



Privacy Windows for Observation Control



Brought to you by:



1-866-466-9525
www.vistamatic.com

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Features Include:

Maintenance-Free

USA Made

Operable by Magnet

Easy Installation

Cost Saving Installation

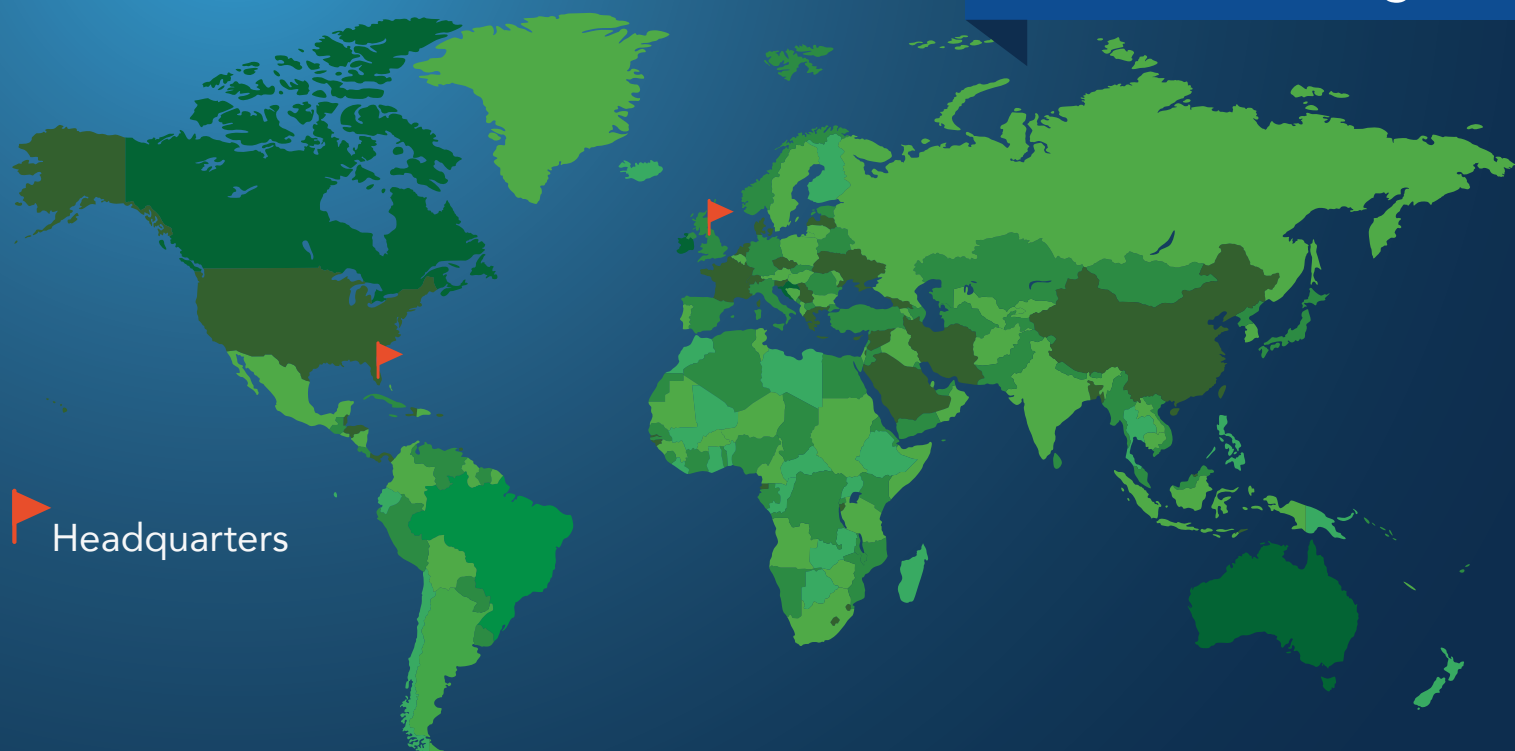
Customized to Your Needs

10 Year Warranty

Brought to you by VISTAMATIC®, Between-Glass-Blinds™ 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.

Global Coverage



BetweenGlassBlinds™ expanded into the Americas, Canada & Caribbean in 2005.

See All Projects at BetweenGlassBlinds.com

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)

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)



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**Residential
Commercial
Education
High Security
Healthcare
and more...**

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 1/8" tempered sheets of glass with a 3/4" air cavity for a total thickness of 1".

An innovative integral blind system, the Between- GlassBlinds™ 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.

**TILT
ONLY**



**TILT
&
LIFT**



Total standard unit is 1" thick

**DUAL
CONTROL**



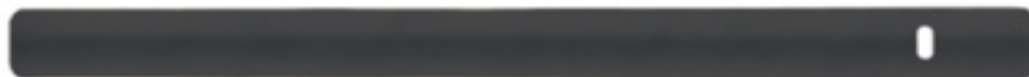
Operable by magnet, the BetweenGlassBlinds™ Dual-Control panel provides convenience and usability. Our revolutionary dual operation mechanism adds another level of functionality enabling users to operate our integral blinds from either side; inside or outside of the room.

Blind Color Options

for Manually Operated Blinds



Dark Coffee



Black



Ticking



Rock



Brushed Aluminium



ODL White



Gold



Pearl Bronze

Operable by
Remote Control
for Automatic
Functionality



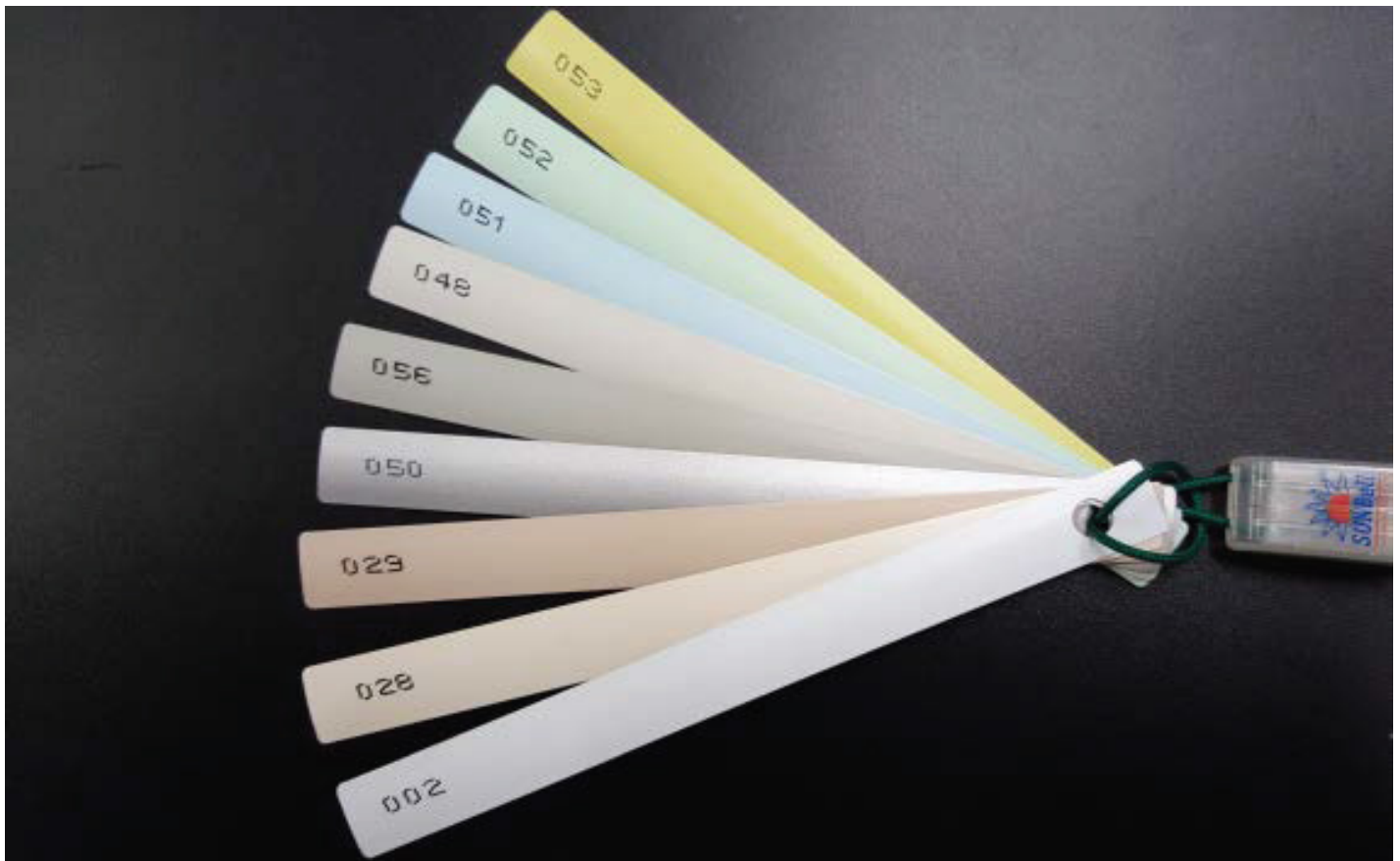
For more information, visit

www.BetweenGlassBlinds.com/Sunbell

A European-Patented battery powered system, the first and only one with electronics outside the window and a magnetic transmission actuator.

SUNBell's first motorized system is designed to operate up to 10 blinds through an extra-slim membrane switch positioned directly on the glass.

Blind Color Options for Motorized Blinds



| Color Number | RAL Number | Color Name |
|--------------|------------|-----------------|
| 002 | RAL-9003 | White |
| 028 | RAL-9001 | Cream |
| 029 | RAL-1001 | Beige |
| 050 | RAL-9006 | Metal Silver |
| 056 | RAL-7038 | Clay Grey |
| 048 | RAL-9002 | Off-White |
| 051 | | Robins Egg Blue |
| 052 | RAL-6019 | Mint Green |
| 053 | RAL-1016 | Pastel Yellow |

RAL numbers listed are an approximate match - there may be slight variations

Several blind color options are available for any SUNBell Motorized panels to provide a stylish and unique appearance.



TV22VMB (DOUBLE GLAZING 22 MM)

Venetian blind motorized with a rechargeable battery. Packaging and tilting

UNI EN 1279-5:2005 - UNI EN 1279-6:2004 - UNI EN 1379-6:2004 - - IMQ EN 55014-2:1997

**SUNBell**

SPECIFICATIONS TECHNICAL INFORMATION MODEL:

TV22VMB (DOUBLE GLAZING 22 MM)

Venetian blind motorized with a rechargeable battery. Packaging and tilting

1. PRODUCT DESCRIPTION

01:01 Product identification

Venetian blind TV22VMB motorized thanks to the rechargeable battery actuator for assembly in an insulating window

01:02 Description

First patented system of Venetian blinds in double glazing with magnetic transmission wireless actuator. This extremely innovative system works through a battery actuator which can be recharged using the special battery charger. No electrical wiring required. By placing this actuator on the respective magnetic connector fixed to the window or frame, the up or down impulse can be transmitted in the fast automatic function or in the slow manual function keeping the arrow buttons on it pressed.

2. TECHNICAL FEATURES

02:01 Product identification

Motorized Venetian blind made up of:

- rechargeable battery actuator
- battery charger
- wiring with magnetic connector
- reduction gear
- aluminium slats
- various extruded aluminium profiles
- cord
- terylene ladder braid
- various metal and plastic components

1 Battery actuator

Rechargeable lithium battery actuator with electronics for blind movement operation and endblocks Management of fast automatic function until endblocks or to the desired level and slow manual function to incline the slat. Software system with tamperproof function and motor power supply protection, red LED when battery is flat, green LED when charging and functioning. Safety management in case of accidental blockage of blind. Also available in the version with radio receiver and with battery pack recharge aid through a photovoltaic panel.

2 Wiring with magnetic connector

Plate with two cables and Amp connector for connection to blind and magnetic connector, easy to apply to window or to frame. Connector dimensions 25 x 30 x 5 mm high with two tapered holes for fixing to frame and specific biadhesive for sticking to glass.

3 Reduction gear

Micro-reduction gear with diam. 18 mm, placed in a special plastic support inside the aluminium profile. This micro-reduction gear is controlled by a special 12V motor, controlled by the actuator. Transmission ratio R=231. Slow shaft speed -30/40RPM. Max. current absorbed 1A Precise broached steel body (degree 7) M0.40 high precision gears, in treated steel, mechanically machined. Slow shaft supported by 2 ball bearings diam. 8/16 H5.

4 Aluminium slats

The main alloy used for the slats is alloy AA 6011. Dimensions; width 12.5 mm, thickness 0.21 mm. The chemical composition of this alloy is made following the directives of the Aluminium Association and has been chosen for its remarkable mechanical properties and their stability. This material is particularly suitable for uses requiring NO-FOGGING properties as in the case of insertion in double-glazing. All the layers of the laminate of the slat are cold pre-treated to guarantee perfect and lasting adhesion of the paint and considerable resistance against conditions of high humidity. This thermo-stop treatment means that the slats, made of these layers, behave exactly as a heat regulator. The slat, chemically pre-treated, is supplied with a finish suitable for indoor applications. The decorative finish usually consists of a single coat of polyester. This finishing process is subject to stringent controls on the line. The process and final quality selection ensures that the material is free of fogging. 9 colours of slats available. All the tests are performed in conformity with EN standards and others that include internationally accepted specifications and testing methods.

5 Extruded aluminium profiles

The extruded profiles are made from aluminium alloy EN AW 6060 with a chemical composition defined by standard EN 573-3. The metallurgical state of supply is T5 unless otherwise specified, according to the standard UNI EN 5415, with mechanical characteristics according to standard UNI EN-755-2. Box and back powder coated to match the colour of the slats. Dimensions of box: 22x44.90 (part with flap)/39.90 (part without flap) mm. Dimension of back: 11 x 12,60 mm

6 Cords and ladder braids

Cords made from 100% polyester with 100% 280/2x3 entwined polyester core

Entwinding: 16 ends - Diameter: 1 mm

Traction resistance: 120-200N

Treatment: stabilized

Colour test: Xenon test 6 – Ladder braids: Made from 100% polyester- construction of ladder braid: 2 cables

without distance - resistance to traction on both sides: 240N - colour test: Xenon test 5 – pitch: 10 mm



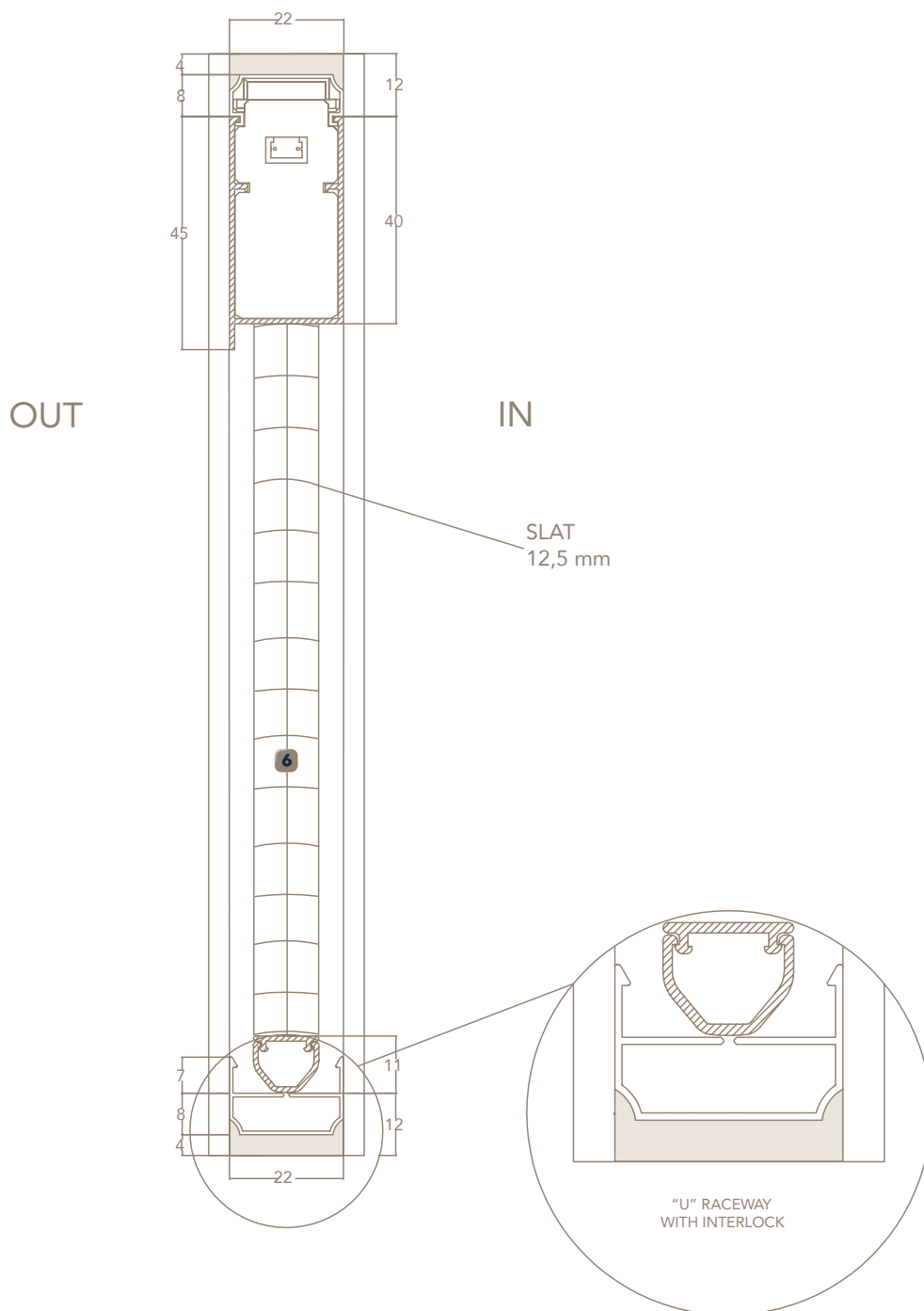


SPECIFICATIONS TECHNICAL INFORMATION MODEL:

SUNBell

TV22VMB (DOUBLE GLAZING 22 MM)

Venetian blind motorized with a rechargeable battery. Packaging and tilting



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between glassblinds™

1-866-466-9525
www.vistamatic.com

BLIND STYLES

Venetian

*Honeycomb/Accordion

GLAZING/GLASS

Lead

Fire Rated

*Polycarbonate

Bullet Resistant

Laminated

Tempered Glass / Colored Tempered

*Laser Polymer

*Impact Glass

*LOW-E

FUNCTIONALITY

Tilt Only

Tilt & Lift

SUNBell Motorized Units

MAGNET PLACEMENT

All Four Sides

Parallel (Tilt & Lift Option)

*Restrictions apply

We proudly offer the option to *supply hollow metal framing cut to your specifications with your BetweenGlassBlinds™ panel.

* BetweenGlassBlinds™ does not manufacture the hollow metal framing.

HOLLOW METAL FRAMING



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

Roving Sample Box

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.



+Share with colleagues
+Join our webinar
+Request a conference call

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.

Why is it called,
"Roving Sample Box?"

Because it's an eco-friendly,
travelling sample box that
travels
from client to client.



betweenglassblinds™

1-866-466-9525
www.vistamatic.com

Request a Quote/Order



CALL US!

1-866-466-9525

BetweenGlassBlinds™ Architectural Sales Consultants are available Monday-Friday 9AM-5PM (EST) for all of your consulting needs.

E-MAIL US!

QuoteMe@BetweenGlassBlinds.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.

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www.VISTAMATIC.com



VISTAMATIC, LLC

Size Chart - Tilt Only

for Manually Operated Blinds

Side Tilt

| 4mm | Width | | | | | | | | | | | | | | | | | | | | | | | |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Height | | | 10 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 60 | 64 | 68 | 72 | 76 | 80 | 84 | 88 | 92 |
| | | inch | 11.99 | 15.99 | 19.99 | 23.99 | 27.99 | 31.99 | 35.99 | 39.99 | 43.99 | 47.99 | 51.99 | 55.99 | 59.99 | 63.99 | 67.99 | 71.99 | 75.99 | 79.99 | 83.99 | 87.99 | 91.99 | 95.99 |
| | 14.5 | 15.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| | 16 | 19.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| | 20 | 23.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| | 24 | 27.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| | 28 | 31.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| | 32 | 35.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| | 36 | 39.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| | 40 | 43.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| | 44 | 47.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| | 48 | 51.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| | 52 | 55.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| | 56 | 59.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| | 60 | 63.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| | 64 | 67.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| | 68 | 71.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| | 72 | 75.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| | 76 | 79.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| | 80 | 83.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X |
| | 84 | 87.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X |
| | 88 | 91.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X |
| | 92 | 95.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X |
| | 96 | 99.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X |

Size Chart - Tilt Only

for Manually Operated Blinds

Top Tilt

| 4mm | | Width | | | | | | | | | | | | | | | | | | | | | | |
|--------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| | | 10 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 60 | 64 | 68 | 72 | 76 | 80 | 84 | 88 | 92 | |
| | inch | 11.99 | 15.99 | 19.99 | 23.99 | 27.99 | 31.99 | 35.99 | 39.99 | 43.99 | 47.99 | 51.99 | 55.99 | 59.99 | 63.99 | 67.99 | 71.99 | 75.99 | 79.99 | 83.99 | 87.99 | 91.99 | 95.99 | |
| Height | 14.5 | 15.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | |
| | 16 | 19.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | |
| | 20 | 23.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | |
| | 24 | 27.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | |
| | 28 | 31.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | |
| | 32 | 35.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | |
| | 36 | 39.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X | |
| | 40 | 43.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X | |
| | 44 | 47.99 | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | X | |
| | 48 | 51.99 | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | X | |
| | 52 | 55.99 | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | 56 | 59.99 | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | 60 | 63.99 | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | 64 | 67.99 | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | 68 | 71.99 | A | A | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | 72 | 75.99 | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | 76 | 79.99 | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | 80 | 83.99 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | 84 | 87.99 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | 88 | 91.99 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | 92 | 95.99 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | 96 | 99.99 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |



between glass blinds™

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www.vistamatic.com

Size Chart - Tilt Only

Bottom Tilt

| 4mm | | Width | | | | | | | | | | | | | | | | | | | | | | | |
|--------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Height | | | 10 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 60 | 64 | 68 | 72 | 76 | 80 | 84 | 88 | 92 | |
| | | inch | 11.99 | 15.99 | 19.99 | 23.99 | 27.99 | 31.99 | 35.99 | 39.99 | 43.99 | 47.99 | 51.99 | 55.99 | 59.99 | 63.99 | 67.99 | 71.99 | 75.99 | 79.99 | 83.99 | 87.99 | 91.99 | 95.99 | |
| | 14.5 | 15.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | |
| | 16 | 19.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | |
| | 20 | 23.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | |
| | 24 | 27.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | |
| | 28 | 31.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | |
| | 32 | 35.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | |
| | 36 | 39.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | |
| | 40 | 43.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | |
| | 44 | 47.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | |
| | 48 | 51.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | |
| | 52 | 55.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | |
| | 56 | 59.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | |
| | 60 | 63.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | |
| | 64 | 67.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X | |
| | 68 | 71.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | |
| | 72 | 75.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | |
| | 76 | 79.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | A | A | X | |
| | 80 | 83.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | A | X | X | |
| | 84 | 87.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | |
| | 88 | 91.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | |
| | 92 | 95.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | |
| | 96 | 99.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | |



Size Chart - Tilt & Lift

Lift

| 4mm | | Width | | | | | | | | | | | | | | | | | | | | | | | |
|--------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Height | | | 10 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 60 | 64 | 68 | 72 | 76 | 80 | 84 | 88 | 92 | |
| | | inch | 11.99 | 15.99 | 19.99 | 23.99 | 27.99 | 31.99 | 35.99 | 39.99 | 43.99 | 47.99 | 51.99 | 55.99 | 59.99 | 63.99 | 67.99 | 71.99 | 75.99 | 79.99 | 83.99 | 87.99 | 91.99 | 95.99 | |
| | 14.5 | 15.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | |
| | 16 | 19.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | |
| | 20 | 23.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | |
| | 24 | 27.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | |
| | 28 | 31.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | |
| | 32 | 35.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | |
| | 36 | 39.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | |
| | 40 | 43.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | |
| | 44 | 47.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | |
| | 48 | 51.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | |
| | 52 | 55.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | |
| | 56 | 59.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | |
| | 60 | 63.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | |
| | 64 | 67.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | |
| | 68 | 71.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X | |
| | 72 | 75.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | |
| | 76 | 79.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | |
| | 80 | 83.99 | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | X | |
| | 84 | 87.99 | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | X | |
| | 88 | 91.99 | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X | |
| | 92 | 95.99 | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | 96 | 99.99 | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X | X | |



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Size Chart - Dual-control

Twins lift

| 4mm | | Width | | | | | | | | | | | | | | | | | | | | | | |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Height | | | 10 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 60 | 64 | 68 | 72 | 76 | 80 | 84 | 88 | 92 |
| | | inch | 11.99 | 15.99 | 19.99 | 23.99 | 27.99 | 31.99 | 35.99 | 39.99 | 43.99 | 47.99 | 51.99 | 55.99 | 59.99 | 63.99 | 67.99 | 71.99 | 75.99 | 79.99 | 83.99 | 87.99 | 91.99 | 95.99 |
| | 14.5 | 15.99 | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X |
| | 16 | 19.99 | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X |
| | 20 | 23.99 | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X |
| | 24 | 27.99 | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X |
| | 28 | 31.99 | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X |
| | 32 | 35.99 | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X |
| | 36 | 39.99 | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X |
| | 40 | 43.99 | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X |
| | 44 | 47.99 | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X |
| | 48 | 51.99 | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X |
| | 52 | 55.99 | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X |
| | 56 | 59.99 | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | 60 | 63.99 | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | 64 | 67.99 | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | 68 | 71.99 | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | 72 | 75.99 | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | 76 | 79.99 | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | 80 | 83.99 | A | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | 84 | 87.99 | A | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | 88 | 91.99 | A | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 92 | 95.99 | A | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| 96 | 99.99 | A | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |



Size Chart - Dual-control

Twins side tilt

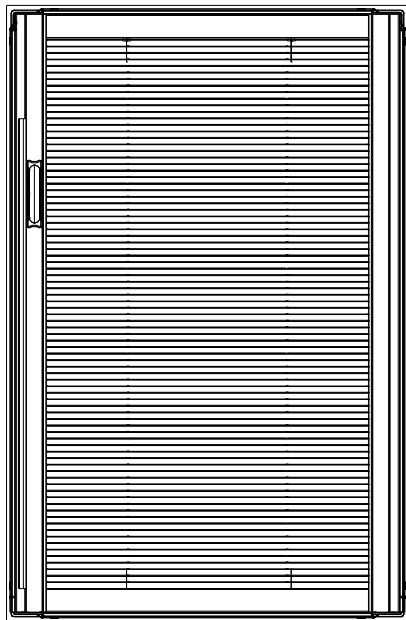
| 4mm | | Width | | | | | | | | | | | | | | | | | | | | | |
|--------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 10 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 60 | 64 | 68 | 72 | 76 | 80 | 84 | 88 | 92 |
| | inch | 11.99 | 15.99 | 19.99 | 23.99 | 27.99 | 31.99 | 35.99 | 39.99 | 43.99 | 47.99 | 51.99 | 55.99 | 59.99 | 63.99 | 67.99 | 71.99 | 75.99 | 79.99 | 83.99 | 87.99 | 91.99 | 95.99 |
| Height | 14.5 | 15.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| | 16 | 19.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| | 20 | 23.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| | 24 | 27.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| | 28 | 31.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| | 32 | 35.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| | 36 | 39.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| | 40 | 43.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| | 44 | 47.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| | 48 | 51.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| | 52 | 55.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| | 56 | 59.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| | 60 | 63.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A |
| | 64 | 67.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X |
| | 68 | 71.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X |
| | 72 | 75.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X |
| | 76 | 79.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X |
| | 80 | 83.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X |
| | 84 | 87.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X |
| | 88 | 91.99 | A | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X |
| | 92 | 95.99 | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X |
| | 96 | 99.99 | A | A | A | A | A | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X |

Size Chart - Dual-control

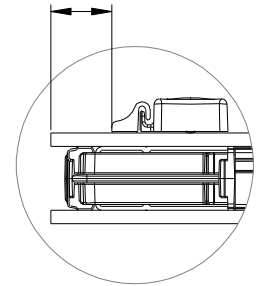
Twins bottom tilt

| 4mm | | Width | | | | | | | | | | | | | | | | | | | | | | | |
|--------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|
| | | 10 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 60 | 64 | 68 | 72 | 76 | 80 | 84 | 88 | 92 | | |
| | inch | 11.99 | 15.99 | 19.99 | 23.99 | 27.99 | 31.99 | 35.99 | 39.99 | 43.99 | 47.99 | 51.99 | 55.99 | 59.99 | 63.99 | 67.99 | 71.99 | 75.99 | 79.99 | 83.99 | 87.99 | 91.99 | 95.99 | | |
| Height | 14.5 | 15.99 | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| | 16 | 19.99 | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| | 20 | 23.99 | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| | 24 | 27.99 | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| | 28 | 31.99 | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| | 32 | 35.99 | A | A | A | A | A | A | A | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| | 36 | 39.99 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| | 40 | 43.99 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| | 44 | 47.99 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| | 48 | 51.99 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| | 52 | 55.99 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| | 56 | 59.99 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| | 60 | 63.99 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| | 64 | 67.99 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| | 68 | 71.99 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| | 72 | 75.99 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| | 76 | 79.99 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| | 80 | 83.99 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| | 84 | 87.99 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| | 88 | 91.99 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| | 92 | 95.99 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| | 96 | 99.99 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |

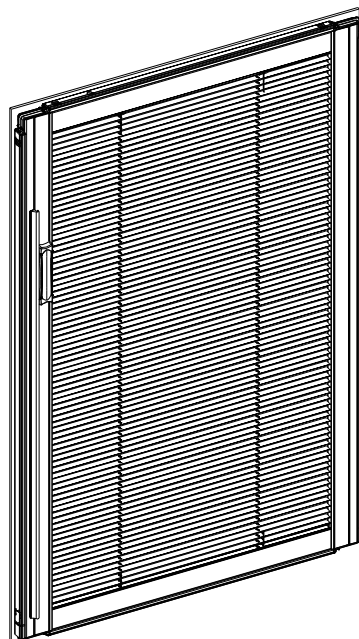
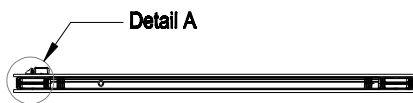
CAD Drawings - Tilt only



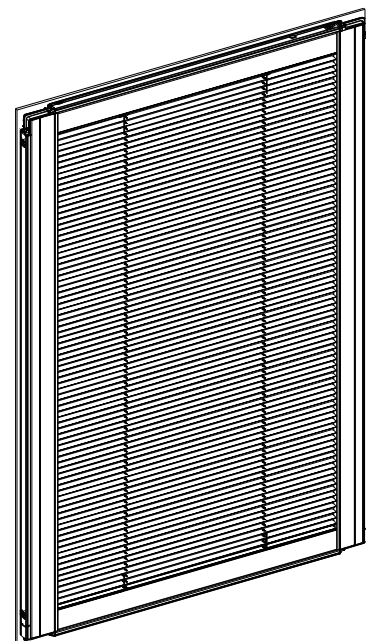
5/8"



Detail A
Scale=5:1

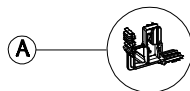
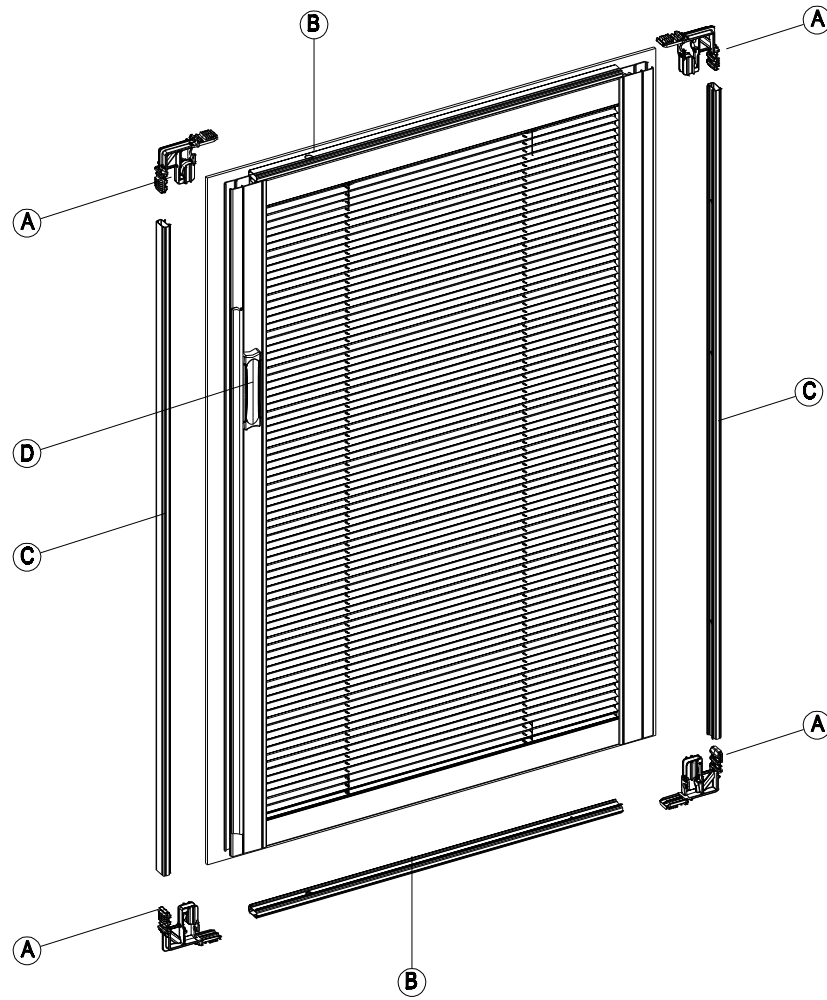


Front Iso View

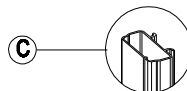


Back Iso View

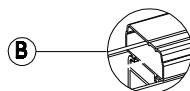
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| | CRITICAL DIMENSIONS CONTROL DIMENSIONS | 3D FILE NAME: |
| | IMPERIAL UNITS 1000 ± 10 100 ± 20 10 ± 50 ANGLE TOL: ± 50° DRAFT TOL: ± 25° ± 100° | SIZE: 1:10 DATE: 12/23/2016 REV: A |
| | THIRD ANGLE PROJECTION | SHEET 1 OF 2 |



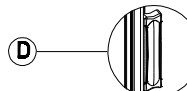
Corner Key



Side Spacer



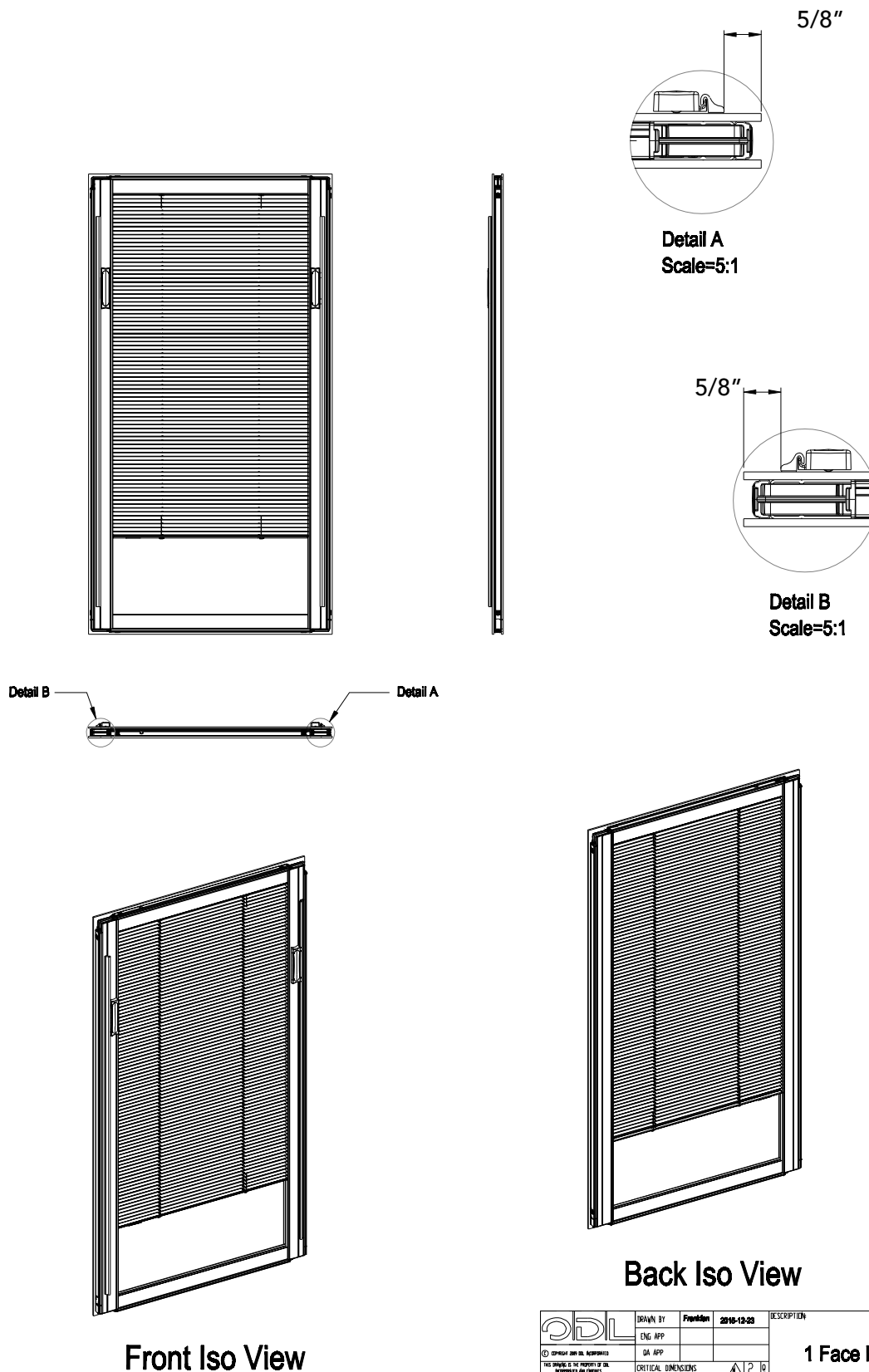
Headrail



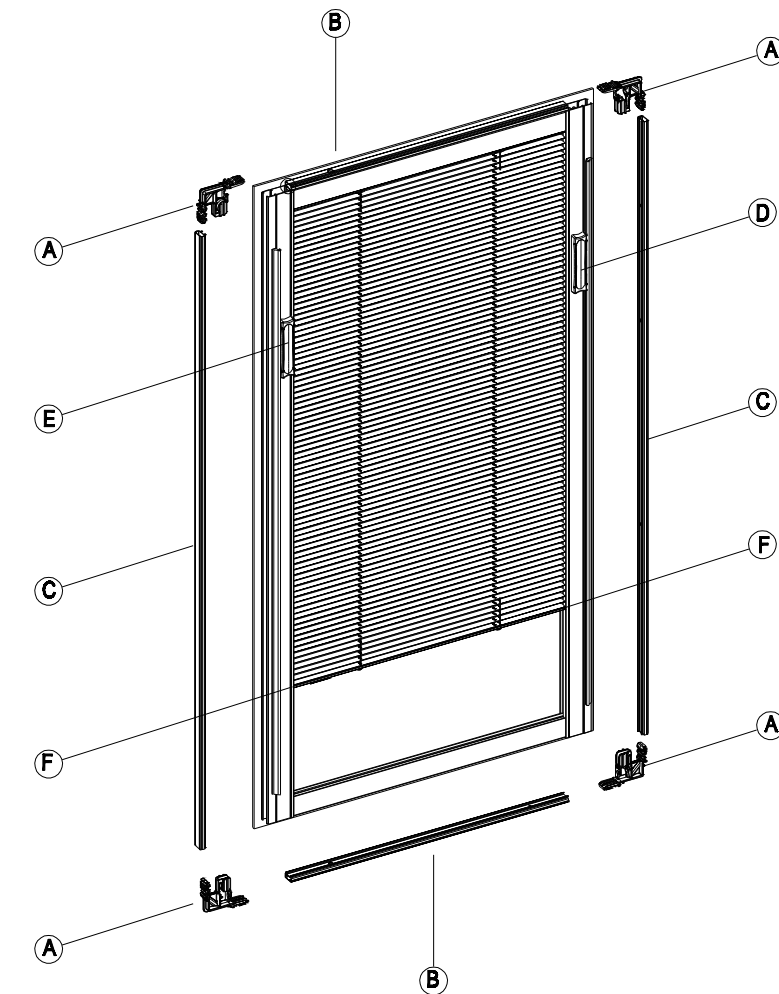
Left Tilt Operator

| | | |
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| | CRITICAL DIMENSIONS: $\Delta 2/10$ CENTRAL DIMENSIONS: $\Delta 2/10$ IMPERIAL UNITS | 3D FILE NAME: _____ SIZE: DWG, NDL |
| | ANGLE TOL: $\pm .50^\circ$ DRAFT TOL: $\pm .25^\circ$ THIRD ANGLE PROJECTION | SC=100 SHEET 2 OF 2 REV. A |
| | FILE PRINTED 3/14/2011 | |

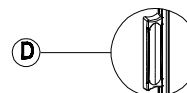
CAD Drawings - Tilt & Lift



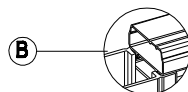
| | | | | | |
|---|--|---------------------|------------|---|-----------------------------|
| | DRAWN BY | Frederick | 2010-10-20 | DESCRIPTION | |
| | ENG APP | | | 1 Face Lift & Tilt | |
| | QA APP | | | | |
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| <small>CRITICAL DIMENSIONS</small> <small>CONTROL DIMENSIONS</small> <small>IMPERIAL UNITS</small> <small>ANGULAR TOL. ± .5°</small> <small>LINE TOL. ± .005</small> <small>DRIFT TOL. ± .005</small> <small>THIRD ANGLE PROJECTION</small> | | <small>SIZE</small> | | <small>DATE</small> <small>REV</small> <small>A</small> | <small>SHEET 1 OF 2</small> |



Corner Key



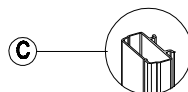
Lift Operator



Headrail



Tilt Operator



Side Spacer

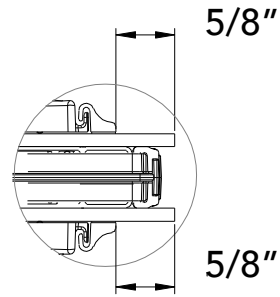
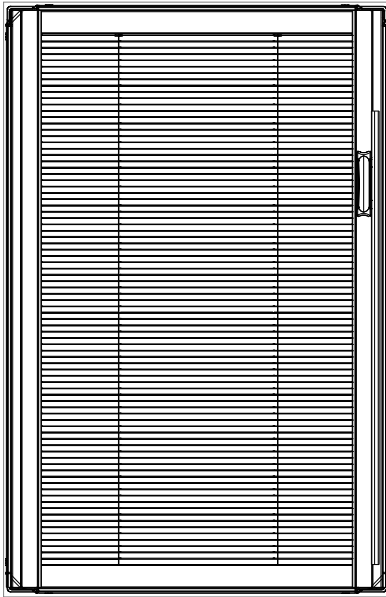


Bottom Rail

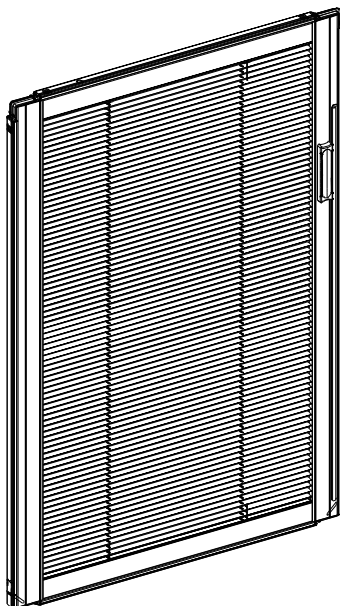
| | | |
|--|--|---|
| <p>© COPYRIGHT 2000 BY CDL INCORPORATED THIS DRAWING IS THE PROPERTY OF CDL INCORPORATED AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. ANY REPRODUCTION OF THIS DRAWING WITHOUT THE WRITTEN PERMISSION OF CDL INCORPORATED IS PROHIBITED.</p> | DRAWN BY: Franklin ENG APP: DA APP: DATE: 2016-12-23 | DESCRIPTION: 1 Face Lift & Tilt |
| | CRITICAL DIMENSIONS CONTROL DIMENSIONS | 3D FILE NAME: SC-1100 |
| | IMPERIAL UNITS 100 ± 30 ANGLE TOL. ± 50° 20 ± 20 DRAFT TOL. ± 25° 5 ± 50 DRAFT TOL. ± 30° | SHEET 2 OF 2 REV. A |
| | THIRD ANGLE PROJECTION | SIZE: 11x17 |

FILE: PRINTED/3/14/2011

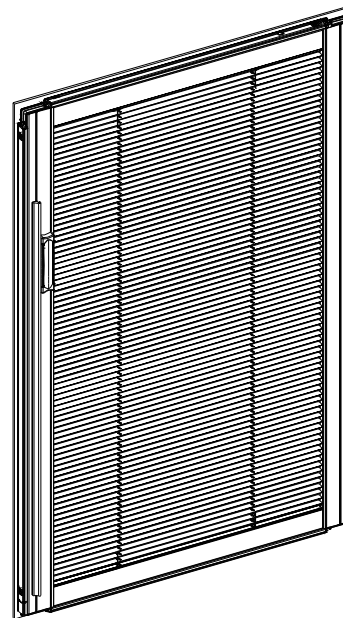
CAD Drawings - Dual Control



Detail A
Scale=5:1



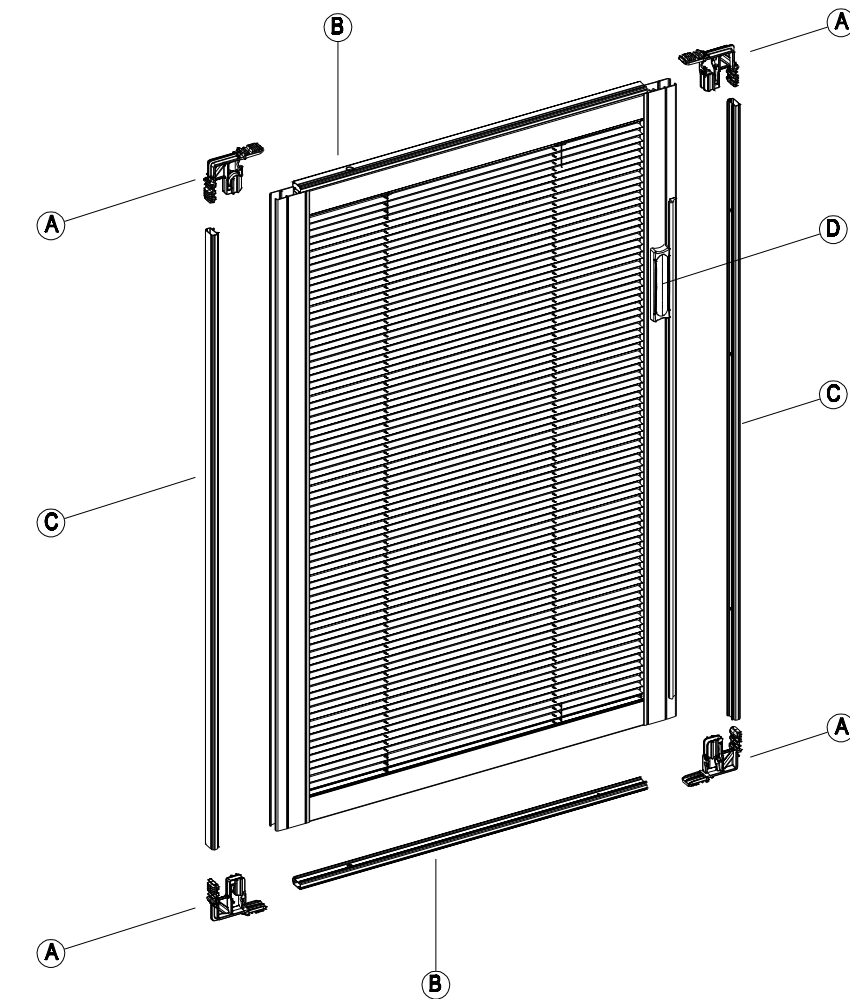
Front Iso View



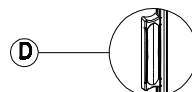
Back Iso View

| | | | | |
|--|---------------------|----------|---|---|
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| | ENG APP | | | Twins Side Tilt Only |
| | DA APP | | | |
| | CRITICAL DIMENSIONS | | | |
| <p>IMPERIAL UNITS</p> <p>SIZE (DWG. NO.)</p> | | | <p>2 1/2</p> <p>2 1/2</p> <p>2 1/2</p> <p>2 1/2</p> | <p>2 1/2</p> <p>2 1/2</p> <p>2 1/2</p> <p>2 1/2</p> |
| <p>THIRD ANGLE PROJECTION</p> | | | <p>REV. A</p> | |

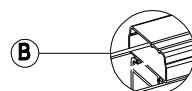
CAD Drawings - Dual Control



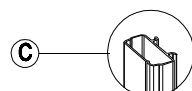
Corner Key




Tilt Operator



Headrail



Side Spacer

| | | | | | |
|---|---------------------|----------|------------------------|----------------------|--|
|  <p>© COPYRIGHT 2011 BY CDL. ALL RIGHTS RESERVED.</p> | DRAWN BY | Franklin | 2016-12-23 | DESCRIPTION | |
| | ENG APP | | | Twins Side Tilt Only | |
| | DA APP | | | | |
| | CRITICAL DIMENSIONS | | | 20 FILE NAME | |
| CONTROL DIMENSIONS | | | IMPERIAL UNITS | | |
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| THIS DRAWING IS THE PROPERTY OF CDL. IT IS TO BE USED FOR THE PROJECT ONLY. IT IS NOT TO BE REPRODUCED, COPIED, OR DISTRIBUTED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF CDL. ANY VIOLATION OF THIS AGREEMENT WILL BE PROSECUTED TO THE FULL EXTENT OF THE LAW. | | | FILE PRINTED 3/14/2011 | | |

Visible Light Transmission Report

The following test results indicate that the Aluminum Blind Window is an ideal solution for creating a black-out 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.



100 East Glenside Avenue, Glenside, PA 19038
Phone: (215) 517-8700, Fax: (215) 517-8747

Website: www.solarlight.com
E-mail: info@solarlight.com

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

| Sample : | Sample Description: | | |
|----------|-----------------------|-----------------------|--------------------------------|
| 1 | Aluminum blind window | 'Between Glass Blinds | A Side to source – Rel. Trans. |

Transmission Results

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

| | Visible Light Transmission Results : | Average (T _i) | Standard Deviation: |
|---|---|------------------------------|------------------------|
| 1 | All 5 locations T < 0.9% , 4 locations < 0.25% Relative | 0.26% | .31 |
| | One location (with holes) had the higher transmission, each mode Average Transmissions without outliers: | 0.15% 0.06% | |
| | All 5 locations T < 2.1% , 4 locations < 0.13% Total | 0.44% | .82 |

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: 

Report Date: August 19, 2014 Rev 2.0

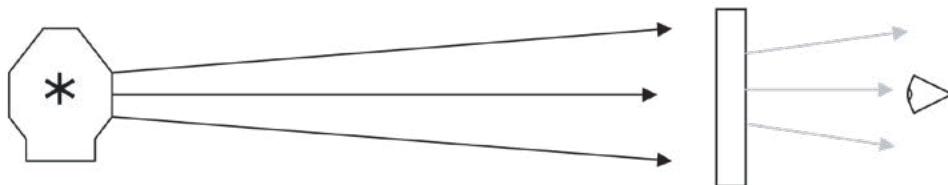


between glass blinds™

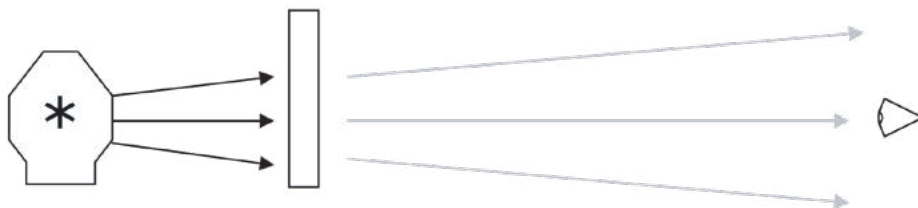
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The measurements have been performed in order to demonstrate the light transmission properties in two ways, **Relative**, and **Total**.

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 leer through the holes in the blinds, shifting upward the average when that location is included.

Summary of Relative Transmission Averages

| | | | |
|----------------------|-------|-------|------------------|
| Between Glass Blinds | 0.255 | 0.145 | Avg. w/o outlier |
| | | | |
| | | | |
| | | | |

Summary of Total Transmission Averages

| | | | |
|----------------------|-------|-------|------------------|
| Between Glass Blinds | 0.441 | 0.060 | Avg. w/o outlier |
| | | | |
| | | | |
| | | | |



between glass blinds

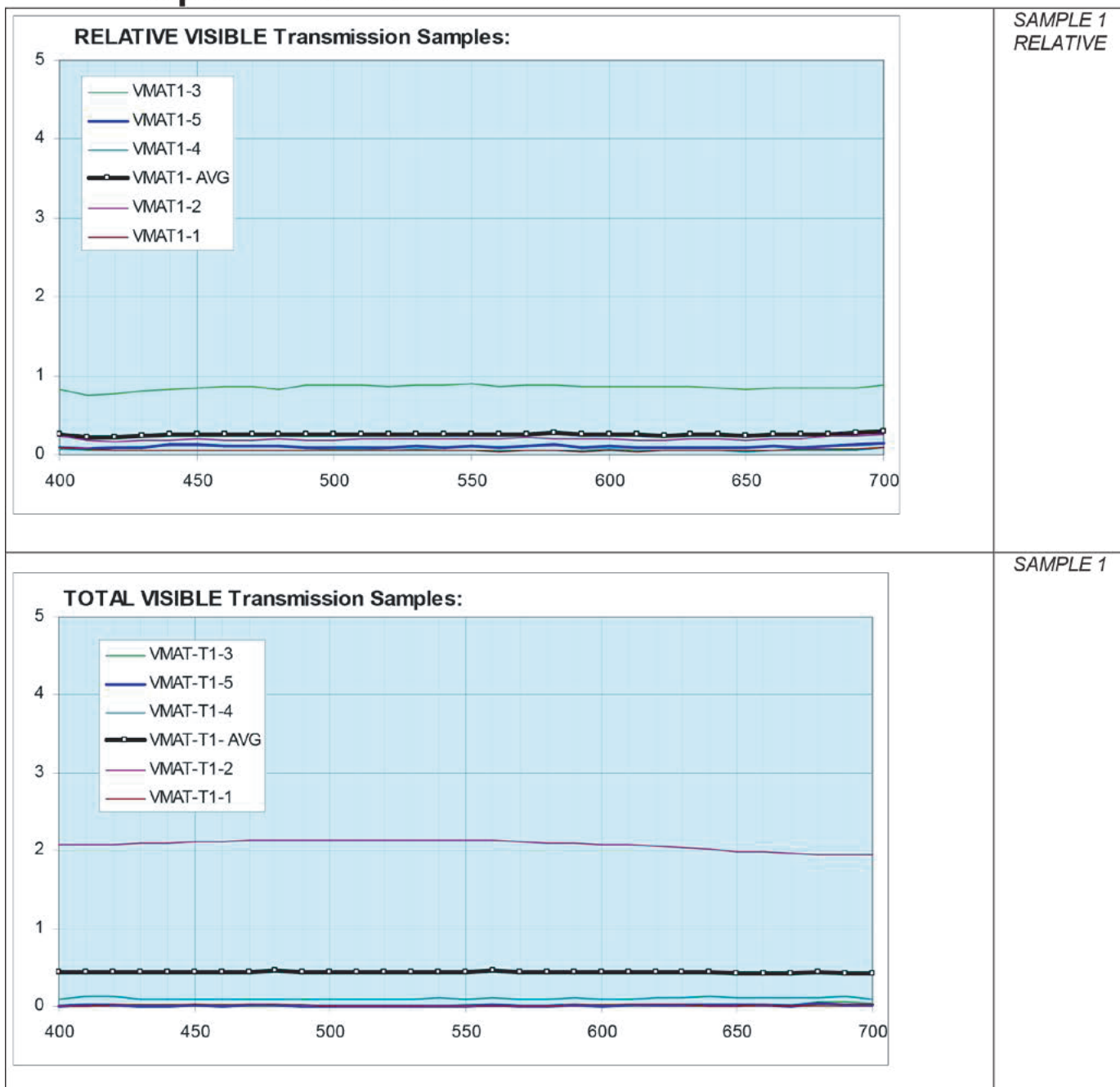
Measurements recorded by:

Report Date: August 19, 2014

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Rev 2.0

Spectral Charts



Measurements recorded by:

Report Date: August 19, 2014 Rev 2.0

Ultraviolet Transmission Test Report

Using the LabSphere UV-1000F

| | | |
|--------------------------|--------------------|--|
| Analyzed for: VISTAMATIC | Work Order # 15905 | Measurement Date 8/15/2014 Test Report Date 8/18/2014 |
|--------------------------|--------------------|--|

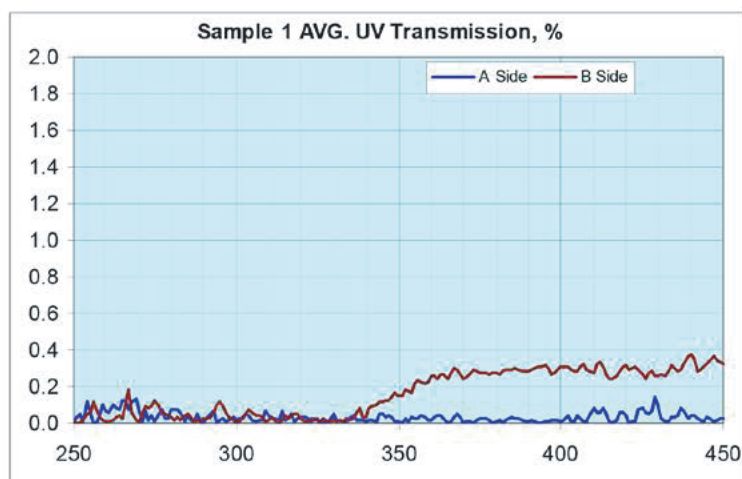
Sample Information

| Sample : | Sample Description: | | |
|----------|-----------------------|--------|-----------------------|
| 1 | Aluminum blind window | A Side | 'Between Glass Blinds |
| | | B Side | |

Transmission Results

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

| Sample | Side | Results : | Average (ABS(T _i)) | Standard Deviation: |
|--------|------|---|-----------------------------------|------------------------|
| 1 | A | All 4 locations T < 0.3% | 0.3% | .049 |
| | B | 3 of 4 locations T < 0.2% <i>one leaked light at ≈ 0.5%</i> | 0.16% | .291 |



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



100 East Glenside Avenue, Glenside, PA 19038
Phone: (215) 517-8700, Fax: (215) 517-8747

Website: www.solarlight.com
E-mail: info@solarlight.com

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 sample 1 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.

| | |
|-----------------------|-------------------|
| Work Order# | |
| Date of measurement | |
| Engineer | <i>Drew Hmiel</i> |
| Measurement System | <i>UV-1000F</i> |
| Laboratory Conditions | |
| Temperature | <i>27.5°C</i> |
| Humidity | <i>30.1 %</i> |

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.

Measurements recorded by: 

Report Date: August 19, 2014 Rev 2.0



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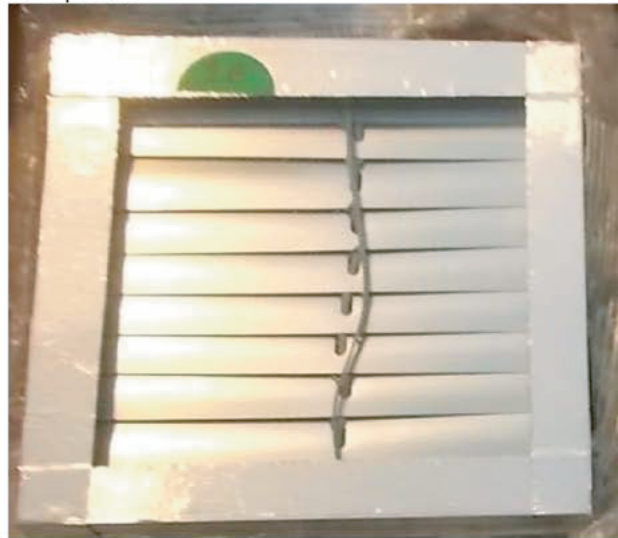
APPENDIX

Sample 1A



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

Sample 1B



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

The following test results indicate that the BetweenGlassBlinds with Magnetic Operation has an STC rating of 39. The Between-GlassBlinds 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.

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TEST REPORT

FOR: Vistamatic
Coral Springs, FL.

Sound Transmission Loss
RAL™-TL14-331

CONDUCTED: 2014-09-12

Page 1 of 6

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.

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2014-09-12

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Figure 1 - Specimen mounted in the test frame.



Figure 2 - Detail of test specimen.



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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.

| <u>FREQ.</u> | <u>T.L.</u> | <u>C.L.</u> | <u>DEF.</u> | <u>FREQ.</u> | <u>T.L.</u> | <u>C.L.</u> | <u>DEF.</u> |
|--------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|
| 100 | 29 | 0.67 | | 800 | 38 | 0.18 | 3 |
| 125 | 21 | 0.74 | 2 | 1000 | 40 | 0.14 | 2 |
| 160 | 28 | 0.72 | | 1250 | 41 | 0.16 | 2 |
| 200 | 26 | 0.44 | 3 | 1600 | 45 | 0.09 | |
| 250 | 31 | 0.55 | 1 | 2000 | 48 | 0.10 | |
| 315 | 33 | 0.47 | 2 | 2500 | 49 | 0.08 | |
| 400 | 33 | 0.40 | 5 | 3150 | 45 | 0.11 | |
| 500 | 32 | 0.31 | 7 | 4000 | 49 | 0.10 | |
| 630 | 35 | 0.28 | 5 | 5000 | 53 | 0.06 | |

STC=39

ABBREVIATION INDEX

FREQ. = FREQUENCY, HERTZ, (cps)
T.L. = TRANSMISSION LOSS, dB
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

Digitally signed by Eric Wolfram
DN: cn=Eric Wolfram, o=Alion Science
and Technology, ou=Riverbank
Acoustical Laboratories,
email=ewolfram@alionscience.com,
c=US
Date: 2014.09.17 09:52:57 -05'00'



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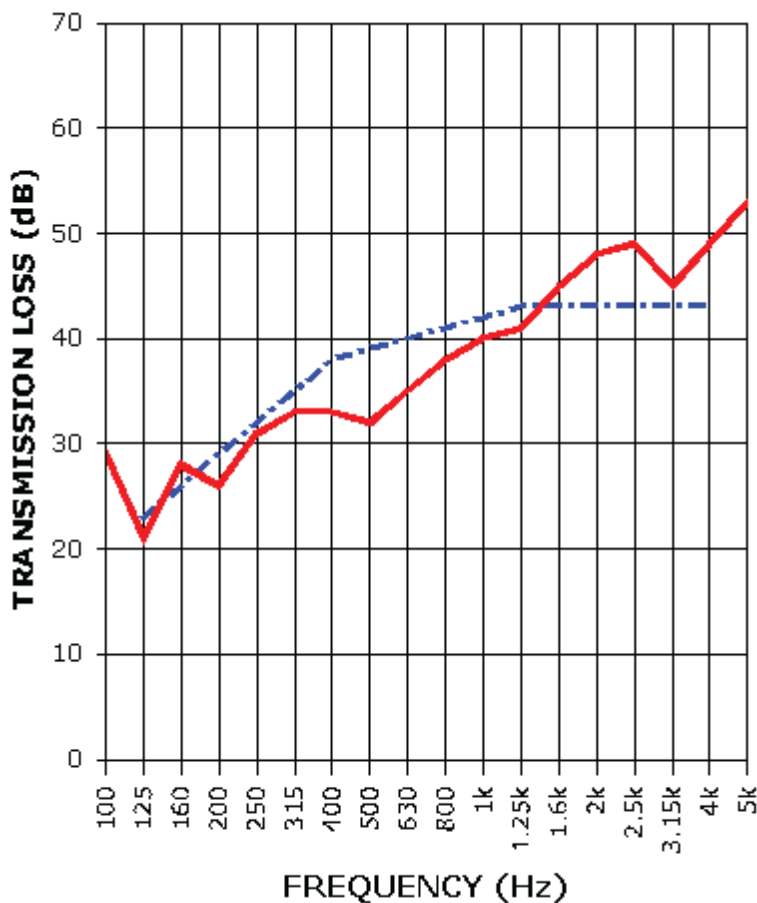
TEST REPORT

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2014-09-12

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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



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2014-09-12

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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.

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

OITC=32



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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

1/3 Octave Center Frequency

Sound Transmission Loss

| <u>(Hz)</u> | <u>(dB)</u> |
|-------------|-------------|
| 40 | 14 |
| 50 | 25 |
| 63 | 22 |
| 80 | 21 |
| 6300 | 58 |
| 8000 | 59 |
| 10000 | 60 |

END



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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.

Instructions for Hollow Metal Frames/Borrowed Light Supplied by VISTAMATIC® BetweenGlassBlinds™

Note: 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 on to 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.

Specifying BetweenGlassBlinds™ Products

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.

Specifying BetweenGlassBlinds™ Products

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):

1. C1048 - Standard Specification for Heat-Treated Flat Glass-Kind HS, Kind FT Coated and Uncoated Glass.

2. E2190 - Standard Specification for Insulating Glass Unit Performance and Evaluation.

B. American National Standards Institute (ANSI) (www.ansi.org) Z97.1 - Safety Performance Specifications and Methods of Test for Safety Glazing Material Used in Buildings.

C. Consumer Product Safety Commission (CPSC) (www.cpsc.gov) 16 CFR 1201 - Safety Standard for Architectural Glaz- zz Materials.

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.

C. Sustainable Design Submittals: 1. Regional Materials.

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:

1. Size: Minimum [2 x 2] [] x [] feet.
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; 4373 NW 124th Avenue, Coral Springs, FL 33065, phone 866-466-9525, fax 866-861-9135, email sales@betweenglassblinds.com, www.betweenglassblinds.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.

2. Exterior glass panes: [Clear tempered,] [[_____] color tinted tempered,] [5/32 [1/4] [3/8] [1/2] [3/4] inch thick.

****OR****

3. Exterior glass panes: [Laminated leaded, [1/4] [3/8] [1/2] [3/4] inch thick.] [Annealed leaded, [1/4] [3/8] [1/2] [3/4] inch thick.]

****OR****

4. Exterior glass panes: Fire rated, [1/4] [3/8] [1/2] [3/4] inch thick.

****OR****

5. Exterior glass panes: Laminated, [1/4] [1/2] inch thick.

****OR****

6. Exterior glass panes: Scratch resistant polycarbonate, [1/4] [3/8] [1/2] inch thick, [clear.] [[_____] color tinted.]

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

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

8. Interior glass panes: [Clear tempered,] [[_____] color tinted tempered,] [5/32 [1/4] [3/8] [1/2] [3/4] inch thick.

****OR****

9. Interior glass panes: [Laminated leaded, [1/4] [3/8] [1/2] [3/4] inch thick.] [Annealed leaded, [1/4] [3/8] [1/2] [3/4] inch thick.]

****OR****

10. Interior glass panes: Fire rated, [1/4] [3/8] [1/2] [3/4] inch thick.

****OR****

11. Interior glass panes: Laminated, [1/4] [1/2] inch thick.

****OR****

12. Interior glass panes: Scratch resistant polycarbonate, [1/4] [3/8] [1/2] inch thick, [clear.] [[_____] color tinted.]



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 fire-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.

| MARK | EXTERIOR PANE | INTERIOR PANE | BLINDS OR SHADES | COMMENTS |
|------|---------------------------------------|--------------------------------|--------------------------------|----------|
| A | 1/4 inch thick bronze tinted tempered | 1/4 inch thick clear tempered | Blinds, Color No. 3369 - White | |
| B | 5/32 inch clear tempered | 5/32 inch thick clear tempered | Shades, color to be selected | |

-End of Section-