Privacy Windows for Observation Control

Brought to you by:

1-866-466-9525
WWW.PRIVACYGLASSSOLUTIONS.COM
Table of Contents

BetweenGlassBlinds™ Overview ................................................................. 3
Global Coverage & Featured Projects ....................................................... 4
BetweenGlassBlinds™ Products & Options .............................................. 5
  BetweenGlassBlinds™ ................................................................. 6
  Blind Color Option (for manually operated blinds) ............................ 7
  Motorized Units ............................................................................ 8-12
  Specifications ............................................................................... 10-12
Customization Options
  Functional Options ....................................................................... 15
  Framing Options .......................................................................... 16-17
Sample & Ordering
  Applications ................................................................................. 18
  Roving Sample Box .................................................................... 19
  Request a Quote/Order ................................................................. 20
Warranty
  10 Year Warranty ......................................................................... 21
Technical
  Tilt Only CAD Drawings ............................................................... 22-23
  Tilt & Lift CAD Drawings ............................................................. 24-25
  Dual-Control CAD Drawings ......................................................... 26-27
  Visible Light Transmission Report .................................................. 28-35
  STC/DB Ratings Report ............................................................... 36-42
  Installation (Wood Bead) ............................................................... 43
  Installation (Other) ..................................................................... 44
  Care & Cleaning Guidelines .......................................................... 45
  Specifying BetweenGlassBlinds™ .................................................. 46
  Specifications ............................................................................. 47-52
Brought to you by VISTAMATIC®, BetweenGlassBlinds™ is a versatile and stylish product that provides privacy and observation on any scale.

Utilizing the same hand crafted, high quality manufacturing process of the VISTAMATIC® Vision Panel, BetweenGlassBlinds™ is designed to replace a standard integral blind with a modern and maintenance-free privacy window.
BetweenGlassBlinds™ expanded into the Americas, Canada & Caribbean in 2005.

Global Coverage

Featured Projects

New Western Health Center (AL) Connecticut
Children’s Medical (CT) University of Florida Health (FL)
HCA Lake City Hospital (FL)
Florida Hospital Tampa (FL)
University of Georgia Veterinary Hospital (GA)

Memorial Hermann Pavilion, Houston (TX)
Baylor Nursery Room, Dallas (TX)
VA Puget Sound, Seattle (WA)
Lenoir City Middle School, Lenoir City (TN)
Coutyard Marriott, Piqua (HO)
Outpatient Surgical Facility (Ambulatory Surgery Center), Bronx (NY)
BetweenGlassBlinds™ are blinds sealed in-between two sheets of glass as a single, insulated panel that is operable by magnet or remote control.

BetweenGlassBlinds™ standard make-up consists of two 5/32” tempered sheets of glass with a 11/16” air cavity for a total thickness of 1”.

Residential
Commercial
Education
High Security
Healthcare
and more...
An innovative integral blind system, the BetweenGlassBlinds™ product offers a sleek, maintenance-free and customizable observation control window for virtually any application, interior or exterior. To better suit your needs, the magnet can (upon installation) be secured on track provided or removable to restrict accessibility. In addition, to ensure quality and durability, all BetweenGlassBlinds™ are filled to prevent fogging and bowing.

Operable by Magnet
No crankshaft, control knobs or thumb wheels.

Operable by magnet, the BetweenGlassBlinds™ Dual-Control panel provides convenience and usability. Our revolutionary dual operation mechanism adds another level of functionality enabling users to operate our integral blinds from either side; inside or outside of the room.

1-866-466-9525
WWW.PRIVACYGLASSSOLUTIONS.COM
Blind Color Options
for Manually Operated Blinds

- White
- Beige
- Cream
- Rock
- Silver
- Anthracite
- Ticking
- Pearl Bronze
- Dark Coffee
- Black
Blind Specification

1. Slat width: 1/2 inch (12.5mm)
2. Spacer thickness: ¾ inch (20mm)
3. Poly thickness: ¼ inch (6mm)
4. Head rail height: 1-9/16 inch (40mm)
5. Spacer height: 5/16 inch (8mm)
6. Slat only available in colors: White and Silver.
## Blind Specification

### Dimension

#### Capability grid (Inch)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>10~46.99</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>47~58.99</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>59~66.99</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>67~77.99</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>78~86.99</td>
<td>X</td>
<td>X</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>87~97.99</td>
<td>X</td>
<td>X</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>98~105.99</td>
<td>X</td>
<td>X</td>
<td>A</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>106~118</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
Diagram Specification

Single Blind Wiring Diagram

110V AC power in
24V DC power out

Wall switch

Remote

Communication signal

Motor Line

BetweenGlassBlinds
Diagram Specification

Multiple Unit Wiring Diagram

110V AC power in
24V DC power out

Transformer

Remote

Communication signal

Maximum 3 blind units
Diagram Specification

Wiring Diagram

UL certified transformer

120V AC in

24V DC out

Wall switch

24V DC in

Motor in the panel

24V DC in

24V DC out

24V DC out
Control System Specification

Wall Switch Operation Manual

- Single short press, the blinds will tilt up.
- Single long press, the blinds will open.

Stop / Auto
- Single long press, operation converts to auto mode. If installed, blinds will adjust according to sensor reading.

- Single press, the blinds will tilt down.
- Single long press, the blinds will close.
Control System Specification

Remote Operation Manual

1. **Channel Setting**

**Setting:**
- Hold button A and B simultaneously until beam flashes.
- Press button C to static illuminate beam.
- Select button 1 or 2 to change channel. (Do not need to select channel if it is a mono channel remote).
- Press button 3 (beam flashes 3 times).
- Channel “0” can control all wall switches by this remote.

**Break the linkage between wall switch and remote**
- Hold button C and B together until the beam flashes.

2. **Blinds operation with remote**

- Hold button 3 or 4, raise or lower the blinds.
- Hold button 5, stop the blinds.
- Hold key 3 for approx. 2 seconds to tilt the blinds up.
- Hold key 4 for approx. 2 seconds to tilt the blinds down.
BLIND STYLES
Venetian

GLAZING/GLASS
Lead
Fire Rated
*Polycarbonate
Bullet Resistant
Laminated
Tempered Glass / Colored Tempered
*Laser Polymer
*Impact Glass
*LOW-E

FUNCTIONALITY
Tilt Only
Tilt & Lift
Motorized Units

MAGNET PLACEMENT
Right or left side - Top, Center or Bottom
Parallel (Tilt & Lift Option)

*Restrictions apply

1-866-466-9525
WWW.PRIVACYGLASSSOLUTIONS.COM
Applications

Interior & Exterior

Commercial
COMMERCIAL OFFICES, STORE FRONTS, OFFICE BUILDINGS, CONFERENCE ROOMS, BUILDING ENVELOPES, ETC.

Residential
LARGE DOOR PANELS, SCREENS, SLIDING DOORS, FLOOR-TO-CEILING PARTITIONING SYSTEMS, FRONT DOORS, ETC.

High Security Environments
CORRECTIONAL FACILITIES, BANKS, POLICE STATIONS, COURT HOUSES, GOVERNMENT BUILDINGS, MUNICIPALITIES, ETC.

Education
UNIVERSITIES, GRADE SCHOOLS, NURSERIES, ETC.

BetweenGlassBlinds™ can be used in any application where privacy and observation controls are needed

1-866-466-9525
WWW.PRIVACYGLASSSOLUTIONS.COM
Interested in seeing a BetweenGlassBlinds™ Vision Panel in person? If you are interested in implementing BetweenGlassBlinds™ in your next project and would like to see it in person, BetweenGlassBlinds™ sends out a travelling sample box that contains a sample BetweenGlassBlinds™ panel, blind color samples, and some literature for you to review.

Why is it called, “Roving Sample Box?”
Because it’s an eco-friendly, travelling sample box that travels from client to client.

Request the Roving Sample Box

Call us at 1-866-466-9525
OR
Scan or click the QR code on the left to send us an e-mail with your information.

WWW.PRIVACYGLASSSOLUTIONS.COM

1-866-466-9525
E-MAIL US!

QuoteMe@privacyglasssolutions.com

Simply e-mail us to request a call back or with information of the product and options you would like quoted.
10 Year Warranty
Against Faulty Manufacturing

During a period of ten (10) years from the date of manufacturing of BetweenGlassBlinds product, is warranted to be free from significant defects in material or workmanship. This warranty extends only to the original purchaser of the product(s) covered by the Warranty and is non-transferable. This Warranty is only effective if installation of the product(s) is completed in exact accordance with BetweenGlassBlinds instructions and/or specifications.

Terms and Conditions

The obligations of BetweenGlassBlinds under this warranty are limited to the replacement of the product(s) or the defective parts of the product(s). BetweenGlassBlinds is responsible to replace the defective parts only and is not liable for any expenses involved in the removal of defective parts, installation of replacement parts, or any other incidental or consequential damages related thereto. BetweenGlassBlinds reserves the right to determine whether or not a defect exists for which it is responsible under this Warranty. During the first five years following the purchase date, warranty coverage is 100% of the replaced product. During the sixth & seventh year following the purchase date, warranty coverage is 50% of the replaced product. During the eighth - tenth year following the purchase date, warranty coverage is 25% of the replaced product. This Warranty is the only Warranty extended and is the purchaser’s sole and exclusive remedy. Warranty claims must be filed with thirty (30) days of the product failure or purchaser’s right to file such warranty claim shall be waived. Purchaser understands and agrees that under no circumstances shall BetweenGlassBlinds be liable for any remedy other than those expressly set forth herein and that BetweenGlassBlinds shall not be responsible for any consequential, incidental, economic, direct, indirect, general and special or punitive damages arising hereunder, out of any cause whatsoever. In the event any other terms herein is found to be unconscionable or unenforceable, the waiver hereunder of consequential, incidental and other damages shall remain in full force and effect.
CAD Drawings - Tilt only

Front Iso View

Back Iso View

Detail A
Scale=5:1

5/8"
The following test results indicate that the Aluminum Blind Window is an ideal solution for creating a blackout effect where little to no light is transmitted through the window. In addition, the Aluminum Blind Window report shows that little to no UV rays are able to penetrate if exposed.
Visible Transmission Test Report

Using the HUNTER CQ-XE

Analyzed for: VISTAMATIC  Work Order # 15905  Measurement Date 8/15/2014
Test Report Date 8/19/2014

Sample Information

<table>
<thead>
<tr>
<th>Sample</th>
<th>Sample Description</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Aluminum blind window</td>
<td>Between Glass Blinds</td>
</tr>
</tbody>
</table>

Transmission Results

Number of Specimens Analyzed: Four, each scanned at 5 locations; measurements 400 – 700 nm on each sample.

<table>
<thead>
<tr>
<th>Visible Light Transmission Results</th>
<th>Average (Tv)</th>
<th>Standard Deviation:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 All 5 locations T &lt; 0.9% , 4 locations &lt; 0.25% Relative</td>
<td>0.26%</td>
<td>.31</td>
</tr>
<tr>
<td>One location (with holes) had the higher transmission, each mode Average Transmissions without outliers:</td>
<td>0.15%</td>
<td>0.06%</td>
</tr>
<tr>
<td>All 5 locations T &lt; 2.1% , 4 locations &lt; 0.13% Total</td>
<td>0.44%</td>
<td>.82</td>
</tr>
</tbody>
</table>

Measurement process: The spectrophotometer was warmed-up for a minimum of 30 min. The apparatus was then standardized for the specific mode of operation, Relative Transmission, or Total Transmission. Each sample was set into the spectrophotometer and scanned according to the standard procedure.

Measurements recorded by: [Signature]  Report Date: August 19, 2014  Rev 2.0

WWW.PRIVACYGLASSSOLUTIONS.COM
The measurements have been performed in order to demonstrate the light transmission properties in two ways, **Relative** and **Total**.

The **Relative** transmission is approximately the visible light transmission that will be provided when the observer is close to the sample and the source is more distant.

The **Total** transmission is approximately the visible light transmission that will be provided when the source is close to the sample and the observer is more distant.

**Review of Results**

These samples of combined glass/shade materials provide different levels of transmission of visible light. The Black vinyl transmits only a very small amount of light. The Aluminum blind 'Between Glass Blinds' sample had a low light transmission, although, light can leak through the holes in the blinds, shifting upward the average when that location is included.

**Summary of Relative Transmission Averages**

<table>
<thead>
<tr>
<th>Between Glass Blinds</th>
<th>Avg. w/o outlier</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.255</td>
</tr>
</tbody>
</table>

**Summary of Total Transmission Averages**

<table>
<thead>
<tr>
<th>Between Glass Blinds</th>
<th>Avg. w/o outlier</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.441</td>
</tr>
</tbody>
</table>
Spectral Charts

**RELATIVE VISIBLE Transmission Samples:**

- VMAT1-3
- VMAT1-5
- VMAT1-4
- VMAT1- AVG
- VMAT1-2
- VMAT1-1

**TOTAL VISIBLE Transmission Samples:**

- VMAT-T1-3
- VMAT-T1-5
- VMAT-T1-4
- VMAT-T1- AVG
- VMAT-T1-2
- VMAT-T1-1

Measurements recorded by:  
Report Date: August 19, 2014  
Rev 2.0
Ultraviolet Transmission Test Report

Using the LabSphere UV-1000F

<table>
<thead>
<tr>
<th>Analyzed for: VISTAMATIC</th>
<th>Work Order # 15905</th>
<th>Measurement Date 8/15/2014</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Test Report Date 8/18/2014</td>
</tr>
</tbody>
</table>

Sample Information

<table>
<thead>
<tr>
<th>Sample</th>
<th>Sample Description</th>
<th>A Side</th>
<th>B Side</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Aluminum blind window</td>
<td>Between Glass Blinds</td>
<td></td>
</tr>
</tbody>
</table>

Transmission Results

Number of Specimens Analyzed: Four, each side scanned at 4 locations; measurements 250 – 450 nm on each sample.

<table>
<thead>
<tr>
<th>Sample</th>
<th>Side</th>
<th>Results :</th>
<th>Average (ABS(Ti))</th>
<th>Standard Deviation:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>All 4 locations T &lt; 0.3%</td>
<td>0.3%</td>
<td>.049</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>3 of 4 locations T &lt; 0.2% one leaked light at = 0.5%</td>
<td>0.16%</td>
<td>.291</td>
</tr>
</tbody>
</table>

Measurements recorded by: Report Date: August 19, 2014  Rev 2.0
Review of Results

These samples of combined glass / shade materials provide different levels of protection against solar ultraviolet radiation (UVR).

Samples 1, provide a high degree of UV blocking; the presence of individual sample light leaking for one location each in sample1 is likely an artifact of the thickness of the test sample.

The results in this report are applicable to the sample tested and may not apply to other batches of the same material or similar materials. It is a condition of the provision of these test results that you do not use the name of the Test Lab, Solar Light, or any words, marks or devices which may imply a connection with Solar Light, in connection with the promotion or sale of your products, unless Solar Light has given express written authority to do so. This test report may only be reproduced in full and without alteration.

<table>
<thead>
<tr>
<th>Work Order#</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Date of measurement</td>
<td></td>
</tr>
<tr>
<td>Engineer</td>
<td>Drew Hmiel</td>
</tr>
<tr>
<td>Measurement System</td>
<td>UV-1000F</td>
</tr>
<tr>
<td>Laboratory Conditions</td>
<td></td>
</tr>
<tr>
<td>Temperature</td>
<td>27.5°C</td>
</tr>
<tr>
<td>Humidity</td>
<td>30.1%</td>
</tr>
</tbody>
</table>

Statistical Uncertainties
Total Measurement Uncertainty:
Coverage Factor (99% confidence):
The maximum instrumental contribution to the uncertainty in the transmittance values T(%) used to calculate the results is 0.3 at the 99% confidence level.
APPENDIX

Sample 1A

Measurements recorded by: __________________________  Report Date: August 19, 2014  Rev 2.0
Sample 1B
The following test results indicate that the BetweenGlassBlinds with Magnetic Operation has an STC rating of 39. The BetweenGlassBlinds Panel tested was constructed as such: sheet of 5/32 inch tempered glass, airspace of .72 inch, and 1/2 inch laminated sheet of glass.

The overall dimension of the BetweenGlassBlinds Panel tested was 47.75 inches wide, by 47.75 inches high, and 1.38 inch thick.

Conclusion:
Considering the thinness of the BetweenGlassBlinds Panel, the STC rating of 39 is arguably a better rating than other integral blind options on the market.

If a higher STC rating is required, it is recommended to request thicker laminated glass on both sides of the Panel.
FOR: Vistamatric
Coral Springs, FL.

CONDUCTED: 2014-09-12

ON: BetweenGlassBlinds™ with Magnetic Operation (5/32 in. Tempered / Airspace / 1/2 in. Laminated)

TEST METHOD

Unless otherwise designated, the measurements reported below were made with all facilities and procedures in explicit conformity with the ASTM Designations E90-09 and E413-10, as well as other pertinent standards. Riverbank Acoustical Laboratories has been accredited by the U.S. Department of Commerce, National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP) for this test procedure (NVLAP Lab Code: 100227-0). A description of the measuring technique is available separately.

DESCRIPTION OF THE SPECIMEN

The manufacturer's designation of the specimen was as follows: BetweenGlassBlinds™ with Magnetic Operation (5/32 in. Tempered / Airspace / 1/2 in. Laminated). A visual inspection verified the manufacturer's description of the specimen, further disclosing a non-operable window unit. As measured with a laser glass thickness gauge, the insulated glazing consisted of (source side) a 4.06 mm (0.16 in.) tempered glazing, a 18.29 mm (0.72 in.) airspace, and a 11.94 mm (0.47 in.) laminated glazing (receive side). The internal blinds were closed during this test.

The overall dimensions of the specimen as measured were nominally 1.21 m (47.75 in.) wide by 1.21 m (47.75 in.) high and 34.92 mm (1.38 in.) thick. The specimen was tested in the 1.22 m (4.0 ft.) by 2.44 m (8.0 ft.) test opening. A substantial filler wall was used in the remaining open area. Both the filler wall and test specimen were sealed on the periphery (both sides) with dense mastic. The transmission area used in the calculations was 1.5 m² (16.0 ft²). The weight of the specimen as measured was 61.9 kg (136.5 lbs.), an average of 42.1 kg/m² (8.6 lbs/ft²).

The source and receive reverberation room volumes were 178 m³ (6,298 ft³) and 133 m³ (4,701 ft³), respectively. The source room temperature at the time of the test was 22±0°C (72±0°F) and 51±1% relative humidity. The receiving room temperature at the time of the test was 23±0°C (73±0°F) and 53±1% relative humidity.
Figure 1 - Specimen mounted in the test frame.

Figure 2 - Detail of test specimen.
TEST RESULTS

Sound transmission loss values are tabulated at the eighteen standard frequencies. A graphic presentation of the data and additional information appear on the following pages. The precision of the TL test data is within the limits set by the ASTM Standard E90-09.

<table>
<thead>
<tr>
<th>FREQ.</th>
<th>T.L.</th>
<th>C.L.</th>
<th>DEF.</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>29</td>
<td>0.67</td>
<td></td>
</tr>
<tr>
<td>125</td>
<td>21</td>
<td>0.74</td>
<td>2</td>
</tr>
<tr>
<td>160</td>
<td>28</td>
<td>0.72</td>
<td></td>
</tr>
<tr>
<td>200</td>
<td>26</td>
<td>0.44</td>
<td>3</td>
</tr>
<tr>
<td>250</td>
<td>31</td>
<td>0.55</td>
<td>1</td>
</tr>
<tr>
<td>315</td>
<td>33</td>
<td>0.47</td>
<td>2</td>
</tr>
<tr>
<td>400</td>
<td>33</td>
<td>0.40</td>
<td>5</td>
</tr>
<tr>
<td>500</td>
<td>32</td>
<td>0.31</td>
<td>7</td>
</tr>
<tr>
<td>630</td>
<td>35</td>
<td>0.28</td>
<td>5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FREQ.</th>
<th>T.L.</th>
<th>C.L.</th>
<th>DEF.</th>
</tr>
</thead>
<tbody>
<tr>
<td>800</td>
<td>38</td>
<td>0.18</td>
<td>3</td>
</tr>
<tr>
<td>1000</td>
<td>40</td>
<td>0.14</td>
<td>2</td>
</tr>
<tr>
<td>1250</td>
<td>41</td>
<td>0.16</td>
<td>2</td>
</tr>
<tr>
<td>1600</td>
<td>45</td>
<td>0.09</td>
<td></td>
</tr>
<tr>
<td>2000</td>
<td>48</td>
<td>0.10</td>
<td></td>
</tr>
<tr>
<td>2500</td>
<td>49</td>
<td>0.08</td>
<td></td>
</tr>
<tr>
<td>3150</td>
<td>45</td>
<td>0.11</td>
<td></td>
</tr>
<tr>
<td>4000</td>
<td>49</td>
<td>0.10</td>
<td></td>
</tr>
<tr>
<td>5000</td>
<td>53</td>
<td>0.06</td>
<td></td>
</tr>
</tbody>
</table>

STC=39

ABBREVIATION INDEX

FREQ. = FREQUENCY, Hertz, (cps)
T.L. = TRANSMISSION LOSS, dBA
C.L. = UNCERTAINTY IN dB, FOR A 95% CONFIDENCE LIMIT
DEF. = DEFICIENCIES, dB<STC CONTOUR (SUM OF DEF = 32)
STC = SOUND TRANSMISSION CLASS

Tested by _________________________________
Marc Sciaky
Experimentalist

Report by _________________________________
Chris Nottoli
Acoustician

Approved by _______________________________
Eric P. Wolfram
Laboratory Manager
SOUND TRANSMISSION REPORT
BetweenGlassBlinds™ with Magnetic Operation (5/32 in. Tempered / Airspace / 1/2 in. Laminated)

STC = 39
OITC = 32

TRANSMISSION LOSS
SOUND TRANSMISSION LOSS CONTOUR

RAL IS ACCREDITED BY THE US DEPARTMENT OF COMMERCE, NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM FOR SPECIFIC ACOUSTICAL TEST METHODS. THE LABORATORY'S ACCREDITATION OR ANY OF ITS TEST REPORTS IN NO WAY CONSTITUTES OR IMPLIES PRODUCT CERTIFICATION, APPROVAL OR ENDORSEMENT BY NIST OR RAL.

THIS REPORT SHALL NOT BE MODIFIED OR PARTIALLY REPRODUCED WITHOUT THE WRITTEN APPROVAL OF RAL.

THE RESULTS REPORTED APPLY ONLY TO THE SPECIFIC SAMPLE SUBMITTED FOR MEASUREMENT; RAL ASSUMES NO RESPONSIBILITY FOR THE PERFORMANCE OF ANY OTHER SPECIMEN.
Appendix A to ASTM E90 Sound Transmission Loss Test
OITC Determination (Outdoor Indoor Transmission Class)

Product Description: BetweenGlassBlinds™ with Magnetic Operation (5/32 in. Tempered / Airspace / 1/2 in. Laminated) (See full report)

CLASSIFICATION

Unless otherwise designated, the Outdoor Indoor Transmission Class (OITC) determination as reported below was made with explicit conformity to the procedures described in the ASTM E1332-10a test standard. Test Method ASTM E90-09 was used to obtain the sound transmission loss data. This rating is based on an average transportation noise source spectrum and an A weighted sound level reduction, either of which may be inappropriate for some applications.

<table>
<thead>
<tr>
<th>One-third Octave Band Center Frequency, Hz</th>
<th>Reference Sound Spectrum, dB</th>
<th>Test Specimen Transmission Loss, dB</th>
</tr>
</thead>
<tbody>
<tr>
<td>80</td>
<td>103</td>
<td>21</td>
</tr>
<tr>
<td>100</td>
<td>102</td>
<td>29</td>
</tr>
<tr>
<td>125</td>
<td>101</td>
<td>21</td>
</tr>
<tr>
<td>160</td>
<td>98</td>
<td>28</td>
</tr>
<tr>
<td>200</td>
<td>97</td>
<td>26</td>
</tr>
<tr>
<td>250</td>
<td>95</td>
<td>31</td>
</tr>
<tr>
<td>315</td>
<td>94</td>
<td>33</td>
</tr>
<tr>
<td>400</td>
<td>93</td>
<td>33</td>
</tr>
<tr>
<td>500</td>
<td>93</td>
<td>32</td>
</tr>
<tr>
<td>630</td>
<td>91</td>
<td>35</td>
</tr>
<tr>
<td>800</td>
<td>90</td>
<td>38</td>
</tr>
<tr>
<td>1000</td>
<td>89</td>
<td>40</td>
</tr>
<tr>
<td>1250</td>
<td>89</td>
<td>41</td>
</tr>
<tr>
<td>1600</td>
<td>88</td>
<td>45</td>
</tr>
<tr>
<td>2000</td>
<td>88</td>
<td>48</td>
</tr>
<tr>
<td>2500</td>
<td>87</td>
<td>49</td>
</tr>
<tr>
<td>3150</td>
<td>85</td>
<td>45</td>
</tr>
<tr>
<td>4000</td>
<td>84</td>
<td>49</td>
</tr>
</tbody>
</table>

\[ \text{OITC} = 32 \]
Appendix to ASTM E90 Sound Transmission Loss Test

Extended Frequency Range Data

Product Description: BetweenGlassBlinds™ with Magnetic Operation (5/32 in. Tempered / Airspace / 1/2 in. Laminated) (See Full Report)

As requested by the client, transmission loss (TL) values were calculated at additional test frequencies. Although the measurements were made in accordance with the procedures described in ASTM E90-09, they do not qualify as part of the standard. Since the results are representative of the test environment only, they are unofficial and intended for research and development guidelines rather than for commercial purposes. The transmission loss values at the additional frequencies were as follows:

**RAL™-TL14-331**

<table>
<thead>
<tr>
<th>1/3 Octave Center Frequency</th>
<th>Sound Transmission Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Hz)</td>
<td>(dB)</td>
</tr>
<tr>
<td>40</td>
<td>14</td>
</tr>
<tr>
<td>50</td>
<td>25</td>
</tr>
<tr>
<td>63</td>
<td>22</td>
</tr>
<tr>
<td>80</td>
<td>21</td>
</tr>
<tr>
<td>6300</td>
<td>58</td>
</tr>
<tr>
<td>8000</td>
<td>59</td>
</tr>
<tr>
<td>10000</td>
<td>60</td>
</tr>
</tbody>
</table>

END
Wood Bead Fitting Instructions

Pre-Installation Fitting Check

- The panel is the correct size to the order placed.
- The aperture is 1/8” overall larger than the panel as it should not be a tight fit. When sizing the opening, it is the same as you would for a single piece of glass just a different thickness.

Installation Instructions

1. Fit the hardwood fixing beads to one side of the opening. This can be achieved by screwing or nailing (which ever is suitable for the project). Fit intumescent material if required for fire rated door.

2. Offer the panel into the opening and use packing wedges to ensure that the panel is sitting square in the opening.

3. Place the Magnet and holding Strip on to the panel.

4. Fit the hardwood fixing beads to the reverse side of the opening either vertically or horizontally, depending on where the magnet is placed, and check that the panel is functioning correctly. When you are sure that all is correct, fit the other fixing beads in the same way.

5. Required 5/8” (no more or less) bite/stop in order to properly fit and operate magnet.

*Note that each magnet runner adds a 1/16” to the width unit.
Instructions for Hollow Metal Frames/Borrowed Light
Supplied by VISTAMATIC® BetweenGlassBlinds™

For Hollow Metal Frame/Borrowed Light fitting, please follow instructions supplied from the manufacturer as they vary from each source.

Pre-Installation Fitting Check

• The panel is the correct size to the order placed.
• The aperture is 1/8” overall larger than the panel as it should not be a tight fit. When sizing the opening, it is the same as you would for a single piece of glass just a different thickness.

Installation Instructions

1. Fit the Hollow Metal Frame to one side of the opening - this can be achieved by screwing or nailing, whichever is suitable for the project. Fit intumescent material, if required fire rated door.

2. Place the Magnet and holding Strip onto the panel.

3. Fit the fixing screws top and bottom, first and check that the panel is functioning correctly. When you are sure that all is correct, fit the side fixing beads in the same way.

4. Required 5/8” (no more or less) bite/stop in order to properly fit and operate magnet.

Note: For fitting in other framing solutions, such as Aluminium, Store Fronts, Curtain Walls, etc., size the opening and panel as you would a normal piece of glass that is a minimum of 1” (depending on glass used).
Care & Cleaning Guidelines

DOs
• Clean with non-abrasive glass cleaners, mild soaps or detergents diluted with water to clean the glass.
• Clean using a soft cloth or synthetic window leather.
• Use a squeegee or soft cloth for drying glass.

DO NOTs
• Do not use brushes or cleaning tools with sharp edges anywhere on the Vision Panel(s).
• Do not lay on side or face down, always keep in upright position.
To correctly specify BetweenGlassBlinds™ products, in design details, working drawings, specifications and Bills of Quantities.

BetweenGlassBlinds™ is a registered Trade Mark in the United Kingdom, United States of America and the European Union at large.

When specifying products from the BetweenGlassBlinds™ range, please observe the following guidelines in order to comply with the statutory regulations governing the use of a Trade Mark registered in the United Kingdom, United States of America and the European Union at large.

1. BetweenGlassBlinds™ should be distinguished as a brand from the surrounding text, by the use of capital letters.

2. The ® or ™ symbol should be used in the first instance after the word BetweenGlassBlinds in every occurrence it is used in any given piece of literature, article or other text. This symbol lets consumers know that BetweenGlassBlinds™ is a trade mark.

3. BetweenGlassBlinds™ is not a ‘generic’ name or term for a secure vision panel, but is the brand name for a range of specific secure vision panels by the U.S.A manufacturer BetweenGlassBlinds, LLC.

4. The BetweenGlassBlinds™ name should never be used in association or conjunction with any competitor or manufacturer of similar products. Doing so may damage the goodwill and reputation of the BetweenGlassBlinds™ brand and range of products, as well as diluting the registered rights in the mark. This will result in the misrepresentation of the BetweenGlassBlinds™ trade mark.

5. It should be acknowledged in any piece of literature, article, specification or other text featuring the mark, that BetweenGlassBlinds™ is a trade mark of BetweenGlassBlinds Limited.

6. BetweenGlassBlinds™ should not be used in any sense which suggests that it is a generic term and not a trade mark of BetweenGlassBlinds Limited. The trade mark should not be used as a noun or verb. For example, one should always refer to BetweenGlassBlinds™ vision panels and not Between Glass Blind.

7. BetweenGlassBlinds™ should not be used to describe the products of parties other than BetweenGlassBlinds LLC. In particular, wording of the type “this is a BetweenGlassBlinds type integral blind” must not be used.
SECTION 08 8836
INTEGRATED GLASS AND BLIND ASSEMBLIES

** NOTE TO SPECIFIER ** This master specification section has been prepared by Vistamatic, LLC for use in the preparation of a project specification section covering switchable privacy glass. This specification is a part of the SpexPlus™ system, which comprises a fully architectural master specification that can be used to specify all project requirements.

The following should be noted in using this specification:

- Hypertext links to specific websites are included after manufacturer names and names of organizations whose standards are referenced within the text, to assist in product selection and further research. Hypertext links are contained in parenthesis and shown in blue., e.g: (www.spexplus.net)
- Optional text requiring a selection by the user is enclosed within brackets, e.g. “Section [09 0000.] [_____]”
- Items requiring user input are enclosed within brackets, e.g. “Section [_____—_____]”
- Optional paragraphs are separated by an “OR” statement, e.g.:

  ****OR****

- Sustainable requirements are included for projects requiring LEED certification, and are included as green text.
  For additional information on LEED, visit the U.S. Green Building Council website at www.USGBC.org.

For assistance on the use of the products in this section, contact BetweenGlassBlinds, LLC by calling 1-866-466-9525, by e-mail at sales@betweenglassblinds.com or visit their website at www.BetweenGlassBlinds.com.

For assistance with obtaining or using the SpexPlus™ Master Specification System, contact SpexPlus by calling 1-888-877-SPEX (1-88-877-7739), by e-mail at chaney@spexplus.net, or visit the website at www.SpexPlus.net.

PART 1 GENERAL

1.1 SUMMARY

Edit the following paragraphs to include only those items specified in this section.

A. Section includes:
   1. Insulated glass assemblies with integral [horizontal louver blinds.] [pleated shades.]

   Coordinate the following paragraphs with other sections in the project manual.

B. Related Sections:
   1. Division 01: Administrative, procedural, and temporary work requirements.
   2. Section [06 4600 - Wood Trim][___ ___ - _______]: Wood frames to receive integrated glass and blind assemblies.
3. Section [08 1113 - Hollow Metal Doors and Frames][__ ____ - _______]: Steel doors and frames to receive integrated glass and blind assemblies.
4. Section [08 1116 - Aluminum Doors and Frames][__ ____ - _______]: Aluminum doors and frames to receive integrated glass and blind assemblies.
5. Section [08 1416 - Flush Wood Doors] [08 1433 - Stile and Rail Wood Doors][__ ____ - _______]: Wood doors to receive integrated glass and blind assemblies.
6. Section [08 1513 - Laminated Plastic Doors][__ ____ - _______]: Laminated plastic doors to receive integrated glass and blind assemblies.
7. Section [08 8000 - Glazing][__ ____ - _______]: Glazing accessories.

In the following paragraphs, retain only those reference standards that are used elsewhere in this section.

A. ASTM International (ASTM) (www.astm.com):
D. National Glass Association (NGA) (www.glass.org) - Certified Installer Program.

1.3 SUBMITTALS
Limiting submittals to only those actually required helps to minimize liability arising from the review of submittals. Minimize submittals on smaller, less complex projects. Include the following for submission of shop drawings, product data, and samples for the Architect’s review.

A. Submittals for Review:
   1. Shop Drawings: Include elevations and details showing joint locations, transitions, and terminations, and anchoring details.
   2. Product Data: Include preparation instructions and recommendations, Storage and handling require Elements, and installation methods.
   3. Samples: Manufacturer’s sample box showing available colors.

Include the following for submission of quality control submittals. These submittals are intended for the Owner’s record purposes and are not intended to be reviewed by the Architect.

B. Quality Control Submittals:
   1. Certificates of Compliance: Manufacturer’s certification that products furnished comply with specified requirements.
Include the following for submission of sustainable design submittals for LEED Regional Materials credit. Verify with BetweenGlassBlinds, LLC that distance from manufacturing location to project site is within required 500 mile radius.


1. QUALITY ASSURANCE

A. Obtain integrated glass and blind assemblies from single manufacturer.
The following paragraph specifies a minimum level of experience required of the parties performing the work of this section. Retain if required, and edit to suit project requirements.

B. Insulated Glass Manufacturer Qualifications: Qualified insulating glass manufacturer, approved [and certified] by integrated glass and blind assembly manufacturer.

C. Installer Qualifications:
   1. Minimum [__] years [documented] experience in work of this Section.
   2. Certified under AGA Certified Installer Program.

Include the following for tempered and laminated glass required for safety glazing locations.

D. Integrated Glass and Blind Assemblies: Tested and labeled to CPSC 16 CFR 1201.

Include the following for full size mockups for review of construction, coordination of work of several sections, testing, or observation of operation.

E. Mockup:
   2. Show integrated glass and blind assembly and glazing accessories.
   3. Locate [where directed.] [____.]
   4. Approved mockup may [not] remain as part of the Work.

1.5 DELIVERY, STORAGE AND HANDLING

A. Delivery glass with temporary label on each light identifying manufacturer, glass type, quality, and nominal thickness.

B. Store glass in areas least subject to traffic and falling objects. Keep storage area dry.

C. Stack individual panels on edge leaned slightly against upright supports with separators between panels.

1.6 PROJECT CONDITIONS

A. Maintain temperature, humidity, and ventilation within limits recommended by glass manufacturer.

B. Do not install products under environmental conditions outside manufacturer’s limits.

1.7 WARRANTIES

A. Furnish manufacturer’s 10 year warranty providing for replacement of defective integrated glass and blind assemblies due to improper workmanship and materials, under normal installation, use, service and maintenance.
PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Contract Documents are based on products by BetweenGlassBlinds, LLC; 11713 NW39th Street, Coral Springs, FL 33065, phone 866-466-9525, fax 866-861-9135, email sales@betweenglassblinds.com, www.between glassblinds.com.

Edit the following to indicate whether or not substitutions will be permitted for the products in this section.

B. Substitutions: [Under provisions of Division 01.] [Not permitted.]

2.2 MATERIALS

A. Insulating Glazing Units with [Horizontal Louver Blinds:] [Pleated Shades:]  
1. Insulating glazing units: Factory assembled, consisting of sealed glass panes separated by dehydrated interspaces, to ASTM E2190.

Edit the following to suit project requirements. Tempered 5/32 inch thick clear glass is standard. If multiple types are required, show locations on Drawings or in Schedule at end of section.


**** OR ****


**** OR ****


**** OR ****


**** OR ****


In the following paragraph argon ll is for exterior windows, only.

7. Air space: 11/16 inch [, argon lled].


**** OR ****


**** OR ****


**** OR ****


**** OR ****

Select horizontal louver blinds or pleated shades, as applicable. If multiple types are required show locations on Drawings or in Schedule at end of section.

13. Horizontal louver blinds:
   a. Slats: 6010-T8 aluminum alloy, 5/8 inch wide x 0.008 inch thick, crowned profile.
   b. Color: [____.] [To be selected from manufacturer’s full color range.]

14. Opaque pleated shades: [____] color [to be selected from manufacturer’s full color range.]

Include the following for standard magnet operators.

B. Magnet Operator:
   1. Designed to [tilt] [tilt and lift] blinds.
   2. Attached to internal glass in unit using designated guide.

2.3 ACCESSORIES

A. Glazing Accessories: Specified in Section [08 8000.] [__ ____.]

2.4 FABRICATION

A. Fabricate glazing units in required sizes with edge and face clearances, edge and surface conditions, and bite in accordance with manufacturer requirements and reference standards, to comply with system performance requirements.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify that openings conform to details; dimensions, and tolerances indicated on approved Shop Drawings.

3.2 PREPARATION

A. Clean surfaces to receive glass units prior to installation.
   B. Prepare surfaces using methods recommended by manufacturer.

3.3 INSTALLATION

A. Install in accordance with manufacturer’s instructions and approved Shop Drawings.
   B. Set glazing without bending, twisting, or forcing of units.
   C. Do not allow glass to rest on or contact framing members.

Include the following for re-rated glass

D. Fire Resistant Glass: Install in accordance with UL design requirements.
3.4 CLEANING
   A. Clean glass surfaces; remove temporary labels and foreign matter.

3.5 ADJUSTING
   A. Replace cracked, broken, and imperfect glass, and glass that has been improperly installed.

3.6 PROTECTION
   A. Protect installed products until completion of project.

3.7 SCHEDULE
   Include the following for a schedule listing the products in this section. Coordinate with Part 2 - Products. The following may assist in developing a schedule.

<table>
<thead>
<tr>
<th>MARK</th>
<th>EXTERIOR PANE</th>
<th>INTERIOR PANE</th>
<th>BLINDS OR SHADERS</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>1/4 inch thick bronze tinted tempered</td>
<td>1/4 inch thick clear tempered</td>
<td>Blinds, White</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>5/32 inch clear tempered</td>
<td>5/32 inch thick clear tempered</td>
<td>Shades, color to be selected</td>
<td></td>
</tr>
</tbody>
</table>

-End of Section-