

## *PRODUCT APPROVAL EVALUATION REPORT*

Product Manufacturer : Elicc Americas Corporation  
13475 Danielson St Suite 250  
Poway, California 92064

Product Name/ Model &Description

Series SGD 300 Sliding Glass System  
Specimen # 13 - Large Missile impact. Mockup =1  
Specimen # 14 - Small Missile impact. Mockup =2  
Specimen # 15 - Small Missile impact. Mockup =3  
Specimen # 16 - Small Missile impact. Mockup =4  
Specimen # 17 - Small Missile impact. Mockup =5

**Scope:** This product has been evaluated by the below - signed Florida Professional Engineer for compliance with the code noted herein and is for the purpose intended, at least equivalent to that required by the Code, in accordance with section 553.842 F.S & Chapter 61G20-3.005 F.A.C. Re-evaluation of this product shall be required following applicable code modifications or revisions.

**Code:** 8th Edition Florida Building Code (2023) inclusive of all Supplements effective as of this report date.

**Compliance Method:** 61G20 - 3.005(1)(d) - Evaluation report from a licensed professional Engineer .

**Product Description:** Product Approval Drawing SGD - 300 SERIES LARGE MISSILE IMPACT RESISTANT(L.M.I.-D) and SMALL MISSILE IMPACT (S.M.I) prepared by ELICC AMERICAS CORPORATION Signed and Sealed by Pavan Manepalli P.E, is an integral part of this Evaluation Report.

**Limitations and Conditions of use:**

1. This product has been evaluated for use Inside and Outside of the HVHZ ( High - Velocity Hurricane Zone )
2. Impact Resistance : Large Missile Impact - Level D and Small Missile Impact
3. Refer to Product Approval Drawing noted above for :
  - a. Maximum allowable wind loads at the related maximum allowable size (S)
  - b. Other load limitations applicable to the product, if any
  - c. Overall dimensions and material/grade of main product components, accessories, etc.
  - d. Illustrated diagrams of the attachment of the product to the structure.
  - e. Anchor type(s), size(s), substrate(s), embedment, edge distance and spacing/ locations.

## TEST REPORTS :

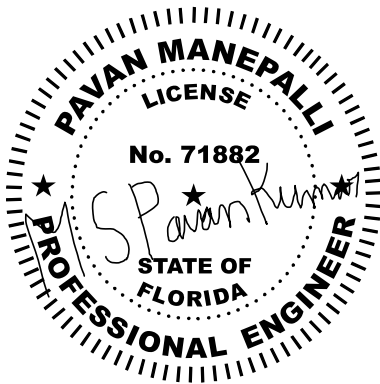
Mandatory Tests (Tested in accordance with Florida Building Code Tests Protocols)

Test Lab : Black water Testing Inc - West Palm Beach , FL

Report Number: BT -ELG- 24- 003 Signed and Sealed by Michael D. Caldwell, PE FL# 49979

Test Report Date: 02 -10- 2025

Test Standard  
and Description: ASTM E283-04 (air infiltration)  
ASTM E331-00 (water infiltration)  
ASTM F842-17 (Forced Entry Test)  
ASTM F588-17 (Disassembly Test)



02/20/2025

TAS 201-94/ASTM E1996-20 - (Mock Up 1 was subjected to large missile impacts (Level D) per TAS 201-94. Mock Up 2-5 was subjected to small missile impacts (Level A) per TAS 201-94.)

TAS 202-94 - (Mock Up 1,2,3,4&5 were subjected to static wind loads in accordance with TAS 202-94. Mock Up 1,2&3 completed wind loads to verify a Design Load of +/-110.00psf. Mock Ups 4 completed wind loads to verify a Design Load of +/-130.00psf. ). Mock ups 5 completed wind loads to verify a Design load of +/-160 psf.

TAS 203-94/ ASTM E1886-19 - (Mock Up 1-6 were subjected to cyclic wind loads in accordance with TAS 203-94. Mock Up 1,2&3 successfully completed the cyclic wind loads to verify a Design Load of +/-110.00 psf. Mock Up 4 successfully completed the cyclic wind loads to verify a Design Load of +/-130.00 psf ). Mockup 5 successfully completed the cyclic wind loads to verify a design load of +/- 160.00 psf.

## Engineering Analysis :

The following engineering analysis and/or Calculations have been performed

1. No comparative analysis has been performed for conditions other than those tested.
2. No rational analysis has been performed.
3. Anchor calculations are based on manufacturer's published anchor capacity.

**Equivalency Evaluation to AAMA 501 :** It has been determined that for the above referenced product with Florida Product Approval # 47352 the testing performed for the TAS 201, TAS 202 and TAS 203 meet or exceed the requirement of AAMA 501.



# BLACKWATER TECHNICAL SERVICES INC.

7341 Westport Pl Suite 1A, West Palm Beach Fl. 33413

Phone: 561-508-2830 E-mail: Engdep@blackwatertesting.com  
MIAMI-DADE CERTIFICATION #21-0909.01 ISO/IEC 17025:2017 AT-2584



## Client:

### ELICC Group

2181 Meyers Ave., Suite: C  
Escondido, CA 92029  
Phone: (760) 233-0066 Fax: (760) 233-0065

## Product Description of Unit

ELICC-SGD SYSTEM

## Test Dates

Start: 10/11/2024 End: 11/30/2024

## Witness to Testing:

Mike Caldwell, P.E. Test Engineer, BT President  
Austin Hartwick, BT Lead Lab Technician

## Testing Summary

**AIR INFILTRATION (ASTM E283-19):** Mock Up 1,3,4@5 was subjected to Air Infiltration in accordance with **ASTM E283-19**. Mock Up 1,3,4&5 passed the testing criteria.

**WATER INFILTRATION (ASTM E331-00(2023)):** Mock Up 1,3,4&5 was subjected to Water Infiltration in accordance with **ASTM E331-00(23)**. Mock Up 1,3,4&5 passed the testing criteria.

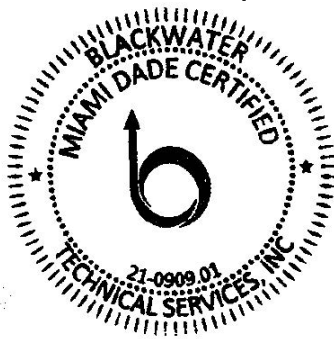
**STATIC LOADS (TAS 202-94):** Mock Up 1,2&3 was subjected to static wind loads in accordance with **TAS 202-94** with a Design Pressure of +/-110.00 psf. Mock up 4 Mock was subjected to static wind loads in accordance with **TAS 202-94** with a Design Pressure of +/-130.00 psf. Mock up 5 Mock was subjected to static wind loads in accordance with **TAS 202-94** with a Design Pressure of +/-160.00 psf. Mock Ups 1,2,3,4&5 passed testing criteria.

**MISSILE IMPACTS (TAS 201-94):** Mock Up 1 was subjected to Large Missile Impacts (Level D) in accordance with **TAS 201-94**. Mock Up 1 passed the testing criteria. Mock up 2,3,4&5 was subjected to Small Missile Impacts. Mock up 2,3,4&5 passed testing criteria.

**CYCLIC LOADS (TAS 203-94):** Mock Up 1,2&3 was subjected to cyclic wind loads in accordance with **TAS 203-94** with a Design Pressure of +/-110.00 psf. Mock Up 1,2&3 passed testing criteria. Mock 4 was subjected to cyclic wind loads in accordance with **TAS 203-94** with a Design Pressure of +/-130.00. Mock up 4 passed testing criteria. Mock up 5 was subjected to cyclic wind loads in accordance with **TAS 203-94** with a Design Pressure of +/-160.00. Mock up 5 passed testing criteria

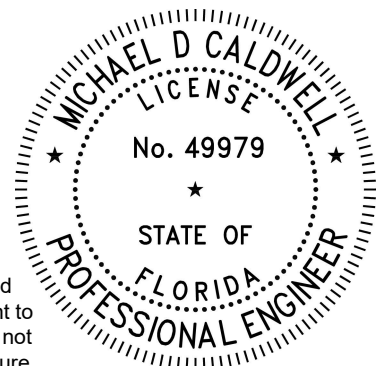
**Forced Entry (ASTM F842):** Mock ups 1,3,4&5 was subject to Forced Entry ASTM F842. Mock ups 1,3,4&5 passed testing criteria.

**CONCLUSION:** Following testing Mock Up 1,2,3,4&5 was disassembled. No failures were observed in the panes, frame, fastenings, or anchorages. **The "ELICC-SGD SYSTEM" product was tested in accordance with and meets the requirements to comply with Florida Building Code 2023.**



Mike Caldwell, President

This item has been digitally signed and sealed by Michael Caldwell, PE, on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



**Disclaimer:** This is a general statement and does not supersede the specific product descriptions in this report. The Mock Ups are in conformance with drawings provided by the manufacturer. These drawings have been marked to indicate the appropriate portions descriptive of this test series. Blackwater Technical Services, Inc. does not take responsibility for product performance and whose only purpose is to test and gather pertinent data under test report format for the client.



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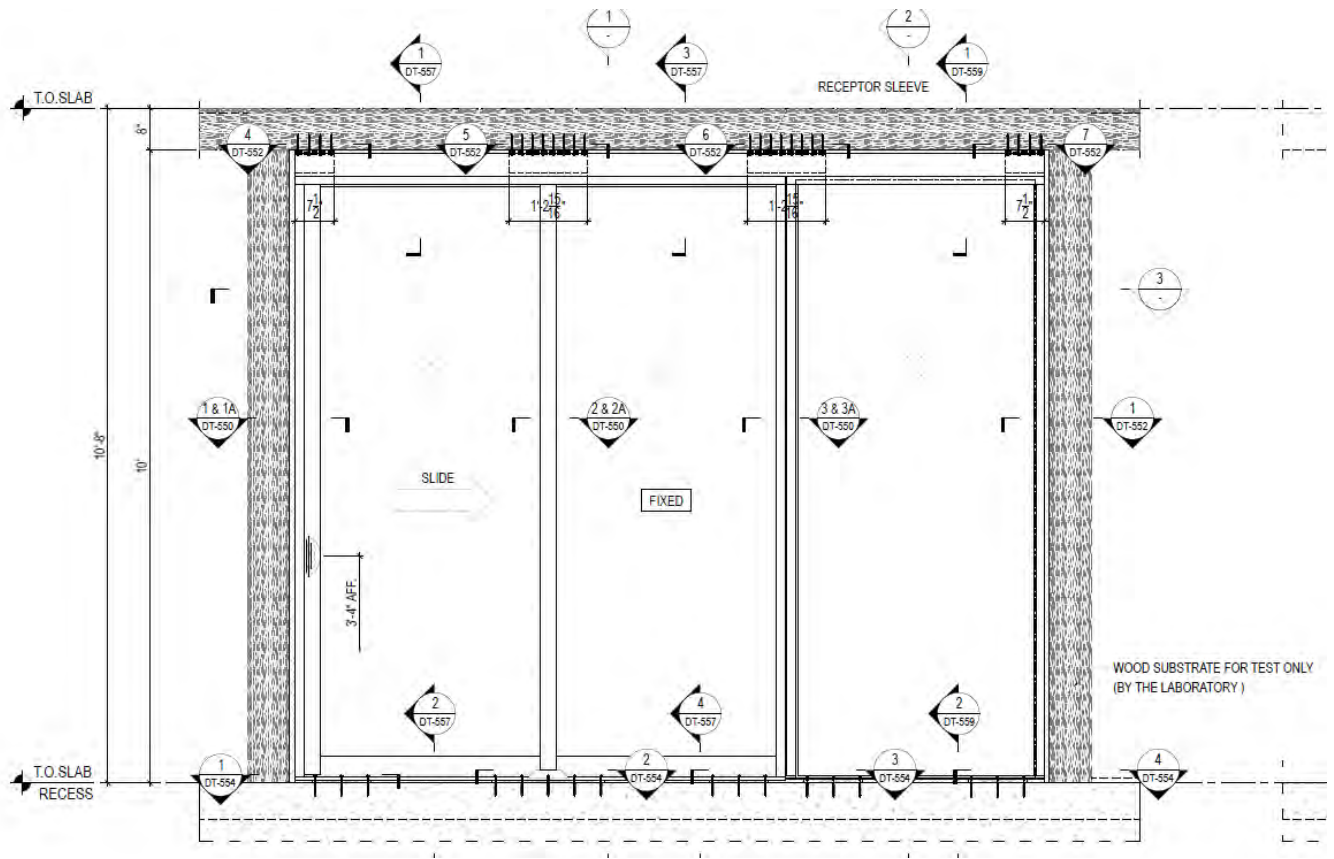
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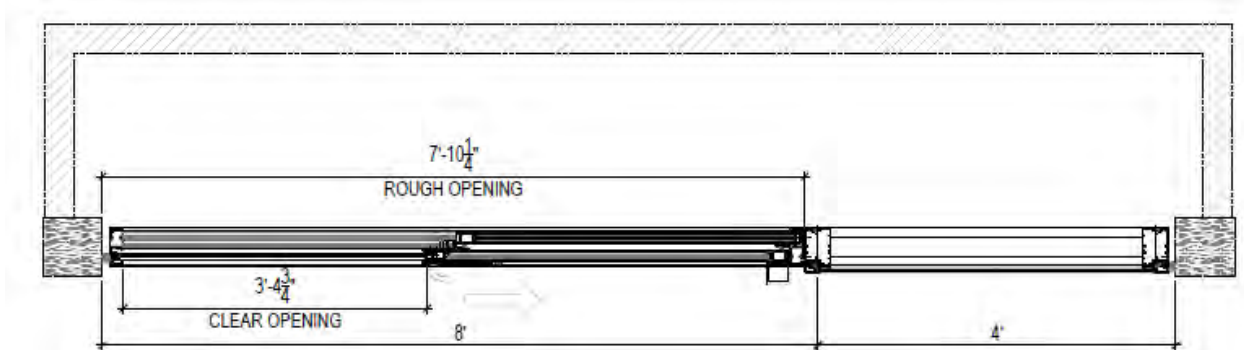


### Product Description

#### Mock Up Elevations:



#### Mock up 1



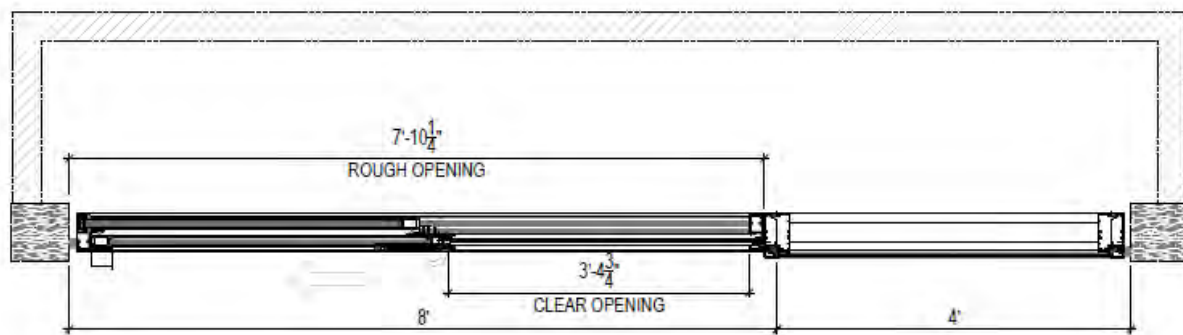
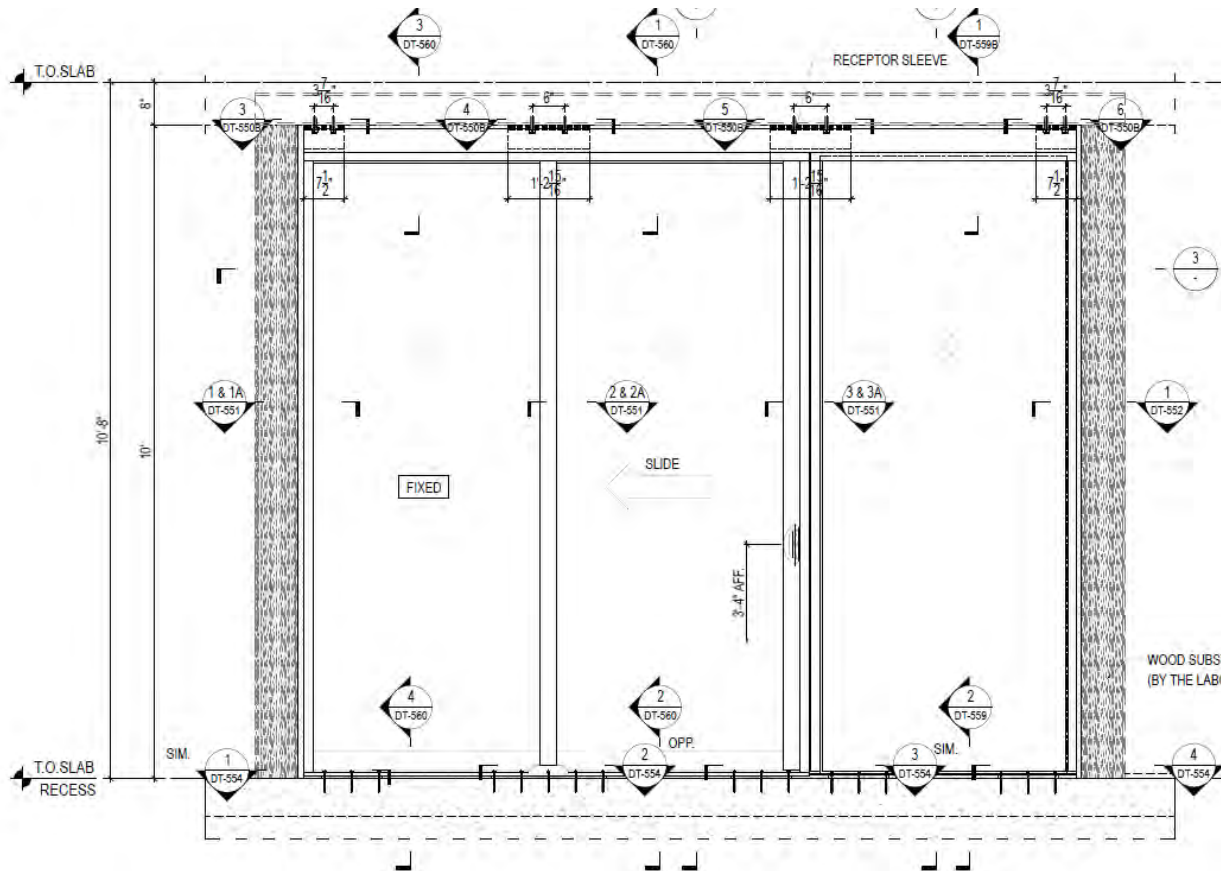


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Mock Up 2

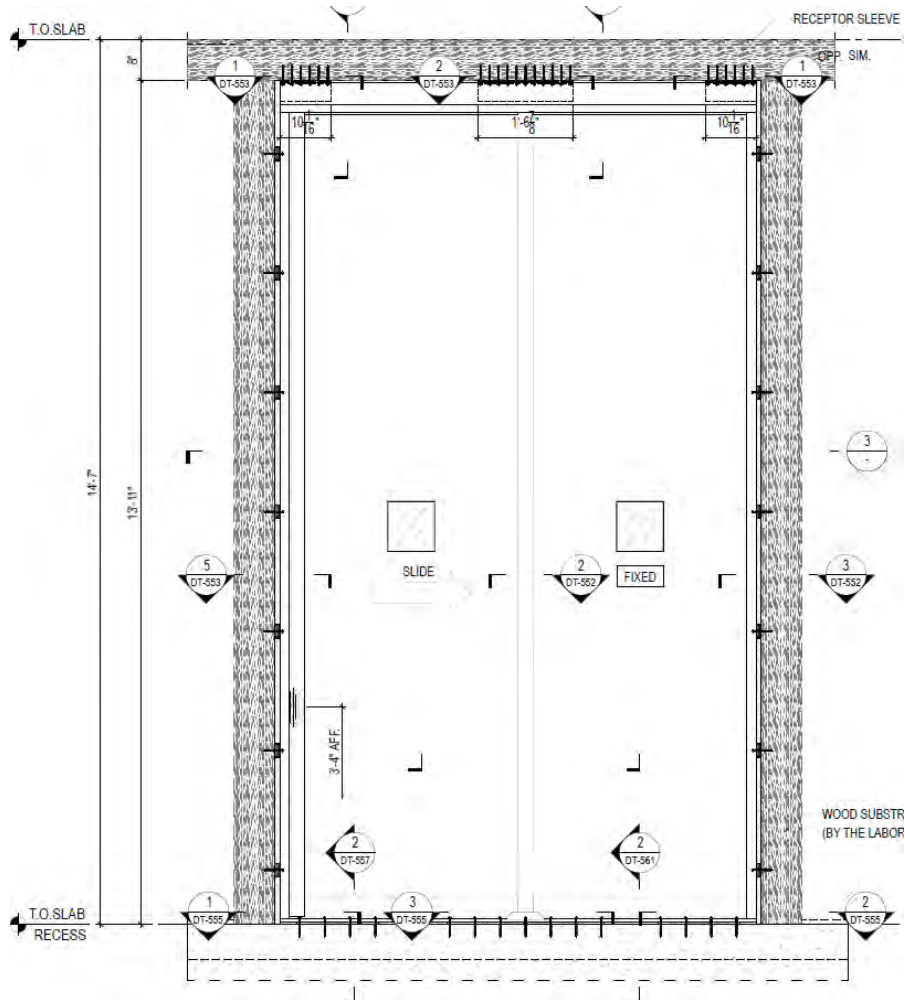


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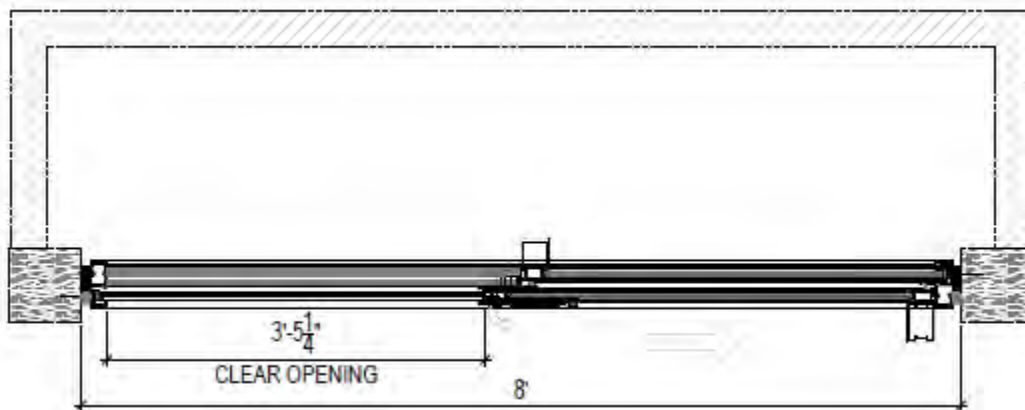
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Mock up 3



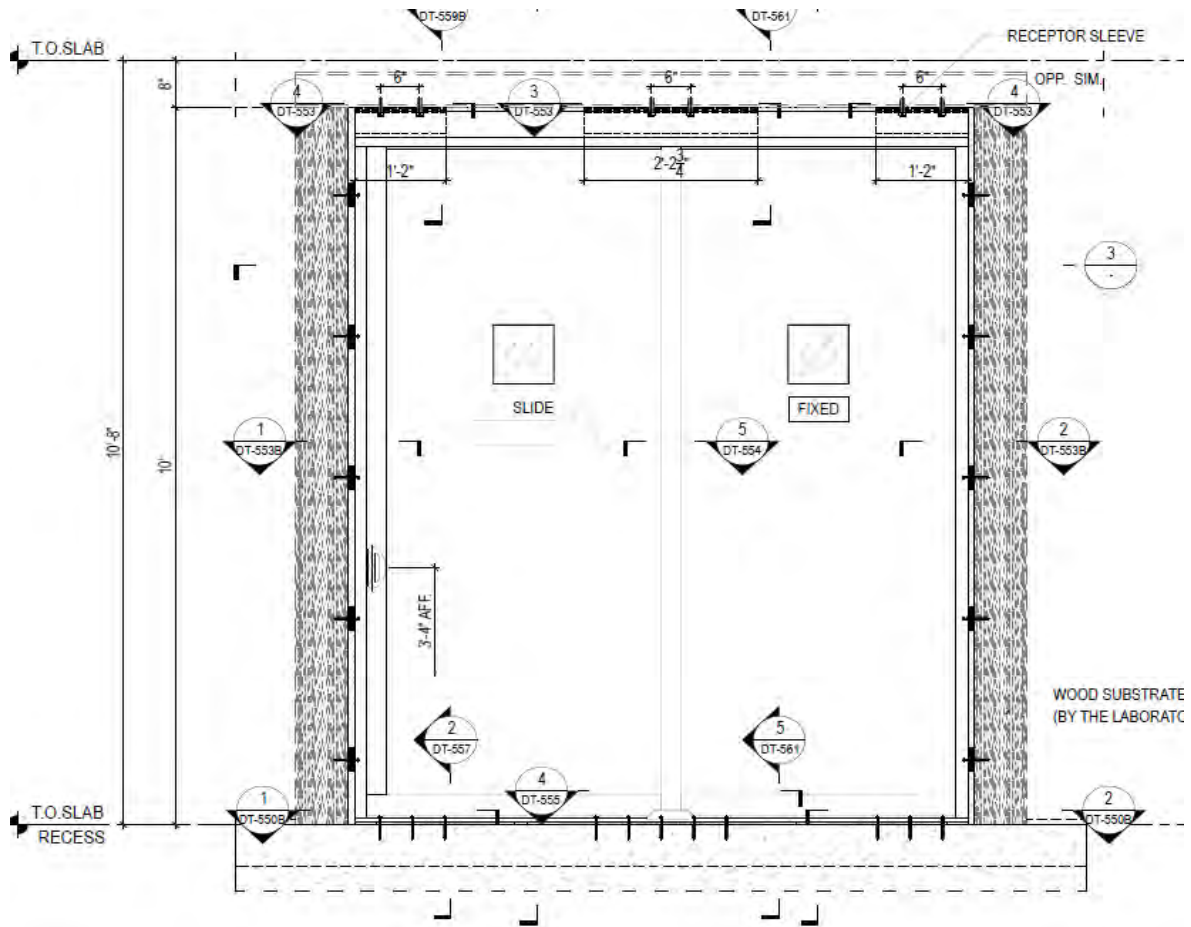


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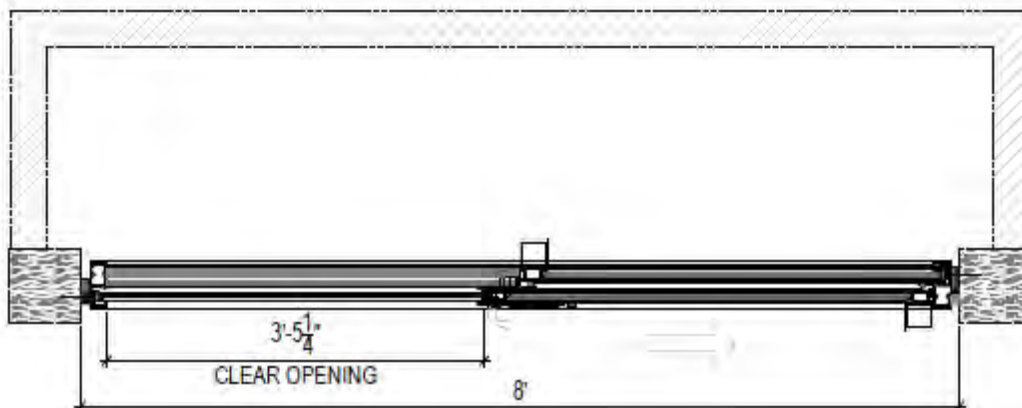
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Mock up 4



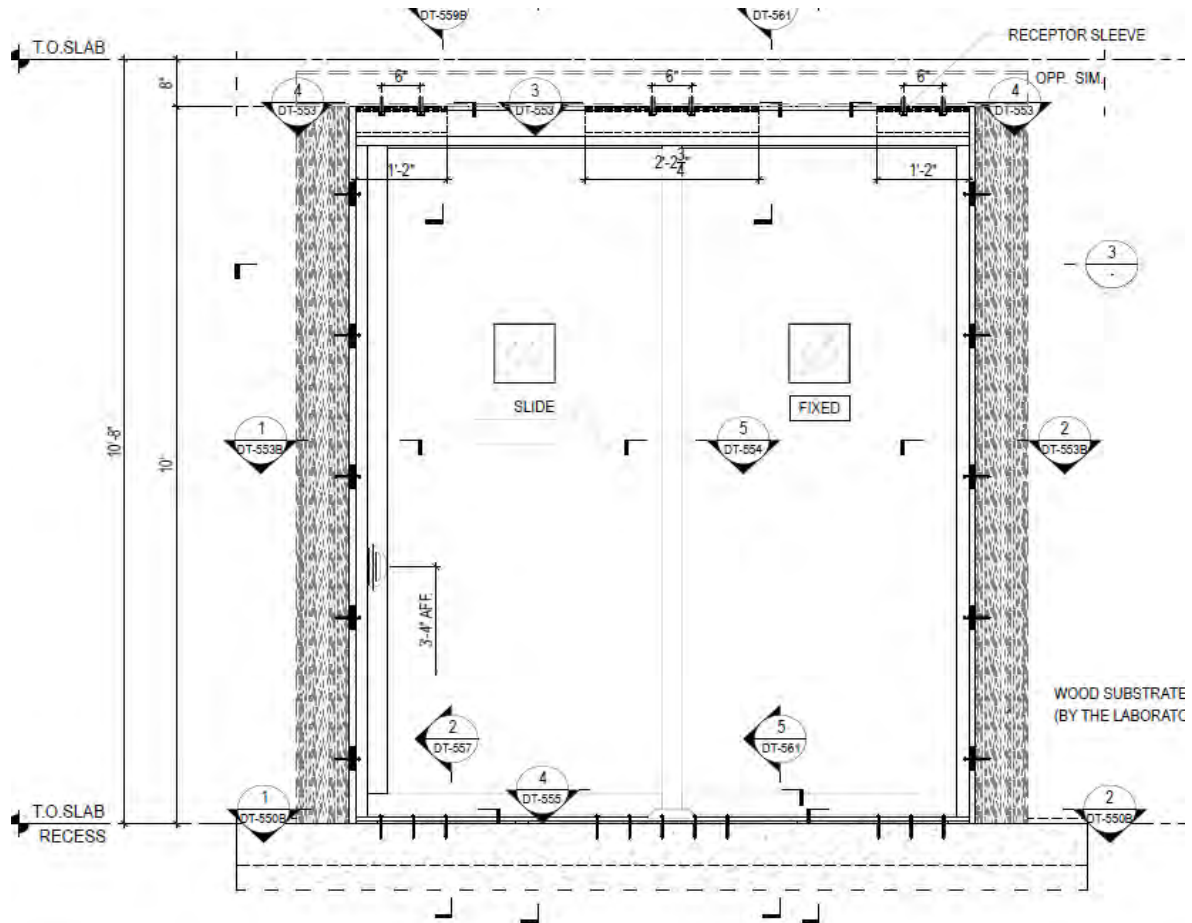


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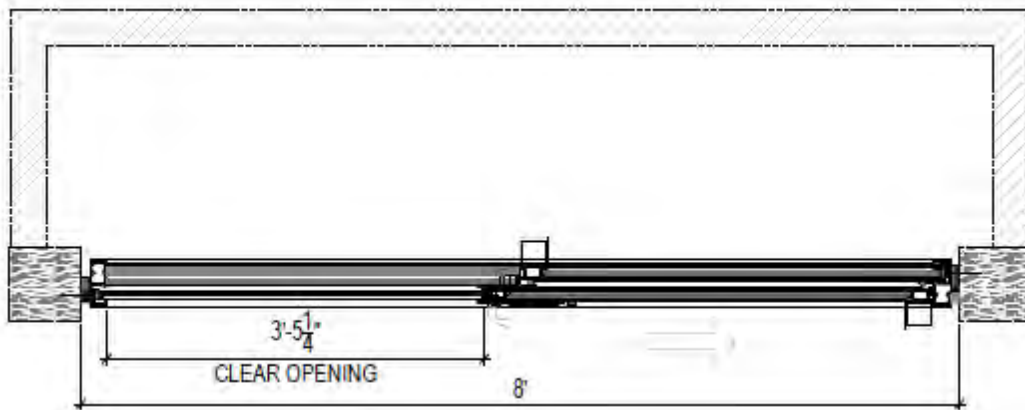
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### Mock up 5





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## Overall Size:

Mock Up 1:

- 144" W by 120" H

Mock up 2:

- 144" W by 120" H

Mock up 3:

- 96" W by 167" H

Mock up 4:

- 96" W by 120" H

Mock up 5:

- 96" W by 120" H

## Daylight Opening:

Mock Up 1&2:

- 2X 41-11/16" W by 2X 107" H
- 1X 41-7/8" W by 1X 109-9/16 H

Mock up 3:

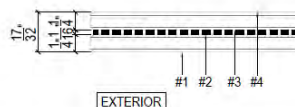
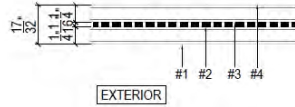
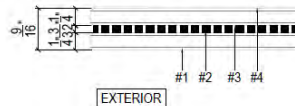
- 1X 42-3/16" W by 1X 154-15/16" H
- 1X 41-11/16" W by 1X 154-15/16" H

Mock up 4&5:

- 1X 42-3/16" W by 1X 107-15/16" H
- 1X 41-11/16" W by 1X 107-15/16 H

## Glazing Composition:

### 1.MATERIAL LIST OF GLASS

| LEGEND<br>NUMBER | MATERIAL                                                                         | SECTION                                                                              |
|------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| GL-101           | GL-101: VISION GLASS<br>HS 6MM Gray+ 1.52MM PVB + HS 6MM Clear Laminated Glass   |  |
| GL-101M          | GL-101M: VISION GLASS<br>FT 6MM Gray + 1.52MM PVB + FT 6MM Clear Laminated Glass |  |
| GL-101B          | GL-101B: VISION GLASS<br>HS 6MM Gray + 2.28MM SGP + HS 6MM Clear Laminated Glass |  |

Mock up 1:

- HS 6MM Gray+2.228MMSGP+HS 6MM Clear Laminated Glass

Mock up 2:

- HS 6MM Gray+1.52MM PVB+HS 6MM Clear Laminated Glass

Mock up 3,4&5:

- FT 6MM Gray+1.52MM PVB+FT 6MM Clear Laminated Glass



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### Glazing Sealant:

All mockups

- Dowsil 791 – weather
- Dowsil 983 – Structural glazing

### Perimeter Sealant:

All mockups

- 3M 525 polyurethane sealant

### Glass Bite:

All mockups

- 5/8" MIN

### Substrate:

Mock up 1

- Header: 2" by 10" Southern Yellow Pine.
- Sill: Concrete Slab (Shop Floor)

Mock up 2:

- Header: 8" by 8" Heat strengthened steel 1/4" thick.
- Sill: Concrete slab (Shop Floor)

Mock up 3:

- Header: 2" by 10" Southern Yellow Pine
- Jamb: 2" by 10" Southern Yellow Pine
- Sill: Concrete slab (Shop Floor)

Mock up 4:

- Header: 8" by 8" Heat strengthened steel 1/4" thick
- Jambs: 2" by 10" Southern Yellow Pine
- Sill: Concrete slab (Shop Floor)

Mock up 5:

- Header: 8" by 8" Heat strengthened steel 1/4" thick
- Sill: Concrete slab (Shop Floor)

### Anchor Type:

Mock ups 1:

- Header: Dewalt 5/16" X 3-3/4" HWH Ultracon Screw
- Sill: : Dewalt 5/16" X 3-3/4" HWH Ultracon Screw

Mock up 2:

- Header: 5/8"-11 X 2-1/2" H.W.H Tapeflex Bolt
- Sill: : Dewalt 5/16" X 3-3/4" HWH Ultracon Screw

Mock up 3:

- Header: Dewalt 5/16" X 3-3/4" HWH Ultracon Screw
- Jamb: Dewalt 5/16" X 3-3/4" HWH Ultracon Screw
- Sill: : Dewalt 5/16" X 3-3/4" HWH Ultracon Screw

Mock up 4:

- Header: 5/8"-11 X 2-1/2" H.W.H Tapeflex Bolt
- Jamb: Dewalt 5/16" X 3-3/4" HWH Ultracon Screw
- Sill: : Dewalt 5/16" X 3-3/4" HWH Ultracon Screw

Mock up 5:

- Header: 5/8"-11 X 2-1/2" H.W.H Tapeflex Bolt
- Sill: : Dewalt 5/16" X 3-3/4" HWH Ultracon Screw



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### Anchor Spacing:

#### Mock Up 1:

- Header: Cluster of 4 anchors at each side Jamb 2-1/8" apart. Cluster of 8 anchors at mullions 1-15/16' apart.
- Sill: Cluster of 3 anchors at each side Jamb 5" apart. Cluster of 6 anchors at mullions 5" apart.

#### Mock up 2:

- Header: Cluster of 2 anchors at each side of Jamb 3-7/16" apart. 2 Clusters of 2 anchors at mullions 6" apart
- Sill: Cluster of 3 anchors at each side of Jamb 5" apart. Cluster of 6 anchors at mullions 5" apart.

#### Mock up 3:

- Header: Cluster of 6 anchors on each side of Jamb 1-3/4" apart. Cluster of 11 anchors in the center 1-3/4" apart.
- Sill: Cluster of 4 anchors on each side of Jamb 5" apart. Cluster of 8 anchors in the center 5" apart.

#### Mock up 4:

- Header: Cluster of 2 anchors on each side of Jamb 6" apart. Cluster of 2 anchors in the center 2" apart.
- Sill: Cluster of 3 anchors on each side of Jamb 5" apart. Cluster of 5 anchors in the center 5" apart.

#### Mock up 5:

- Header: Cluster of 2 anchors on each side of Jamb 6" apart. Cluster of 2 anchors in the center 2" apart.
- Sill: Cluster of 3 anchors on each side of Jamb 5" apart. Cluster of 5 anchors in the center 5" apart

### General Construction

- Aluminum extrusions screwed together with assembly screws. See attached details, specifically drawing DT550 and DT554.

### Hardware:

Rollers – Kin Long, Stainless Steel, 200KG capacity per pair. Please see Drawing ML-046 for further details.

Locks – Kin Long, 2 point mortise lock and sliding door handle. Please see Drawing ML-046 for further details

### Weatherstripping:

Wool pile strips and silicone gaskets at jambs, stiles, and interlocks. See attached drawings for specific gasketing details.



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### Test Sequence

#### Mock Up 1

1. Air Infiltration ASTM E283
2. TAS 202 @+/-82.50 psf. for 30 seconds
3. TAS 202 @+/-110.00 psf. for 30 seconds
4. Water Infiltration ASTM E331
5. TAS 202-94@ +/-165.00 psf. for 30 seconds
6. TAS 201/ASTM E1996 Large Missile Impacts
7. TAS 203/ ASTM E1886 @+/-110.00 psf.
8. Forced Entry ASTM F842

#### Mock Up 2

1. Air Infiltration ASTM E283
2. TAS 202 @+/-82.50 psf. for 30 seconds
3. TAS 202 @+/-110.00 psf. for 30 seconds
4. Water Infiltration ASTM E331
5. TAS 202-94@ +/-165.00 psf. for 30 seconds
6. TAS 201/ASTM E1996 Small Missile Impacts
7. TAS 203/ ASTM E1886 @+/-110.00 psf.

#### Mock up 3

1. Air Infiltration ASTM E283
2. TAS 202 @+/-82.50 psf. for 30 seconds
3. TAS 202 @+/-110.00 psf. for 30 seconds
4. Water Infiltration ASTM E331
5. TAS 202-94@ +/-165.00 psf. for 30 seconds
6. TAS 201/ASTM E1996 Small Missile Impacts
7. TAS 203/ ASTM E1886 @+/-110.00 psf.

#### Mock up 4

1. Air Infiltration ASTM E283
2. TAS 202 @+/-97.50 psf. for 30 seconds
1. TAS 202 @+/-130.00 psf. for 30 seconds
2. Water Infiltration ASTM E331
3. TAS 202-94@ +/-195.00 psf. for 30 seconds
4. TAS 201/ASTM E1996 Small Missile Impacts
5. TAS 203/ ASTM E1886 @+/-130.00 psf.
6. Forced Entry ASTM F842

#### Mock up 5

1. Air Infiltration ASTM E283
2. TAS 202 @+/-120.00 psf. for 30 seconds
3. TAS 202 @+/-160.00 psf. for 30 seconds
4. Water Infiltration ASTM E331
5. TAS 202-94@ +/-240.00 psf. for 30 seconds
6. TAS 201/ASTM E1996 Small Missile Impacts
7. TAS 203/ ASTM E1886 @+/-160.00 psf.
8. Forced Entry ASTM F842



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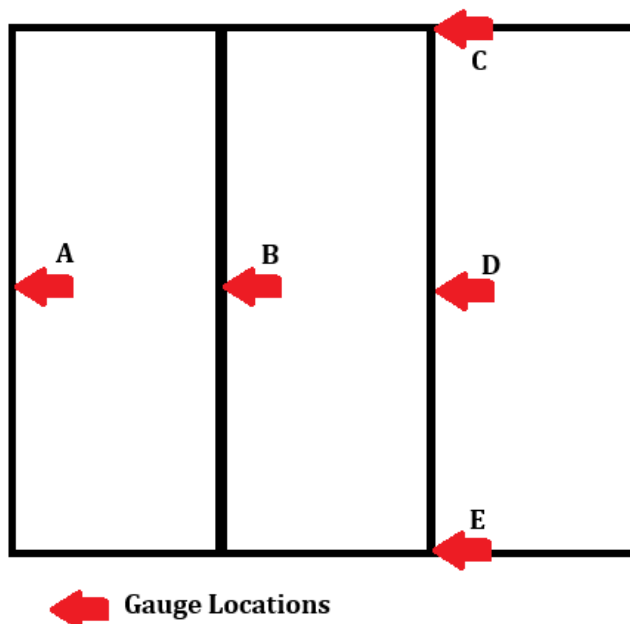
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## Test Results



Specimen 1

| STATIC LOAD DATA SHEET |                   |          |                 |                   |           | Design Pressure Positive | Design Pressure Negative | T= 83 °F            |           |                     |           |                     |           |                     |
|------------------------|-------------------|----------|-----------------|-------------------|-----------|--------------------------|--------------------------|---------------------|-----------|---------------------|-----------|---------------------|-----------|---------------------|
|                        |                   |          |                 |                   |           | 110.00                   | 110.00                   |                     |           |                     |           |                     |           |                     |
|                        |                   |          |                 |                   | A         |                          | B                        |                     | C         |                     | D         |                     | E         |                     |
| Load Factor            | Positive/Negative | Load psf | Load Inch Water | Load Duration (s) | Defl(in.) | Permanent Set (in.)      | Defl(in.)                | Permanent Set (in.) | Defl(in.) | Permanent Set (in.) | Defl(in.) | Permanent Set (in.) | Defl(in.) | Permanent Set (in.) |
| 0.5TL                  | Positive          | 82.500   | 15.865          | 30.000            | 0.063     | 0.000                    | 0.750                    | 0.000               | 0.688     | 0.063               | 0.625     | 0.063               | 0.250     | 0.063               |
| 0.5TL                  | Negative          | 82.500   | 15.865          | 30.000            | 0.313     | 0.063                    | 0.688                    | 0.125               | 0.375     | 0.063               | 0.500     | 0.125               | 0.063     | 0.000               |
| DP                     | Positive          | 110.000  | 21.154          | 30.000            | 0.250     | 0.000                    | 1.063                    | 0.000               | 0.813     | 0.000               | 0.750     | 0.000               | 0.313     | 0.000               |
| DP                     | Negative          | 110.000  | 21.154          | 30.000            | 0.563     | 0.000                    | 0.813                    | 0.125               | 0.500     | 0.063               | 0.625     | 0.000               | 0.063     | 0.000               |
| TL=1.5DP               | Positive          | 165.000  | 31.731          | 30.000            | 0.438     | 0.063                    | 1.125                    | 0.000               | 0.875     | 0.063               | 1.000     | 0.000               | 0.563     | 0.063               |
| TL=1.5DP               | Negative          | 165.000  | 31.731          | 30.000            | 0.875     | 0.000                    | 1.071                    | 0.063               | 0.625     | 0.063               | 1.000     | 0.063               | 0.125     | 0.000               |

## Air Infiltration Test Results

| Test Pressure (psf) | Measured Flow (cfm/ft <sup>2</sup> ) | Allowed Flow (cfm/ft <sup>2</sup> ) |
|---------------------|--------------------------------------|-------------------------------------|
| 6.24                | 0.03                                 | 0.06                                |

## Water Infiltration Test Result

| Test Pressure (psf)            | Test Duration (min) | Water Leakage (in <sup>3</sup> /sec) |
|--------------------------------|---------------------|--------------------------------------|
| +16.50 (3.14 H <sub>2</sub> O) | 15                  | none                                 |

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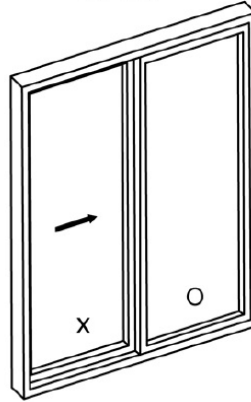
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**Type A-** A sliding door assembly which incorporates one or more sliding panels that lock to the jamb.



\*Apply all test loads and forces at a rate not to exceed 10lb/s. Maintain performance loads for a period of 60+/-5 (s).

\*\*Use rigid test frame (Test Buck). Test frame (Test Buck) shall not deform more than 1/8" under full-prescribed load.

\*\*\*Procedure- Disassembly Test, test load series L1,L2, and L3 combinations, then Hardware Manipulation Test and or Sash Manipulation Test

### Disassembly Test

Remove from the window test specimen all screws, glazing beads, and any other members or other mechanical fasteners that can be removed readily from the exterior within a time limit of 5 min using the Disassembly Test Tools List. Removal of the indicated parts shall be done carefully so as not to cause collateral damage to the specimen.

#### Disassembly Test Tools

\*A spatula, putty knife or other non-cutting tool with a thin blade.

\*\*Non powered straight 6" Phillips screw driver

\*\*\*Standard Slot type pliers 6-7" length

### Lock Hardware Manipulation Test

Examine the window test specimen and determine a method of inserting the tools from Tools for Hardware Manipulation List from the outside so as to contact the locking device(s). Using one technician only, attempt to gain entry by manipulating the locking device(s) with these tools in any combination without intentionally removing material from the panel or frame to facilitate access to the locking devices. Conduct this test continuously for a time limit of T1. Manipulation of the locking devices shall be done in a manner that will not cause collateral damage to the specimen.

#### Tools for Hardware Manipulation:

\*A spatula, putty knife or other non-cutting tool with a thin blade.

\*\*A piece of annealed 16 gage wire long enough to reach point of insertion to locking device.

### Panel Manipulation Test

While attempting to open the sliding door assembly, lift, push, pull, or otherwise manipulate by hand from the exterior all panels to the full confines of the frame. This test shall be conducted continuously for a time limit of (T1).

Results (PASS/FAIL):PASS

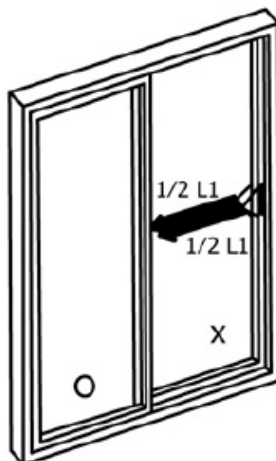


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7341 Westport Pl Suite 1A, West Palm Beach Fl. 33413

Phone: 561-508-2830 E-mail: Engdep@blackwatertesting.com

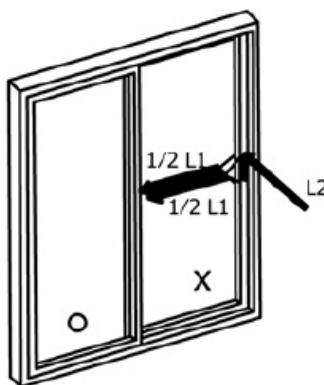
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A1

## Forced Entry Resistance Test Results @ T= °F

| Location of Loads                                                                                     | Direction           | Load (lbs) | Durations (Seconds) | Results |
|-------------------------------------------------------------------------------------------------------|---------------------|------------|---------------------|---------|
| Submit each operable slab to five cycles of opening, closing, locking and unlocking prior to testing. |                     |            |                     |         |
| L1                                                                                                    | Operating Direction | 300        | 60+/-5              | PASS    |



A2

## Forced Entry Resistance Test Results @ T= °F

| Location of Loads                                                                                      | Direction           | Load (lbs) | Durations (Seconds) | Results |
|--------------------------------------------------------------------------------------------------------|---------------------|------------|---------------------|---------|
| Submit each operable slab to five cycles of opening, closing, locking, and unlocking prior to testing. |                     |            |                     |         |
| L1                                                                                                     | Operating Direction | 300        | 60+/-5              | PASS    |
| L2                                                                                                     | Perpendicular to L1 | 175        | 60+/-5              | PASS    |

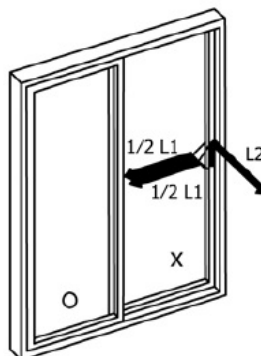


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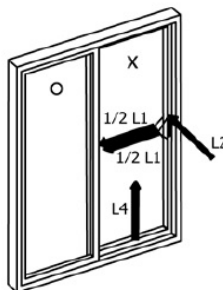
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A3

## Forced Entry Resistance Test Results @ T= °F

| Location of Loads                                                                                      | Direction           | Load (lbs) | Durations (Seconds) | Results |
|--------------------------------------------------------------------------------------------------------|---------------------|------------|---------------------|---------|
| Submit each operable slab to five cycles of opening, closing, locking, and unlocking prior to testing. |                     |            |                     |         |
| L1                                                                                                     | Operating Direction | 300        | 60+/-5              | PASS    |
| L2                                                                                                     | Perpendicular to L1 | 175        | 60+/-5              | PASS    |



A4

## Forced Entry Resistance Test Results @ T= 74°F

| Location of Loads                                                                                      | Direction           | Load (lbs)            | Durations (Seconds) | Results |
|--------------------------------------------------------------------------------------------------------|---------------------|-----------------------|---------------------|---------|
| Submit each operable slab to five cycles of opening, closing, locking, and unlocking prior to testing. |                     |                       |                     |         |
| L1                                                                                                     | Operating Direction | 300                   | 60+/-5              | PASS    |
| L2                                                                                                     | Perpendicular to L1 | 175                   | 60+/-5              | PASS    |
| L4                                                                                                     | Perpendicular L2    | 50 plus panels weight | 60+/-5              | PASS    |

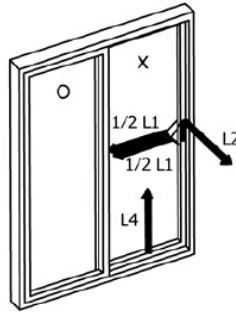


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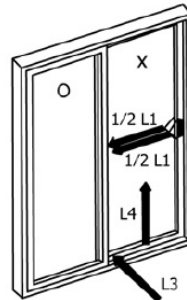
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A5

## Forced Entry Resistance Test Results @ T= 74°F

| Location of Loads                                                                                      | Direction           | Load (lbs)            | Durations (Seconds) | Results |
|--------------------------------------------------------------------------------------------------------|---------------------|-----------------------|---------------------|---------|
| Submit each operable slab to five cycles of opening, closing, locking, and unlocking prior to testing. |                     |                       |                     |         |
| L1                                                                                                     | Operating Direction | 300                   | 60+/-5              | PASS    |
| L2                                                                                                     | Perpendicular to L1 | 175                   | 60+/-5              | PASS    |
| L4                                                                                                     | Perpendicular L2    | 50 plus panels weight | 60+/-5              | PASS    |



A6

## Forced Entry Resistance Test Results @ T= 74°F

| Location of Loads                                                                                      | Direction           | Load (lbs)            | Durations (Seconds) | Results |
|--------------------------------------------------------------------------------------------------------|---------------------|-----------------------|---------------------|---------|
| Submit each operable slab to five cycles of opening, closing, locking, and unlocking prior to testing. |                     |                       |                     |         |
| L1                                                                                                     | Operating Direction | 300                   | 60+/-5              | PASS    |
| L3                                                                                                     | Perpendicular to L1 | 30                    | 60+/-5              | PASS    |
| L4                                                                                                     | Perpendicular L2    | 50 plus panels weight | 60+/-5              | PASS    |

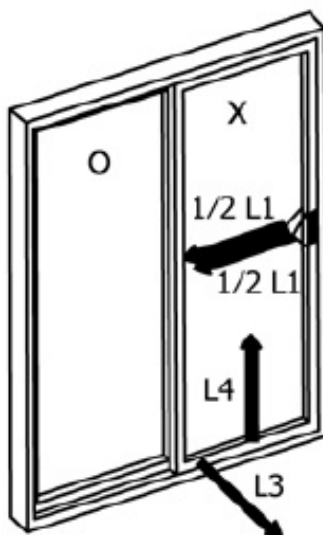


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7341 Westport Pl Suite 1A, West Palm Beach Fl. 33413

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A7

## Forced Entry Resistance Test Results @ T= 74°F

| Location of Loads                                                                                      | Direction           | Load (lbs)            | Durations (Seconds) | Results |
|--------------------------------------------------------------------------------------------------------|---------------------|-----------------------|---------------------|---------|
| Submit each operable slab to five cycles of opening, closing, locking, and unlocking prior to testing. |                     |                       |                     |         |
| L1                                                                                                     | Operating Direction | 300                   | 60+/-5              | PASS    |
| L3                                                                                                     | Perpendicular to L1 | 30                    | 60+/-5              | PASS    |
| L4                                                                                                     | Perpendicular L2    | 50 plus panels weight | 60+/-5              | PASS    |

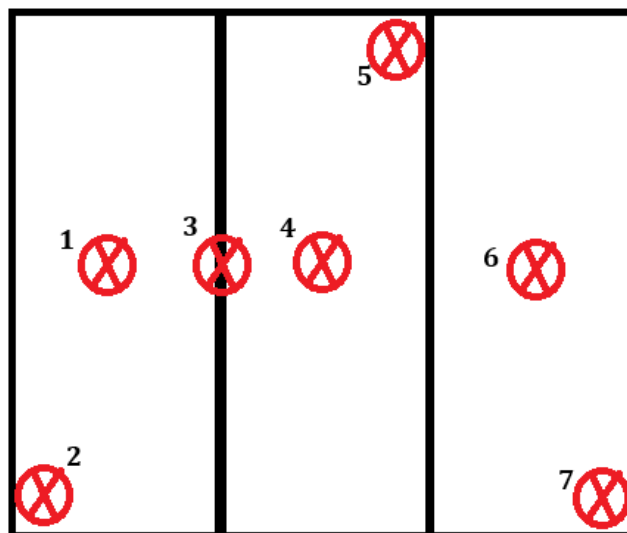


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**Large Missile Impact Locations**

Specimen 1

| LARGE MISSILE IMPACT DATA SHEET                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |         |         |                |           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|---------|----------------|-----------|
| T= 75 °F                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Location |         |         |                | Results   |
| Shot                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Area     | X (in.) | Y (in.) | Keyence (ft/s) | Pass/Fail |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CENTER   | 24      | 65      | 49.7           | PASS      |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CORNER   | 8       | 12      | 50.1           | PASS      |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MULLION  | 45      | 65      | 50.2           | PASS      |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CENTER   | 67      | 60      | 49.7           | PASS      |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CORNER   | 80      | 104     | 50             | PASS      |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CENTER   | 118     | 62      | 49.9           | PASS      |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CORNER   | 129     | 11      | 50.2           | PASS      |
| Notes:<br>1. Large Missile Velocity 50 ft/s Measurements taken from bottom left corner.<br>2. Impacted with a 9.05 lb., 96 "long, S4S, 2x4, of No. 2 Southern Pine Lumber.<br>3. Impact location is given on Cartesian Grid, right (x) and up (y) from lower left hand corner.<br>4. The location description is relative to the product assembly i.e. Corner, Center, and Left Center.<br>5. Impact velocity measured with a Keyence KV-16DR, verified by the video method. |          |         |         |                |           |

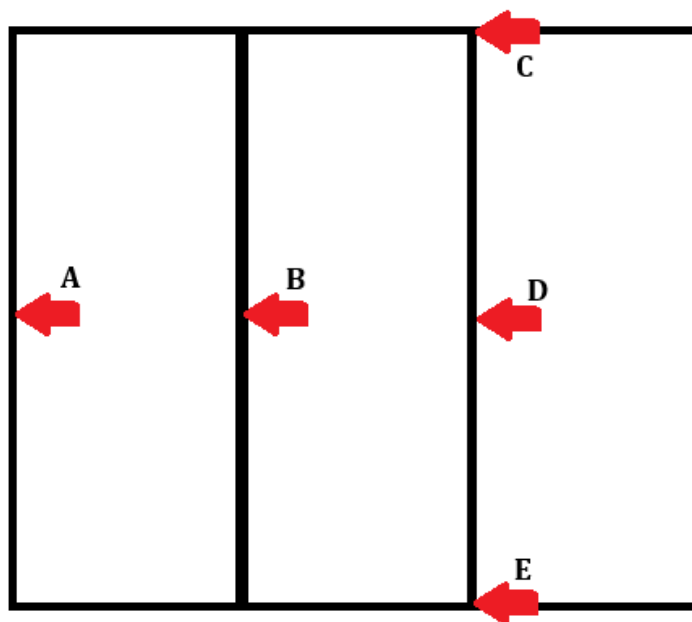


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Gauge Locations

Specimen 1

| CYCLIC LOAD DATA SHEET |             |                 |                             |                              | Pd psf           |                     | T= 83°F          |                     |                  |                     |                  |                     |                  |                     |                    |
|------------------------|-------------|-----------------|-----------------------------|------------------------------|------------------|---------------------|------------------|---------------------|------------------|---------------------|------------------|---------------------|------------------|---------------------|--------------------|
|                        |             |                 |                             |                              | High             | Low                 |                  |                     |                  |                     |                  |                     |                  |                     |                    |
|                        |             |                 |                             |                              | 110.00           | 110.00              |                  |                     |                  |                     |                  |                     |                  |                     |                    |
| Positive Pressure      |             |                 |                             |                              |                  |                     |                  |                     |                  |                     |                  |                     |                  |                     |                    |
| Cycles                 | Load Range  | High Load (psf) | LOW Load (H <sub>2</sub> O) | HIGH Load (H <sub>2</sub> O) | A                |                     | B                |                     | C                |                     | D                |                     | E                |                     | Avg time per Cycle |
|                        |             |                 |                             |                              | Deflection (in.) | Permanent Set (in.) | Deflection (in.) | Permanent Set (in.) | Deflection (in.) | Permanent Set (in.) | Deflection (in.) | Permanent Set (in.) | Deflection (in.) | Permanent Set (in.) |                    |
| 3500                   | 20% to 50%  | 55              | 4.23                        | 10.58                        | 0.125            | 0.000               | 0.625            | 0.000               | 0.563            | 0.000               | 0.500            | 0.000               | 0.188            | 0.000               | 2.500              |
| 300                    | 0% to 60%   | 66              | 0                           | 12.69                        | 0.125            | 0.000               | 0.750            | 0.000               | 0.625            | 0.000               | 0.563            | 0.000               | 0.250            | 0.000               | 3.000              |
| 600                    | 50% to 80%  | 88              | 10.58                       | 16.92                        | 0.188            | 0.000               | 0.750            | 0.000               | 0.750            | 0.063               | 0.625            | 0.000               | 0.313            | 0.000               | 2.700              |
| 100                    | 30% to 100% | 110             | 6.35                        | 21.15                        | 0.250            | 0.000               | 0.813            | 0.063               | 1.000            | 0.063               | 0.750            | 0.063               | 0.313            | 0.000               | 2.400              |
| Negative Pressure      |             |                 |                             |                              |                  |                     |                  |                     |                  |                     |                  |                     |                  |                     |                    |
| No. of cycles          | Range       | Load (psf)      | LOW Load (H <sub>2</sub> O) | HIGH Load (H <sub>2</sub> O) | A                |                     | B                |                     | C                |                     | D                |                     | E                |                     | Avg time per Cycle |
|                        |             |                 |                             |                              | Deflection (in.) | Permanent Set (in.) | Deflection (in.) | Permanent Set (in.) | Deflection (in.) | Permanent Set (in.) | Deflection (in.) | Permanent Set (in.) | Deflection (in.) | Permanent Set (in.) |                    |
| 50                     | 30% to 100% | 110             | 6.35                        | 21.15                        | 0.813            | 0.125               | 1.000            | 0.125               | 0.500            | 0.063               | 0.625            | 0.063               | 0.313            | 0.063               | 2.600              |
| 1050                   | 50% to 80%  | 88              | 10.58                       | 16.92                        | 0.625            | 0.063               | 0.625            | 0.000               | 0.438            | 0.000               | 0.438            | 0.000               | 0.188            | 0.000               | 3.000              |
| 50                     | 0% to 60%   | 66              | 0                           | 12.69                        | 0.375            | 0.000               | 0.438            | 0.000               | 0.375            | 0.000               | 0.375            | 0.000               | 0.125            | 0.000               | 1.900              |
| 3350                   | 20% to 50%  | 55              | 4.23                        | 10.58                        | 0.375            | 0.000               | 0.438            | 0.000               | 0.313            | 0.000               | 0.313            | 0.000               | 0.063            | 0.000               | 2.200              |

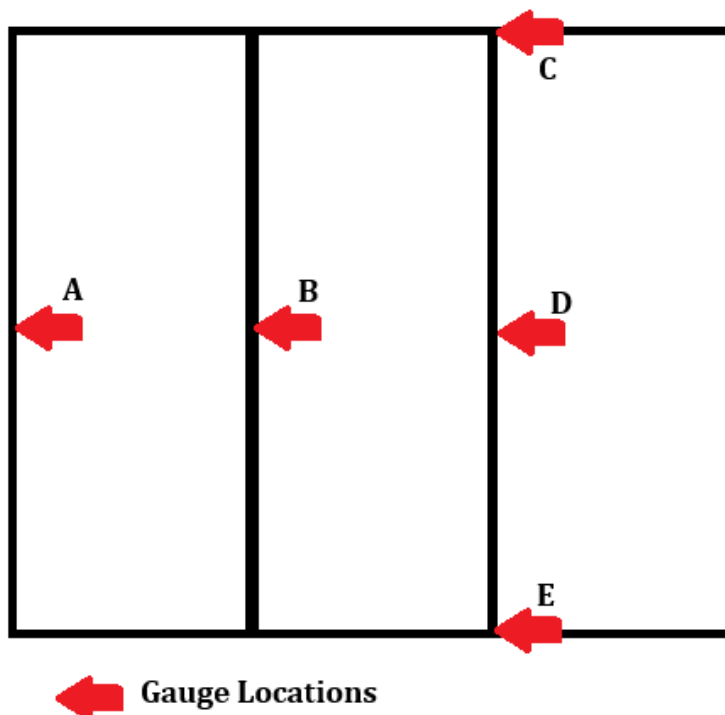


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Specimen 2

| STATIC LOAD DATA SHEET |                       |          |                 |                   | Design Pressure |                     | T= 85 °F  |                     |           |                     |           |                     |           |                     |
|------------------------|-----------------------|----------|-----------------|-------------------|-----------------|---------------------|-----------|---------------------|-----------|---------------------|-----------|---------------------|-----------|---------------------|
|                        |                       |          |                 |                   | Positive        |                     | Negative  |                     |           |                     |           |                     |           |                     |
|                        |                       |          |                 |                   | 110.00          |                     | 110.00    |                     |           |                     |           |                     |           |                     |
|                        |                       |          |                 |                   | A               |                     | B         |                     | C         |                     | D         |                     | E         |                     |
| Load Factor            | Positive/<br>Negative | Load psf | Load Inch Water | Load Duration (s) | Defl(in.)       | Permanent Set (in.) | Defl(in.) | Permanent Set (in.) | Defl(in.) | Permanent Set (in.) | Defl(in.) | Permanent Set (in.) | Defl(in.) | Permanent Set (in.) |
| 0.5TL                  | Positive              | 82.500   | 15.865          | 30.000            | 0.000           | 0.000               | 0.563     | 0.000               | 0.563     | 0.000               | 0.563     | 0.000               | 0.063     | 0.000               |
| 0.5TL                  | Negative              | 82.500   | 15.865          | 30.000            | 0.000           | 0.000               | 0.500     | 0.000               | 0.313     | 0.063               | 0.438     | 0.000               | 0.125     | 0.000               |
| DP                     | Positive              | 110.000  | 21.154          | 30.000            | 0.000           | 0.000               | 0.813     | 0.000               | 0.688     | 0.000               | 0.625     | 0.000               | 0.063     | 0.000               |
| DP                     | Negative              | 110.000  | 21.154          | 30.000            | 0.063           | 0.000               | 0.625     | 0.000               | 0.375     | 0.000               | 0.563     | 0.063               | 0.125     | 0.000               |
| TL=1.5DP               | Positive              | 165.000  | 31.731          | 30.000            | 0.063           | 0.000               | 1.000     | 0.000               | 0.875     | 0.000               | 0.875     | 0.000               | 0.125     | 0.000               |
| TL=1.5DP               | Negative              | 165.000  | 31.731          | 30.000            | 0.063           | 0.000               | 0.813     | 0.000               | 0.438     | 0.063               | 0.750     | 0.000               | 0.188     | 0.000               |

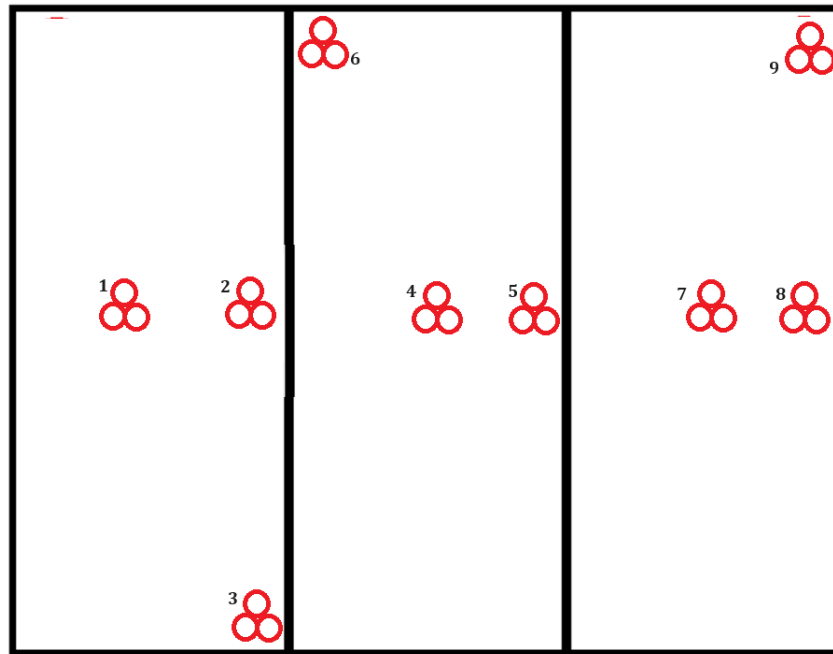


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 Small Missile Impact Locations

Specimen 2

| SMALL MISSILE IMPACT DATA SHEET |          |        |         |         |           |
|---------------------------------|----------|--------|---------|---------|-----------|
|                                 | Location |        |         |         | Results   |
|                                 | Shot     | Area   | X (in.) | Y (in.) | Pass/Fail |
|                                 | 1        | CENTER | 19      | 63      | PASS      |
|                                 | 2        | CENTER | 34      | 63      | PASS      |
|                                 | 3        | CORNER | 34      | 14      | PASS      |
|                                 | 4        | CENTER | 64      | 63      | PASS      |
|                                 | 5        | CENTER | 82      | 63      | PASS      |
|                                 | 6        | CORNER | 60      | 105     | PASS      |
|                                 | 7        | CENTER | 113     | 63      | PASS      |
|                                 | 8        | CENTER | 130     | 63      | PASS      |
|                                 | 9        | CORNER | 130     | 105     | PASS      |
| Notes:<br>130 ft/s              |          |        |         |         |           |

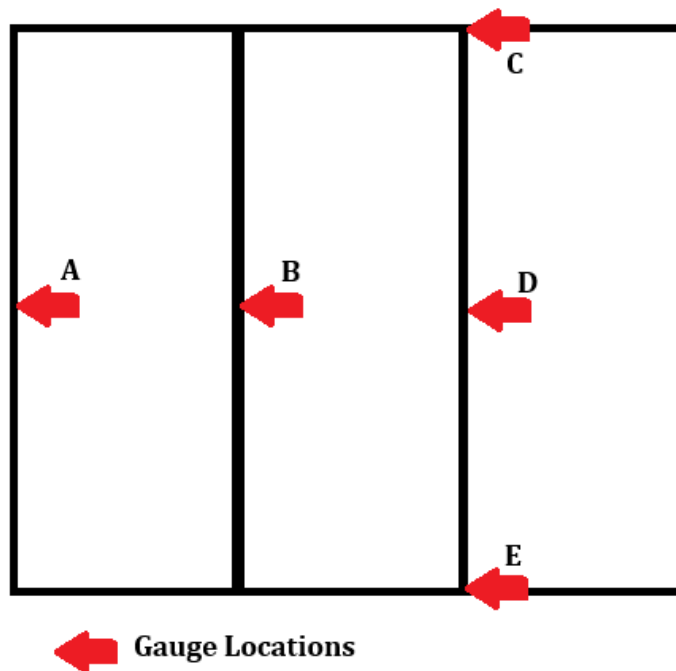


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Gauge Locations

Specimen 2

| CYCLIC LOAD DATA SHEET |             |                 |                             |                              | Pd psf           |                     | T= 85 °F         |                     |                  |                     |                  |                     |                  |                     |                    |  |
|------------------------|-------------|-----------------|-----------------------------|------------------------------|------------------|---------------------|------------------|---------------------|------------------|---------------------|------------------|---------------------|------------------|---------------------|--------------------|--|
|                        |             |                 |                             |                              | High             | Low                 |                  |                     |                  |                     |                  |                     |                  |                     |                    |  |
|                        |             |                 |                             |                              | 110.00           | 110.00              |                  |                     |                  |                     |                  |                     |                  |                     |                    |  |
| Positive Pressure      |             |                 |                             |                              |                  |                     |                  |                     |                  |                     |                  |                     |                  |                     |                    |  |
| Cycles                 | Load Range  | High Load (psf) | LOW Load (H <sub>2</sub> O) | HIGH Load (H <sub>2</sub> O) | A                |                     | B                |                     | C                |                     | D                |                     | E                |                     | Avg time per Cycle |  |
|                        |             |                 |                             |                              | Deflection (in.) | Permanent Set (in.) | Deflection (in.) | Permanent Set (in.) | Deflection (in.) | Permanent Set (in.) | Deflection (in.) | Permanent Set (in.) | Deflection (in.) | Permanent Set (in.) |                    |  |
| 3500                   | 20% to 50%  | 55              | 4.23                        | 10.58                        | 0.000            | 0.000               | 0.438            | 0.000               | 0.438            | 0.000               | 0.500            | 0.000               | 0.063            | 0.000               | 2.600              |  |
| 300                    | 0% to 60%   | 66              | 0                           | 12.69                        | 0.000            | 0.000               | 0.500            | 0.000               | 0.500            | 0.000               | 0.563            | 0.000               | 0.063            | 0.000               | 2.400              |  |
| 600                    | 50% to 80%  | 88              | 10.58                       | 16.92                        | 0.000            | 0.000               | 0.625            | 0.000               | 0.625            | 0.000               | 0.625            | 0.000               | 0.063            | 0.000               | 3.000              |  |
| 100                    | 30% to 100% | 110             | 6.35                        | 21.15                        | 0.063            | 0.000               | 0.813            | 0.063               | 0.688            | 0.063               | 0.750            | 0.063               | 0.125            | 0.000               | 2.100              |  |
| Negative Pressure      |             |                 |                             |                              |                  |                     |                  |                     |                  |                     |                  |                     |                  |                     |                    |  |
| No. of cycles          | Range       | Load (psf)      | LOW Load (H <sub>2</sub> O) | HIGH Load (H <sub>2</sub> O) | A                |                     | B                |                     | C                |                     | D                |                     | E                |                     | Avg time per Cycle |  |
|                        |             |                 |                             |                              | Deflection (in.) | Permanent Set (in.) | Deflection (in.) | Permanent Set (in.) | Deflection (in.) | Permanent Set (in.) | Deflection (in.) | Permanent Set (in.) | Deflection (in.) | Permanent Set (in.) |                    |  |
| 50                     | 30% to 100% | 110             | 6.35                        | 21.15                        | 0.063            | 0.000               | 0.688            | 0.000               | 0.438            | 0.000               | 0.688            | 0.125               | 0.125            | 0.000               | 3.000              |  |
| 1050                   | 50% to 80%  | 88              | 10.58                       | 16.92                        | 0.000            | 0.000               | 0.563            | 0.000               | 0.375            | 0.000               | 0.625            | 0.063               | 0.063            | 0.000               | 2.500              |  |
| 50                     | 0% to 60%   | 66              | 0                           | 12.69                        | 0.000            | 0.000               | 0.375            | 0.000               | 0.313            | 0.000               | 0.563            | 0.000               | 0.063            | 0.000               | 3.000              |  |
| 3350                   | 20% to 50%  | 55              | 4.23                        | 10.58                        | 0.000            | 0.000               | 0.313            | 0.000               | 0.250            | 0.000               | 0.438            | 0.000               | 0.063            | 0.000               | 2.500              |  |

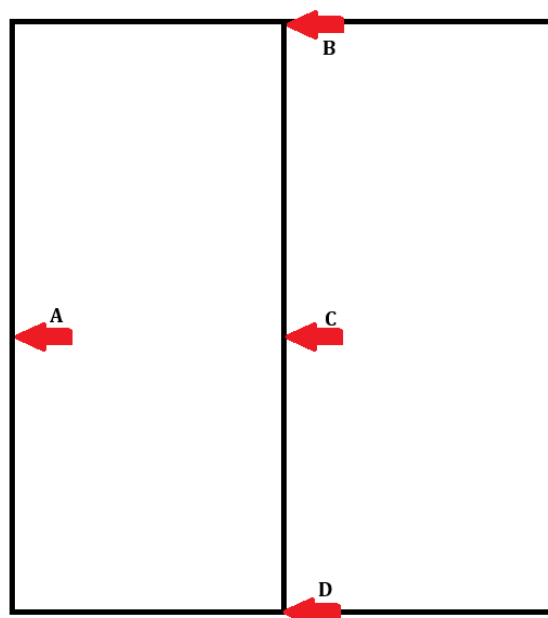


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← Gauge Location

Specimen 3

| STATIC LOAD DATA SHEET |                   |          |                 |                   |           | Design Pressure Positive | Design Pressure Negative | T= 81°F             |           |                     |           |                     |
|------------------------|-------------------|----------|-----------------|-------------------|-----------|--------------------------|--------------------------|---------------------|-----------|---------------------|-----------|---------------------|
|                        |                   |          |                 |                   |           | 110.00                   | 110.00                   |                     |           |                     |           |                     |
| Load Factor            | Positive/Negative | Load psf | Load Inch Water | Load Duration (s) | A         |                          | B                        |                     | C         |                     | D         |                     |
|                        |                   |          |                 |                   | Defl(in.) | Permanent Set (in.)      | Defl(in.)                | Permanent Set (in.) | Defl(in.) | Permanent Set (in.) | Defl(in.) | Permanent Set (in.) |
| 0.5TL                  | Positive          | 82.500   | 15.865          | 30.000            | 0.313     | 0.000                    | 0.375                    | 0.000               | 0.688     | 0.000               | 0.125     | 0.000               |
| 0.5TL                  | Negative          | 82.500   | 15.865          | 30.000            | 0.250     | 0.000                    | 0.375                    | 0.000               | 0.375     | 0.000               | 0.188     | 0.000               |
| DP                     | Positive          | 110.000  | 21.154          | 30.000            | 0.375     | 0.063                    | 0.500                    | 0.000               | 1.000     | 0.125               | 0.125     | 0.000               |
| DP                     | Negative          | 110.000  | 21.154          | 30.000            | 0.625     | 0.063                    | 0.500                    | 0.125               | 0.750     | 0.000               | 0.250     | 0.063               |
| TL=1.5DP               | Positive          | 165.000  | 31.731          | 30.000            | 0.563     | 0.063                    | 0.625                    | 0.000               | 0.938     | 0.063               | 0.188     | 0.000               |
| TL=1.5DP               | Negative          | 165.000  | 31.731          | 30.000            | 0.813     | 0.000                    | 0.688                    | 0.063               | 1.063     | 0.063               | 0.188     | 0.000               |

## Air Infiltration Test Results

| Test Pressure (psf) | Measured Flow (cfm/ft <sup>2</sup> ) | Allowed Flow (cfm/ft <sup>2</sup> ) |
|---------------------|--------------------------------------|-------------------------------------|
| 6.24                | 0.04                                 | 0.06                                |

## Water Infiltration Test Result

| Test Pressure (psf)            | Test Duration (min) | Water Leakage (in <sup>3</sup> /sec) |
|--------------------------------|---------------------|--------------------------------------|
| +16.50 (3.14 H <sub>2</sub> O) | 15                  | NONE                                 |



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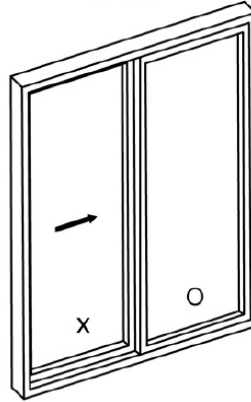
7341 Westport Pl Suite 1A, West Palm Beach Fl. 33413

Phone: 561-508-2830 E-mail: Engdep@blackwatertesting.com

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**Type A-** A sliding door assembly which incorporates one or more sliding panels that lock to the jamb.



\*Apply all test loads and forces at a rate not to exceed 10lb/s. Maintain performance loads for a period of 60+/-5 (s).

\*\*Use rigid test frame (Test Buck). Test frame (Test Buck) shall not deform more than 1/8" under full-prescribed load.

\*\*\*Procedure- Disassembly Test, test load series L1,L2, and L3 combinations, then Hardware Manipulation Test and or Sash Manipulation Test

### Disassembly Test

Remove from the window test specimen all screws, glazing beads, and any other members or other mechanical fasteners that can be removed readily from the exterior within a time limit of 5 min using the Disassembly Test Tools List. Removal of the indicated parts shall be done carefully so as not to cause collateral damage to the specimen.

#### Disassembly Test Tools

\*A spatula, putty knife or other non-cutting tool with a thin blade.

\*\*Non powered straight 6" Phillips screw driver

\*\*\*Standard Slot type pliers 6-7" length

### Lock Hardware Manipulation Test

Examine the window test specimen and determine a method of inserting the tools from Tools for Hardware Manipulation List from the outside so as to contact the locking device(s). Using one technician only, attempt to gain entry by manipulating the locking device(s) with these tools in any combination without intentionally removing material from the panel or frame to facilitate access to the locking devices. Conduct this test continuously for a time limit of T1. Manipulation of the locking devices shall be done in a manner that will not cause collateral damage to the specimen.

#### Tools for Hardware Manipulation:

\*A spatula, putty knife or other non-cutting tool with a thin blade.

\*\*A piece of annealed 16 gage wire long enough to reach point of insertion to locking device.

### Panel Manipulation Test

While attempting to open the sliding door assembly, lift, push, pull, or otherwise manipulate by hand from the exterior all panels to the full confines of the frame. This test shall be conducted continuously for a time limit of (T1).

Results (PASS/FAIL):PASS

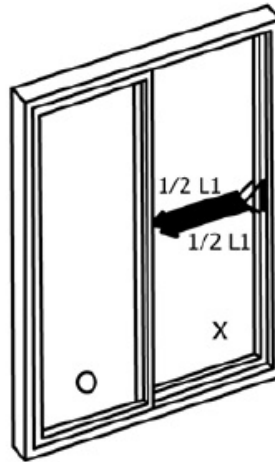


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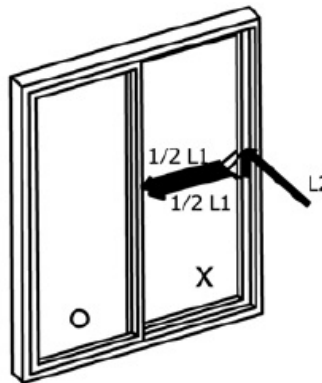
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A1

## Forced Entry Resistance Test Results @ T= °F

| Location of Loads                                                                                     | Direction           | Load (lbs) | Durations (Seconds) | Results |
|-------------------------------------------------------------------------------------------------------|---------------------|------------|---------------------|---------|
| Submit each operable slab to five cycles of opening, closing, locking and unlocking prior to testing. |                     |            |                     |         |
| L1                                                                                                    | Operating Direction | 300        | 60+/-5              | PASS    |



A2

## Forced Entry Resistance Test Results @ T= °F

| Location of Loads                                                                                      | Direction           | Load (lbs) | Durations (Seconds) | Results |
|--------------------------------------------------------------------------------------------------------|---------------------|------------|---------------------|---------|
| Submit each operable slab to five cycles of opening, closing, locking, and unlocking prior to testing. |                     |            |                     |         |
| L1                                                                                                     | Operating Direction | 300        | 60+/-5              | PASS    |
| L2                                                                                                     | Perpendicular to L1 | 175        | 60+/-5              | PASS    |

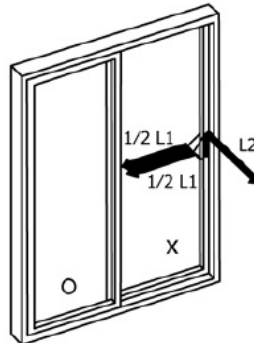


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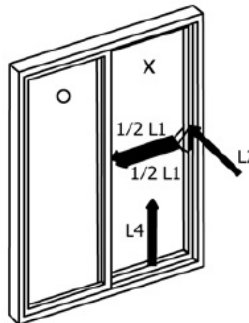
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A3

## Forced Entry Resistance Test Results @ T= °F

| Location of Loads                                                                                      | Direction           | Load (lbs) | Durations (Seconds) | Results |
|--------------------------------------------------------------------------------------------------------|---------------------|------------|---------------------|---------|
| Submit each operable slab to five cycles of opening, closing, locking, and unlocking prior to testing. |                     |            |                     |         |
| L1                                                                                                     | Operating Direction | 300        | 60+/-5              | PASS    |
| L2                                                                                                     | Perpendicular to L1 | 175        | 60+/-5              | PASS    |



A4

## Forced Entry Resistance Test Results @ T= 74°F

| Location of Loads                                                                                      | Direction           | Load (lbs)            | Durations (Seconds) | Results |
|--------------------------------------------------------------------------------------------------------|---------------------|-----------------------|---------------------|---------|
| Submit each operable slab to five cycles of opening, closing, locking, and unlocking prior to testing. |                     |                       |                     |         |
| L1                                                                                                     | Operating Direction | 300                   | 60+/-5              | PASS    |
| L2                                                                                                     | Perpendicular to L1 | 175                   | 60+/-5              | PASS    |
| L4                                                                                                     | Perpendicular L2    | 50 plus panels weight | 60+/-5              | PASS    |

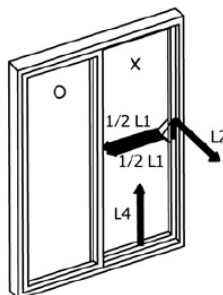


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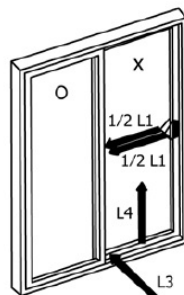
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A5

## Forced Entry Resistance Test Results @ T= 74°F

| Location of Loads                                                                                      | Direction           | Load (lbs)            | Durations (Seconds) | Results |
|--------------------------------------------------------------------------------------------------------|---------------------|-----------------------|---------------------|---------|
| Submit each operable slab to five cycles of opening, closing, locking, and unlocking prior to testing. |                     |                       |                     |         |
| L1                                                                                                     | Operating Direction | 300                   | 60+/-5              | PASS    |
| L2                                                                                                     | Perpendicular to L1 | 175                   | 60+/-5              | PASS    |
| L4                                                                                                     | Perpendicular L2    | 50 plus panels weight | 60+/-5              | PASS    |



A6

## Forced Entry Resistance Test Results @ T= 74°F

| Location of Loads                                                                                      | Direction           | Load (lbs)            | Durations (Seconds) | Results |
|--------------------------------------------------------------------------------------------------------|---------------------|-----------------------|---------------------|---------|
| Submit each operable slab to five cycles of opening, closing, locking, and unlocking prior to testing. |                     |                       |                     |         |
| L1                                                                                                     | Operating Direction | 300                   | 60+/-5              | PASS    |
| L3                                                                                                     | Perpendicular to L1 | 30                    | 60+/-5              | PASS    |
| L4                                                                                                     | Perpendicular L2    | 50 plus panels weight | 60+/-5              | PASS    |

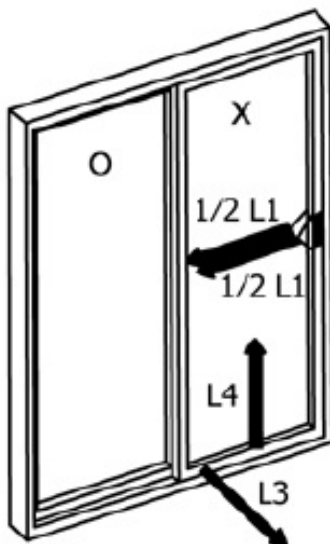


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A7

## Forced Entry Resistance Test Results @ T= 74°F

| Location of Loads                                                                                      | Direction           | Load (lbs)            | Durations (Seconds) | Results |
|--------------------------------------------------------------------------------------------------------|---------------------|-----------------------|---------------------|---------|
| Submit each operable slab to five cycles of opening, closing, locking, and unlocking prior to testing. |                     |                       |                     |         |
| L1                                                                                                     | Operating Direction | 300                   | 60+/-5              | PASS    |
| L3                                                                                                     | Perpendicular to L1 | 30                    | 60+/-5              | PASS    |
| L4                                                                                                     | Perpendicular L2    | 50 plus panels weight | 60+/-5              | PASS    |

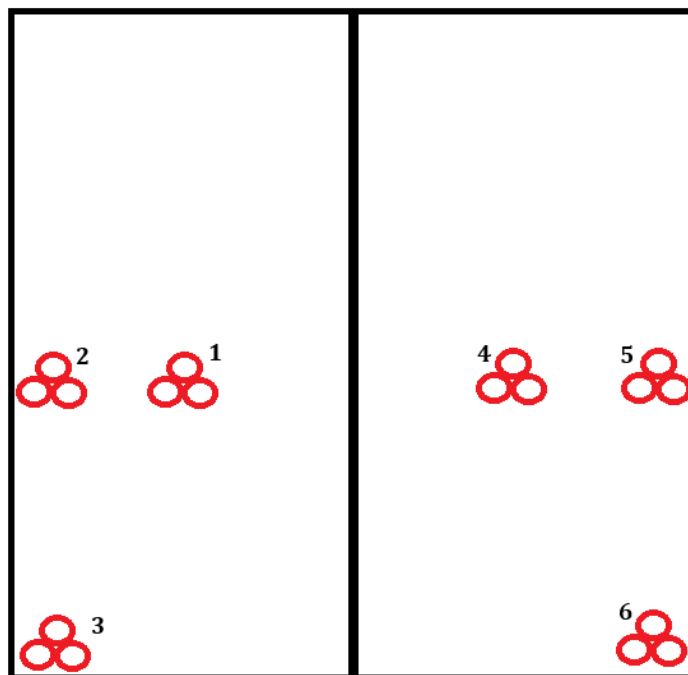


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Small Missile Impact Locations

Specimen 3

| SMALL MISSILE IMPACT DATA SHEET |          |        |         |         |           |
|---------------------------------|----------|--------|---------|---------|-----------|
|                                 | Location |        |         |         | Results   |
|                                 | Shot     | Area   | X (in.) | Y (in.) | Pass/Fail |
|                                 | 1        | CENTER | 29      | 82      | PASS      |
|                                 | 2        | CENTER | 13      | 82      | PASS      |
|                                 | 3        | CORNER | 13      | 13      | PASS      |
|                                 | 4        | CENTER | 67      | 82      | PASS      |
|                                 | 5        | CENTER | 84      | 82      | PASS      |
|                                 | 6        | CORNER | 84      | 13      | PASS      |
| Notes:<br>130 ft/s              |          |        |         |         |           |

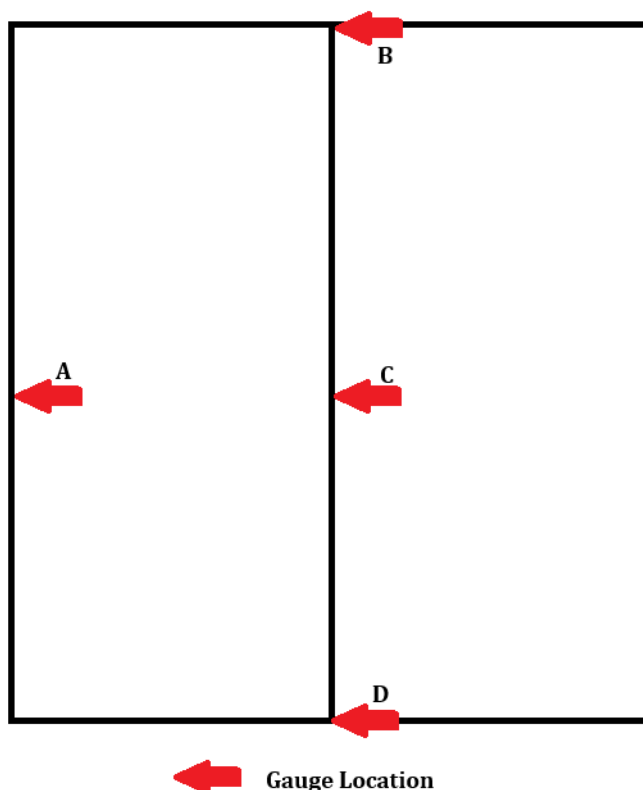


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Specimen 3

| CYCLIC LOAD DATA SHEET |             |                 |                             |                              | Pd psf           |                     | T= 81 °F         |                     |                  |                     |                  |                     |                    |
|------------------------|-------------|-----------------|-----------------------------|------------------------------|------------------|---------------------|------------------|---------------------|------------------|---------------------|------------------|---------------------|--------------------|
|                        |             |                 |                             |                              | High             | Low                 |                  |                     |                  |                     |                  |                     |                    |
|                        |             |                 |                             |                              |                  |                     |                  |                     | 110.00           | 110.00              |                  |                     |                    |
| Positive Pressure      |             |                 |                             |                              |                  |                     |                  |                     |                  |                     |                  |                     |                    |
| Cycles                 | Load Range  | High Load (psf) | LOW Load (H <sub>2</sub> O) | HIGH Load (H <sub>2</sub> O) | A                |                     | B                |                     | C                |                     | D                |                     | Avg time per Cycle |
|                        |             |                 |                             |                              | Deflection (in.) | Permanent Set (in.) | Deflection (in.) | Permanent Set (in.) | Deflection (in.) | Permanent Set (in.) | Deflection (in.) | Permanent Set (in.) |                    |
| 3500                   | 20% to 50%  | 55              | 4.23                        | 10.58                        | 0.250            | 0.000               | 0.313            | 0.063               | 0.500            | 0.063               | 0.063            | 0.000               | 2.600              |
| 300                    | 0% to 60%   | 66              | 0                           | 12.69                        | 0.250            | 0.000               | 0.313            | 0.000               | 0.625            | 0.063               | 0.063            | 0.000               | 3.000              |
| 600                    | 50% to 80%  | 88              | 10.58                       | 16.92                        | 0.375            | 0.063               | 0.375            | 0.000               | 0.938            | 0.063               | 0.125            | 0.000               | 2.800              |
| 100                    | 30% to 100% | 110             | 6.35                        | 21.15                        | 0.438            | 0.063               | 0.500            | 0.000               | 1.063            | 0.063               | 0.188            | 0.000               | 3.000              |
| Negative Pressure      |             |                 |                             |                              |                  |                     |                  |                     |                  |                     |                  |                     |                    |
| No. of cycles          | Range       | Load (psf)      | LOW Load (H <sub>2</sub> O) | HIGH Load (H <sub>2</sub> O) | A                |                     | B                |                     | C                |                     | D                |                     | Avg time per Cycle |
|                        |             |                 |                             |                              | Deflection (in.) | Permanent Set (in.) | Deflection (in.) | Permanent Set (in.) | Deflection (in.) | Permanent Set (in.) | Deflection (in.) | Permanent Set (in.) |                    |
| 50                     | 30% to 100% | 110             | 6.35                        | 21.15                        | 0.250            | 0.063               | 0.438            | 0.063               | 0.750            | 0.063               | 0.125            | 0.000               | 3.000              |
| 1050                   | 50% to 80%  | 88              | 10.58                       | 16.92                        | 0.250            | 0.000               | 0.375            | 0.000               | 0.688            | 0.063               | 0.125            | 0.000               | 2.700              |
| 50                     | 0% to 60%   | 66              | 0                           | 12.69                        | 0.188            | 0.000               | 0.313            | 0.000               | 0.500            | 0.000               | 0.125            | 0.000               | 2.400              |
| 3350                   | 20% to 50%  | 55              | 4.23                        | 10.58                        | 0.125            | 0.000               | 0.188            | 0.000               | 0.375            | 0.000               | 0.000            | 0.000               | 2.300              |

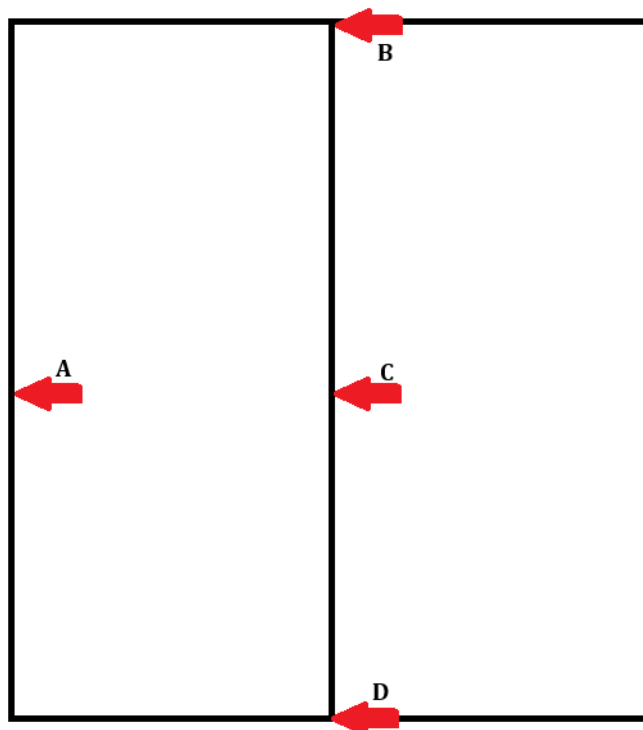


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7341 Westport Pl Suite 1A, West Palm Beach Fl. 33413

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**Gauge Location**  
Specimen 4

| STATIC LOAD DATA SHEET |                       |          |                 |                   | Design Pressure Positive |                     | Design Pressure Negative |                     | T= 83°F   |                     |           |                     |
|------------------------|-----------------------|----------|-----------------|-------------------|--------------------------|---------------------|--------------------------|---------------------|-----------|---------------------|-----------|---------------------|
|                        |                       |          |                 |                   | 130.00                   |                     | 130.00                   |                     |           |                     |           |                     |
|                        |                       |          |                 |                   | A                        |                     | B                        |                     | C         |                     | D         |                     |
| Load Factor            | Positive/<br>Negative | Load psf | Load Inch Water | Load Duration (s) | Defl(in.)                | Permanent Set (in.) | Defl(in.)                | Permanent Set (in.) | Defl(in.) | Permanent Set (in.) | Defl(in.) | Permanent Set (in.) |
| 0.5TL                  | Positive              | 97.500   | 18.750          | 30.000            | 0.188                    | 0.063               | 0.375                    | 0.063               | 0.813     | 0.000               | 0.125     | 0.000               |
| 0.5TL                  | Negative              | 97.500   | 18.750          | 30.000            | 0.250                    | 0.125               | 0.375                    | 0.063               | 0.500     | 0.000               | 0.188     | 0.000               |
| DP                     | Positive              | 130.000  | 25.000          | 30.000            | 0.313                    | 0.000               | 0.438                    | 0.000               | 1.125     | 0.000               | 0.188     | 0.000               |
| DP                     | Negative              | 130.000  | 25.000          | 30.000            | 0.438                    | 0.063               | 0.438                    | 0.000               | 0.875     | 0.063               | 0.188     | 0.000               |
| TL=1.5DP               | Positive              | 195.000  | 37.500          | 30.000            | 0.438                    | 0.000               | 0.625                    | 0.000               | 1.313     | 0.063               | 0.313     | 0.000               |
| TL=1.5DP               | Negative              | 195.000  | 37.500          | 30.000            | 0.500                    | 0.063               | 0.625                    | 0.063               | 1.250     | 0.063               | 0.375     | 0.000               |

## Air Infiltration Test Results

| Test Pressure (psf) | Measured Flow (cfm/ft <sup>2</sup> ) | Allowed Flow (cfm/ft <sup>2</sup> ) |
|---------------------|--------------------------------------|-------------------------------------|
| 6.24                | 0.04                                 | 0.06                                |

## Water Infiltration Test Result

| Test Pressure (psf)           | Test Duration (min) | Water Leakage (in <sup>3</sup> /sec) |
|-------------------------------|---------------------|--------------------------------------|
| +19.5 (3.75 H <sub>2</sub> O) | 15                  | NONE                                 |



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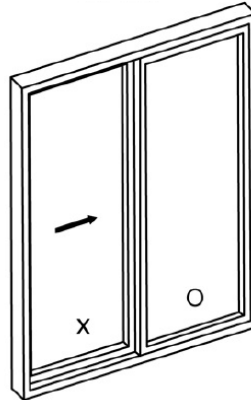
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Phone: 561-508-2830 E-mail: Engdep@blackwatertesting.com

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**Type A-** A sliding door assembly which incorporates one or more sliding panels that lock to the jamb.



\*Apply all test loads and forces at a rate not to exceed 10lb/s. Maintain performance loads for a period of 60+/-5 (s).

\*\*Use rigid test frame (Test Buck). Test frame (Test Buck) shall not deform more than 1/8" under full-prescribed load.

\*\*\*Procedure- Disassembly Test, test load series L1,L2, and L3 combinations, then Hardware Manipulation Test and or Sash Manipulation Test

### Disassembly Test

Remove from the window test specimen all screws, glazing beads, and any other members or other mechanical fasteners that can be removed readily from the exterior within a time limit of 5 min using the Disassembly Test Tools List. Removal of the indicated parts shall be done carefully so as not to cause collateral damage to the specimen.

#### Disassembly Test Tools

\*A spatula, putty knife or other non-cutting tool with a thin blade.

\*\*Non powered straight 6" Phillips screw driver

\*\*\*Standard Slot type pliers 6-7" length

### Lock Hardware Manipulation Test

Examine the window test specimen and determine a method of inserting the tools from Tools for Hardware Manipulation List from the outside so as to contact the locking device(s). Using one technician only, attempt to gain entry by manipulating the locking device(s) with these tools in any combination without intentionally removing material from the panel or frame to facilitate access to the locking devices. Conduct this test continuously for a time limit of T1. Manipulation of the locking devices shall be done in a manner that will not cause collateral damage to the specimen.

#### Tools for Hardware Manipulation:

\*A spatula, putty knife or other non-cutting tool with a thin blade.

\*\*A piece of annealed 16 gage wire long enough to reach point of insertion to locking device.

### Panel Manipulation Test

While attempting to open the sliding door assembly, lift, push, pull, or otherwise manipulate by hand from the exterior all panels to the full confines of the frame. This test shall be conducted continuously for a time limit of (T1).

Results (PASS/FAIL):PASS

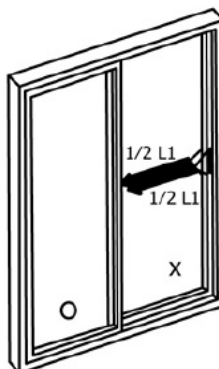


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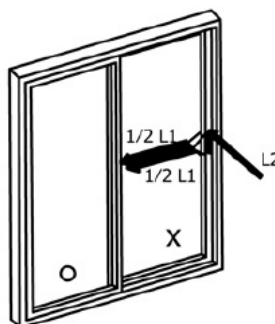
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A1

## Forced Entry Resistance Test Results @ T= °F

| Location of Loads                                                                                     | Direction           | Load (lbs) | Durations (Seconds) | Results |
|-------------------------------------------------------------------------------------------------------|---------------------|------------|---------------------|---------|
| Submit each operable slab to five cycles of opening, closing, locking and unlocking prior to testing. |                     |            |                     |         |
| L1                                                                                                    | Operating Direction | 300        | 60+/-5              | PASS    |



A2

## Forced Entry Resistance Test Results @ T= °F

| Location of Loads                                                                                      | Direction           | Load (lbs) | Durations (Seconds) | Results |
|--------------------------------------------------------------------------------------------------------|---------------------|------------|---------------------|---------|
| Submit each operable slab to five cycles of opening, closing, locking, and unlocking prior to testing. |                     |            |                     |         |
| L1                                                                                                     | Operating Direction | 300        | 60+/-5              | PASS    |
| L2                                                                                                     | Perpendicular to L1 | 175        | 60+/-5              | PASS    |

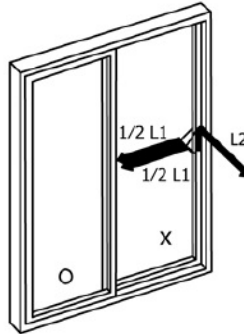


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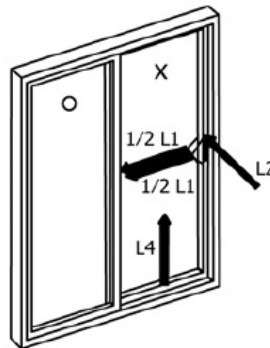
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A3

## Forced Entry Resistance Test Results @ T= °F

| Location of Loads                                                                                      | Direction           | Load (lbs) | Durations (Seconds) | Results |
|--------------------------------------------------------------------------------------------------------|---------------------|------------|---------------------|---------|
| Submit each operable slab to five cycles of opening, closing, locking, and unlocking prior to testing. |                     |            |                     |         |
| L1                                                                                                     | Operating Direction | 300        | 60+/-5              | PASS    |
| L2                                                                                                     | Perpendicular to L1 | 175        | 60+/-5              | PASS    |



A4

## Forced Entry Resistance Test Results @ T= 74°F

| Location of Loads                                                                                      | Direction           | Load (lbs)            | Durations (Seconds) | Results |
|--------------------------------------------------------------------------------------------------------|---------------------|-----------------------|---------------------|---------|
| Submit each operable slab to five cycles of opening, closing, locking, and unlocking prior to testing. |                     |                       |                     |         |
| L1                                                                                                     | Operating Direction | 300                   | 60+/-5              | PASS    |
| L2                                                                                                     | Perpendicular to L1 | 175                   | 60+/-5              | PASS    |
| L4                                                                                                     | Perpendicular L2    | 50 plus panels weight | 60+/-5              | PASS    |

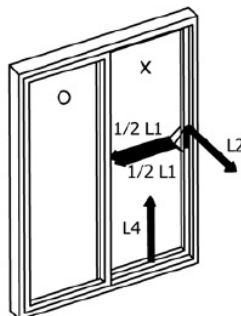


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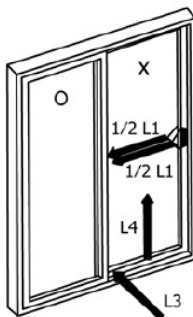
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A5

## Forced Entry Resistance Test Results @ T= 74°F

| Location of Loads                                                                                      | Direction           | Load (lbs)            | Durations (Seconds) | Results |
|--------------------------------------------------------------------------------------------------------|---------------------|-----------------------|---------------------|---------|
| Submit each operable slab to five cycles of opening, closing, locking, and unlocking prior to testing. |                     |                       |                     |         |
| L1                                                                                                     | Operating Direction | 300                   | 60+/-5              | PASS    |
| L2                                                                                                     | Perpendicular to L1 | 175                   | 60+/-5              | PASS    |
| L4                                                                                                     | Perpendicular L2    | 50 plus panels weight | 60+/-5              | PASS    |



A6

## Forced Entry Resistance Test Results @ T= 74°F

| Location of Loads                                                                                      | Direction           | Load (lbs)            | Durations (Seconds) | Results |
|--------------------------------------------------------------------------------------------------------|---------------------|-----------------------|---------------------|---------|
| Submit each operable slab to five cycles of opening, closing, locking, and unlocking prior to testing. |                     |                       |                     |         |
| L1                                                                                                     | Operating Direction | 300                   | 60+/-5              | PASS    |
| L3                                                                                                     | Perpendicular to L1 | 30                    | 60+/-5              | PASS    |
| L4                                                                                                     | Perpendicular L2    | 50 plus panels weight | 60+/-5              | PASS    |

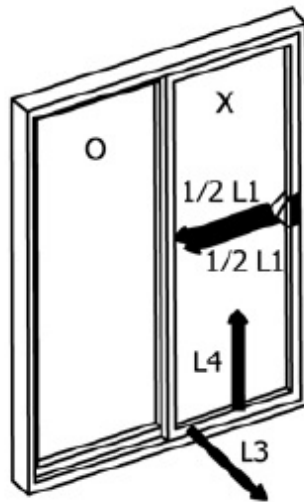


# BLACKWATER TECHNICAL SERVICES INC.

7341 Westport Pl Suite 1A, West Palm Beach Fl. 33413

Phone: 561-508-2830 E-mail: Engdep@blackwatertesting.com

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A7

## Forced Entry Resistance Test Results @ T= 74°F

| Location of Loads                                                                                      | Direction           | Load (lbs)            | Durations (Seconds) | Results |
|--------------------------------------------------------------------------------------------------------|---------------------|-----------------------|---------------------|---------|
| Submit each operable slab to five cycles of opening, closing, locking, and unlocking prior to testing. |                     |                       |                     |         |
| L1                                                                                                     | Operating Direction | 300                   | 60+/-5              | PASS    |
| L3                                                                                                     | Perpendicular to L1 | 30                    | 60+/-5              | PASS    |
| L4                                                                                                     | Perpendicular L2    | 50 plus panels weight | 60+/-5              | PASS    |

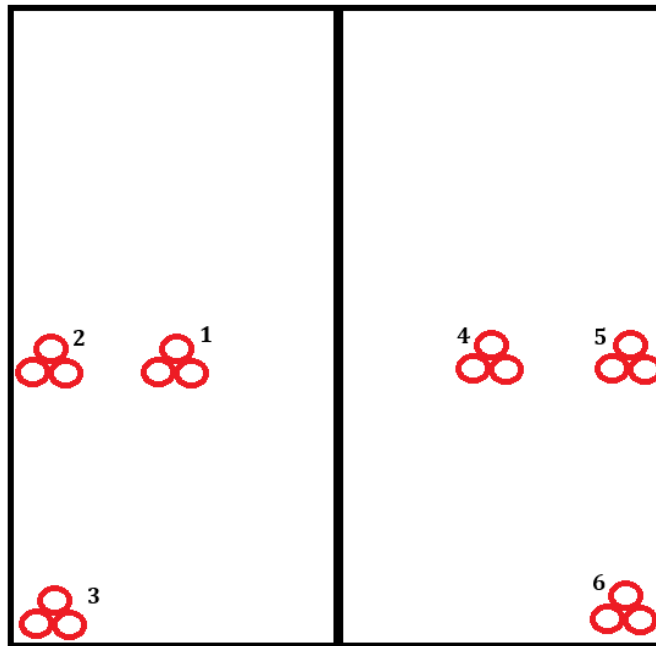


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Small Missile Impact Locations

Specimen 4

| SMALL MISSILE IMPACT DATA SHEET |          |        |         |         |           |
|---------------------------------|----------|--------|---------|---------|-----------|
|                                 | Location |        |         |         | Results   |
|                                 | Shot     | Area   | X (in.) | Y (in.) | Pass/Fail |
|                                 | 1        | CENTER | 39      | 68      | PASS      |
|                                 | 2        | CENTER | 18      | 68      | PASS      |
|                                 | 3        | CORNER | 18      | 18      | PASS      |
|                                 | 4        | CENTER | 63      | 68      | PASS      |
|                                 | 5        | CENTER | 82      | 68      | PASS      |
|                                 | 6        | CORNER | 82      | 22      | PASS      |
| Notes:<br>130 ft/s              |          |        |         |         |           |

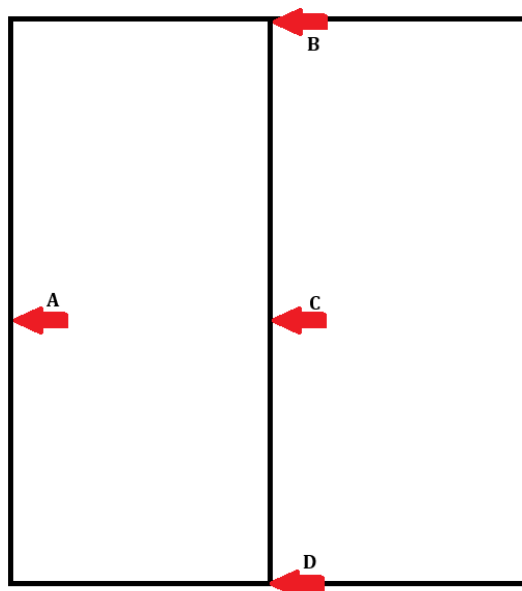


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Gauge Location

Specimen 4

| CYCLIC LOAD DATA SHEET |             |                 |                             |                              | Pd psf           |                     | T= 83°F          |                     |                  |                     |                  |                     |                    |
|------------------------|-------------|-----------------|-----------------------------|------------------------------|------------------|---------------------|------------------|---------------------|------------------|---------------------|------------------|---------------------|--------------------|
|                        |             |                 |                             |                              | High             | Low                 |                  |                     |                  |                     |                  |                     |                    |
|                        |             |                 |                             |                              | 130.00           | 130.00              |                  |                     |                  |                     |                  |                     |                    |
| Positive Pressure      |             |                 |                             |                              |                  |                     |                  |                     |                  |                     |                  |                     |                    |
| Cycles                 | Load Range  | High Load (psf) | LOW Load (H <sub>2</sub> O) | HIGH Load (H <sub>2</sub> O) | A                |                     | B                |                     | C                |                     | D                |                     | Avg time per Cycle |
|                        |             |                 |                             |                              | Deflection (in.) | Permanent Set (in.) | Deflection (in.) | Permanent Set (in.) | Deflection (in.) | Permanent Set (in.) | Deflection (in.) | Permanent Set (in.) |                    |
| 3500                   | 20% to 50%  | 65              | 5.00                        | 12.50                        | 0.125            | 0.000               | 0.125            | 0.000               | 0.500            | 0.000               | 0.125            | 0.000               | 2.600              |
| 300                    | 0% to 60%   | 78              | 0                           | 15.00                        | 0.188            | 0.000               | 0.188            | 0.000               | 0.688            | 0.000               | 0.188            | 0.000               | 3.000              |
| 600                    | 50% to 80%  | 104             | 12.50                       | 20.00                        | 0.188            | 0.000               | 0.313            | 0.063               | 0.875            | 0.063               | 0.313            | 0.063               | 2.100              |
| 100                    | 30% to 100% | 130             | 7.50                        | 25.00                        | 0.375            | 0.000               | 0.500            | 0.063               | 1.250            | 0.063               | 0.438            | 0.063               | 3.000              |
| Negative Pressure      |             |                 |                             |                              |                  |                     |                  |                     |                  |                     |                  |                     |                    |
| No. of cycles          | Range       | Load (psf)      | LOW Load (H <sub>2</sub> O) | HIGH Load (H <sub>2</sub> O) | A                |                     | B                |                     | C                |                     | D                |                     | Avg time per Cycle |
|                        |             |                 |                             |                              | Deflection (in.) | Permanent Set (in.) | Deflection (in.) | Permanent Set (in.) | Deflection (in.) | Permanent Set (in.) | Deflection (in.) | Permanent Set (in.) |                    |
| 50                     | 30% to 100% | 130             | 7.50                        | 25.00                        | 0.313            | 0.125               | 0.375            | 0.063               | 1.063            | 0.000               | 0.313            | 0.000               | 2.100              |
| 1050                   | 50% to 80%  | 104             | 12.50                       | 20.00                        | 0.313            | 0.000               | 0.313            | 0.000               | 0.625            | 0.063               | 0.250            | 0.125               | 2.400              |
| 50                     | 0% to 60%   | 78              | 0                           | 15.00                        | 0.250            | 0.063               | 0.188            | 0.063               | 0.375            | 0.063               | 0.188            | 0.000               | 1.900              |
| 3350                   | 20% to 50%  | 65              | 5.00                        | 12.50                        | 0.188            | 0.063               | 0.188            | 0.063               | 0.313            | 0.063               | 0.125            | 0.063               | 3.000              |

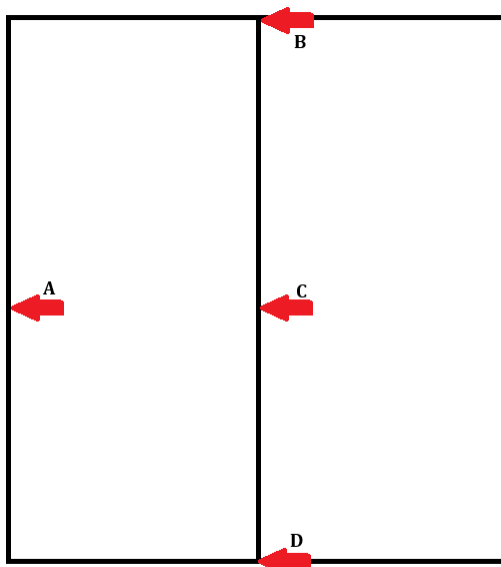


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7341 Westport Pl Suite 1A, West Palm Beach Fl. 33413

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← Gauge Location

Specimen 5

| STATIC LOAD DATA SHEET |                       |          |                 |                   |           | Design Pressure Positive | Design Pressure Negative | T=84 °F             |           |                     |           |                     |
|------------------------|-----------------------|----------|-----------------|-------------------|-----------|--------------------------|--------------------------|---------------------|-----------|---------------------|-----------|---------------------|
|                        |                       |          |                 |                   |           | 160.00                   | 160.00                   |                     |           |                     |           |                     |
|                        |                       |          |                 |                   | A         |                          | B                        |                     | C         |                     | D         |                     |
| Load Factor            | Positive/<br>Negative | Load psf | Load Inch Water | Load Duration (s) | Defl(in.) | Permanent Set (in.)      | Defl(in.)                | Permanent Set (in.) | Defl(in.) | Permanent Set (in.) | Defl(in.) | Permanent Set (in.) |
| 0.5TL                  | Positive              | 120.000  | 23.077          | 30.000            | 0.250     | 0.000                    | 0.500                    | 0.063               | 0.563     | 0.063               | 0.188     | 0.063               |
| 0.5TL                  | Negative              | 120.000  | 23.077          | 30.000            | 0.375     | 0.000                    | 0.438                    | 0.063               | 0.500     | 0.063               | 0.188     | 0.063               |
| DP                     | Positive              | 160.000  | 30.769          | 30.000            | 0.313     | 0.063                    | 0.688                    | 0.000               | 0.750     | 0.000               | 0.250     | 0.000               |
| DP                     | Negative              | 160.000  | 30.769          | 30.000            | 0.438     | 0.000                    | 0.375                    | 0.063               | 0.563     | 0.063               | 0.250     | 0.063               |
| TL=1.5DP               | Positive              | 240.000  | 46.154          | 30.000            | 0.563     | 0.063                    | 0.875                    | 0.063               | 0.938     | 0.063               | 0.438     | 0.063               |
| TL=1.5DP               | Negative              | 240.000  | 46.154          | 30.000            | 0.625     | 0.000                    | 0.938                    | 0.063               | 1.063     | 0.063               | 0.438     | 0.063               |

## Air Infiltration Test Results

| Test Pressure (psf) | Measured Flow (cfm/ft <sup>2</sup> ) | Allowed Flow (cfm/ft <sup>2</sup> ) |
|---------------------|--------------------------------------|-------------------------------------|
| 6.24                | 0.5                                  | 0.06                                |

## Water Infiltration Test Result

| Test Pressure (psf)           | Test Duration (min) | Water Leakage (in <sup>3</sup> /sec) |
|-------------------------------|---------------------|--------------------------------------|
| +19.5 (3.75 H <sub>2</sub> O) | 15                  | none                                 |



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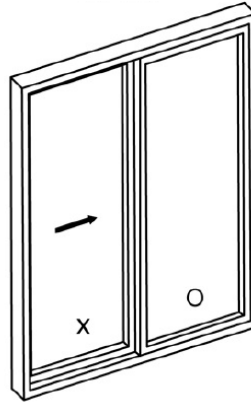
7341 Westport Pl Suite 1A, West Palm Beach Fl. 33413

Phone: 561-508-2830 E-mail: Engdep@blackwatertesting.com

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**Type A-** A sliding door assembly which incorporates one or more sliding panels that lock to the jamb.



\*Apply all test loads and forces at a rate not to exceed 10lb/s. Maintain performance loads for a period of 60+/-5 (s).

\*\*Use rigid test frame (Test Buck). Test frame (Test Buck) shall not deform more than 1/8" under full-prescribed load.

\*\*\*Procedure- Disassembly Test, test load series L1,L2, and L3 combinations, then Hardware Manipulation Test and or Sash Manipulation Test

### Disassembly Test

Remove from the window test specimen all screws, glazing beads, and any other members or other mechanical fasteners that can be removed readily from the exterior within a time limit of 5 min using the Disassembly Test Tools List. Removal of the indicated parts shall be done carefully so as not to cause collateral damage to the specimen.

#### Disassembly Test Tools

\*A spatula, putty knife or other non-cutting tool with a thin blade.

\*\*Non powered straight 6" Phillips screw driver

\*\*\*Standard Slot type pliers 6-7" length

### Lock Hardware Manipulation Test

Examine the window test specimen and determine a method of inserting the tools from Tools for Hardware Manipulation List from the outside so as to contact the locking device(s). Using one technician only, attempt to gain entry by manipulating the locking device(s) with these tools in any combination without intentionally removing material from the panel or frame to facilitate access to the locking devices. Conduct this test continuously for a time limit of T1. Manipulation of the locking devices shall be done in a manner that will not cause collateral damage to the specimen.

#### Tools for Hardware Manipulation:

\*A spatula, putty knife or other non-cutting tool with a thin blade.

\*\*A piece of annealed 16 gage wire long enough to reach point of insertion to locking device.

### Panel Manipulation Test

While attempting to open the sliding door assembly, lift, push, pull, or otherwise manipulate by hand from the exterior all panels to the full confines of the frame. This test shall be conducted continuously for a time limit of (T1).

Results (PASS/FAIL):PASS

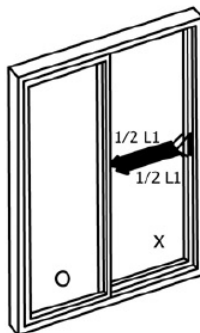


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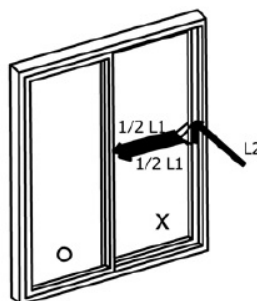
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A1

## Forced Entry Resistance Test Results @ T= °F

| Location of Loads                                                                                     | Direction           | Load (lbs) | Durations (Seconds) | Results |
|-------------------------------------------------------------------------------------------------------|---------------------|------------|---------------------|---------|
| Submit each operable slab to five cycles of opening, closing, locking and unlocking prior to testing. |                     |            |                     |         |
| L1                                                                                                    | Operating Direction | 300        | 60+/-5              | PASS    |



A2

## Forced Entry Resistance Test Results @ T= °F

| Location of Loads                                                                                      | Direction           | Load (lbs) | Durations (Seconds) | Results |
|--------------------------------------------------------------------------------------------------------|---------------------|------------|---------------------|---------|
| Submit each operable slab to five cycles of opening, closing, locking, and unlocking prior to testing. |                     |            |                     |         |
| L1                                                                                                     | Operating Direction | 300        | 60+/-5              | PASS    |
| L2                                                                                                     | Perpendicular to L1 | 175        | 60+/-5              | PASS    |

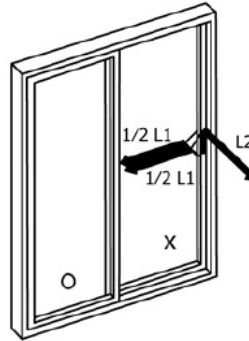


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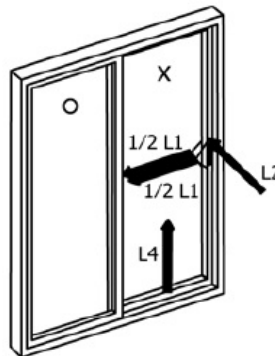
MIAMI-DADE CERTIFICATION #21-0909.01 ISO/IEC 17025:2017 AT-2584



A3

## Forced Entry Resistance Test Results @ T= °F

| Location of Loads                                                                                      | Direction           | Load (lbs) | Durations (Seconds) | Results |
|--------------------------------------------------------------------------------------------------------|---------------------|------------|---------------------|---------|
| Submit each operable slab to five cycles of opening, closing, locking, and unlocking prior to testing. |                     |            |                     |         |
| L1                                                                                                     | Operating Direction | 300        | 60+/-5              | PASS    |
| L2                                                                                                     | Perpendicular to L1 | 175        | 60+/-5              | PASS    |



A4

## Forced Entry Resistance Test Results @ T= 74°F

| Location of Loads                                                                                      | Direction           | Load (lbs)            | Durations (Seconds) | Results |
|--------------------------------------------------------------------------------------------------------|---------------------|-----------------------|---------------------|---------|
| Submit each operable slab to five cycles of opening, closing, locking, and unlocking prior to testing. |                     |                       |                     |         |
| L1                                                                                                     | Operating Direction | 300                   | 60+/-5              | PASS    |
| L2                                                                                                     | Perpendicular to L1 | 175                   | 60+/-5              | PASS    |
| L4                                                                                                     | Perpendicular L2    | 50 plus panels weight | 60+/-5              | PASS    |

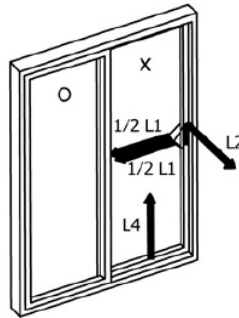


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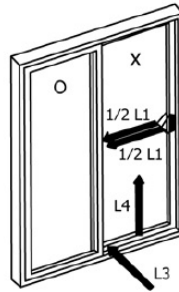
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A5

## Forced Entry Resistance Test Results @ T= 74°F

| Location of Loads                                                                                      | Direction           | Load (lbs)            | Durations (Seconds) | Results |
|--------------------------------------------------------------------------------------------------------|---------------------|-----------------------|---------------------|---------|
| Submit each operable slab to five cycles of opening, closing, locking, and unlocking prior to testing. |                     |                       |                     |         |
| L1                                                                                                     | Operating Direction | 300                   | 60+/-5              | PASS    |
| L2                                                                                                     | Perpendicular to L1 | 175                   | 60+/-5              | PASS    |
| L4                                                                                                     | Perpendicular L2    | 50 plus panels weight | 60+/-5              | PASS    |



A6

## Forced Entry Resistance Test Results @ T= 74°F

| Location of Loads                                                                                      | Direction           | Load (lbs)            | Durations (Seconds) | Results |
|--------------------------------------------------------------------------------------------------------|---------------------|-----------------------|---------------------|---------|
| Submit each operable slab to five cycles of opening, closing, locking, and unlocking prior to testing. |                     |                       |                     |         |
| L1                                                                                                     | Operating Direction | 300                   | 60+/-5              | PASS    |
| L3                                                                                                     | Perpendicular to L1 | 30                    | 60+/-5              | PASS    |
| L4                                                                                                     | Perpendicular L2    | 50 plus panels weight | 60+/-5              | PASS    |

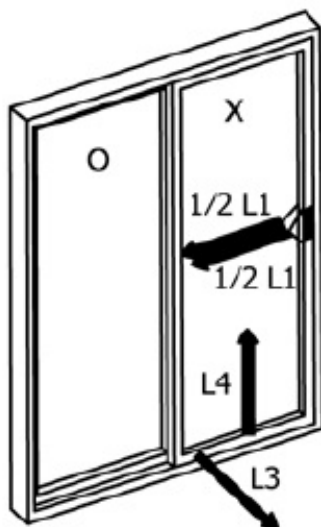


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A7

## Forced Entry Resistance Test Results @ T= 74°F

| Location of Loads                                                                                      | Direction           | Load (lbs)            | Durations (Seconds) | Results |
|--------------------------------------------------------------------------------------------------------|---------------------|-----------------------|---------------------|---------|
| Submit each operable slab to five cycles of opening, closing, locking, and unlocking prior to testing. |                     |                       |                     |         |
| L1                                                                                                     | Operating Direction | 300                   | 60+/-5              | PASS    |
| L3                                                                                                     | Perpendicular to L1 | 30                    | 60+/-5              | PASS    |
| L4                                                                                                     | Perpendicular L2    | 50 plus panels weight | 60+/-5              | PASS    |

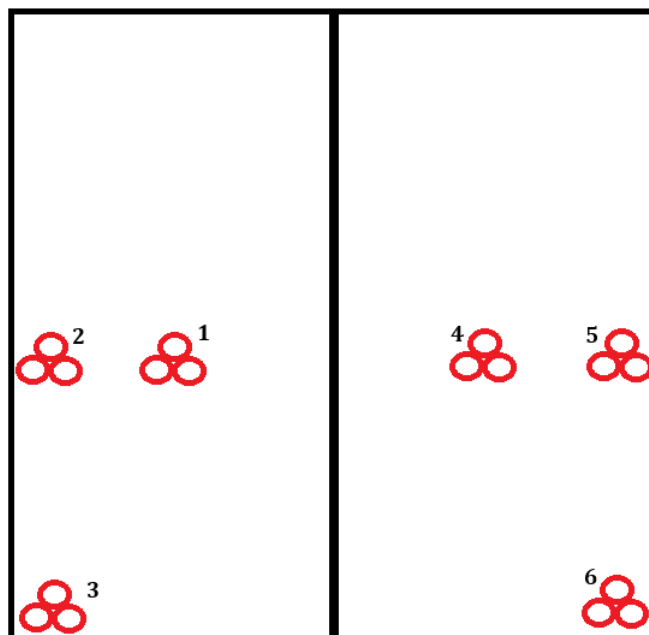


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Small Missile Impact Locations

Specimen 5

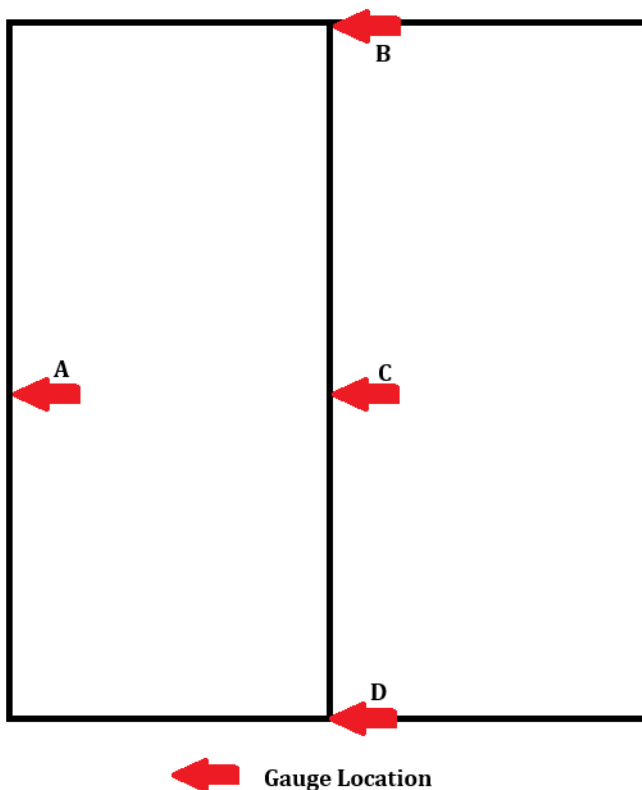


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Specimen 5

| CYCLIC LOAD DATA SHEET |             |                 |                             |                              | Pd psf           |                     | T= 84 °F         |                     |                  |                     |                  |                     |                    |
|------------------------|-------------|-----------------|-----------------------------|------------------------------|------------------|---------------------|------------------|---------------------|------------------|---------------------|------------------|---------------------|--------------------|
|                        |             |                 |                             |                              | High             | Low                 |                  |                     |                  |                     |                  |                     |                    |
|                        |             |                 |                             |                              | 160.00           | 160.00              |                  |                     |                  |                     |                  |                     |                    |
| Positive Pressure      |             |                 |                             |                              |                  |                     |                  |                     |                  |                     |                  |                     |                    |
| Cycles                 | Load Range  | High Load (psf) | LOW Load (H <sub>2</sub> O) | HIGH Load (H <sub>2</sub> O) | A                |                     | B                |                     | C                |                     | D                |                     | Avg time per Cycle |
|                        |             |                 |                             |                              | Deflection (in.) | Permanent Set (in.) | Deflection (in.) | Permanent Set (in.) | Deflection (in.) | Permanent Set (in.) | Deflection (in.) | Permanent Set (in.) |                    |
| 3500                   | 20% to 50%  | 80              | 6.15                        | 15.38                        | 0.125            | 0.000               | 0.313            | 0.000               | 0.375            | 0.000               | 0.125            | 0.000               | 3.000              |
| 300                    | 0% to 60%   | 96              | 0                           | 18.46                        | 0.188            | 0.000               | 0.438            | 0.000               | 0.500            | 0.000               | 0.188            | 0.000               | 2.500              |
| 600                    | 50% to 80%  | 128             | 15.38                       | 24.62                        | 0.188            | 0.000               | 0.563            | 0.000               | 0.625            | 0.000               | 0.250            | 0.000               | 2.700              |
| 100                    | 30% to 100% | 160             | 9.23                        | 30.77                        | 0.375            | 0.000               | 0.750            | 0.063               | 0.875            | 0.063               | 0.313            | 0.000               | 2.900              |
| Negative Pressure      |             |                 |                             |                              |                  |                     |                  |                     |                  |                     |                  |                     |                    |
| No. of cycles          | Range       | Load (psf)      | LOW Load (H <sub>2</sub> O) | HIGH Load (H <sub>2</sub> O) | A                |                     | B                |                     | C                |                     | D                |                     | Avg time per Cycle |
|                        |             |                 |                             |                              | Deflection (in.) | Permanent Set (in.) | Deflection (in.) | Permanent Set (in.) | Deflection (in.) | Permanent Set (in.) | Deflection (in.) | Permanent Set (in.) |                    |
| 50                     | 30% to 100% | 160             | 9.23                        | 30.77                        | 0.500            | 0.063               | 0.438            | 0.063               | 0.625            | 0.063               | 0.313            | 0.000               | 2.900              |
| 1050                   | 50% to 80%  | 128             | 15.38                       | 24.62                        | 0.438            | 0.000               | 0.313            | 0.000               | 0.563            | 0.000               | 0.250            | 0.000               | 2.100              |
| 50                     | 0% to 60%   | 96              | 0                           | 18.46                        | 0.313            | 0.000               | 0.250            | 0.000               | 0.438            | 0.000               | 0.188            | 0.000               | 2.500              |

## Test Drawings

### ELICC-SGD-SERIES Sliding Door System (LMI-D and SMI)

Issue Date: December 05th, 2024

REV: -



Issued By:

**ELICC AMERICAS CORPORATION**

13475 DANIELSON ST.

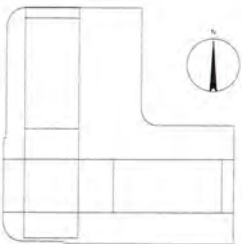
POWAY, CA 92064

TEL: 760-233-0066

FAX: 760-233-0065

Legend to actions: A= Approved, B=Approved as noted, resubmit for record, C=Revise and resubmit, D=Rejected, E=No action taken.

Key Plan/Elevation:



|     |      |             |
|-----|------|-------------|
|     |      |             |
|     |      |             |
|     |      |             |
|     |      |             |
| -   | -    | -           |
| No. | Date | Description |

Revisions:

Owner:  
JDS DEVELOPMENT GROUP  
104 FIFTH AVENUE, 9TH FLR  
NEW YORK, NY 10011  
T: 212.974.2844

Architect:  
SHoP ARCHITECTS, P.C.  
233 BROADWAY, 11TH FLOOR  
NEW YORK, NY 10279  
T:212.889.9005

Facade Consultant:

Issued By:



ELICC AMERICAS CORPORATION  
3475 DANIELSON ST.  
POWAY, CA 92064  
Tel: (760)-233-0066  
Fax: (760)-233-0065

Approved By:

Checked By:

Design Team:

TESTING SYSTEM:  
ELICC-SGD SYSTEM

title:

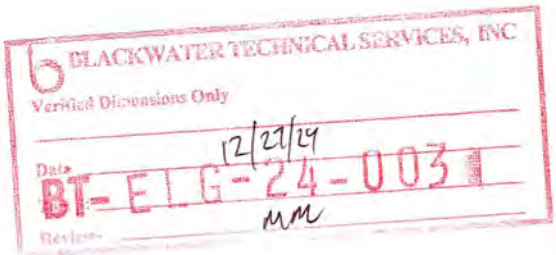
## Drawing List

Sheet No.: DL-102

|                     |                 |
|---------------------|-----------------|
| Date: Oct. 29, 2024 | Revision No.: - |
|---------------------|-----------------|

Scale: 1'-0"=1'-0"      Size: 22"x34"

Phase: PMU



# GENERAL NOTES

## 1. REFERENCE STANDARDS

### 1.1 ASTM STANDARDS (NOT LIMITED TO THE FOLLOWING)

- (1) ASTM E283  
STANDARD TEST METHOD FOR DETERMINING RATE OF AIR LEAKAGE THROUGH EXTERIOR WINDOWS, CURTAIN WALLS UNDER SPECIFIED PRESSURE DIFFERENCE ACROSS THE SPECIMEN
- (2) ASTM E331  
STANDARD TEST METHOD FOR WATER PENETRATION OF EXTERIOR WINDOWS AND CURTAIN WALLS BY UNIFORM STATIC AIR PRESSURE DIFFERENCE
- (3) ASTM E330  
STANDARD TEST METHOD FOR STRUCTURAL PERFORMANCE OF EXTERIOR WINDOWS AND CURTAIN WALLS BY UNIFORM STATIC AIR PRESSURE DIFFERENCE

### 1.2 AAMA STANDARDS (NOT LIMITED TO THE FOLLOWING)

- (1) AAMA 501.1  
STANDARD TEST METHOD FOR WATER PENETRATION OF WINDOWS AND CURTAIN WALLS USING DYNAMIC PRESSURE
- (2) AAMA 501.4  
RECOMMENDED STATIC TEST METHOD FOR EVALUATING CURTAIN WALL SUBJECTED TO SEISMIC AND WIND INDUCED INTERSTORY DRIFTS
- (3) AAMA 501.5  
TEST METHOD FOR THERMAL CYCLING OF EXTERIOR WALLS
- (4) AAMA 503  
FIELD TESTING OF CURTAIN WALLS AND FIN SYSTEMS.

### 1.3 CLADDING WIND LOAD STUDY DRAFT REPORT:

(CLADDING WIND LOAD STUDY RWDI #2001652 FEBRUARY 27, 2024 )

## 2. PROPOSED MATERIALS

### 2.1 GLASS

- (1) GLASS SHALL COMPLY WITH ASTM C 1036 AND ASTM C 1048.  
ACCORDING TO CONTRACT, GLASS CONFIGURATION & PERFORMANCE REQUIREMENT REFER TO PROJECT SPECIFICATION AND FINAL SAMPLE SUBMISSION APPROVAL. IN THIS DRAWING PACKAGE GLASS THICKNESS HAS BEEN CHECKED BY STRUCTURAL CALCULATION.
- (2) GLASS TYPE  
GL-101: HS-6MM GRAY + 1.52MM PVB + HS 6MM CLEAR LAMINATED GLASS  
GL-101B: HS 6MM GRAY + 2.28MM SGP + HS 6MM CLEAR LAMINATED GLASS  
GL-101M: FT6MM GRAY + 1.52MM PVB + FT 6MM CLEAR LAMINATED GLASS
- (3) ALL TEMPERED GLASS IS TO BE HEAT-SOAK TESTED.
- (4) ALL SAFETY GLASS LITES TO BE HEAT-STRENGTHENED (Type HS) LAMINATED OR FULLY-TEMPERED (Type FT).

### 2.2 ALUMINUM

- (1) ALL STRUCTURAL ALUMINUM FRAMING SHALL BE PRODUCED USING 6063 ALLOY  
WITH TEMPER AS NOTED IN EXTRUSION LISTING
- (2) ALUMINUM EXTRUDED BRACKETS SHALL BE PRODUCED USING 6005A T61 OR 6061 T6  
OR EQUAL. UNLESS OTHERWISE NOTED.
- (3) ALUMINUM PANEL SHEET SHALL BE PRODUCED USING 3003 ALLOY WITH H14 TEMPER.  
UNLESS OTHERWISE NOTED.
- (4) ALUMINUM COMPONENTS COMPLY WITH THE REQUIREMENTS OF STANDARDS:  
-ASTM B209M FOR SHEET AND PLATE.  
-ASTM B221M FOR EXTRUDED BARS, RODS, SHAPES AND TUBES.  
-ASTM 429M FOR EXTRUDED STRUCTURAL PIPE AND TUBES.

### 2.3 ALUMINUM FINISHES

- (1) ALL VISUALLY EXPOSED EXTERNAL SURFACES :HIGH-PERFORMANCE POWDER COATING COMPLYING WITH AAMA 2605
- (2) ALL VISUALLY EXPOSED INTERNAL SURFACES: POWDER-COAT MEETING AAMA 2604

### 2.4 STEEL

- (1) MILD STEEL PLATE AND SECTION SHALL BE GRADE A36 OR A500. COMPLYING WITH ASTM A36.
- (2) STEEL BRACKET REINFORCEMENT AND ANCHORAGE SHALL BE HOT DIP GALVANIZED AFTER FABRICATION  
(2 OZ/FT<sup>2</sup> MIN. COATING THICKNESS),COMPLYING WITH ASTM A 123. PAINT WITH BITUMEN OR POWDER COATING WHERE IN DIRECT CONTACT WITH MILL FINISH ALUMINUM.

### 2.5 THERMAL INSULATION

- (1) THERMAL INSULATION - MINERAL WOOL THERMAL INSULATION NOMINAL DENSITY OF 4 PCF

### 2.6 FASTENER

- (1) ALL FASTENERS OUTBOARD OF WEATHER LINE SHALL BE STAINLESS STEEL TYPE 316. (SCREWS, BOLTS, WASHERS, NUTS, AND PINS)
- (2) ALL EXPOSED FASTENERS SHOULD BE COUNTERSUNK, FLUSH HEAD,CUSTOM COATED TO MATCH CW MULLION OR ADJACENT METAL FINISH.

### 2.7 GASKETS AND GLAZING ACCESSORIES

- (1) AIR SEAL WIPER GASKET - EXTRUDED, DENSE SILICONE - 65 ± 5 DUROMETER SHORE A. COLOR: BLACK
- (2) GASKET (STRUCTURAL SEALANT SPACER) - EXTRUDED, DENSE SILICONE - 65± 5 DUROMETER SHORE A. COLOR: BLACK
- (3) SETTING BLOCK - EXTRUDED, DENSE SILICONE - 85 ± 5 DUROMETER SHORE A. COLOR: BLACK

### 2.8 SEALANTS

- (1) ALL SILICONE SEALANTS SHALL BE FROM DOWSIL.  
COMPATIBILITY AND ADHESION TESTING FOR SILICONE WITH ALL SUBSTRATES,WILL BE PROVIDED BY THE SEALANT MANUFACTURER
- (2) ALL SHOP APPLIED STRUCTURAL SEALED JOINTS SHALL BE (2 PART) HIGH STRENGTH, HIGH MODULUS SILICONE SEALANT COMPLYING WITH ASTM C 1184.
- (3) ALL FIELD APPLIED PERIMETER SEAL SHALL BE (1 PART) SILICONE.
- (4) ALL FIELD APPLIED JOINT SEAL AND SHOP APPLIED JOINT SEAL SHALL BE (1 PART) SILICONE.

### 2.9 WINDOW HARDWARE (NON-ADA)

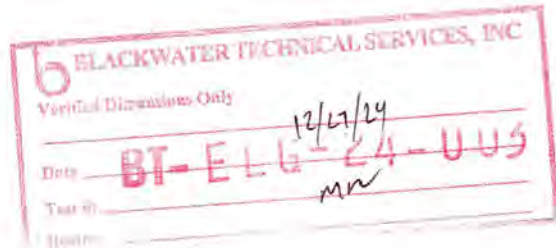
HARDWARE , LOCK POINT LAYOUT, REFER TO OPENABLE WINDOW DETAIL.

### 2.10 DOOR HARDWARE

UNDER SEPARATE SUBMITTAL

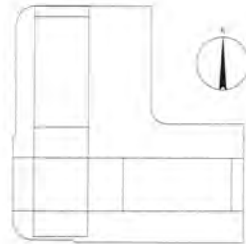
### 2.11 DESIGNED STRUCTURE TOLERANCE

- 1.FACE OF SLAB IN/OUT POSITION:±1/4" ON 10'-0"
- 2.TOP OF SLAB UP/DOWN POSITION:±1/2" ON 10'-0"
- 3.MAXIMUM NOT TO EXCEED ±1" IN PLAN, ± 1/2" VERTICAL, ±1" STRUCTURAL OPENING.



Job No.: 80028

Key Plan/Elevation:



| No.        | Date | Description |
|------------|------|-------------|
| Revisions: |      |             |

Owner:  
JDS DEVELOPMENT GROUP  
104 FIFTH AVENUE, 9TH FLR  
NEW YORK, NY 10011  
T: 212.974.2844

Architect:  
SHoP ARCHITECTS, P.C.  
233 BROADWAY, 11TH FLOOR  
NEW YORK, NY 10279  
T:212.889.9005

Facade Consultant:

Issued By:



ELICC AMERICAS CORPORATION  
13475 DANIELSON ST.  
POWAY, CA 92064  
Tel: (760)-233-0066  
Fax: (760)-233-0065

Approved By:

Checked By:

Design Team:

TESTING SYSTEM:  
ELICC-SGD SYSTEM

Title:  
GENERAL NOTES

Sheet No.: GN-201

Date: Oct. 29, 2024 Revision No.: -

Scale: 6"=1'-0" Size: 22"x34"

Phase: PMU

| TAS-202 TEST SCHEDULE     |                      |           |                                                                                                                                            |                                                                                            |
|---------------------------|----------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| ITEM                      | TEST                 | PROCEDURE | LOAD                                                                                                                                       | PASS/FAIL CRITERIA                                                                         |
| 1                         | AIR                  | TAS 202   | 6.24 PSF                                                                                                                                   | MAX. 0.06 CFM/FT2 FOR WINDOWS 0.2 CFM/FT2. FOR DOORS, 0.1 CFM/FT2 FOR POWER OPERATED DOORS |
| 2                         | STRUCTURAL           | TAS 202   | 0.5 X POSITIVE DESIGN PRESSURE (30 SEC.)                                                                                                   |                                                                                            |
| 3                         | STRUCTURAL           | TAS 202   | POSITIVE DESIGN PRESSURE (30 SEC.)                                                                                                         | NO GLASS BREAKAGE, MAX. DEFLECTION= L/180                                                  |
| 4                         | STRUCTURAL           | TAS 202   | 0.5 X NEGATIVE DESIGN PRESSURE (30 SEC.)                                                                                                   |                                                                                            |
| 5                         | STRUCTURAL           | TAS 202   | NEGATIVE DESIGN PRESSURE (30 SEC.)                                                                                                         | NO GLASS BREAKAGE, MAX. DEFLECTION= L/180                                                  |
| 6                         | WATER                | TAS 202   | 15% OF DESIGN PRESSURE PSF (15MIN.)                                                                                                        | NO WATER INFILTRATION                                                                      |
| 7                         | STRUCTURAL           | TAS 202   | 1.5 X NEGATIVE DESIGN PRESSURE (30 SEC.)                                                                                                   | NO GLASS BREAKAGE, MAX. PERMANENT DEFORMATION= 0.4% OF CLEAR SPAN                          |
| 8                         | STRUCTURAL           | TAS 202   | 1.5 X POSITIVE DESIGN PRESSURE (30 SEC.)                                                                                                   | NO GLASS BREAKAGE, MAX. PERMANENT DEFORMATION= 0.4% OF CLEAR SPAN                          |
| TAS-201/203 TEST SCHEDULE |                      |           |                                                                                                                                            |                                                                                            |
| 9                         | LMI, LEVEL E AND SMI | TAS-201   | LARGE MILLILE LEVEL D=(9LB 2X4) AT 50 FPS, LEVEL E=(9LB 2X4) AT 80 FPS, FOR SMI=2G STEEL BALL SHOT AT 130 FT/SECOND IN A PRESCRIBED ARRAY. | NO PENETRATION                                                                             |
| 10                        | CYCLE                | TAS-203   | POSITIVE RANGE FOR 4500 CYCLES UP TO DESIGN PRESSURE SEE BELOW                                                                             | NO TEAR >5" OR NO OPENING THAT ALLOWS 3" DIA. SPHERE CAN PASS                              |
| 11                        | CYCLE                | TAS-203   | NEGATIVE RANGE FOR 4500 CYCLES UP TO DESIGN PRESSURE SEE BELOW                                                                             | NO TEAR >5" OR NO OPENING THAT ALLOWS 3" DIA. SPHERE CAN PASS                              |

| INWARD ACTING PRESSURE                                    |                               | OUTWARD ACTING PRESSURE                      |                               |
|-----------------------------------------------------------|-------------------------------|----------------------------------------------|-------------------------------|
| RANGE                                                     | NUMBER OF CYCLES <sup>1</sup> | RANGE                                        | NUMBER OF CYCLES <sup>1</sup> |
| 0.2 P <sub>MAX</sub> TO 0.5 P <sub>MAX</sub> <sup>2</sup> | 3500                          | 0.3 P <sub>MAX</sub> TO 1.0 P <sub>MAX</sub> | 50                            |
| 0.0 P <sub>MAX</sub> TO 0.6 P <sub>MAX</sub>              | 300                           | 0.5 P <sub>MAX</sub> TO 0.8 P <sub>MAX</sub> | 1050                          |
| 0.5 P <sub>MAX</sub> TO 0.8 P <sub>MAX</sub>              | 600                           | 0.0 P <sub>MAX</sub> TO 0.6 P <sub>MAX</sub> | 50                            |
| 0.3 P <sub>MAX</sub> TO 1.0 P <sub>MAX</sub>              | 100                           | 0.2 P <sub>MAX</sub> TO 0.5 P <sub>MAX</sub> | 3350                          |



|                                               |                                 |                           |
|-----------------------------------------------|---------------------------------|---------------------------|
| S.T. ---- SELF TAPPING SCREW                  | DIM. ---- DIMENSION             | SF. ---- SQUARE FEET      |
| S.M.S. ---- SHEET METAL SCREW                 | LG. ---- LONG                   | SIM. ---- SIMILAR         |
| H.W.H. ---- HEX WASHER HEAD SCREW             | MAX. ---- MAXIMUM               | SQ. ---- SQUARE           |
| H.H. ---- HEX HEAD SCREW                      | MIN. ---- MINIMUM               | S.S. ---- STAINLESS STEEL |
| P.H. ---- PAN HEAD SCREW                      | MS ---- MACHINE SCREW           | THK. ---- THICKNESS       |
| F.H. ---- FLAT HEAD SCREW                     | NO. ---- NUMBER                 | TYP. ---- TYPICAL         |
| G.M.S. ---- GALVANIZED MILD STEEL             | N.T.S. ---- NOT TO SCALE        | U.H. ---- UNIT HEIGHT     |
| B.M.U. ---- BUILDING MAINTENANCE UNIT TIEBACK | PSF ---- POUNDS PER SQUARE FEET | W/ ---- WITH              |
| S.D. ---- SELF DRILL                          | PVC ---- POLYVINYLCHLORIDE      | W.P. ---- WORK POINT      |
| HS ---- HEAT STRENGTHENED                     | QTY. ---- QUANTITY              | C.O. ---- CLEAR OPENING   |
| FT ---- TEMPERED                              | GR ---- GRADE                   | F.O. ---- FRAME OPENING   |
| PPC ---- POLYESTER POWDER COATED              | O.C. ---- ON CENTRAL            | T.O.S. ---- TOP OF SLAB   |
| AFF ---- ABOVE FINISH FLOOR                   |                                 |                           |

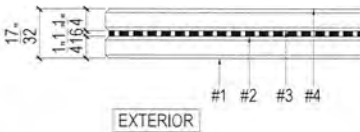
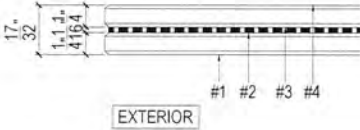
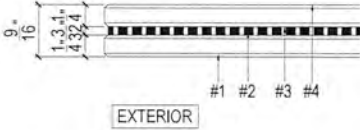
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|----------------------|---------------------------------------------------------------------------------------|---------------|--|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------|-----------------|
| ELEVATION TAG        |  | DRAWING No.   |  | NORTH ARROW                                                                           |  |                       |                 |
|                      |                                                                                       | SHEET No.     |  | WORKING POINT                                                                         |  |                       |                 |
| SECTION TAG          |  | DRAWING No.   |  | REVISION TAG                                                                          |  |                       |                 |
|                      |                                                                                       | SHEET No.     |  | GRID TAG                                                                              |  |                       |                 |
| DETAIL TAG           |  | DRAWING No.   |  | OUTSIDE/INSIDE TAG                                                                    |  |                       |                 |
|                      |                                                                                       | SHEET No.     |  | LEVEL TAG                                                                             |  | ELEMENT/SURFACE       |                 |
| ENLARGED DRAWING TAG |  | DRAWING No.   |  |                                                                                       |                                                                                       | ELEVATION ABOVE GRADE |                 |
|                      |                                                                                       | SHEET No.     |  |                                                                                       |                                                                                       |                       |                 |
| TITLE TAG            |  | DRAWING No.   |  |  |                                                                                       |                       | DRAWING TITLE   |
|                      |                                                                                       | DRAWING SCALE |  |  |                                                                                       |                       | INDEX SHEET No. |
|                      |                                                                                       |               |  |  |                                                                                       |                       |                 |

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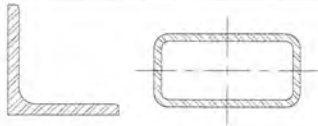
**ELICC**  
GROUP

Phase: PMU

## 1.MATERIAL LIST OF GLASS

| LEGEND<br>NUMBER | MATERIAL                                                                         | SECTION                                                                             |
|------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| GL-101           | GL-101: VISION GLASS<br>HS 6MM Gray+ 1.52MM PVB + HS 6MM Clear Laminated Glass   |  |
| GL-101M          | GL-101M: VISION GLASS<br>FT 6MM Gray + 1.52MM PVB + FT 6MM Clear Laminated Glass |  |
| GL-101B          | GL-101B: VISION GLASS<br>HS 6MM Gray + 2.28MM SGP + HS 6MM Clear Laminated Glass |  |
|                  |                                                                                  |                                                                                     |

## 2.MATERIAL LIST OF STEEL

|      |                                                                                  |                                                                                       |
|------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| SL01 | STEEL HOLLOW<br>FINISH:HOT-DIP GALVANIZED<br>COATING GRADE COMPLY WITH ASTM A123 |  |
| SL02 | STEEL PLATE<br>FINISH:HOT-DIP GALVANIZED<br>COATING GRADE COMPLY WITH ASTM A123  |  |
| SL03 | STAINLESS STEEL<br>MATERIAL: 316                                                 |  |

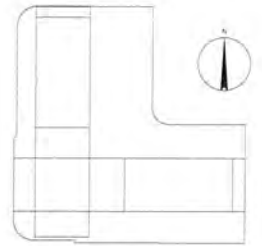
### 3.MATERIAL LIST OF METAL PANEL

| LEGEND<br>NUMBER | MATERIAL DESCRIPTION                                                                                                                                                                              | SECTION |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| (MP-01)          | <p>1/8" (3mm) THICK ALUMINUM PANEL</p> <p>ALLOY: 3003-H14</p> <p>FINISH: POWER COATING</p> <p>(AAMA 2605 @ OUTSIDE ; AAMA 2604 @ INSIDE)</p> <p>COLOR: REFER TO ELEVATION OR NOTES IN DETAILS</p> |         |
| (MP-02)          | <p>0.039" (1.0mm) THICK STEEL SHEET</p> <p>FINISH: HOT-DIP GALVANIZED</p> <p>COATING THICKNESS: TOTAL BOTH SIDES 80g/m<sup>2</sup></p> <p>(COMPLY WITH ASTM A 653/A 653M, G30)</p>                |         |



Job No.: 80028

Key Plan/Elevation:



| -          | -    | -           |
|------------|------|-------------|
| No.        | Date | Description |
| Revisions: |      |             |

Owner:  
JDS DEVELOPMENT GROUP  
104 FIFTH AVENUE, 9TH FLR  
NEW YORK, NY 10011  
T: 212.974.2844

Architect:  
SHoP ARCHITECTS, P.C.  
233 BROADWAY, 11TH FLOOR  
NEW YORK, NY 10279  
T:212.889.9005

Facade Consultant:

Issued By:



ELICC AMERICAS CORPORATION  
13475 DANIELSON ST.  
POWAY, CA 92064  
Tel: (760)-233-0066  
Fax: (760)-233-0065

Approved By:

Checked By:

Design Team:

TESTING SYSTEM:  
ELICC-SGD SYSTEM

Title: MATERIAL LIST  
GLASS \ STEEL & METAL PANEL

Sheet No.: ML-043

|                     |                 |
|---------------------|-----------------|
| Date: Oct. 29, 2024 | Revision No.: - |
|---------------------|-----------------|

|                    |               |
|--------------------|---------------|
| Scale: 1'-0"=1'-0" | Size: 22"x34" |
|--------------------|---------------|

Phase: PMU

4.MATERIAL LIST OF GASKET AND THERMAL BREAK AND SETTING-BLOCK

| TAG     | DIAGRAM | SCALE | DIE NO. | MATERIAL/COLOR/DUROMETER                                 |
|---------|---------|-------|---------|----------------------------------------------------------|
| GA01140 |         | 1:1   | GA01140 | SILICONE (BLACK)A65°±5°                                  |
| GA01142 |         | 1:1   | GA01142 | SILICONE (BLACK)A65°±5°                                  |
| GA01146 |         | 1:1   | GA01146 | SILICONE (BLACK)A65°±5°                                  |
| GA01148 |         | 1:1   | GA01148 | SILICONE (BLACK)A65°±5°                                  |
| GA01154 |         | 1:1   | GA0115* | SILICONE (BLACK)A65°±5°                                  |
| GA01240 |         | 1:1   | GA01240 | SILICONE (BLACK)A65°±5°                                  |
| GA01246 |         | 1:1   | GA01246 | SILICONE (BLACK)A65°±5°                                  |
| GA01254 |         | 1:1   | GA0125* | SILICONE (BLACK)A65°±5°                                  |
| GA02106 |         | 1:1   | GA02106 | SILICONE (BLACK)A65°±5°                                  |
| GA04102 |         | 1:1   | GA04102 | SILICONE (BLACK)A65°±5°                                  |
| GA05166 |         | 1:1   | GA05166 | SILICONE (BLACK)A65°±5°                                  |
| GA01242 |         | 1:1   | GA01242 | SILICONE (BLACK)A65°±5°                                  |
| GA05102 |         | 1:1   | GA05102 | SILICONE (BLACK)A65°±5°                                  |
| GA05103 |         | 1:1   | GA05103 | SILICONE (BLACK)A65°±5°                                  |
| GA05203 |         | 1:1   | GA05203 | SILICONE (BLACK)<br>DUROMETER: A65±5<br>DUROMETER: A30±5 |
| GA07149 |         | 1:1   | GA07149 | SILICONE (BLACK)A65°±5°                                  |
| GA01    |         | 1:1   | 15x4mm  | SILICONE (BLACK)A85°±5°                                  |
| GA02    |         | 1:1   | 15x2mm  | SILICONE (BLACK)A85°±5°                                  |

| TAG     | DIAGRAM | SCALE | DIE NO.  | MATERIAL/COLOR/DUROMETER |
|---------|---------|-------|----------|--------------------------|
| GA03    |         | 1:1   | 24x8mm   | SILICONE (BLACK)A85°±5°  |
| GA04    |         | 1:1   | 2mm THK. | SILICONE (BLACK)A65°±5°  |
| GA05167 |         | 1:1   | GA05167  | SILICONE (BLACK)A65°±5°  |
| GA05101 |         | 1:1   | GA05101  | SILICONE (BLACK)A65°±5°  |
| GA05104 |         | 1:1   | GA05104  | SILICONE (BLACK)A65°±5°  |
| GA06202 |         | 1:2   | GA06202  | EPDM FOAM (BLACK)A7±2    |
| GA01140 |         | 1:1   | GA01140  | PA66+GF25 (BLACK) D80±5° |
| GA012** |         | 1:2   | GA012**  | PA66+GF25 (BLACK) D80±5° |
| GA013** |         | 1:2   | GA013**  | PA66+GF25 (BLACK) D80±5° |
| GA014** |         | 1:2   | GA014**  | PA66+GF25 (BLACK) D80±5° |
| GA015** |         | 1:2   | GA015**  | PA66+GF25 (BLACK) D80±5° |
| GA016** |         | 1:1   | GA016**  | SILICONE (BLACK)A85°±5°  |

Job No.: 80028

Key Plan/Elevation:

| No.        | Date | Description |
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Owner:  
JDS DEVELOPMENT GROUP  
104 FIFTH AVENUE, 9TH FLR  
NEW YORK, NY 10011  
T: 212.974.2844

Architect:  
SHoP ARCHITECTS, P.C.  
233 BROADWAY, 11TH FLOOR  
NEW YORK, NY 10279  
T: 212.889.9005

Facade Consultant:

Issued By:

ELICC AMERICAS CORPORATION  
13475 DANIELSON ST.  
POWAY, CA 92064  
Tel: (760)-233-0066  
Fax: (760)-233-0065

Approved By:

Checked By:

Design Team:

TESTING SYSTEM:  
ELICC-SGD SYSTEM

Title:  
MATERIAL LIST  
GASKET

Sheet No.: ML-044

Date: Oct. 29, 2024

Revision No.: -

Scale: 1'-0"=1'-0"

Size: 22"x34"

Phase: PMU

BLACKWATER TECHNICAL SERVICES, INC.

Verified Discussion Only

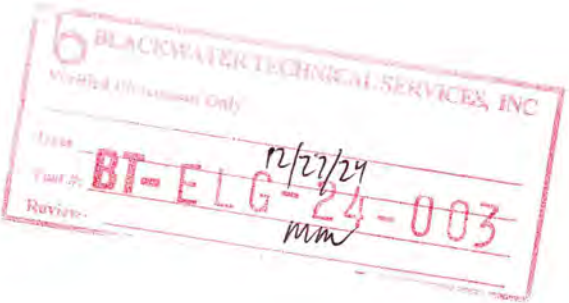
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14/12

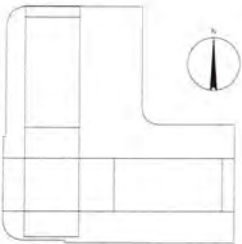
4.MATERIAL LIST OF GASKET AND THERMAL BREAK AND SETTING-BLOCK

| TAG     | DIAGRAM                                                                             | SCALE | DIE NO. | MATERIAL/COLOR/DUROMETER |
|---------|-------------------------------------------------------------------------------------|-------|---------|--------------------------|
| GA09126 |    | 1:1   | GA09126 | SILICONE (BLACK)A65°±5°  |
| GA05206 |    | 1:1   | GA09126 | SILICONE (BLACK)A65°±5°  |
| GA***1  |    | 1:1   | GA09126 | SILICONE (BLACK)A65°±5°  |
| GA01144 |    | 1:1   | GA01144 | SILICONE (BLACK)A65°±5°  |
| GA01150 |    | 1:1   | GA01150 | SILICONE (BLACK)A65°±5°  |
| GA05    |    | 1:1   | 23x11mm | SILICONE (BLACK)A85°±5°  |
| GA06    |    | 1:1   | 106x6mm | SILICONE (BLACK)A85°±5°  |
| GA07    |    | 1:1   | 26x10mm | SILICONE (BLACK)A85°±5°  |
| GA08    |    | 1:1   | 20x10mm | SILICONE (BLACK)A85°±5°  |
| GA09    |  | 1:1   | 20x8mm  | SILICONE (BLACK)A85°±5°  |



Job No.: 80028

Key Plan/Elevation:



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Owner:  
JDS DEVELOPMENT GROUP  
104 FIFTH AVENUE, 9TH FLR  
NEW YORK, NY 10011  
T: 212.974.2844

Architect:  
SHoP ARCHITECTS, P.C.  
233 BROADWAY, 11TH FLOOR  
NEW YORK, NY 10279  
T:212.889.9005

Facade Consultant:

Issued By:



ELICC AMERICAS CORPORATION  
13475 DANIELSON ST.  
POWAY, CA 92064  
Tel: (760)-233-0066  
Fax: (760)-233-0065

Approved By:

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Design Team:

TESTING SYSTEM:  
ELICC-SGD SYSTEM

Title:  
MATERIAL LIST  
GASKET

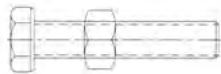
Sheet No.: ML-044B

Date: Oct. 29, 2024      Revision No.: -

Scale: 1'-0"=1'-0"      Size: 22"x34"

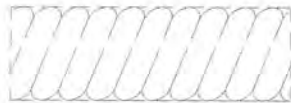
Phase: PMU

5.MATERIAL LIST OF FASTENERS

| TAG   | DIAGRAM                                                                             | DESCRIPTION                                   | GRADE    | MATERIAL/FINISH |
|-------|-------------------------------------------------------------------------------------|-----------------------------------------------|----------|-----------------|
| F1446 |    | M10x50mm H.H. BOLT (FULL THREAD) W/ NUT       | S.S. 316 | STAINLESS STEEL |
| F2448 |    | ST6.3x38mm HEX HEAD S.T. SCREW                | S.S. 316 | STAINLESS STEEL |
| F3008 |    | ST4.2x16mm PAN-HEAD S.D. SCREW                | S.S. 316 | STAINLESS STEEL |
| F3009 |    | ST4.2x19mm PAN-HEAD S.D. SCREW                | S.S. 316 | STAINLESS STEEL |
| F3012 |    | ST4.2x32mm PAN-HEAD S.D. SCREW                | S.S. 316 | STAINLESS STEEL |
| F3208 |    | ST4.2x16mm FLAT-HEAD S.D. SCREW               | S.S. 316 | STAINLESS STEEL |
| F3209 |    | ST4.2x19mm FLAT-HEAD S.D. SCREW               | S.S. 316 | STAINLESS STEEL |
| F4001 |    | M5x6 CROSS RECESSED PAN HEAD SCREW            | S.S. 316 | STAINLESS STEEL |
| F4004 |   | M5x12 CROSS RECESSED PAN HEAD SCREW           | S.S. 316 | STAINLESS STEEL |
| F4206 |  | M5x20mm CROSS RECESSED COUNTERSUNK HEAD SCREW | S.S. 316 | STAINLESS STEEL |
| F3211 |  | ST4.2x25mm FLAT-HEAD S.D. SCREW               | S.S. 316 | STAINLESS STEEL |
| F4016 |  | M6x16mm CROSS RECESSED PAN HEAD SCREW         | S.S. 316 | STAINLESS STEEL |
| F2024 |  | ST4.8X25mm PAN-HEAD S.T. SCREW                | S.S. 316 | STAINLESS STEEL |
| F2020 |  | ST4.8X13mm PAN-HEAD S.T. SCREW                | S.S. 316 | STAINLESS STEEL |
| F2224 |  | ST4.8x25mm FLAT-HEAD S.T. SCREW               | S.S. 316 | STAINLESS STEEL |
| F4216 |  | M6x16mm CROSS RECESSED COUNTERSUNK HEAD SCREW | S.S. 316 | STAINLESS STEEL |
| F3024 |  | ST4.8X38mm PAN-HEAD S.D. SCREW                | S.S. 316 | STAINLESS STEEL |
| F3022 |  | ST4.8X25mm PAN-HEAD S.D. SCREW                | S.S. 316 | STAINLESS STEEL |

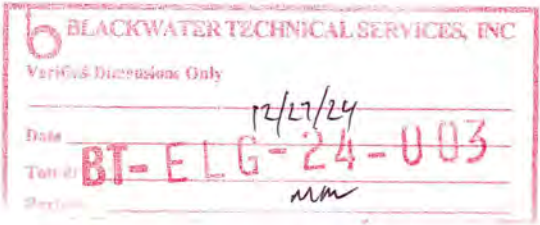
| TAG   | DIAGRAM                                                                              | DESCRIPTION                               | GRADE       | MATERIAL/FINISH                                  |
|-------|--------------------------------------------------------------------------------------|-------------------------------------------|-------------|--------------------------------------------------|
| F3220 |   | ST4.8x19mm FLAT-HEAD S.D. SCREW           | S.S. 316    | STAINLESS STEEL                                  |
| F3212 |   | ST4.2x32mm FLAT-HEAD S.D. SCREW           | S.S. 316    | STAINLESS STEEL                                  |
| FA02  |   | DEWALT 5/16" X 3-3/4" HWH ULTRACON SCREWS | -           | Material:Carbon steel<br>FINISH:Stalgard coating |
| F3007 |   | ST4.2x13mm PAN-HEAD S.D. SCREW            | S.S. 316    | STAINLESS STEEL                                  |
| F2025 |   | ST4.8X38mm PAN-HEAD S.T. SCREW            | S.S. 316    | STAINLESS STEEL                                  |
| F2009 |   | ST4.2X16mm PAN-HEAD S.T. SCREW            | S.S. 316    | STAINLESS STEEL                                  |
| F2212 |   | ST4.2X25mm PAN-HEAD S.T. SCREW            | S.S. 316    | STAINLESS STEEL                                  |
| FA03  |  | 5/8"-11 x 2-1/2" H.W.H TAPFLEX BOLT       | ALLOY STEEL | SILVER STALGARD @ SUB COATING                    |

6.INSULATING ROCKWOOL

|      |                                                                                                               |                                                                                       |
|------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| IN01 | MINERAL FIBER INSULATION (NOMINAL DENSITY :4PCF)<br>BRAND AND TYPE :THERMAFIBER FIRESpan 40<br>R=4.2 PER INCH |  |
|------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|

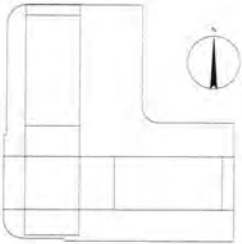
7.SEALANT MATERIAL LIST

|     |                                                                       |                                                                                       |
|-----|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| S01 | WEATHER SEALANT<br>BRAND: DOW<br>TYPE: DOWSILL 791<br>COLOR: BLACK    |  |
| S02 | STRUCTURAL SEALANT<br>BRAND: DOW<br>TYPE: DOWSILL 983<br>COLOR: BLACK |  |



Job No.: 80028

Key Plan/Elevation:



| No.        | Date | Description |
|------------|------|-------------|
| Revisions: |      |             |
|            |      |             |
|            |      |             |
|            |      |             |

Owner:  
JDS DEVELOPMENT GROUP  
104 FIFTH AVENUE, 9TH FLR  
NEW YORK, NY 10011  
T: 212.974.2844

Architect:  
SHoP ARCHITECTS, P.C.  
233 BROADWAY, 11TH FLOOR  
NEW YORK, NY 10279  
T: 212.889.9005

Facade Consultant:

Issued By:



ELICC AMERICAS CORPORATION  
13475 DANIELSON ST.  
POWAY, CA 92064  
Tel: (760)-233-0066  
Fax: (760)-233-0065

Approved By:

Checked By:

Design Team:

TESTING SYSTEM:  
ELICC-SGD SYSTEM

Title:  
MATERIAL LIST  
FASTENERS / SEALANT/ INSULATION

Sheet No.: ML-045

Date: Oct. 29, 2024 Revision No.: -

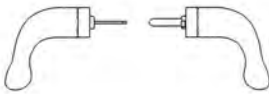
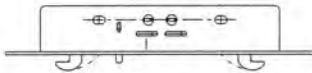
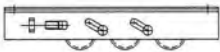
Scale: 1'-0"=1'-0" Size: 22"x34"

Phase: PMU

8.MISCELLANEOUS MATERIAL LIST

|     |                                               |                                                                                     |
|-----|-----------------------------------------------|-------------------------------------------------------------------------------------|
| M01 | BI-CELLUAR BACKER ROD                         |  |
| M02 | DOUBLE-SIDED ADHESIVE TAPE                    |  |
| M05 | SILICONE PLUG (BED SEALED)                    |  |
| M06 | 2mm THK. S.S 316 FLAT WASHER(FOR THE GA12108) |  |
| M07 | BRUSHES (GREY)                                |  |

9.HARDWARE MATERIAL LIST

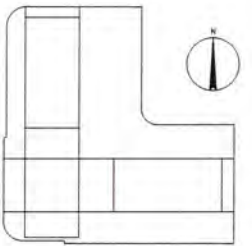
|     |                                                                                                       |                                                                                                                                                                                          |
|-----|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| H01 | SLIDING DOOR HANDLE<br>MANUFACTURER: KIN LONG<br>TAG: T-MLS04-L30<br>REMARK: WITH KEY                 |  <br>SCALE: 3:1     |
| H02 | MOUNTING PLATE<br>MANUFACTURER: KIN LONG<br>TAG: T-SGS25<br>REMARK:                                   |  <br>SCALE: 3:1   |
| H03 | LOCK BLOCK<br>MANUFACTURER: KIN LONG<br>TAG: T-GMB215<br>REMARK:                                      |  <br>SCALE: 3:1 |
| H04 | S.S WHEELS<br>MANUFACTURER: KIN LONG<br>TAG: CMLF2801-K29R3.25-JL<br>REMARK: MAX. WEIGHT 200KG / PAIR |  <br>SCALE: 3:1 |



|                                                       |
|-------------------------------------------------------|
| ELICC SGD-300 SERIES                                  |
| FL -                                                  |
| PAVAN MANEPALLI, P.E.<br>FLORIDA REGISTRATION<br>PE - |

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JDS DEVELOPMENT GROUP  
104 FIFTH AVENUE, 9TH FLR  
NEW YORK, NY 10011  
T: 212.974.2844

Architect:  
SHoP ARCHITECTS, P.C.  
233 BROADWAY, 11TH FLOOR  
NEW YORK, NY 10279  
T: 212.889.9005

Facade Consultant:

Issued By:



ELICC AMERICAS CORPORATION  
13475 DANIELSON ST.  
POWAY, CA 92064  
Tel: (760)-233-0066  
Fax: (760)-233-0065

Approved By:

Checked By:

Design Team:

SYSTEM:  
ELICC SGD-300 SERIES

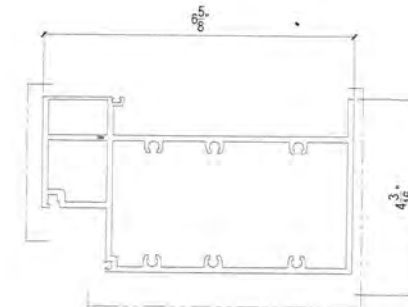
Title:  
MATERIAL LIST  
MISCELLANEOUS MATERIAL  
& DOOR HARDWARE

Sheet No.: ML-046

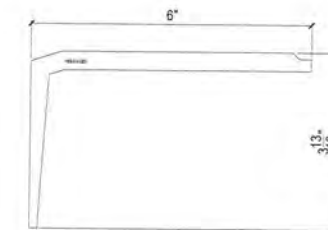
Date: Jan. 17, 2025 Revision No.: -

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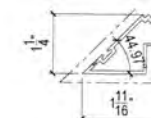
Phase: System Drawing



|                       |         |
|-----------------------|---------|
| DIE NO. :*            |         |
| MATERIAL : 6063-T5    |         |
| FINISH : NON-CHROMATE |         |
| PURPOSE : TOP TRANSOM | LEGEND: |
| COLOR :               |         |

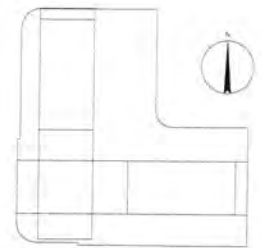


|                           |         |
|---------------------------|---------|
| DIE NO. : *               |         |
| MATERIAL : 6061-T6        |         |
| FINISH : NON-CHROMATE     |         |
| PURPOSE : RECEPTOR SLEEVE | LEGEND: |



|                      |         |
|----------------------|---------|
| DIE NO. : *          |         |
| MATERIAL : 6063-T5   |         |
| FINISH : MILL FINISH |         |
| PURPOSE : CAP        | LEGEND: |

Key Plan/Elevation:



Owner:  
JDS DEVELOPMENT GROUP  
104 FIFTH AVENUE, 9TH FLR  
NEW YORK, NY 10011  
T: 212.974.2844

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Approved By: \_\_\_\_\_

Checked By:

Design Team:

Title: MATERIAL LIST  
Aluminum Extrusion

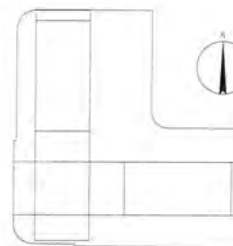
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| Date: Oct. 29, 2024 | Revision No.: - |
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|                 |               |
|-----------------|---------------|
| Scale: 6"=1'-0" | Size: 22"x34" |
|-----------------|---------------|

Phase: PMU

BLACKWATER TECHNICAL SERVICES, INC.  
Verified Dimensions Only  
Date: 12/27/24  
Toll #:   
Review:   
BT-ELG-24-003  
mm

Key Plan/Elevation:



| No. | Date | Description |
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Revisions:

JDS DEVELOPMENT GROUP  
104 FIFTH AVENUE, 9TH FLR  
NEW YORK, NY 10011  
T: 212.974.2844

SHoP ARCHITECTS, P.C.  
233 BROADWAY, 11TH FLOOR  
NEW YORK, NY 10279  
T:212.889.9005

10. ☐ Other (please specify): \_\_\_\_\_



**ELICC**  
GROUP

ELICC AMERICAS CORPORATION  
13475 DANIELSON ST.  
POWAY, CA 92064  
Tel: (760)-233-0066  
Fax: (760)-233-0065

Checked By: \_\_\_\_\_

Design Team: \_\_\_\_\_

TESTING SYSTEM:  
ELICC-SGD SYSTEM

Title: MATERIAL LIST  
Aluminum Extrusion

|                     |                 |
|---------------------|-----------------|
| Date: Oct. 29, 2024 | Revision No.: - |
| Scale: 6"=1'-0"     | Size: 22"x34"   |

Phase: PMU

|                             |                       |
|-----------------------------|-----------------------|
| DIE NO. :EW12002            |                       |
| MATERIAL : 6063-T6          |                       |
| FINISH :NON-CHROMATE        |                       |
| PURPOSE :ANTI-BUCKLING CLIP | LEGEND:               |
| COLOR : -                   | POWDER COAT - - - - - |

|                       |                       |
|-----------------------|-----------------------|
| DIE NO.: 1308         |                       |
| MATERIAL : 6063-T5    |                       |
| FINISH : NON-CHROMATE |                       |
| PURPOSE : ANGLE       | LEGEND:               |
| COLOR : -             | POWDER COAT - - - - - |

|                       |                         |
|-----------------------|-------------------------|
| DIE NO. : EN23004     |                         |
| MATERIAL : 6063-T5    |                         |
| FINISH : NON-CHROMATE |                         |
| PURPOSE : SHIM        | LEGEND:                 |
| COLOR : -             | POWDER COAT --- - - - - |

|                      |                  |
|----------------------|------------------|
| DIE NO. : *          |                  |
| MATERIAL : 6063-T5   |                  |
| FINISH : MILL FINISH |                  |
| PURPOSE : TRIM       | LEGEND:          |
| COLOR : -            | POWDER COAT----- |

|                       |             |
|-----------------------|-------------|
| DIE NO. : PAK-030     |             |
| MATERIAL : 6063-T5    |             |
| FINISH : NON-CHROMATE |             |
| PURPOSE : BEARING BAR | LEGEND:     |
| COLOR :               | POWDER COAT |

|                       |                  |
|-----------------------|------------------|
| DIE NO. : *           |                  |
| MATERIAL : 6063-T5    |                  |
| FINISH : NON-CHROMATE |                  |
| PURPOSE : CLIP        | LEGEND:          |
| COLOR : -             | POWDER COAT----- |

|                       |                              |
|-----------------------|------------------------------|
| DIE NO. : EW55002     | LEGEND:<br>POWDER COAT ----- |
| MATERIAL : 6063-T5    |                              |
| FINISH : NON-CHROMATE |                              |
| PURPOSE : SHIM        |                              |
| COLOR : -             |                              |

|                       |                        |
|-----------------------|------------------------|
| DIE NO. : EW55001     | LEGEND:<br>POWDER COAT |
| MATERIAL : 6063-T5    |                        |
| FINISH : NON-CHROMATE |                        |
| PURPOSE : SHIM        |                        |
| COLOR : -             |                        |

|                       |                       |
|-----------------------|-----------------------|
| DIE NO. : *           |                       |
| MATERIAL : 6063-T6    |                       |
| FINISH : NON-CHROMATE |                       |
| PURPOSE : -           | LEGEND:               |
| COLOR : -             | POWDER COAT - - - - - |

|                       |                      |
|-----------------------|----------------------|
| DIE NO. : *           |                      |
| MATERIAL : 6063-T6    |                      |
| FINISH : NON-CHROMATE |                      |
| PURPOSE : -           | LEGEND:              |
| COLOR : -             | POWDER COAT— — — — — |

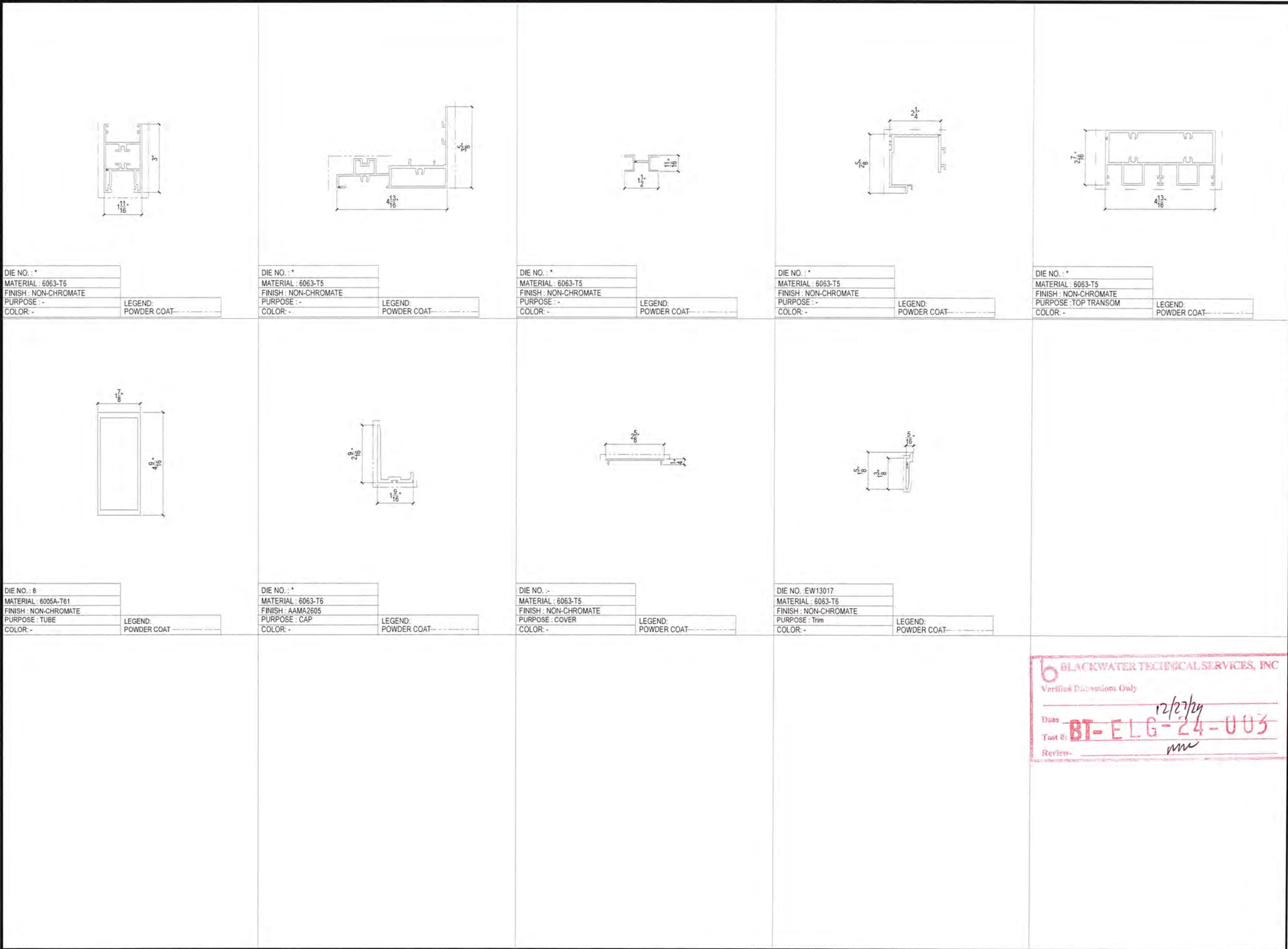
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|-----------------------|------------------|
| DIE NO. : *           |                  |
| MATERIAL : 6063-T5    |                  |
| FINISH : NON-CHROMATE |                  |
| PURPOSE : -           | LEGEND :         |
| COLOR : -             | POWDER COAT----- |

|                       |                  |
|-----------------------|------------------|
| DIE NO. : *           |                  |
| MATERIAL : 6063-T5    |                  |
| FINISH : NON-CHROMATE |                  |
| PURPOSE : -           | LEGEND:          |
| COLOR : -             | POWDER COAT----- |

|                       |                        |
|-----------------------|------------------------|
| DIE NO. : *           |                        |
| MATERIAL : 6063-T5    |                        |
| FINISH : NON-CHROMATE |                        |
| PURPOSE : -           | LEGEND:                |
| COLOR : -             | POWDER COAT: - - - - - |

|                       |                   |
|-----------------------|-------------------|
| DIE NO. : EN50002     |                   |
| MATERIAL : 6005A-T61  |                   |
| FINISH : NON-CHROMATE |                   |
| PURPOSE : ANGLE       | LEGEND:           |
| COLOR :               | POWDER COAT ----- |

|                       |             |
|-----------------------|-------------|
| DIE NO. : *           |             |
| MATERIAL : 6063-T5    |             |
| FINISH : NON-CHROMATE |             |
| PURPOSE : TOP TRANSOM | LEGEND:     |
| COLOR : -             | POWDER COAT |



Job No.: 80028

Key Plan/Elevation:

Revisions:

| No. | Date | Description |
|-----|------|-------------|
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|     |      |             |
|     |      |             |
|     |      |             |

Owner:  
JDS DEVELOPMENT GROUP  
104 FIFTH AVENUE, 9TH FLR  
NEW YORK, NY 10011  
T: 212.974.2844

Architect:  
SHoP ARCHITECTS, P.C.  
233 BROADWAY, 11TH FLOOR  
NEW YORK, NY 10279  
T: 212.889.9005

Facade Consultant:

Issued By:

ELICC AMERICAS CORPORATION  
13475 DANIELSON ST.  
POWAY, CA 92064  
Tel: (760)-233-0066  
Fax: (760)-233-0065

Approved By:

Checked By:

Design Team:

TESTING SYSTEM:  
ELICC-SGD SYSTEM

Title:  
MATERIAL LIST  
Aluminum Extrusion

Sheet No.: ML-049

Date: Oct. 29, 2024      Revision No.: -

Scale: 6"=1'-0"      Size: 22"x34"

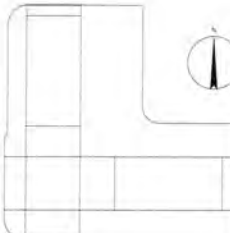
Phase: PMU

**BLACKWATER TECHNICAL SERVICES, INC**  
Verified Dimensions Only

Date: 12/27/24  
Test #: **BT-ELG-24-003**  
Review: *mm*



Job No.: 80028  
Key Plan/Elevation:



| No.        | Date | Description |
|------------|------|-------------|
| Revisions: |      |             |

Owner:  
JDS DEVELOPMENT GROUP  
104 FIFTH AVENUE, 9TH FLR  
NEW YORK, NY 10011  
T: 212.974.2844

Architect:  
SHoP ARCHITECTS, P.C.  
233 BROADWAY, 11TH FLOOR  
NEW YORK, NY 10279  
T: 212.889.9005

Facade Consultant:

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ELICC AMERICAS CORPORATION  
13475 DANIELSON ST.  
POWAY, CA 92064  
Tel: (760)-233-0066  
Fax: (760)-233-0065

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Checked By:

Design Team:

TESTING SYSTEM:  
ELICC-SGD SYSTEM

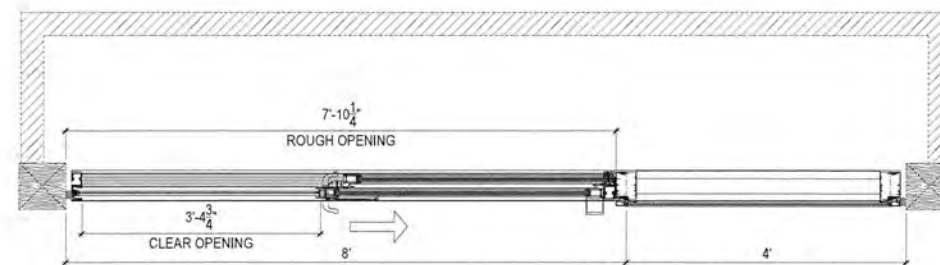
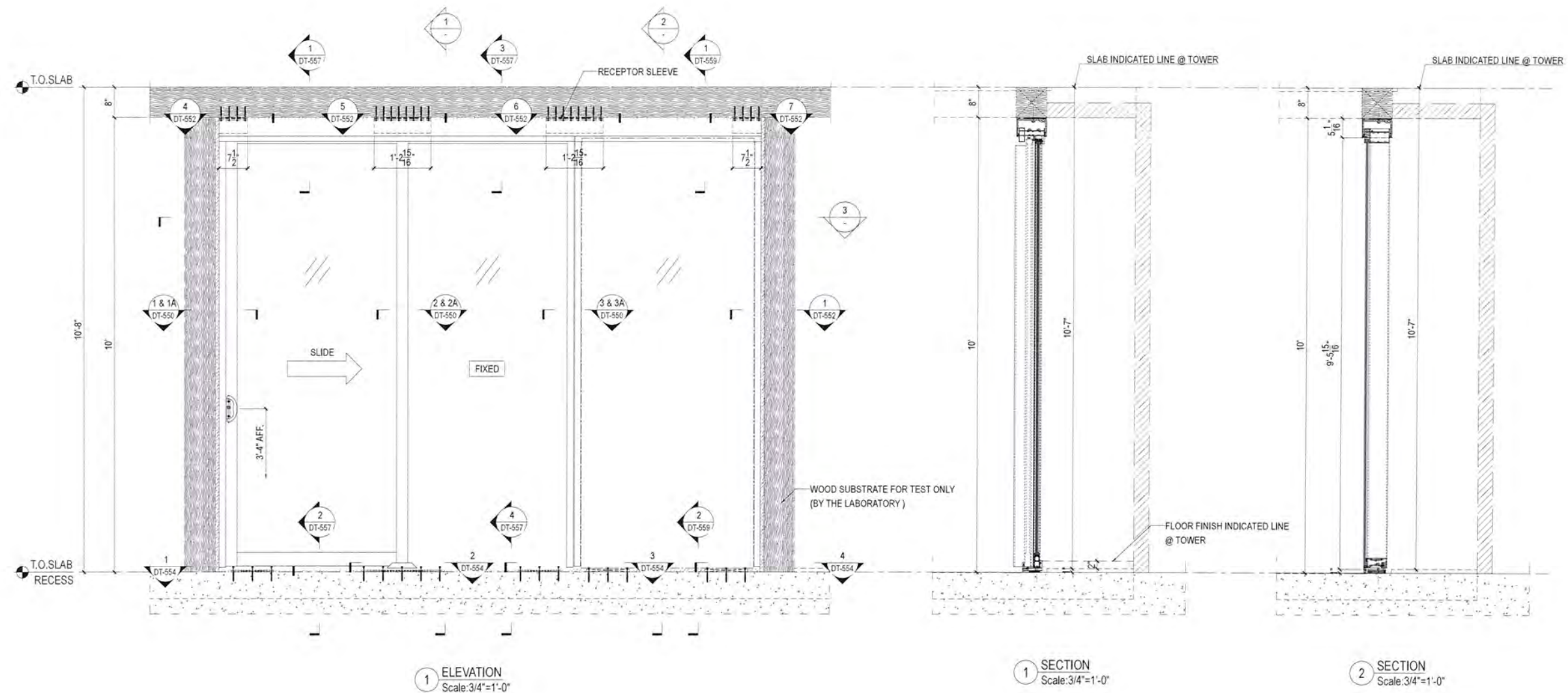
Title:  
MATERIAL LIST  
Aluminum Extrusion

Sheet No.: ML-050

Date: Oct. 29, 2024  
Scale: 6"=1'-0"

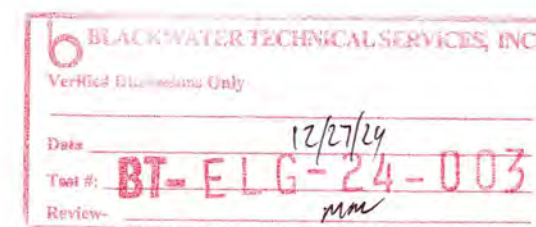
Revision No.: -  
Size: 22"x34"

Phase: PMU



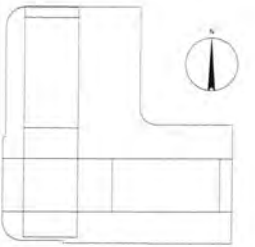
|                            |            |
|----------------------------|------------|
| REFERENCE WALL TYPE WT-2   | TESTS PER: |
| SPECIMEN # 13              | TAS-201    |
| LARGE MISSILE IMPACT       | TAS-202    |
| DESIGN WIND LOAD: ±110 PSF | TAS-203    |

Legend:  
GL-101B: HS 6MM GRAY + 2.28MM SGP + HS 6MM CLEAR LAMINATED GLASS



Job No.: 80028

Key Plan/Elevation:



| No. | Date | Description |
|-----|------|-------------|
|-----|------|-------------|

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JDS DEVELOPMENT GROUP  
104 FIFTH AVENUE, 9TH FLR  
NEW YORK, NY 10011  
T: 212.974.2844

Architect:  
SHoP ARCHITECTS, P.C.  
233 BROADWAY, 11TH FLOOR  
NEW YORK, NY 10279  
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ELICC AMERICAS CORPORATION  
13475 DANIELSON ST.  
POWAY, CA 92064  
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Design Team:

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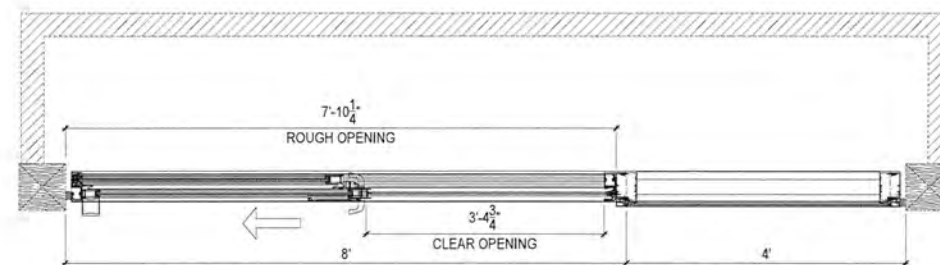
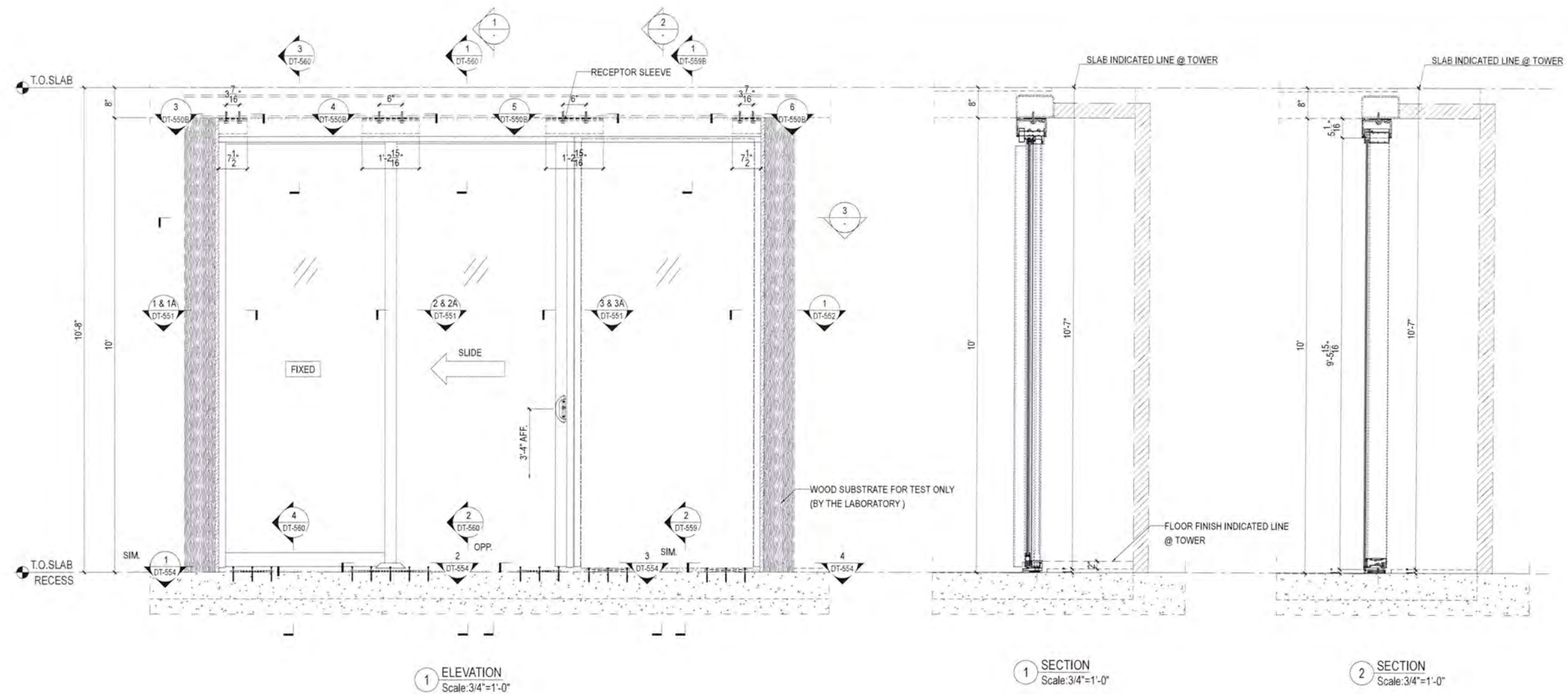
Title:  
LARGE MISSILE IMPACT  
TESTING ELEVATION

Sheet No.: PE-113

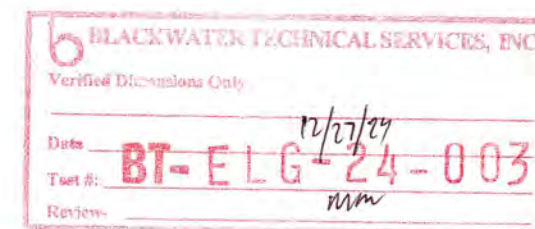
Date: Oct. 29, 2024 Revision No.: -

Scale: 3/4"=1'-0" Size: 22"x34"

Phase: PMU



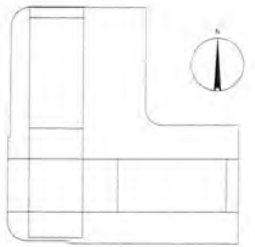
|                            |            |
|----------------------------|------------|
| REFERENCE WALL TYPE WT-2   | TESTS PER: |
| SPECIMEN # 14              | TAS-201    |
| SMALL MISSILE IMPACT       | TAS-202    |
| DESIGN WIND LOAD: ±110 PSF | TAS-203    |



Legend:  
VISION GLASS  
GL-101: HS 6MM GREY + 1.52MM PVB + HS 6MM CLEAR LAMINATED GLASS

Job No.: 80028

Key Plan/Elevation:



| No.        | Date | Description |
|------------|------|-------------|
| Revisions: |      |             |

Owner:  
JDS DEVELOPMENT GROUP  
104 FIFTH AVENUE, 9TH FLR  
NEW YORK, NY 10011  
T: 212.974.2844

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SHoP ARCHITECTS, P.C.  
233 BROADWAY, 11TH FLOOR  
NEW YORK, NY 10279  
T: 212.889.9005

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13475 DANIELSON ST.  
POWAY, CA 92064  
Tel: (760)-233-0066  
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Checked By:

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TESTING SYSTEM:  
ELICC-SGD SYSTEM

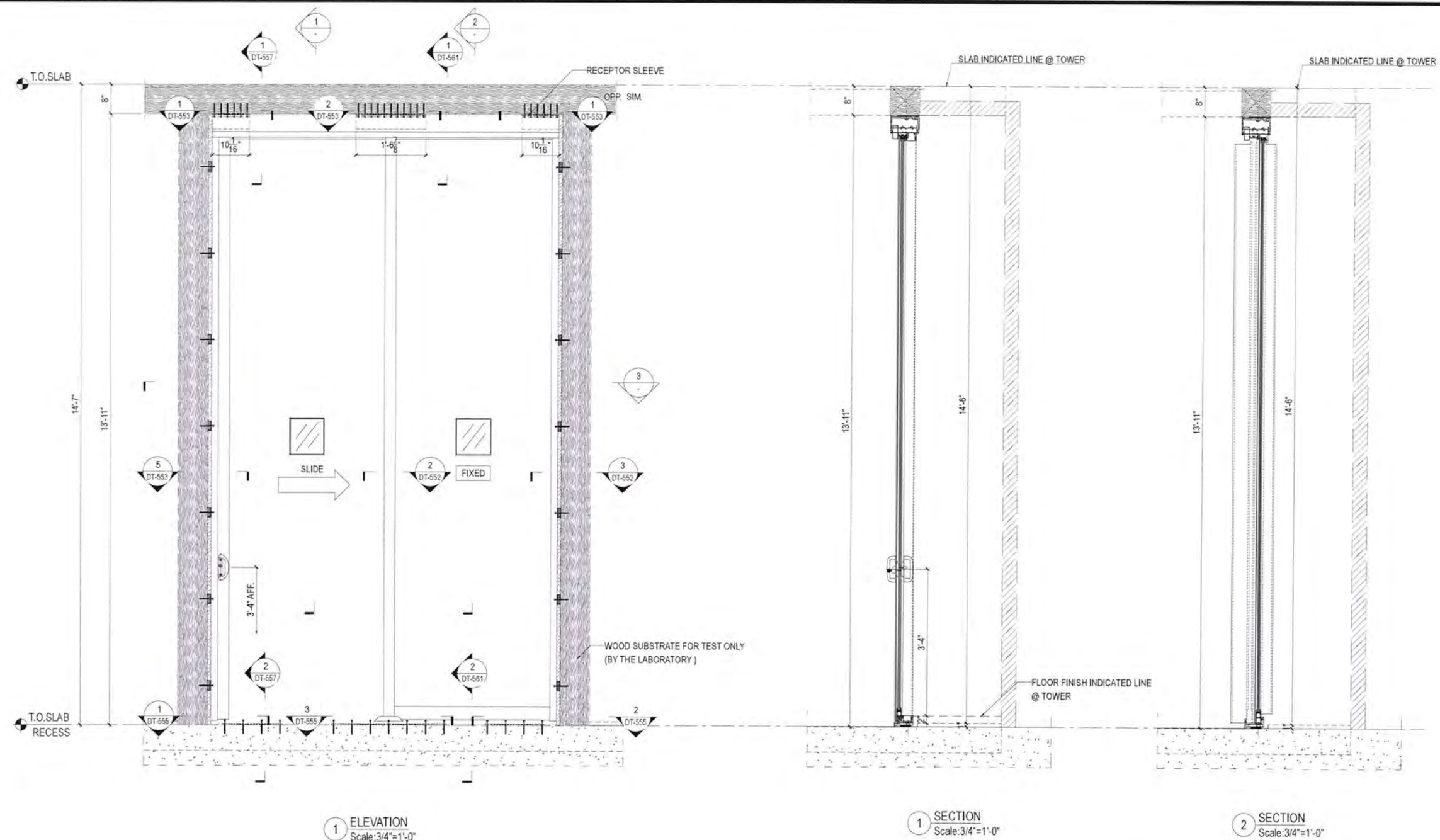
Title:  
SMALL MISSILE IMPACT  
TESTING ELEVATION

Sheet No.: PE-114

Date: Oct. 29, 2024 Revision No.: -

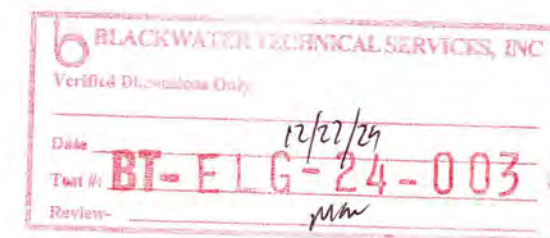
Scale: 3/4"=1'-0" Size: 22"x34"

Phase: PMU



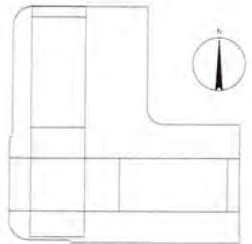
Legend:  
VISION GLASS  
GL-101M FT6MM GREY + 1.52MM PVB + FT 6MM CLEAR LAMINATED GLASS

|                            |            |
|----------------------------|------------|
| REFERENCE WALL TYPE WT-2   | TESTS PER: |
| SPECIMEN # 15              | TAS-201    |
| SMALL MISSILE IMPACT       | TAS-202    |
| DESIGN WIND LOAD: ±110 PSF | TAS-203    |



Job No.: 80028

Key Plan/Elevation:



| No.        | Date | Description |
|------------|------|-------------|
| Revisions: |      |             |
|            |      |             |
|            |      |             |
|            |      |             |

Owner:  
JDS DEVELOPMENT GROUP  
104 FIFTH AVENUE, 9TH FLR  
NEW YORK, NY 10011  
T: 212.974.2844

Architect:  
SHoP ARCHITECTS, P.C.  
233 BROADWAY, 11TH FLOOR  
NEW YORK, NY 10279  
T: 212.889.9005

Facade Consultant:

Issued By:



ELICC AMERICAS CORPORATION  
13475 DANIELSON ST.  
POWAY, CA 92064  
Tel: (760)-233-0066  
Fax: (760)-233-0065

Approved By:

Checked By:

Design Team:

TESTING SYSTEM:  
ELICC-SGD SYSTEM

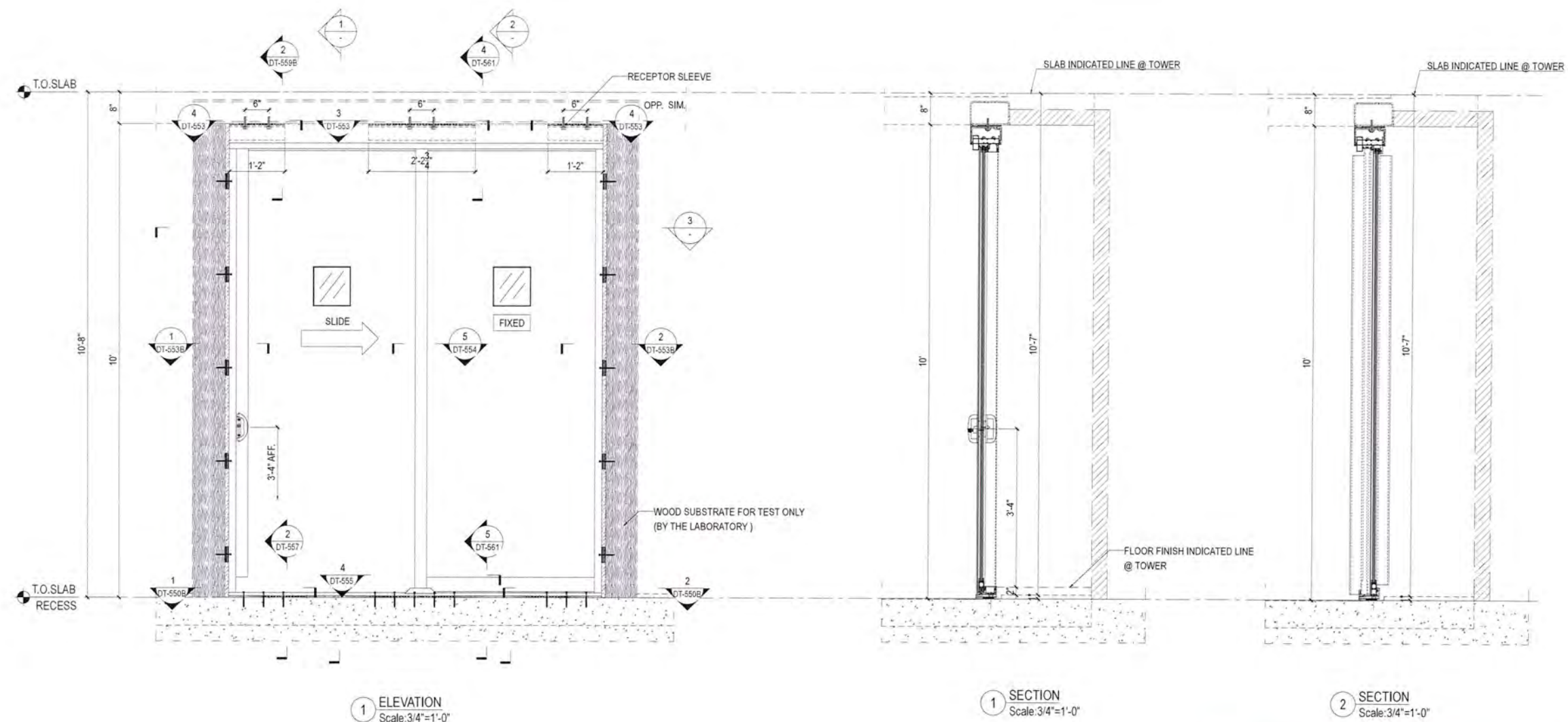
Title:  
SMALL MISSILE IMPACT  
TESTING ELEVATION

Sheet No.: PE-115

Date: Oct. 29, 2024 Revision No.: -

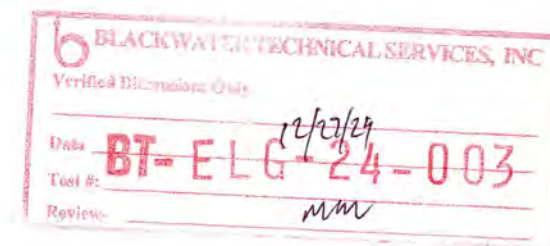
Scale: 3/4"=1'-0" Size: 22"x34"

Phase: PMU



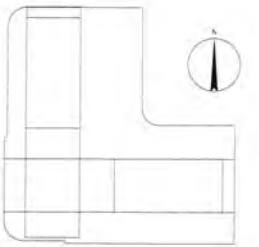
Legend:  
VISION GLASS  
GL-101M: FT6MM GREY + 1.52MM PVB + FT 6MM CLEAR LAMINATED GLASS

|                            |            |
|----------------------------|------------|
| REFERENCE WALL TYPE WT-2   | TESTS PER: |
| SPECIMEN # 16              | TAS-201    |
| SMALL MISSILE IMPACT       | TAS-202    |
| DESIGN WIND LOAD: ±130 PSF | TAS-203    |



Job No.: 80028

Key Plan/Elevation:



| No.        | Date | Description |
|------------|------|-------------|
| Revisions: |      |             |

Owner:  
JDS DEVELOPMENT GROUP  
104 FIFTH AVENUE, 9TH FLR  
NEW YORK, NY 10011  
T: 212.974.2844

Architect:  
SHoP ARCHITECTS, P.C.  
233 BROADWAY, 11TH FLOOR  
NEW YORK, NY 10279  
T: 212.889.9005

Facade Consultant:

Issued By:



ELICC AMERICAS CORPORATION  
13475 DANIELSON ST.  
POWAY, CA 92064  
Tel: (760)-233-0066  
Fax: (760)-233-0065

Approved By:

Checked By:

Design Team:

TESTING SYSTEM:  
ELICC-SGD SYSTEM

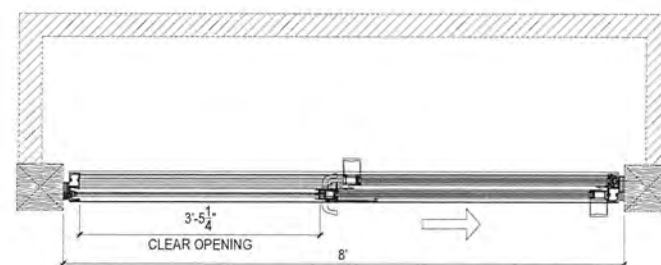
Title:  
SMALL MISSILE IMPACT  
TESTING ELEVATION

Sheet No.: PE-116

Date: Oct. 29, 2024 Revision No.: -

Scale: 3/4"=1'-0" Size: 22"x34"

Phase: PMU



3 PLAN  
Scale: 3/4"=1'-0"

|                                 |           |
|---------------------------------|-----------|
| REFERENCE WALL TYPE WT-2        | TESTS PER |
| SPECIMEN # 17                   | TAS-201   |
| SMALL MISSILE IMPACT            | TAS-202   |
| DESIGN WIND LOAD: $\pm 160$ PSF | TAS-203   |

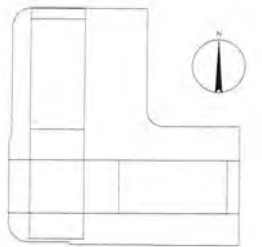
Legend:

 VISION GLASS  
GL-101M: FT6MM GREY + 1.52MM PVB + FT 6MM CLEAR LAMINATED GLASS

BLACKWATER TECHNICAL SERVICES, INC.  
Verified Dimensions Only

Date: 12/27/94  
Test: BT-ELG-24-003  
Review: mm

Key Plan/Elevation:



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|     |      |             |
|     |      |             |
|     |      |             |
|     |      |             |
| No. | Date | Description |

Revisions:

Owner:  
JDS DEVELOPMENT GROUP  
104 FIFTH AVENUE, 9TH FLR  
NEW YORK, NY 10011  
T: 212.974.2844

Architect:  
SHoP ARCHITECTS, P.C.  
233 BROADWAY, 11TH FLOOR  
NEW YORK, NY 10279  
T:212.889.9005

Facade Consultant:

Issued By:



ELICC AMERICAS CORPORATION  
13475 DANIELSON ST.  
POWAY, CA 92064  
Tel: (760)-233-0066  
Fax: (760)-233-0065

Approved By:

Checked By:

Design Team:

TESTING SYSTEM:  
ELICC-SGD SYSTEM

Title: SMALL MISSILE IMPACT TESTING ELEVATION

Sheet No.: PE-117

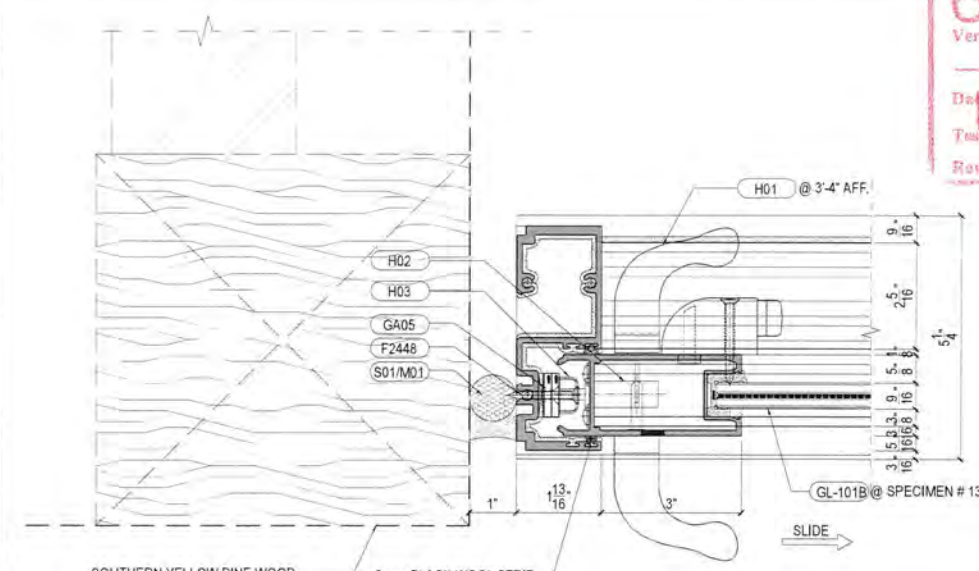
|       |                 |
|-------|-----------------|
| Date: | Revision No.: - |
|-------|-----------------|

|                             |               |
|-----------------------------|---------------|
| Scale: $\frac{3}{4}"=1'-0"$ | Size: 22"x34" |
|-----------------------------|---------------|

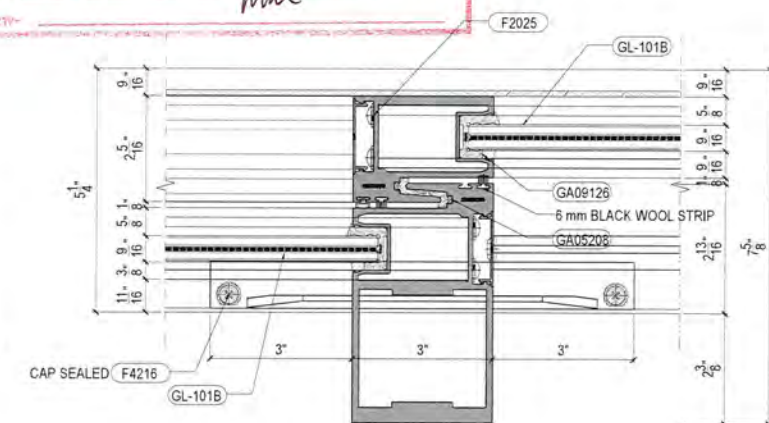
Phase: PMU

Dec. 05th, 2024

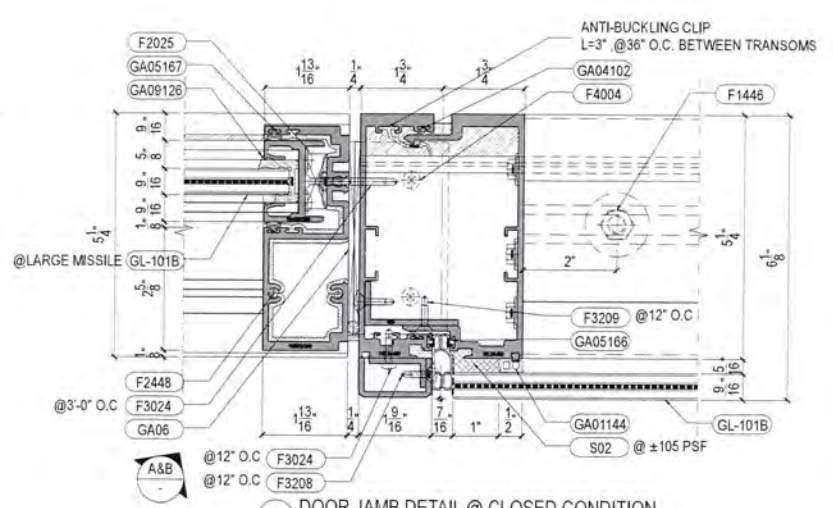
BLACKWATER TECHNICAL SERVICES, INC.  
Verified Dimensional Only  
Date: *2/10/25*  
Test #: **BT-ELG-24-003**  
Review: *mm*



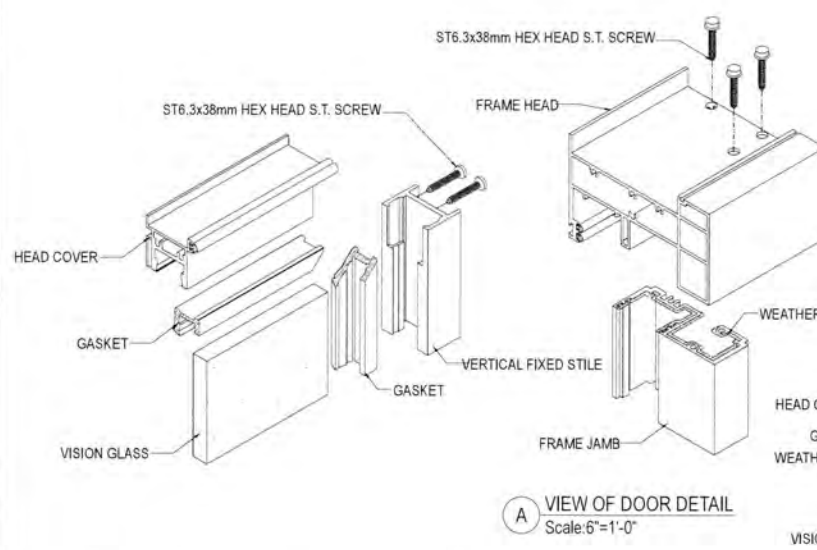
1 DOOR JAMB DETAIL @ CLOSED CONDITION  
Scale: 6"=1'-0" FROM: PE-113



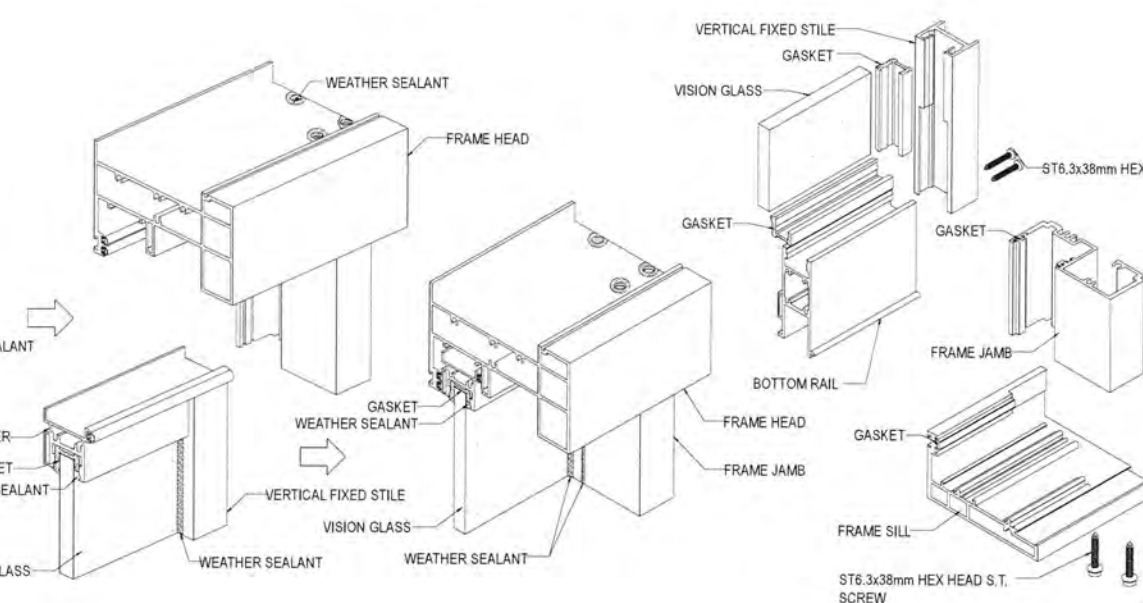
2 DOOR CENTRAL STILE DETAIL @ CLOSED CONDITION  
Scale: 6"=1'-0" FROM: PE-113



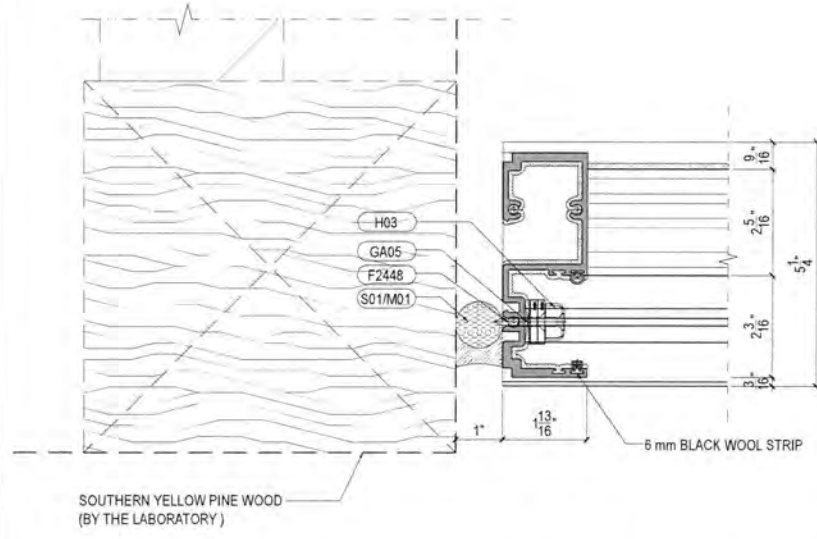
3 DOOR JAMB DETAIL @ CLOSED CONDITION  
Scale: 6"=1'-0" FROM: PE-113



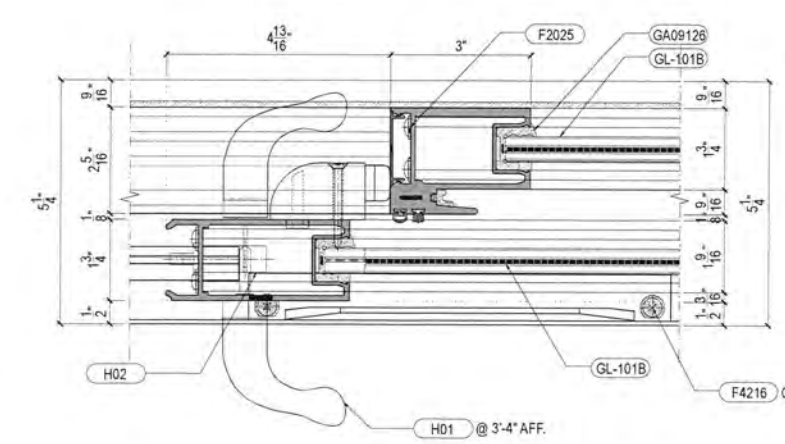
A VIEW OF DOOR DETAIL  
Scale: 6"=1'-0"



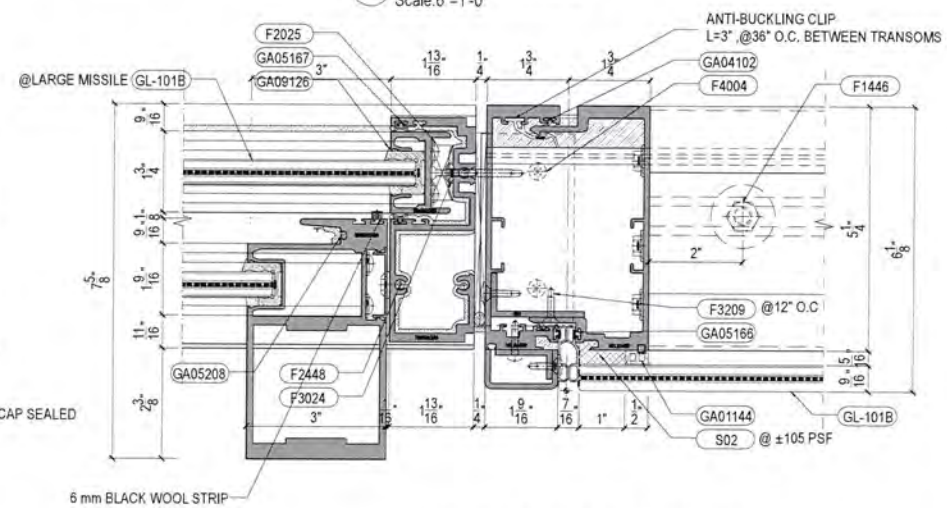
B VIEW OF DOOR DETAIL  
Scale: 6"=1'-0"



1A DOOR JAMB DETAIL @ OPEN CONDITION  
Scale: 6"=1'-0" FROM: PE-113

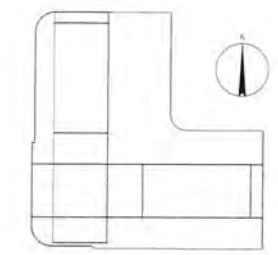


2A DOOR CENTRAL STILE DETAIL @ OPEN CONDITION  
Scale: 6"=1'-0" FROM: PE-113



3A DOOR JAMB DETAIL @ OPEN CONDITION  
Scale: 6"=1'-0" FROM: PE-113

Job No.: 80028  
Key Plan/Elevation:



| No. | Date | Description |
|-----|------|-------------|
|     |      |             |
|     |      |             |
|     |      |             |

Owner:  
JDS DEVELOPMENT GROUP  
104 FIFTH AVENUE, 9TH FLR  
NEW YORK, NY 10011  
T: 212.974.2844

Architect:  
SHoP ARCHITECTS, P.C.  
233 BROADWAY, 11TH FLOOR  
NEW YORK, NY 10279  
T: 212.889.9005

Facade Consultant:

Issued By:



ELICC AMERICAS CORPORATION  
13475 DANIELSON ST.  
POWAY, CA 92064  
Tel: (760)-233-0066  
Fax: (760)-233-0065

Approved By:

Checked By:

Design Team:

TESTING SYSTEM:  
ELICC-SGD SYSTEM

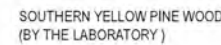
Title:  
HORIZONTAL SECTION DETAIL

Sheet No.: DT-550

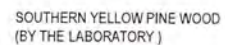
Date: Oct. 29, 2024 Revision No.: -

Scale: 6"=1'-0" Size: 22"x34"

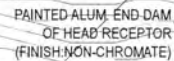
Phase: PMU



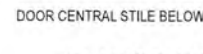
1 STARTER TRACK PLAN DETAIL @ SIDE OF DOOR  
Scale: 6"=1'-0" FROM: PE-116



2 STARTER TRACK PLAN DETAIL @ SIDE OF DOOR  
Scale: 6"=1'-0" FROM: PE-116



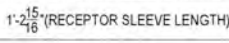
3 HEAD RECEPTOR PLAN DETAIL @ SIDE  
Scale: 6"=1'-0" FROM: PE-114



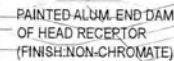
4 HEAD RECEPTOR PLAN DETAIL @ SLIDER CENTRAL STILE  
Scale: 6" = 1'-0" FROM: PE-114



BT-ELG-24-003

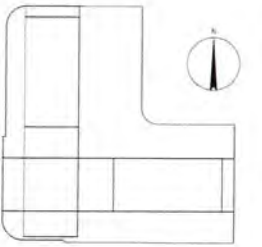


5 HEAD RECEPTOR PLAN DETAIL @ MULLION  
Scale: 6"=1'-0" FROM: PE-114



6 HEAD RECEPTOR PLAN DETAIL @ SIDE  
Scale: 6"=1'-0" FROM: PE-114

Key Plan/Elevation:



| No. | Date | Description |
|-----|------|-------------|
|-----|------|-------------|

Architect:  
SHoP ARCHITECTS, P.C.  
133 BROADWAY, 11TH FLOOR  
NEW YORK, NY 10279  
212.889.9005

Issued By:



Approved By:

Checked By:

Design Team:

ELICC-SGD SYSTEM

HORIZONTAL SECTION DETAIL

Sheet No.: DT-550B

|                           |                 |
|---------------------------|-----------------|
| Issue Date: Oct. 29, 2024 | Revision No.: - |
|---------------------------|-----------------|

|                 |               |
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| Scale: 6"=1'-0" | Size: 22"x34" |
|-----------------|---------------|

ase: PMU



1 DOOR JAMB DETAIL @ CLOSED CONDITION  
Scale: 6"=1'-0" FROM: PE-114



2 DOOR CENTRAL STILE DETAIL @ CLOSED CONDITION  
Scale: 6"=1'-0" FROM: PF-114



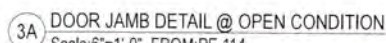
3 DOOR JAMB DETAIL @ CLOSED CONDITION  
Scale: 6" = 1' 0" FROM RF 114



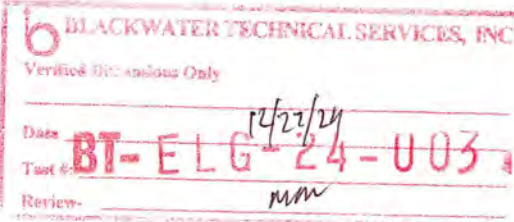
1A DOOR JAMB DETAIL @ OPEN CONDITION  
Scale: 6"=1'-0" FROM PE-114



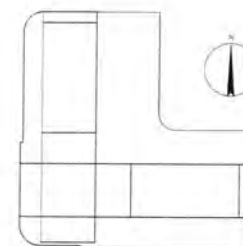
2A DOOR CENTRAL STILE DETAIL @ OPEN CONDITION  
Scale: 6"=1'-0" FROM: PE-114



3A DOOR JAMB DETAIL @ OPEN CONDITION  
Scale: 6"=1'-0" FROM DF 444



Key Plan/Elevation:



| No.        | Date | Description |
|------------|------|-------------|
| Revisions: |      |             |

Architect:  
SHoP ARCHITECTS, P.C.  
233 BROADWAY, 11TH FLOOR  
NEW YORK, NY 10279  
T:212.889.9005

Issued By:



Approved By:

Checked By:

Design Team:

ELICC-SGD SYSTEM

Title: HORIZONTAL SECTION DETAIL

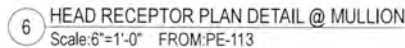
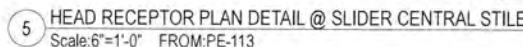
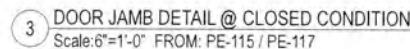
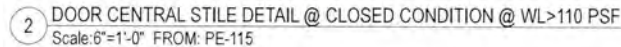
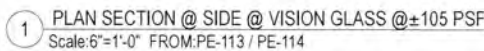
Date: Oct. 29, 2024

Scale: 6"=1'-0"

Revision No.:

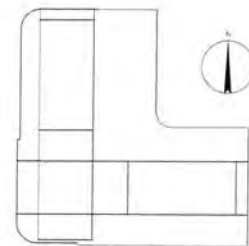
Phase: PMU

Size: 22"x34"



Job No.: 80028

Key Plan/Elevation:



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|     |      |             |
| No. | Date | Description |

Revisions:

Owner:  
JDS DEVELOPMENT GROUP  
104 FIFTH AVENUE, 9TH FLR  
NEW YORK, NY 10011  
T: 212.974.2844

Architect:  
SHoP ARCHITECTS, P.C.  
233 BROADWAY, 11TH FLOOR  
NEW YORK, NY 10279  
T:212.889.9005

Facade Consultant:

Issued By:



ELICC AMERICAS CORPORATION  
13475 DANIELSON ST.  
POWAY, CA 92064  
Tel: (760)-233-0066  
Fax: (760)-233-0065

Approved By:

Checked By

Design Team:

TESTING SYSTEM:  
ELICC-SGD SYSTEM

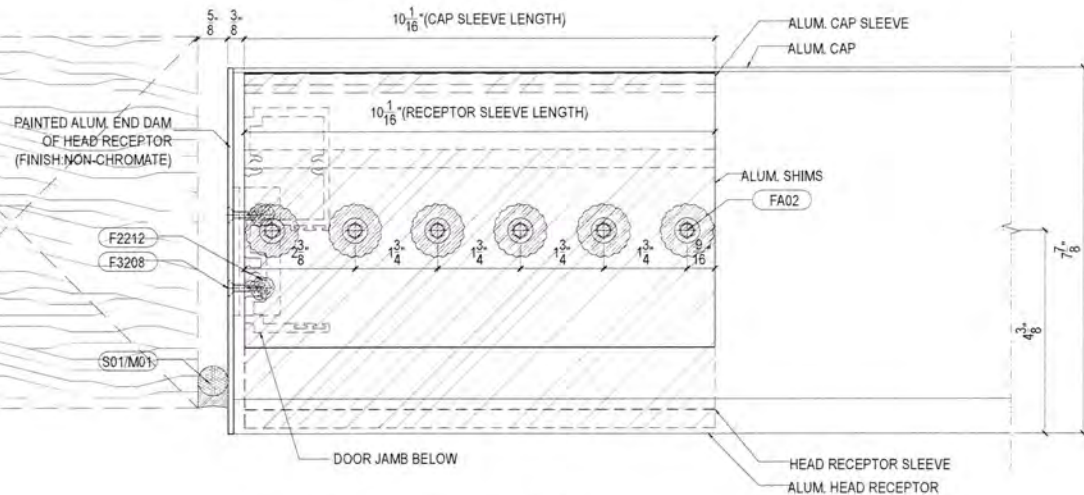
Title: HORIZONTAL SECTION DETAIL

Sheet No.: DT-552

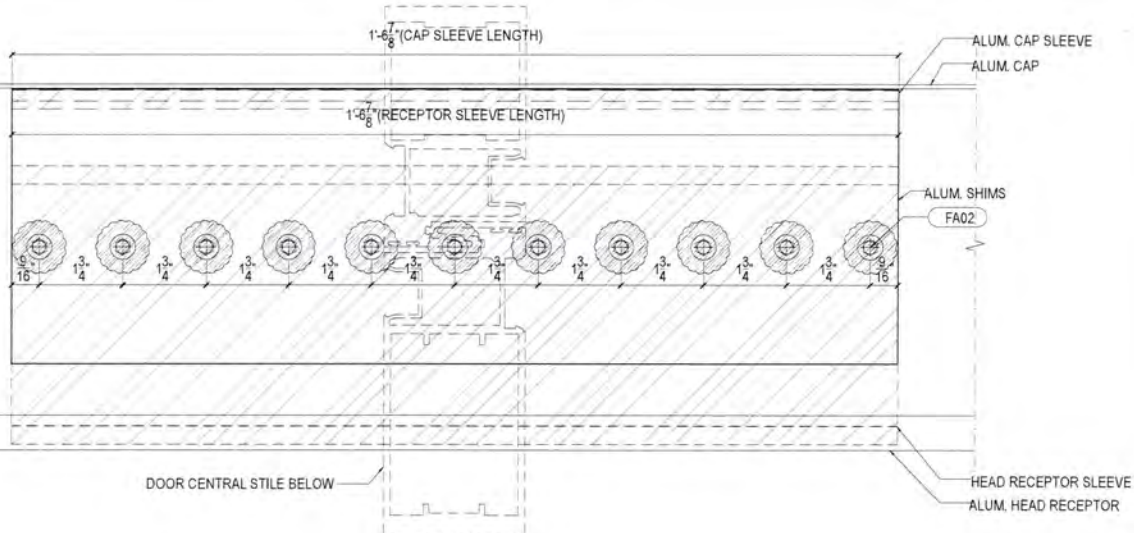
Date: Oct. 29, 2024      Revision No. : -

Scale: 6"=1'-0"      Size: 22"x34"

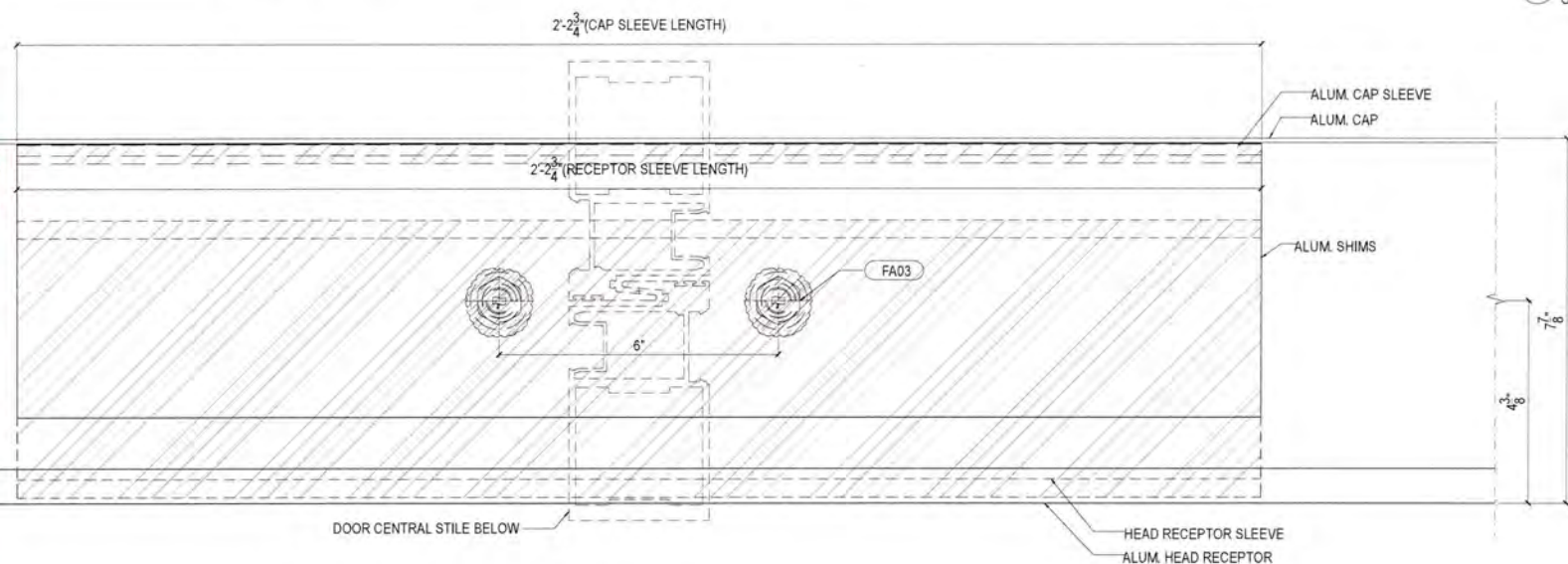
Phase: PMU



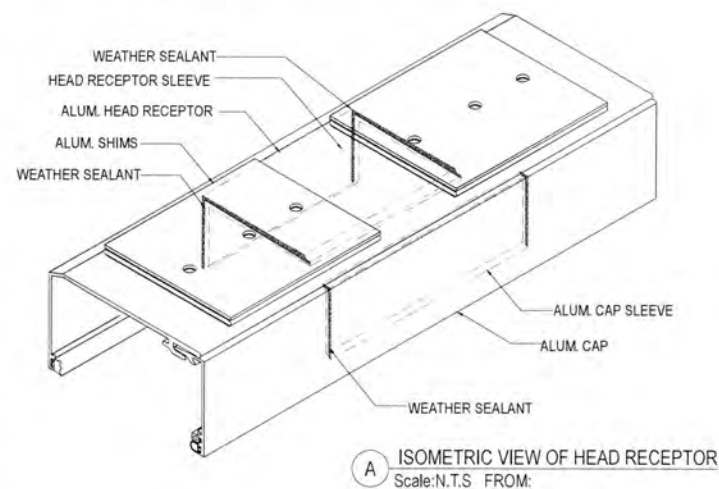
1 HEAD RECEPTOR PLAN DETAIL @ SIDE  
Scale: 6"=1'-0" FROM: PE-115



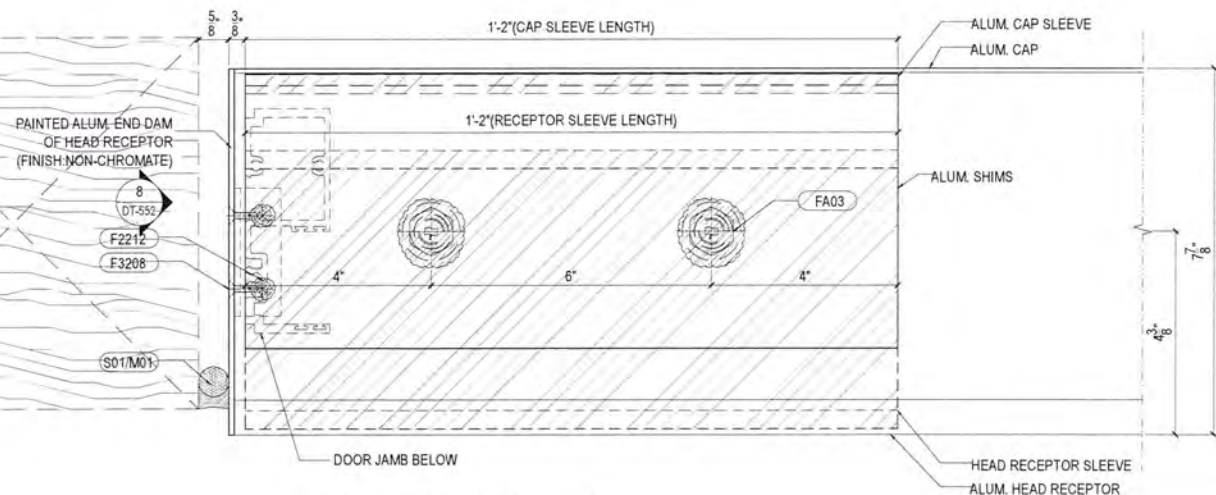
2 HEAD RECEPTOR PLAN DETAIL @ SLIDER CENTRAL STILE  
Scale: 6"=1'-0" FROM: PE-115



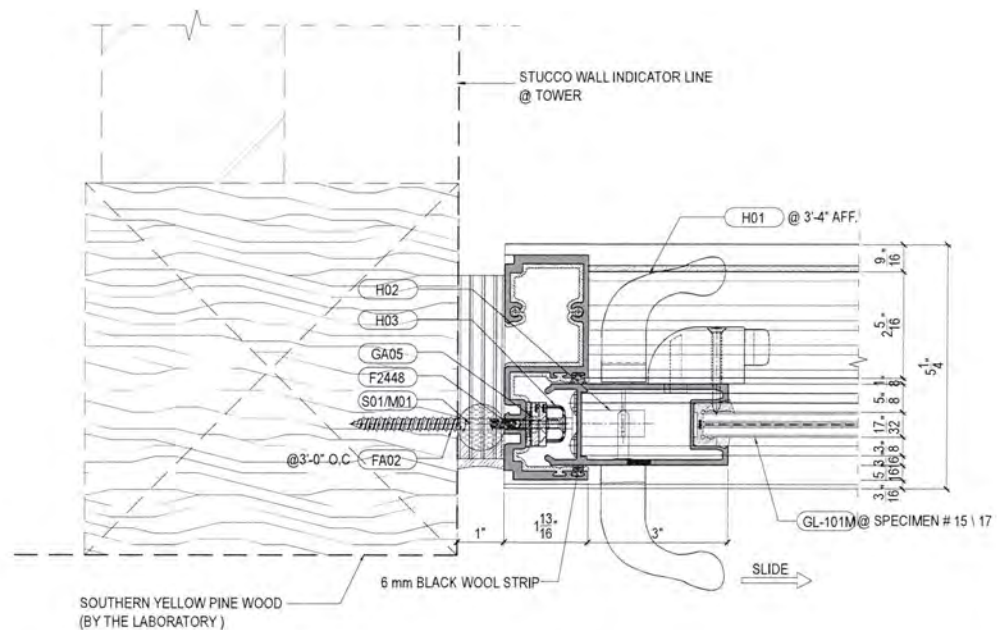
3 HEAD RECEPTOR PLAN DETAIL @ SLIDER CENTRAL STILE  
Scale: 6"=1'-0" FROM: PE-116



**A** ISOMETRIC VIEW OF HEAD RECEPTOR  
Scale: N.T.S FROM:

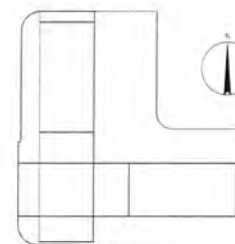


4 HEAD RECEPTOR PLAN DETAIL @ SIDE  
Scale: 6"=1'-0" FROM: PE-116



5 DOOR JAMB DETAIL @ CLOSED CONDITION  
Scale: 6"=1'-0" FROM: PE-115 / PE-117

Key Plan/Elevation:



| No. | Date | Description |
|-----|------|-------------|

Revisions:

Owner:  
JDS DEVELOPMENT GROUP  
104 FIFTH AVENUE, 9TH FLR  
NEW YORK, NY 10011  
T: 212.974.2844

Architect:  
SHoP ARCHITECTS, P.C.  
233 BROADWAY, 11TH FLOOR  
NEW YORK, NY 10279  
T:212.889.9005

Facade Consultant:

Issued By:



ELICC AMERICAS CORPORATION  
13475 DANIELSON ST.  
POWAY, CA 92064  
Tel: (760)-233-0066  
Fax: (760)-233-0065

Approved By:

Checked By:

Design Team:

TESTING SYSTEM:  
ELICC-SGD SYSTEM

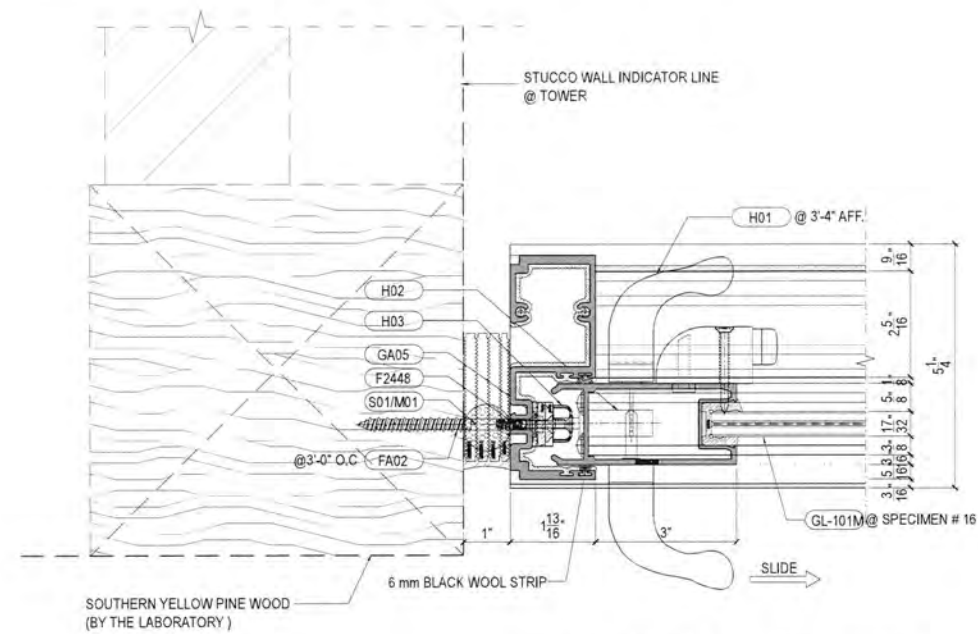
Title: HORIZONTAL SECTION DETAIL

Sheet No.: DT-553

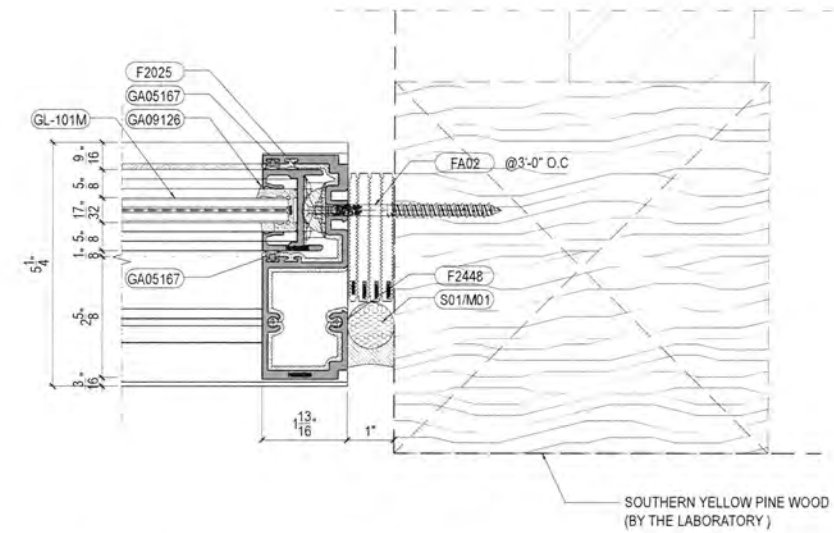
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| Date: Oct. 29, 2024 | Revision No.: - |
|---------------------|-----------------|

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| Scale: 6"=1'-0" | Size: 22"x34" |
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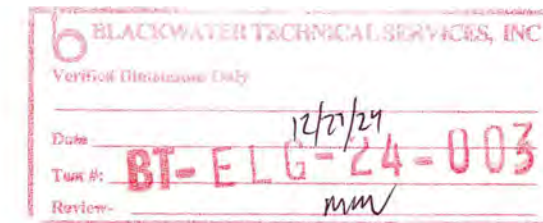
Phase: PMU



1 DOOR JAMB DETAIL @ CLOSED CONDITION  
Scale: 6"=1'-0" FROM: PE-116

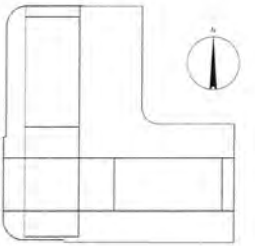


2 DOOR JAMB DETAIL @ CLOSED CONDITION  
Scale: 6"=1'-0" FROM: PE-116



Job No.: 80028

Key Plan/Elevation:



| No.        | Date | Description |
|------------|------|-------------|
| Revisions: |      |             |
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|            |      |             |
|            |      |             |

Owner:  
JDS DEVELOPMENT GROUP  
104 FIFTH AVENUE, 9TH FLR  
NEW YORK, NY 10011  
T: 212.974.2644

Architect:  
SHoP ARCHITECTS, P.C.  
233 BROADWAY, 11TH FLOOR  
NEW YORK, NY 10279  
T: 212.889.9005

Facade Consultant:

Issued By:



ELICC AMERICAS CORPORATION  
13475 DANIELSON ST.  
POWAY, CA 92064  
Tel: (760)-233-0066  
Fax: (760)-233-0065

Approved By:

Checked By:

Design Team:

TESTING SYSTEM:  
ELICC-SGD SYSTEM

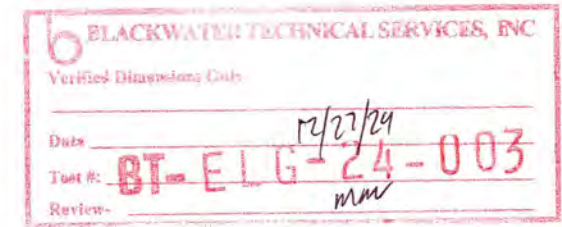
Title:  
HORIZONTAL SECTION DETAIL

Sheet No.: DT-553B

Date: Oct. 29, 2024 Revision No.: -

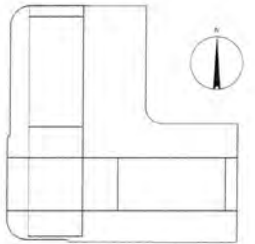
Scale: 6"=1'-0" Size: 22"x34"

Phase: PMU



Job No.: 80028

Key Plan/Elevation:



| No.        | Date | Description |
|------------|------|-------------|
| Revisions: |      |             |

Owner:  
JDS DEVELOPMENT GROUP  
104 FIFTH AVENUE, 9TH FLR  
NEW YORK, NY 10011  
T: 212.974.2844

Architect:  
SHoP ARCHITECTS, P.C.  
233 BROADWAY, 11TH FLOOR  
NEW YORK, NY 10279  
T: 212.889.9005

Facade Consultant:

Issued By:



ELICC AMERICAS CORPORATION  
13475 DANIELSON ST.  
POWAY, CA 92064  
Tel: (760)-233-0066  
Fax: (760)-233-0065

Approved By:

Checked By:

Design Team:

TESTING SYSTEM:  
ELICC-SGD SYSTEM

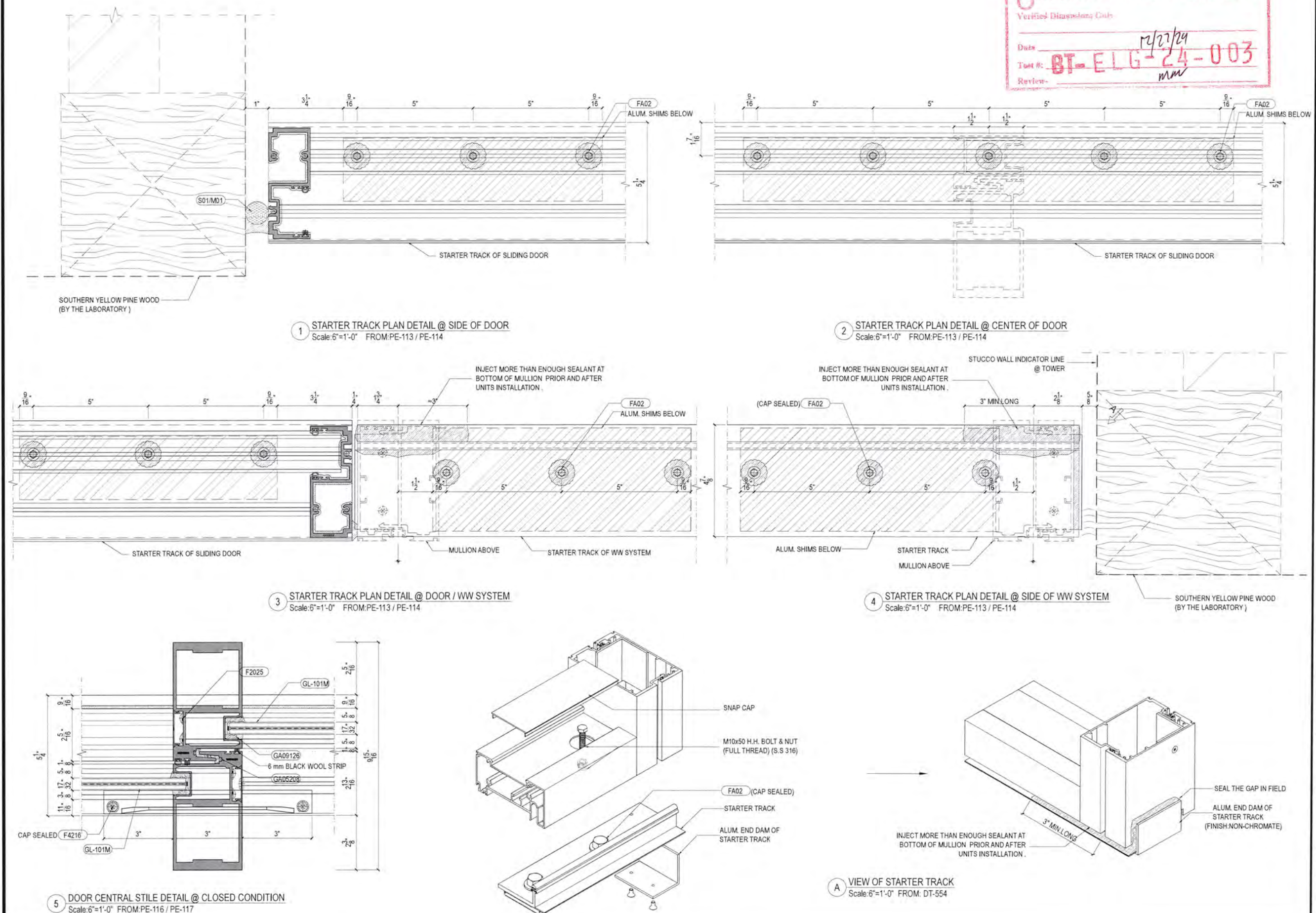
Title:  
STARTER TRACK PLAN DETAIL

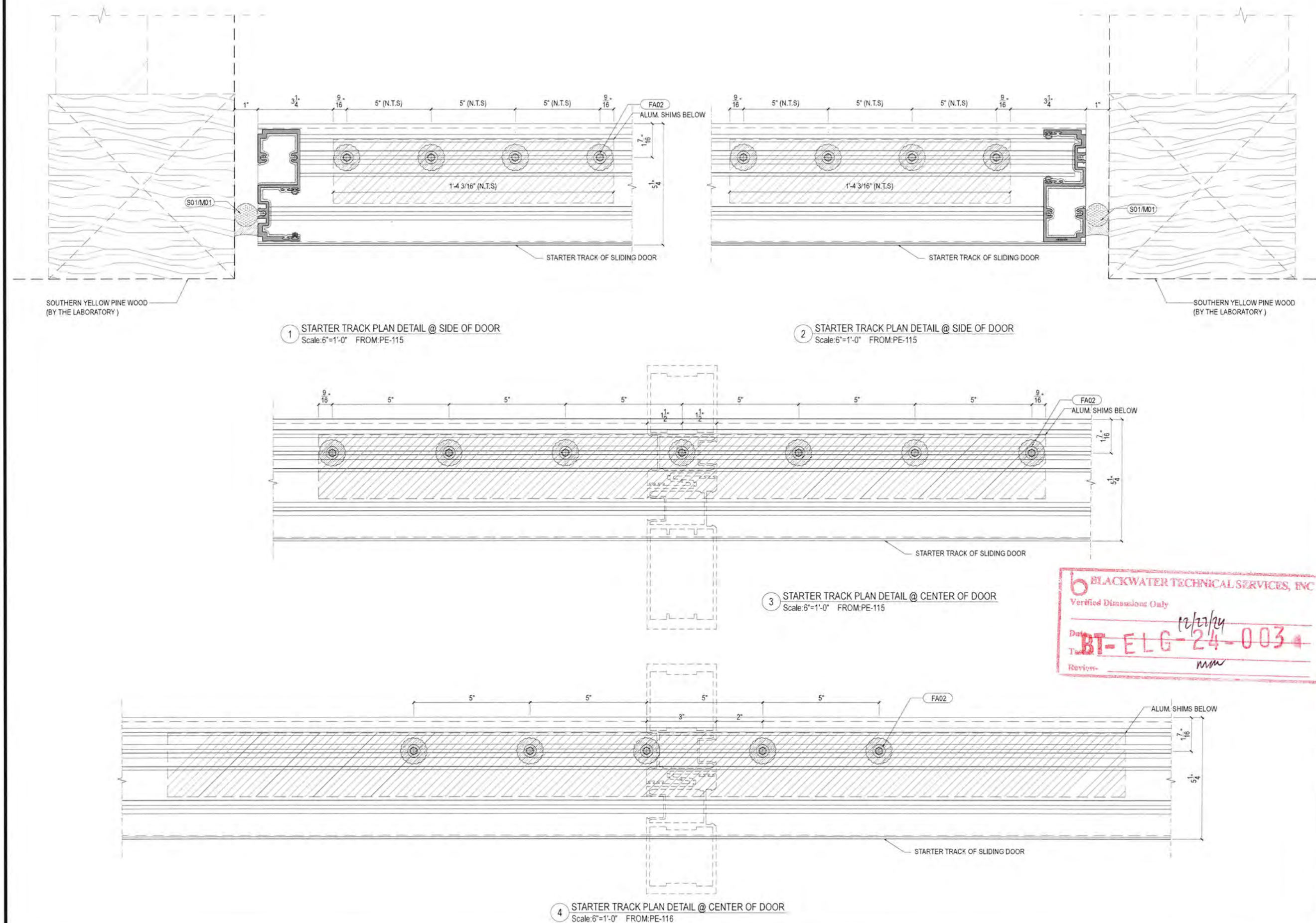
Sheet No.: DT-554

Date: Oct. 29, 2024 Revision No.: -

Scale: 6"=1'-0" Size: 22"x34"

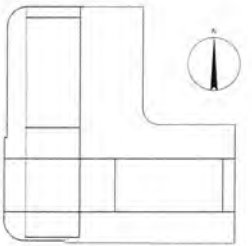
Phase: PMU





Job No.: 80028

Key Plan/Elevation:



| No.        | Date | Description |
|------------|------|-------------|
| Revisions: |      |             |
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|            |      |             |
|            |      |             |

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104 FIFTH AVENUE, 9TH FLR  
NEW YORK, NY 10011  
T: 212.974.2844

Architect:  
SHoP ARCHITECTS, P.C.  
233 BROADWAY, 11TH FLOOR  
NEW YORK, NY 10279  
T: 212.889.9005

Facade Consultant:

Issued By:



ELICC AMERICAS CORPORATION  
13475 DANIELSON ST.  
POWAY, CA 92064  
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Fax: (760)-233-0065

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Design Team:

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ELICC-SGD SYSTEM

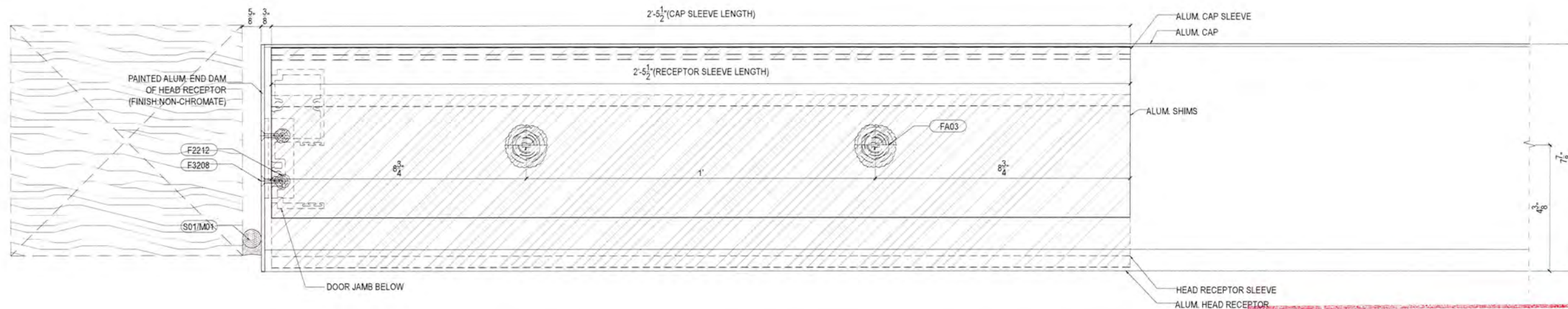
Title:  
STARTER TRACK PLAN DETAIL

Sheet No.: DT-555

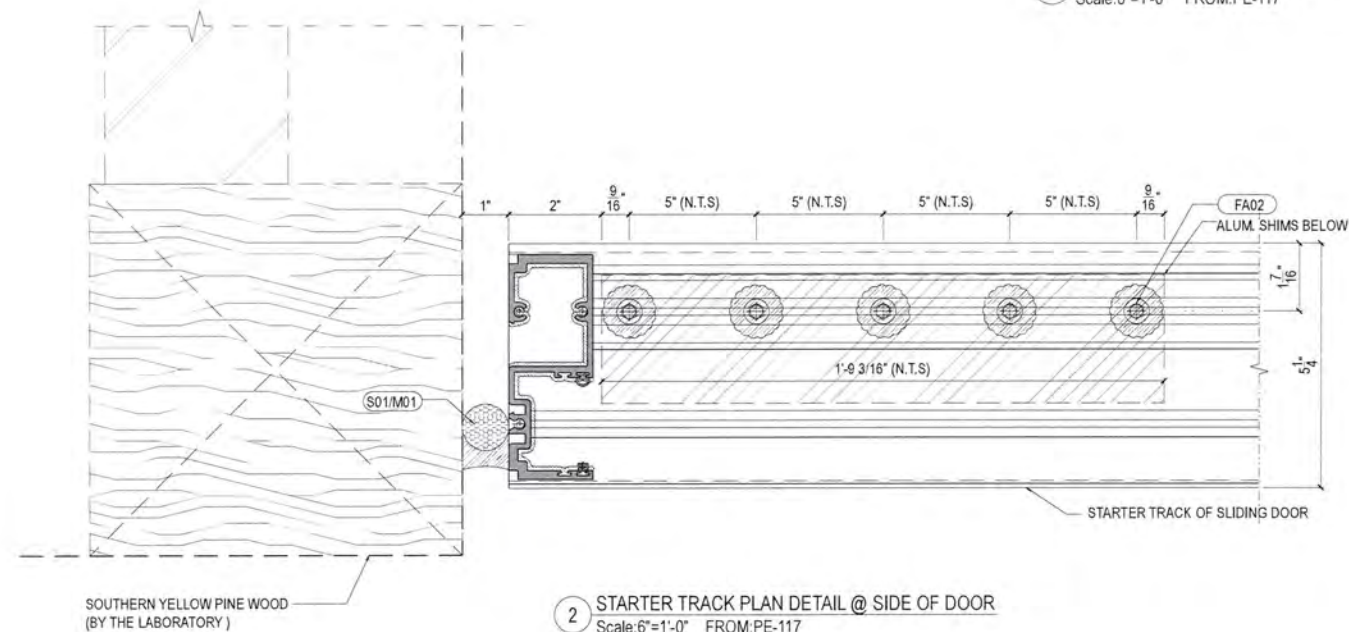
Date: Oct. 29, 2024 Revision No.: -

Scale: 6"=1'-0" Size: 22"x34"

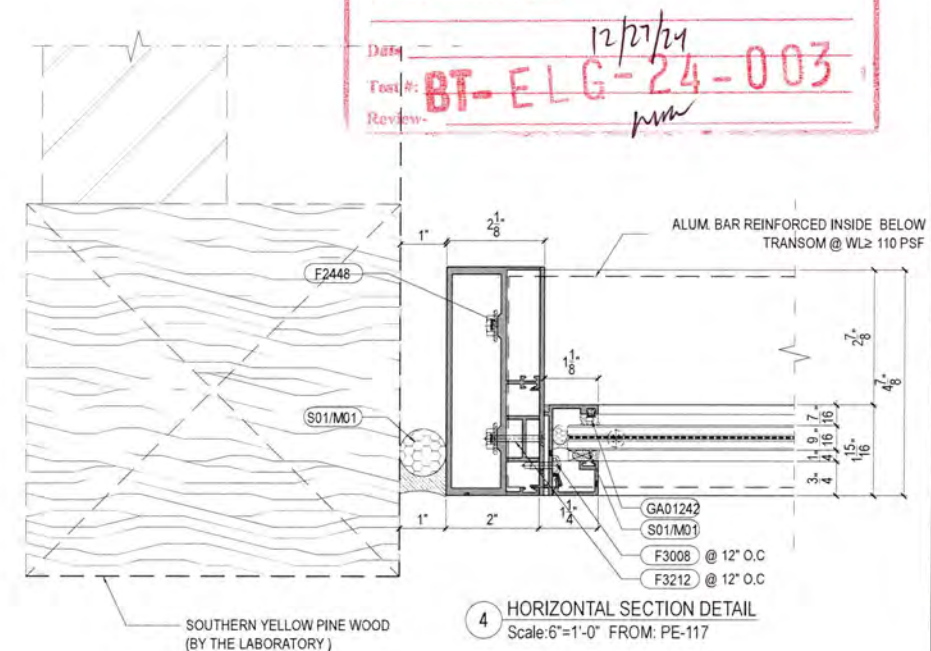
Phase: PMU



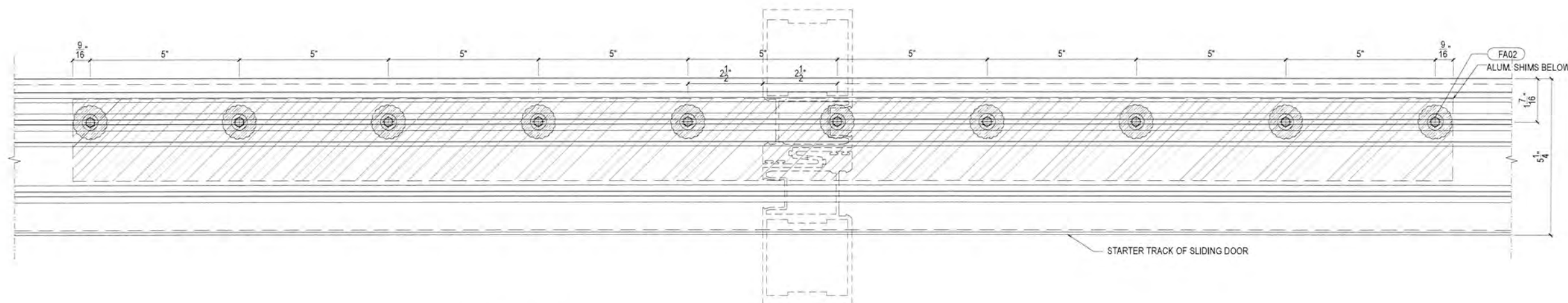
1 HEAD RECEPTOR PLAN DETAIL @ SIDE  
Scale: 6"=1'-0" FROM: PE-117



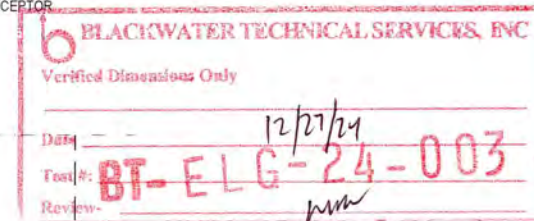
2 STARTER TRACK PLAN DETAIL @ SIDE OF DOOR  
Scale: 6"=1'-0" FROM: PE-117



4 HORIZONTAL SECTION DETAIL  
Scale: 6"=1'-0" FROM: PE-117

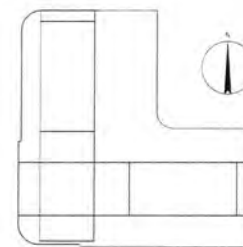


3 STARTER TRACK PLAN DETAIL @ CENTER OF DOOR  
Scale: 6"=1'-0" FROM: PE-117



Job No.: 80028

Key Plan/Elevation:



| No. | Date | Description |
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JDS DEVELOPMENT GROUP  
104 FIFTH AVENUE, 9TH FLR  
NEW YORK, NY 10011  
T: 212.974.2844

Architect:  
SHoP ARCHITECTS, P.C.  
233 BROADWAY, 11TH FLOOR  
NEW YORK, NY 10279  
T: 212.889.9005

Facade Consultant:

Issued By:



ELICC AMERICAS CORPORATION  
13475 DANIELSON ST.  
POWAY, CA 92064  
Tel: (760)-233-0066  
Fax: (760)-233-0065

Approved By:

Checked By:

Design Team:

TESTING SYSTEM:  
ELICC-SGD SYSTEM

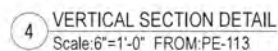
Title:  
STARTER TRACK PLAN DETAIL

Sheet No.: DT-556

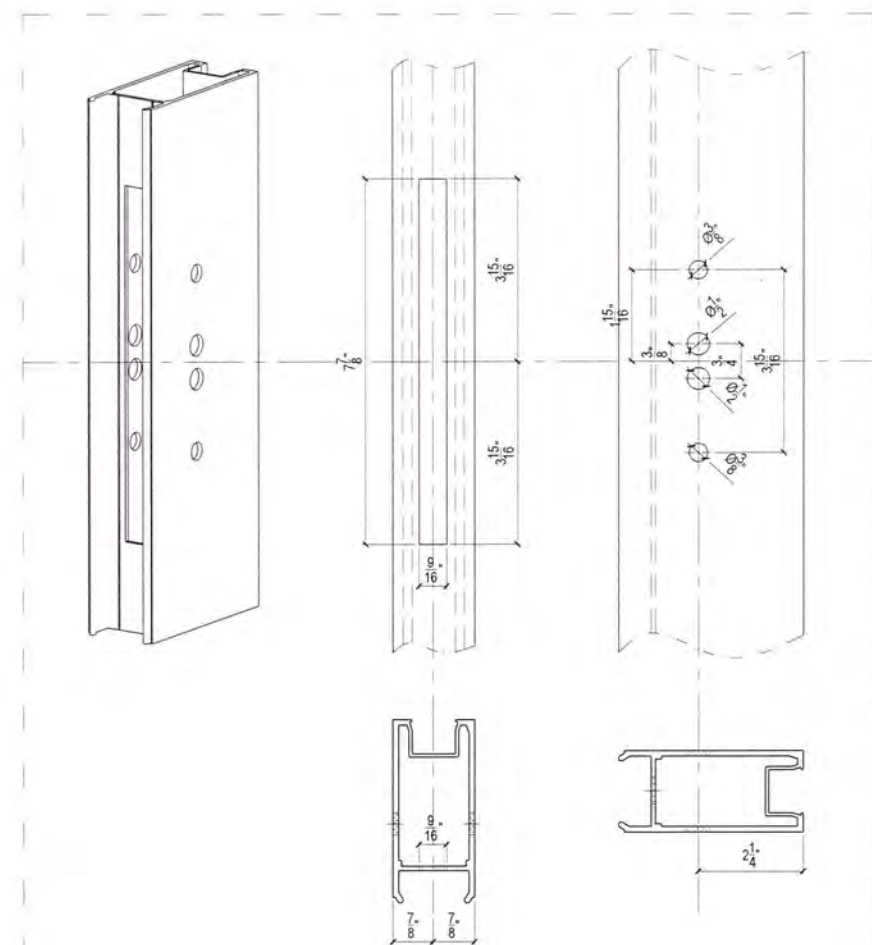
Date: Oct. 29, 2024 Revision No.: -

Scale: 6"=1'-0" Size: 22"x34"

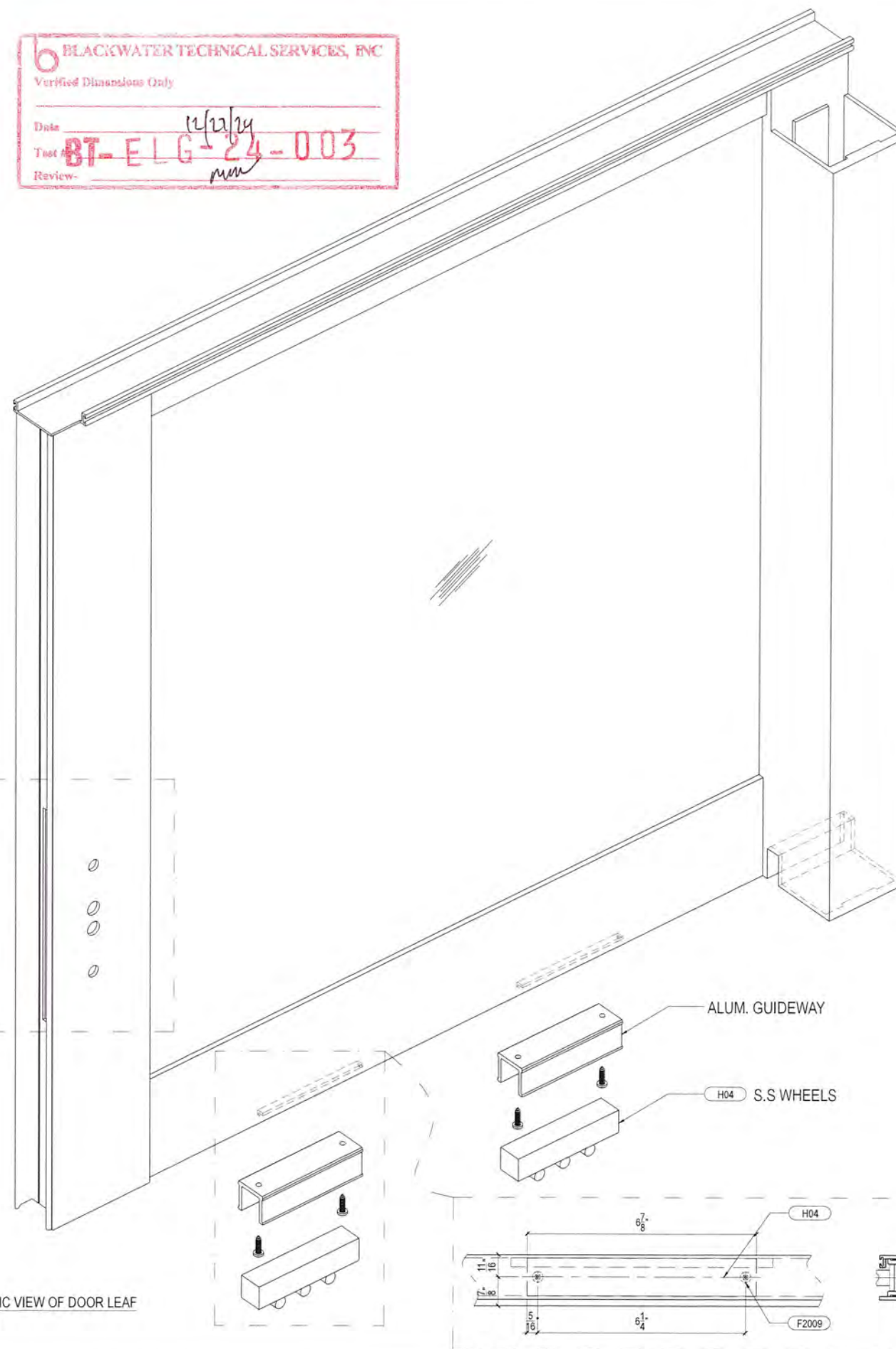
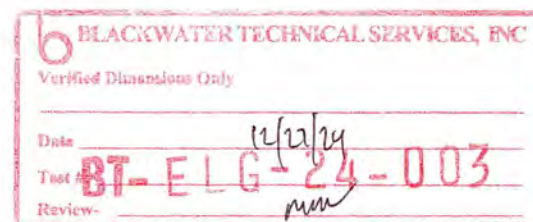
Phase: PMU



Phase: PMU



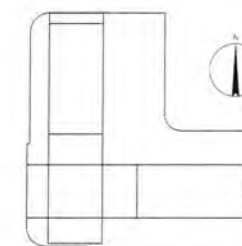
2 FABRICATION INFORMATION FOR HANDLE  
Scale: N.T.S.



1 ISOMETRIC VIEW OF DOOR LEAF  
Scale: N.T.S.

Job No.: 80028

Key Plan/Elevation:



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| No. | Date | Description |

Revisions:

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JDS DEVELOPMENT GROUP  
104 FIFTH AVENUE, 9TH FLR  
NEW YORK, NY 10011  
T: 212.974.2844

Architect:  
SHoP ARCHITECTS, P.C.  
233 BROADWAY, 11TH FLOOR  
NEW YORK, NY 10279  
T:212.889.9005

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ELICC AMERICAS CORPORATION  
13475 DANIELSON ST.  
POWAY, CA 92064  
Tel: (760)-233-0066  
Fax: (760)-233-0065

Approved By:

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Design Team:

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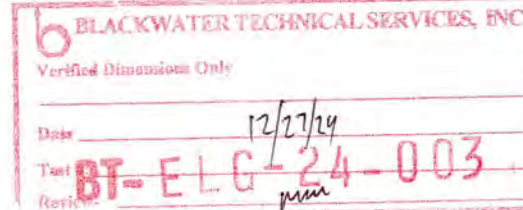
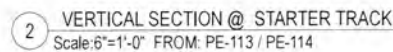
Title: ISOMETRIC VIEW OF DOOR LEAF

Sheet No.: DT-558

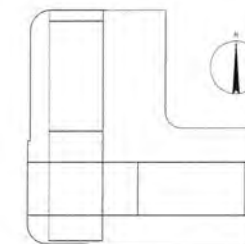
|                     |                 |
|---------------------|-----------------|
| Date: Oct. 29, 2024 | Revision No.: - |
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|-----------------|---------------|
| Scale: 6"=1'-0" | Size: 22"x34" |
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Phase: PMU



Key Plan/Elevation:



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| No. | Date | Description |

Revisions:

Owner:  
JDS DEVELOPMENT GROUP  
104 FIFTH AVENUE, 9TH FLR  
NEW YORK, NY 10011  
T: 212.974.2844

Architect:  
SHoP ARCHITECTS, P.C.  
233 BROADWAY, 11TH FLOOR  
NEW YORK, NY 10279  
T:212.889.9005

Facade Consultant:

Issued By:



ELICC AMERICAS CORPORATION  
13475 DANIELSON ST.  
POWAY, CA 92064  
Tel: (760)-233-0066  
Fax: (760)-233-0065

Approved By:

Checked By:

Design Team:

TESTING SYSTEM:  
ELICC-SGD SYSTEM

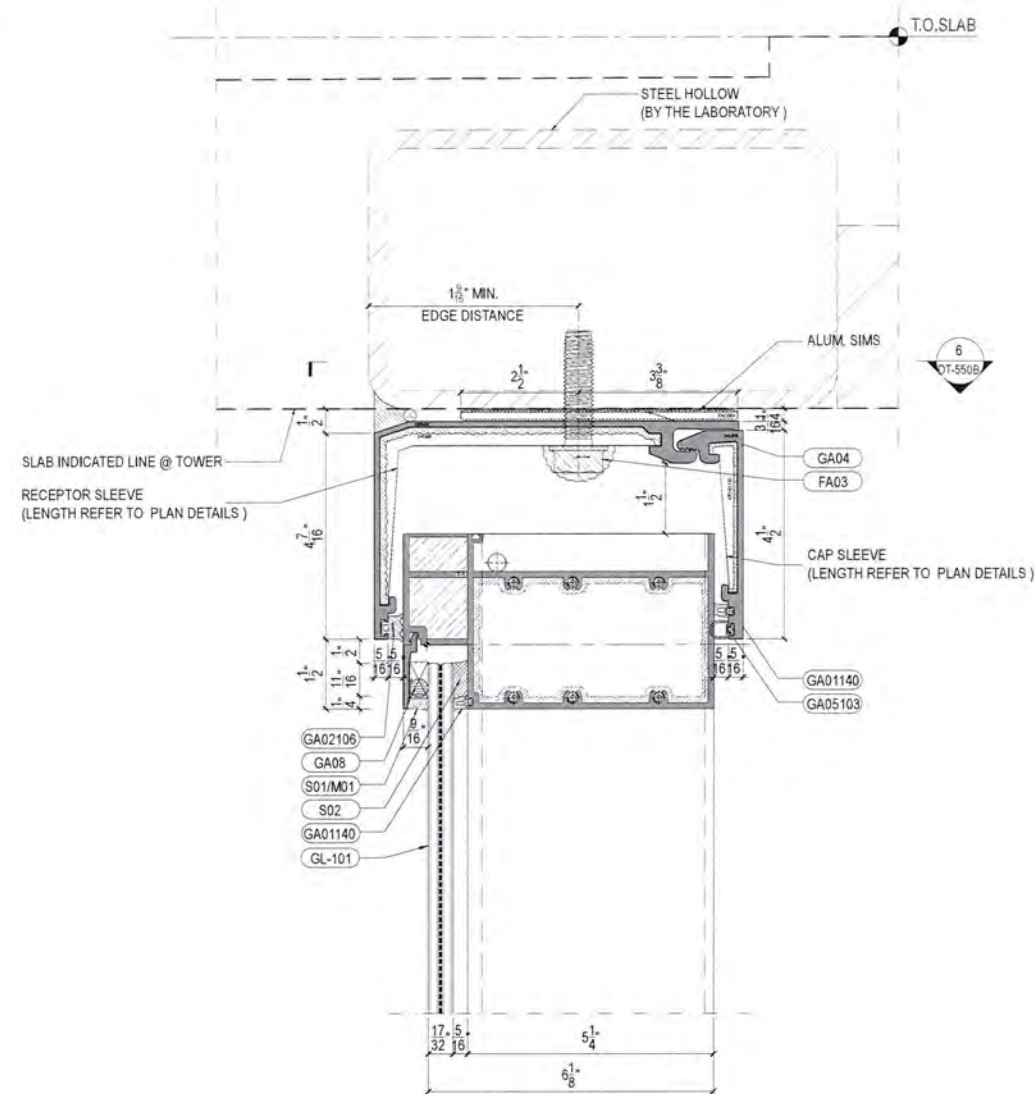
Title: VERTICAL SECTION DETAIL

Sheet No.: DT-559

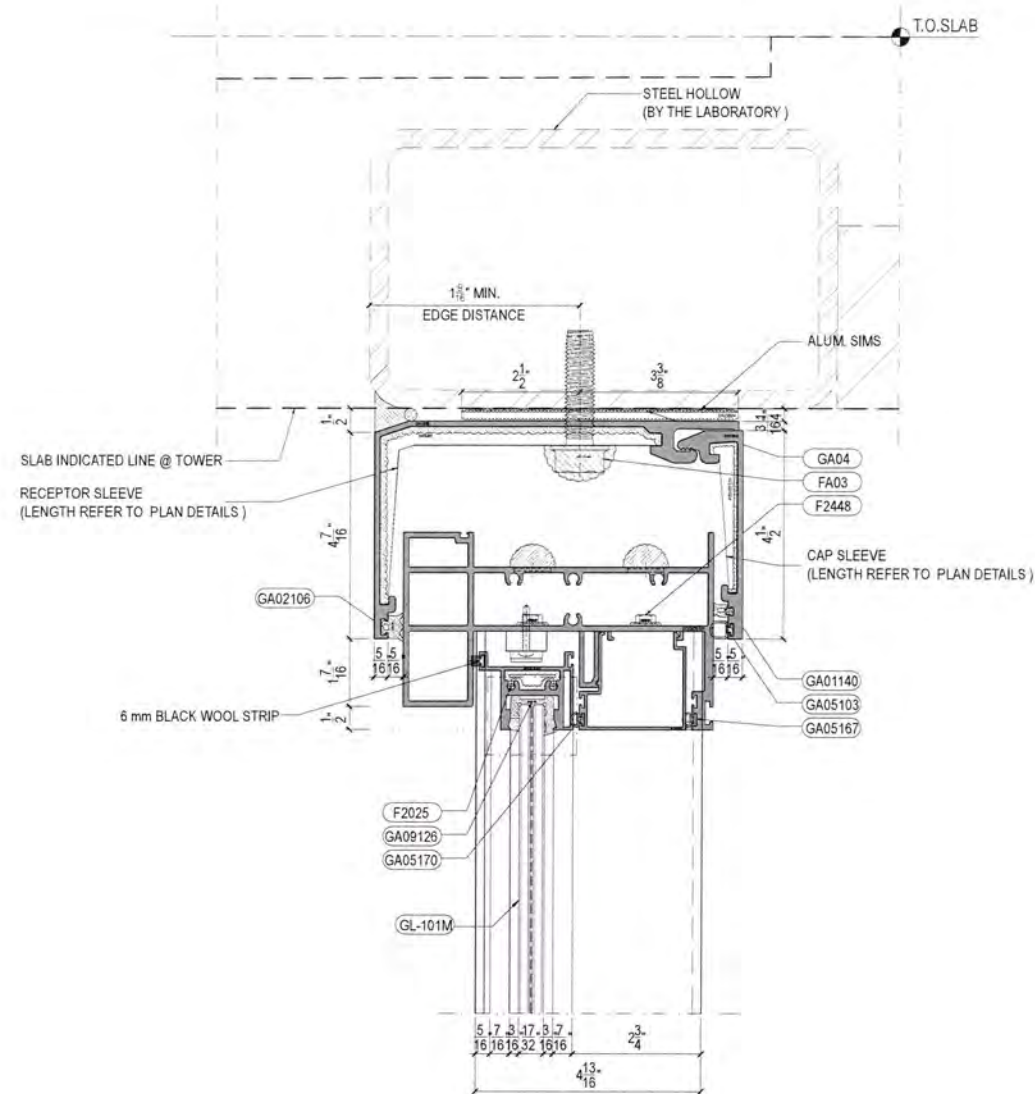
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|---------------------|-----------------|
| Date: Oct. 29, 2024 | Revision No.: - |
|---------------------|-----------------|

Scale: 6"=1'-0"      Size: 22"x34"

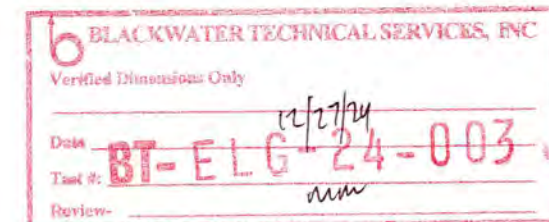
Phase: PMU



1 VERTICAL SECTION @ TOP  
Scale: 6"=1'-0" FROM: PE-114

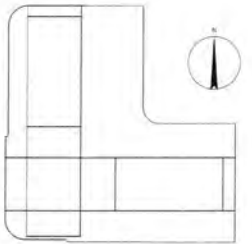


2 VERTICAL SECTION DETAIL  
Scale: 6"=1'-0" FROM: PE-116 / PE-117



Job No.: 80028

Key Plan/Elevation:



| No. | Date | Description |
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JDS DEVELOPMENT GROUP  
104 FIFTH AVENUE, 9TH FLR  
NEW YORK, NY 10011  
T: 212.974.2844

Architect:  
SHoP ARCHITECTS, P.C.  
233 BROADWAY, 11TH FLOOR  
NEW YORK, NY 10279  
T: 212.889.9005

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Issued By:



ELICC AMERICAS CORPORATION  
13475 DANIELSON ST.  
POWAY, CA 92064  
Tel: (760)-233-0066  
Fax: (760)-233-0065

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TESTING SYSTEM:  
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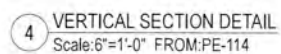
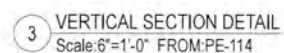
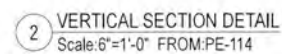
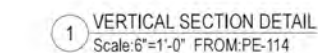
Title:  
VERTICAL SECTION DETAIL

Sheet No.: DT-559B

Date: Oct. 29, 2024 Revision No.: -

Scale: 6"=1'-0" Size: 22"x34"

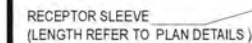
Phase: PMU



6 BLACKWATER TECHNICAL SERVICES, INC.  
Verified Dimensions Only

Date: *12/27/04*  
Test #: **BT-ELG-24-003**  
Review: *mm*

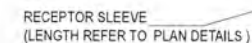
Phase: PMU



1 Scale: 6"=1'-0" FROM: PE-115



2 VERTICAL SECTION DETAIL  
Scale: 6"=1'-0" FROM: PE-115



4 VERTICAL SECTION DETAIL  
Scale: 6"=1'-0" FROM: PE-116 / PE-117



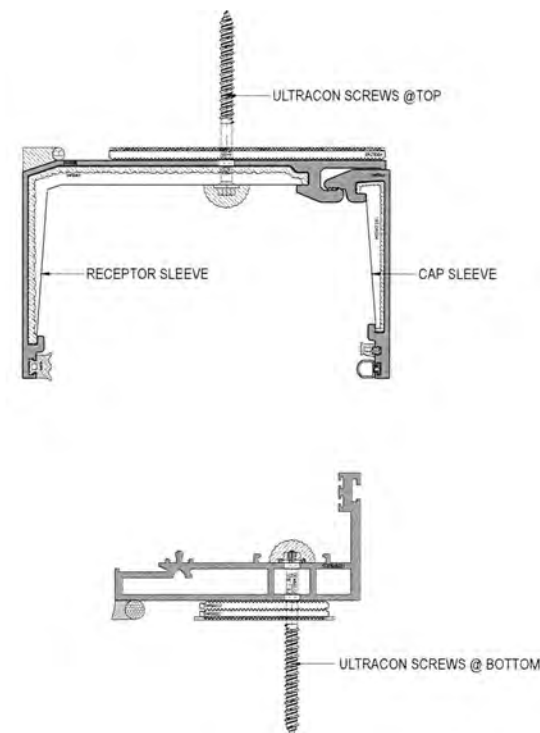
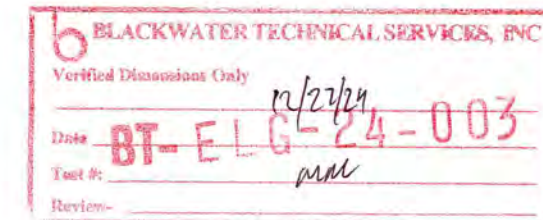
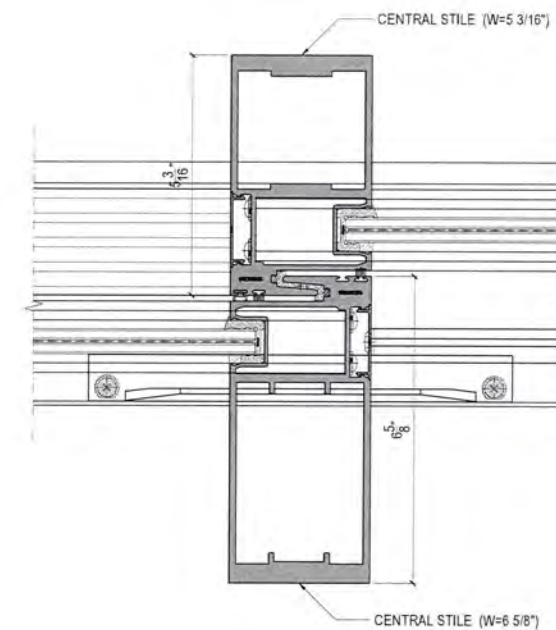
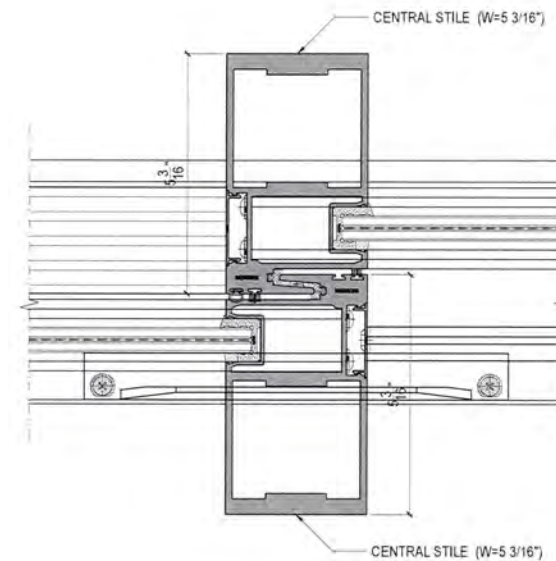
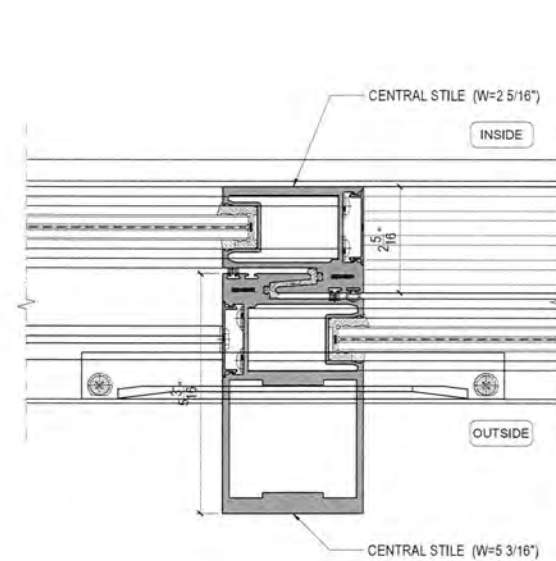
5 VERTICAL SECTION DETAIL  
Scale: 6"=1' 0". FROM: RF 116 / RF 117

| No. | Date | Description |
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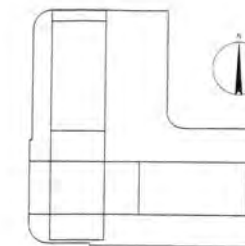
Phase: PMU



| SGD SYSTEM STRUCTURE CALCULATION REQUIREMENT LIST |                                       |                   |                        |                             |                                                 |                                                                 |                             |                             |
|---------------------------------------------------|---------------------------------------|-------------------|------------------------|-----------------------------|-------------------------------------------------|-----------------------------------------------------------------|-----------------------------|-----------------------------|
| UNIT SIZE                                         | TOWER FLOORS                          | WIND LOAD         | CAP SLEEVE LENGTH (mm) | RECEPTOR SLEEVE LENGTH (mm) | QTY OF ULTRACON SCREWS @ TOP OF MULION LOCATION | QTY OF ULTRACON SCREWS @ BOTTOM OF MULION LOCATION (5" SPACING) | OUTSIDE CENTRAL STILE WIDTH | INTSIDE CENTRAL STILE WIDTH |
| 10'-0" Hx4'-0" W                                  | @TYPICAL FLOORS<br>10'-6" FLOOR HEIGH | ≤±110 PSF         | 380                    | 380                         | 8                                               | 5                                                               | 2 5/16"                     | 5 3/16"                     |
|                                                   |                                       | ±110<WL ≤±160 PSF | 550                    | 550                         | 11                                              | 7                                                               | 5 3/16"                     | 5 3/16"                     |
|                                                   |                                       | ±160<WL ≤±205 PSF | 680                    | 680                         | 15                                              | 9                                                               | 5 3/16"                     | 5 3/16"                     |
| 12'-8" Hx4'-0" W                                  | @ LEVEL 36,<br>14'-6" FLOOR HEIGHT    | ≤±110 PSF         | 450                    | 450                         | 10                                              | 6                                                               | 5 3/16"                     | 5 3/16"                     |
|                                                   |                                       | ±110<WL ≤±160 PSF | 650                    | 650                         | 15                                              | 9                                                               | 5 3/16"                     | 6 5/8"                      |
|                                                   |                                       | ±160<WL ≤±175 PSF | 680                    | 680                         | 16                                              | 10                                                              | 5 3/16"                     | 6 5/8"                      |
| 13'-11" Hx4'-0" W                                 | @ LEVEL 47, 14'-6" FLOOR HEIGHT       | ≤±110 PSF         | 480                    | 480                         | 11                                              | 7                                                               | 5 3/16"                     | 6 5/8"                      |
| 9'-5" Hx4'-0" W                                   | @ LEVEL 3-14, 10'-0" FLOOR HEIGHT     | ≤±110 PSF         | 350                    | 350                         | 8                                               | 5                                                               | 2 5/16"                     | 5 3/16"                     |
| 13'-5" Hx4'-0" W                                  | @ LEVEL 15, 14'-0" FLOOR HEIGHT       | ≤±110 PSF         | 480                    | 480                         | 11                                              | 7                                                               | 5 3/16"                     | 6 5/8"                      |
| 11'-3" Hx4'-0" W                                  | @ LEVEL 16, 13'-0" FLOOR HEIGHT       | ≤±110 PSF         | 400                    | 400                         | 9                                               | 6                                                               | 5 3/16"                     | 5 3/16"                     |
| 12'-11" Hx4'-0" W                                 | @ LEVEL 63, 13'-10" FLOOR HEIGHT      | ≤±110 PSF         | 450                    | 450                         | 10                                              | 6                                                               | 5 3/16"                     | 6 5/8"                      |

Job No.: 80028

Key Plan/Elevation:



| No.        | Date | Description |
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104 FIFTH AVENUE, 9TH FLR  
NEW YORK, NY 10011  
T: 212.974.2844

Architect:  
SHoP ARCHITECTS, P.C.  
233 BROADWAY, 11TH FLOOR  
NEW YORK, NY 10279  
T: 212.889.9005

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ELICC AMERICAS CORPORATION  
13475 DANIELSON ST.  
POWAY, CA 92064  
Tel: (760)-233-0066  
Fax: (760)-233-0065

Approved By:

Checked By:

Design Team:

TESTING SYSTEM:  
ELICC-SGD SYSTEM

Title:  
SGD SYSTEM STRUCTURE  
REQUIREMENT LIST

Sheet No.: DT-562

Date: Oct. 29, 2024

Revision No.: -

Scale: 6"=1'-0"

Size: 22"x34"

Phase: PMU