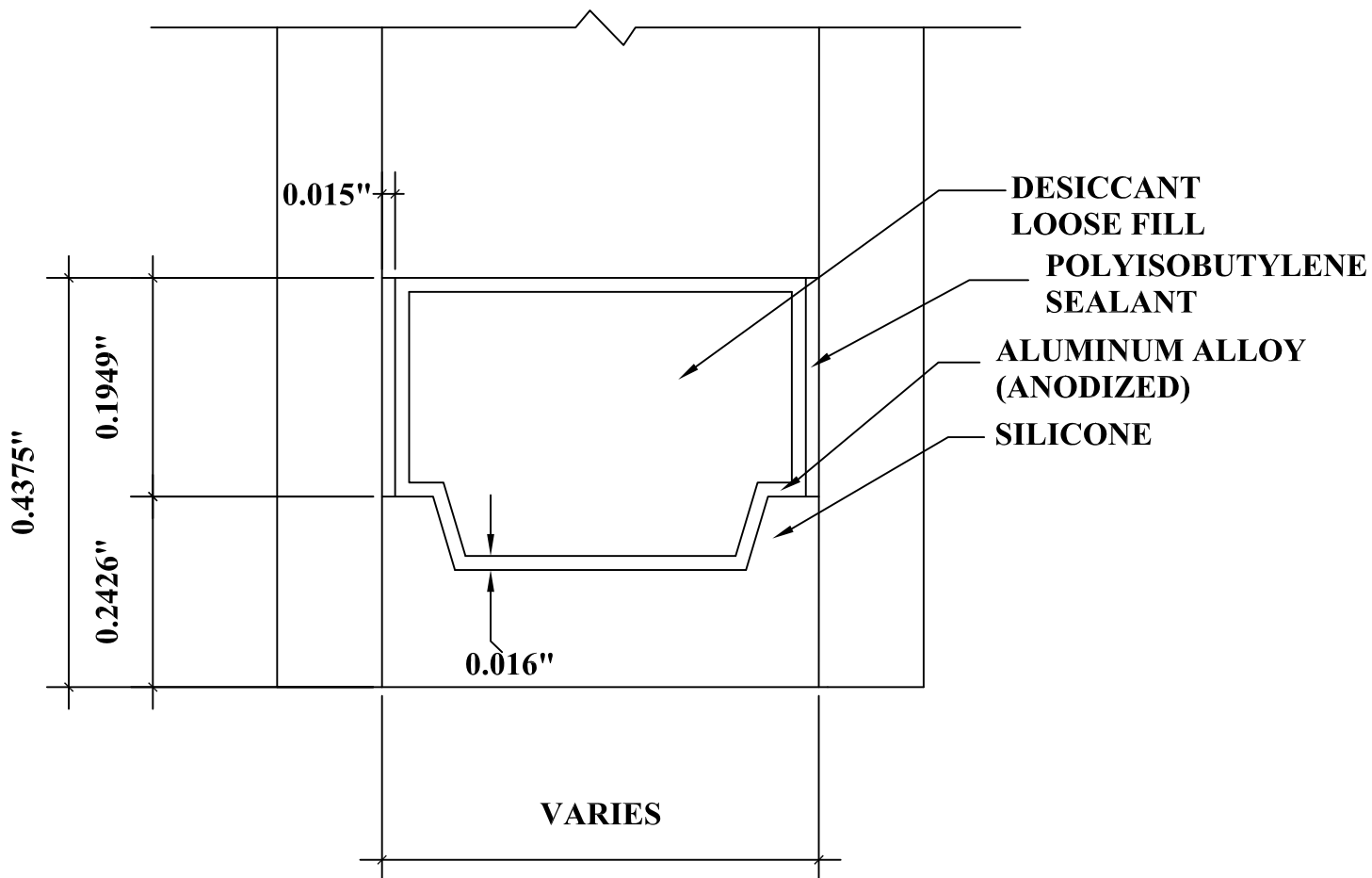
16" O.C. SPACING

4"  
MAY VARY



TYP. GLAZING DETAIL





DETAIL FOR THERMAL MODELING OF  
HELIMA ALUMINUM SPACER (A1-D)

|   |              |                       |
|---|--------------|-----------------------|
| <b>intertek</b><br><small>Total Quality. Assured.</small> | Report #:    | L0326.01-116-46       |
|   | Date:        | 06/11/2020            |
|   | Verified by: | <i>Shon W. Coning</i> |

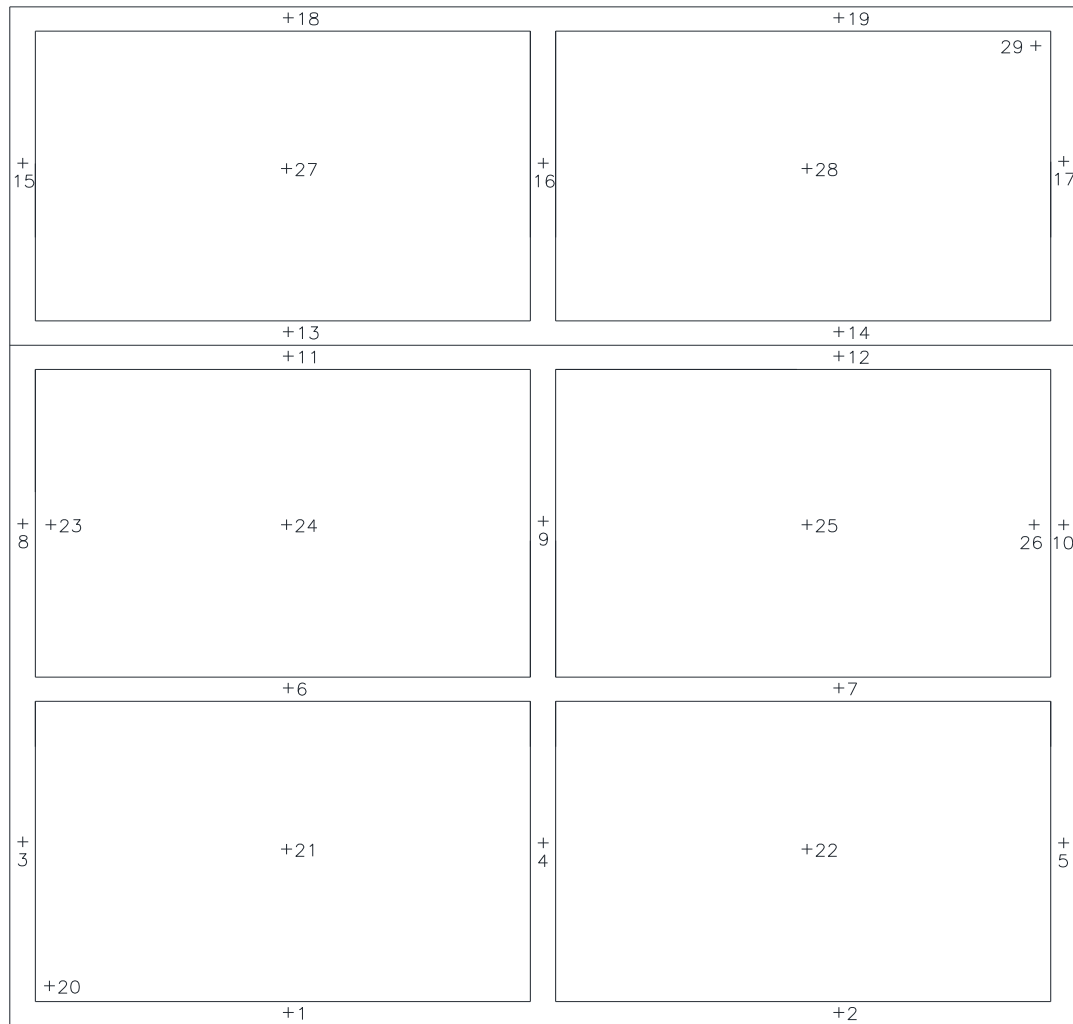
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**SECTION 16**

**THERMOCOUPLE LOCATION DIAGRAM AND TEMPERATURE CHART**



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**SECTION 16 CONT.**

**THERMOCOUPLE LOCATION DIAGRAM AND TEMPERATURE CHART**

| TEMPERATURE CHART - (F) |          |          |
|-------------------------|----------|----------|
| THERMOCOUPLE            | EXTERIOR | INTERIOR |
| 1                       | 19.45    | 39.50    |
| 2                       | 18.99    | 40.32    |
| 3                       | 35.47    | 50.79    |
| 4                       | 17.62    | 45.57    |
| 5                       | 32.56    | 51.35    |
| 6                       | 18.87    | 47.85    |
| 7                       | 19.24    | 46.53    |
| 8                       | 34.60    | 52.13    |
| 9                       | 14.05    | 44.64    |
| 10                      | 32.07    | 50.75    |
| 11                      | 18.46    | 41.44    |
| 12                      | 19.71    | 40.87    |
| 13                      | 21.13    | 44.32    |
| 14                      | 19.71    | 43.15    |
| 15                      | 40.80    | 58.66    |
| 16                      | 20.98    | 48.47    |
| 17                      | 32.58    | 56.03    |
| 18                      | 34.12    | 62.74    |
| 19                      | 31.68    | 60.73    |
| 20                      | 10.56    | 34.39    |
| 21                      | 4.33     | 51.82    |
| 22                      | 4.43     | 52.53    |
| 23                      | 13.01    | 42.61    |
| 24                      | 4.50     | 52.55    |
| 25                      | 3.92     | 51.53    |
| 26                      | 10.56    | 43.16    |
| 27                      | 5.53     | 61.60    |
| 28                      | 3.92     | 60.25    |
| 29                      | 17.29    | 42.56    |
| AVERAGE                 | 19.32    | 48.93    |

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**SECTION 17**  
**PHOTOGRAPHS**



**PHOTOGRAPH 1 - Interior of garage door installed**

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**SECTION 17 CONT.**

**PHOTOGRAPHS**



**PHOTOGRAPH 2 - Exterior of garage door installed**



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**SECTION 17 CONT.**

**PHOTOGRAPHS**



**PHOTOGRAPH 3** - Interior bottom of garage door installed



**PHOTOGRAPH 4** - Interior bottom left of garage door installed

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**SECTION 17 CONT.**

**PHOTOGRAPHS**



**PHOTOGRAPH 5** - Interior top of garage door installed



**PHOTOGRAPH 6** - Interior top left of garage door installed

**TEST REPORT FOR RENLITA DOORS NORTH AMERICA LLC**

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Date: 06/30/20

**SECTION 17 CONT.**

**PHOTOGRAPHS**



**PHOTOGRAPH 7** - Interior bottom left of garage door installed



**TEST REPORT FOR RENLITA DOORS NORTH AMERICA LLC**

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**SECTION 17 CONT.**

**PHOTOGRAPHS**



**PHOTOGRAPH 8** - Interior bottom right of garage door installed

**TEST REPORT FOR RENLITA DOORS NORTH AMERICA LLC**

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**SECTION 17 CONT.**

**PHOTOGRAPHS**



**PHOTOGRAPH 9** - Interior top right of garage door installed

**TEST REPORT FOR RENLITA DOORS NORTH AMERICA LLC**

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**SECTION 18**

**REVISION LOG**

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| .01 R0     | 06/30/20 | N/A   | Original Report Issue |