



# FORTUNA SOUNDPROOF WINDOWS

Your Residential SoundProof Specialist



# CONTENT

**05**

## **UVPC PROFILE**

**08**

## **WINDOW SYSTEMS**

CASEMENT SYSTEM  
SLIDING SYSTEM

**14**

## **DOOR SYSTEMS**

SLIDING SYSTEM  
FOLDING SYSTEM  
SWING SYSTEM

**21**

## **NOISE CHART**

NOISE LEVEL (dB)  
SOUND INSULATION TABLE

**24**

## **PICK & MIX**

GLASS GLAZING  
FRAME COLORS

**27**

## **MISCELLANEOUS**

PRODUCT CERTIFICATE  
PORTFOLIO GALLERY  
FAQs



# FORTUNA SOUNDPROOF WINDOWS

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*FOCUSED*

## **ON RESIDENTIAL HOUSING**

*Solving Noise Problems faced by home owners as the main objective. Customised UPVC Windows and Doors System to cut down the external noise to attain a conducive Library Environment In-house.*

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# WHY SOUNDPROOF?



## SOUNDS FAMILIAR?

Permanent Exposure to Noise like these can Damage your Hearing permanently. Acknowledge these Noise Issues and Get it FIXED!



Construction Work



Roads & Expressway



Dogs & Animals



Neighbourhood Noise



MRT Noise




Baby Crying

According to World Health Organisation, living with high ambient noise may lead to noise-induced hearing loss. Especially for those staying near expressway and MRT track.




## Noise & Health


 Annoyance, mood shifts

 Vasoconstriction


 Elevated blood pressure

 Anxiety

Physical Manifestations of **NOISE STRESS**

 Hypertension

 Myocardial infarction

 Lower threshold for noise resulting in sleep disturbance

 Delayed cognitive development in children

# FORTUNA UPVC PROFILE



## EASY MAINTENANCE

**Minimal maintenance** is required. The frame color is original and does not have coating unlike Aluminium. To keep it clean, just wipe it down with **warm soapy water**.



## DESSICANT SPACERS

Notice the air gap between the double/triple glazed? They are filled with **Desiccant** to absorb moisture and fogging.



## MULTI POINT LOCKING

Multiple Points Locking System to ensure **Air & Water Tightness, Sound insulation** and Security. Makes all the difference.



## SUPPORT UP TO 30MM GLASS

The modern **UPVC frame** allows replacement and application of Glass Glazing combination up to **30mm glass thickness**.



## STAINLESS FASTENERS

High grade **Non-Corrosion Fasteners** to ensure the system is bolted into side walls / structure.



## EPDM RUBBER SEAL

EPDM Rubber Seal helps to resist sunlight, ozone, oxygen aging, acids, alkalis, water and severe weather conditions.



## MULTI-CHAMBER PROFILE

**Multi-chambers** create additional barriers within the material frame for **Soundwave** and **Heatwave** to pass through



## MORE THAN JUST PVC


























PVC Frame will be **Heavier** than Aluminium Frame due to the **addition of Metal-Bar** insert to further strengthen the frame overall thickness and **Tensile Strength Value**.

# UPVC VS. ALUMINIUM



## UPVC ALUMINIUM

### COMPARISON FACTORS

	ACOUSTIC INSULATION	  	
	THERMAL INSULATION	 	
	DENT RESISTANCE	 	
	LOW MAINTENANCE	 	
	OXIDISED RESISTANCE	 	
	COLORS & AESTHETICS		 

UPVC Windows & Doors are commonly used in Europe Region and the U.S. for their known for enhanced durability and protection from extreme weathers.

## Did You Know?



# NOISE LEVEL AFFECTS SLEEP SATISFACTION



# TYPES OF UPVC WINDOWS



## CASEMENT SYSTEM

The most basic yet Effective Swing-able Window System for Soundproofing.



## TOP HUNG

Most suitable for Toilets / Areas that requires ventilation even during the rain.



## TILT AND TURN

A combination of Casement and Top Hung; both in Open Inward direction.



## SLIDING SYSTEM

The least soundproofing window system but the most user-friendly.



## FIXED

Used in conjunction with other windows systems unless for room dividers.

The standard regulation in Singapore limits **Casement Window** Panel to maximum width of **700mm** and **Sliding** of **1200mm**

## Did You Know?



# CASEMENT WD SYSTEM

**\*\*[ BEST RECOMMENDED SERIES ]\*\***



**SPOT THE DIFFERENCE?**



Casement (**Outwards** Opening)



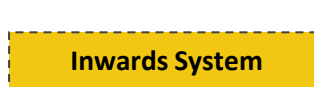
Casement (**Inwards** Opening)



## Outward System

**Application** in Residential Units - Kitchen, Living Room, Bedrooms, Landed Units and Condominium.

**Accessories:**  
Window Arms,  
Window Restrictors



## Inwards System

**Application** in Residential Units – Resale HDB Corridors, HDB BTO Bedrooms, Condominium with external facade requirements.

**Accessories:**  
Window Arm,  
Windows Hinges

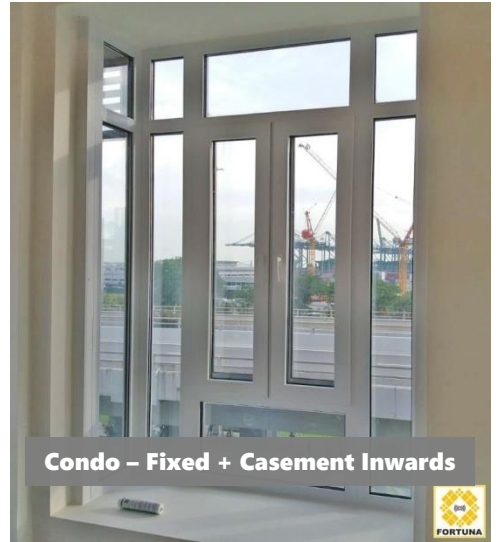
# Did You Know?

**Casement Inwards** System in conjunction with existing windows is **more effective** than a new sole Casement Outwards System.

# UPVC WINDOWS Installation



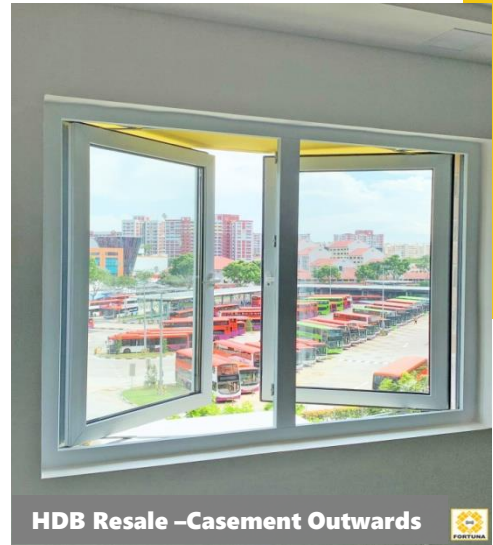
HDB Corridor – Fixed + Top Hung



Condo – Fixed + Casement Inwards



HDB BTO – Fixed + Casement Inwards



HDB Resale –Casement Outwards

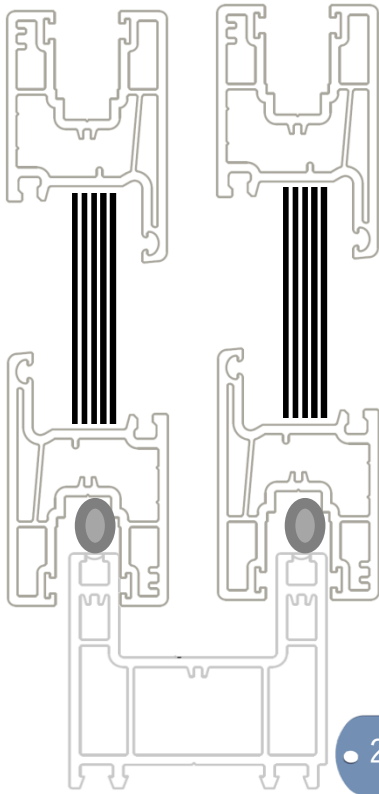


Condo – Casement Inwards



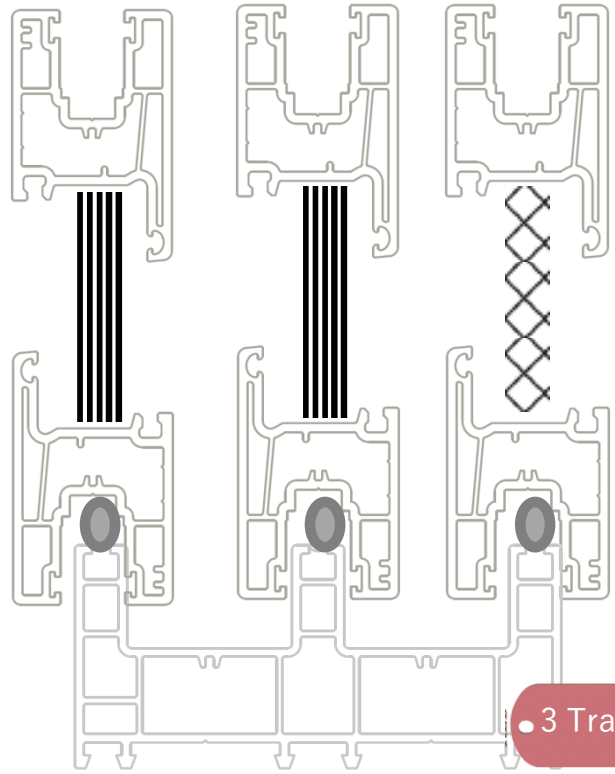
HDB BTO Low Lvl - Casement Inwards

# SLIDING WD SYSTEM



• 2 Track

2 / 4 Panel Sliding Windows



• 3 Track

2 / 4 Panel Sliding Windows + Steel Mesh



Concealed Handle



Manual Handle



Crescent Locking

Sliding Windows are less noise effective than Casement Windows; but still remains a popular choice for HDB Corridor Units and Kitchen / Yard Windows for more ventilation.

## Did You Know?

# REPLACE GLASS WITH MESH



Sliding Door With Mesh

Anti-Mosquito Mesh

Stop Crawler Pests

Enhanced Security

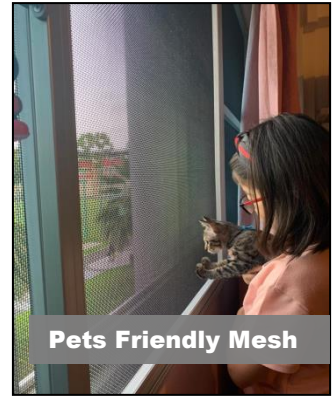
Corrosion Free

Pets Friendly Quality

Cut Resistant



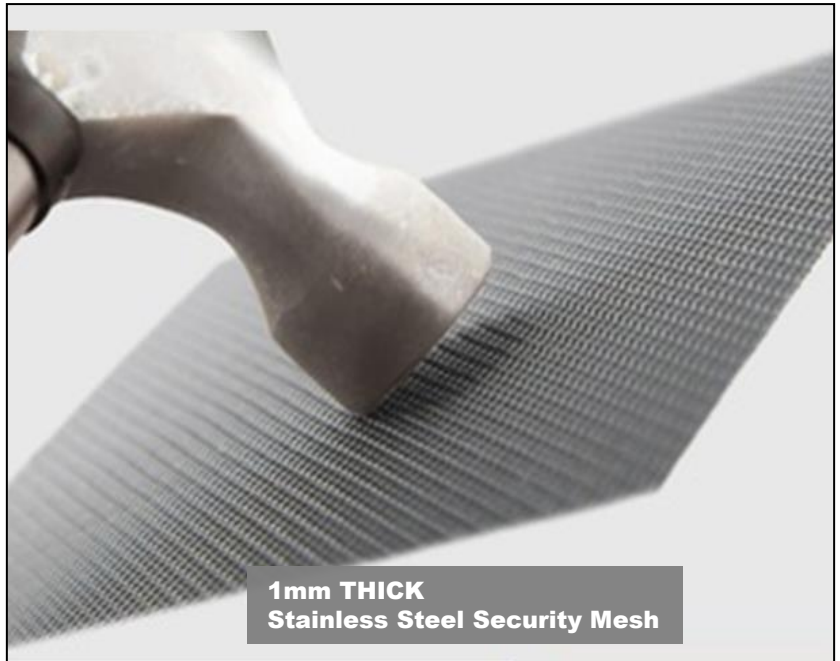
Scratch Resistant



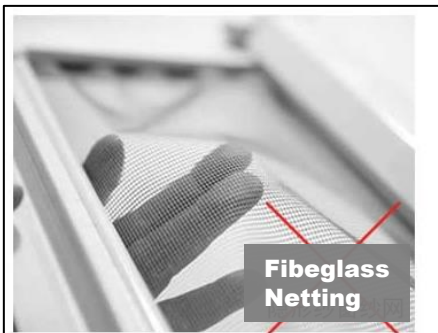
Pets Friendly Mesh



Fiberglass Netting

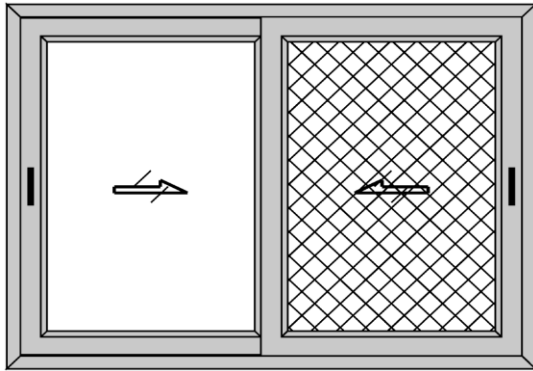


1mm THICK  
Stainless Steel Security Mesh



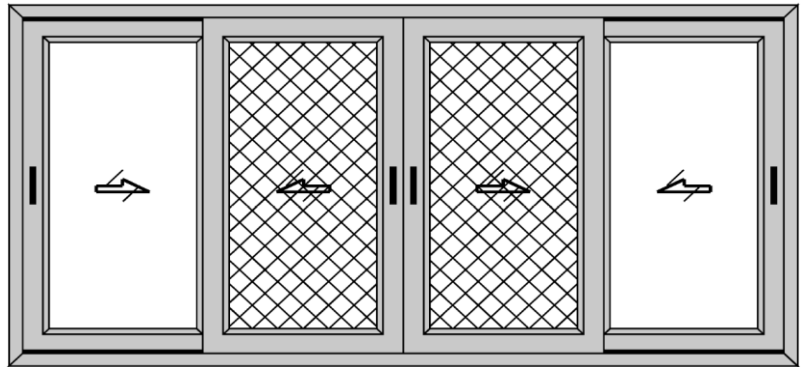
Fiberglass Netting

# Sliding Plus Mesh System



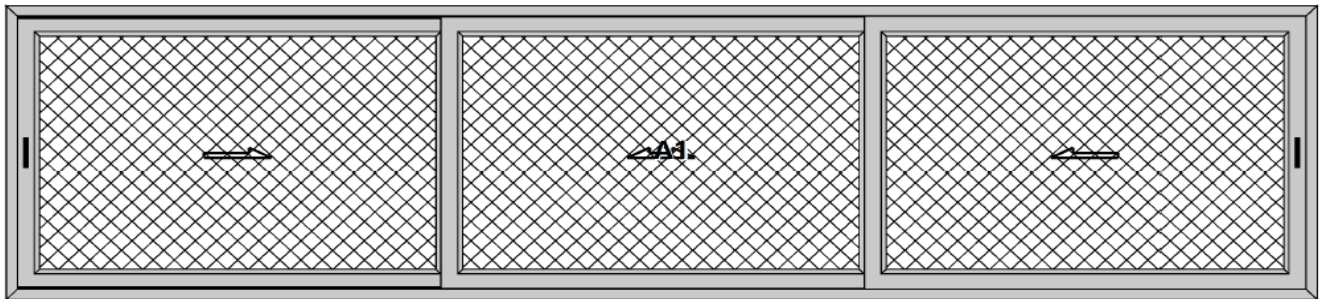
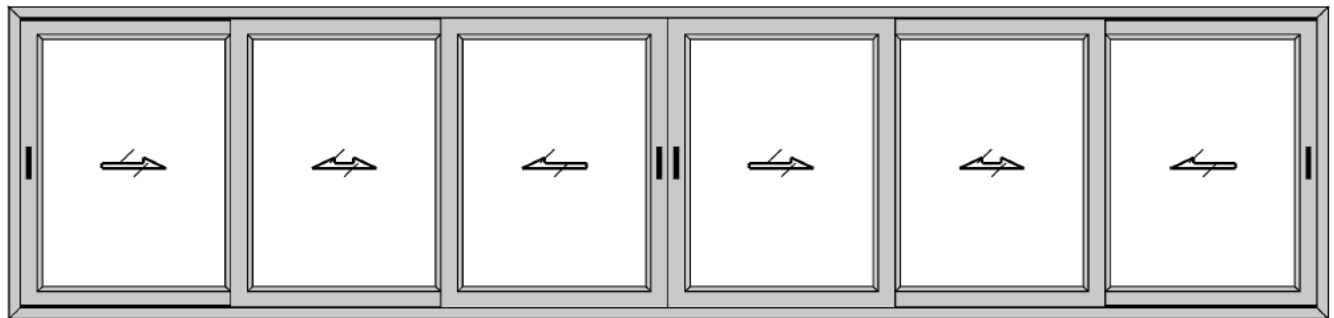
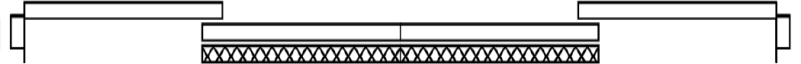
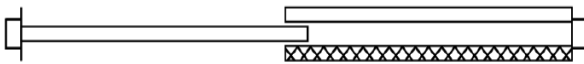
2 Panel Sliding + 1 Panel Mesh

• 3 Track



4 Panel Sliding + 2 Panel Mesh

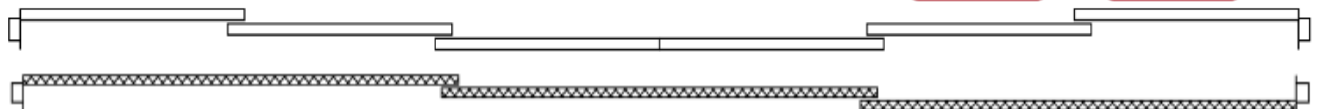
• 3 Track



6 Panels Sliding + 3 Panel Mesh

• 3 Track

• 3 Track



Glass Panel

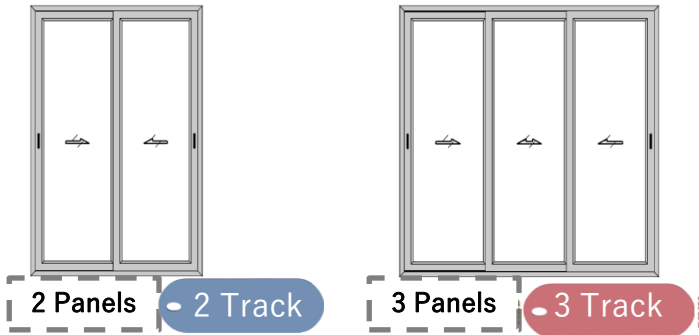


Steel Mesh

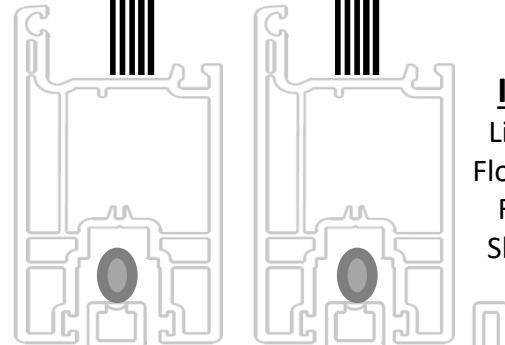
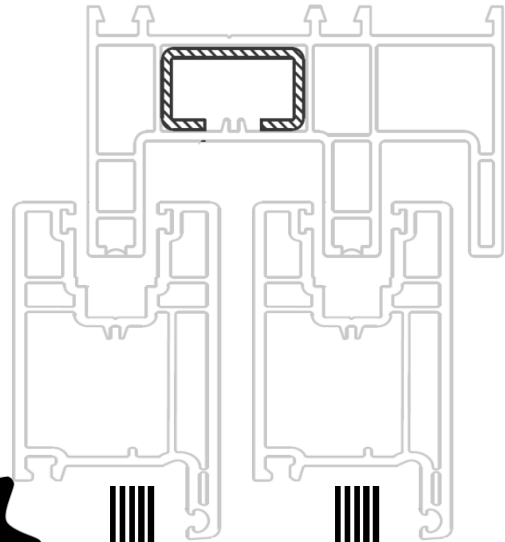


# **SOUNDPROOF DOORS**

# SLIDING DOOR SYSTEM



**NEW**



**In-House**  
Living Room  
Floor Finishing  
Flush With  
Sliding Track

**Outdoor Balcony**  
Floor Finishing  
(Frame sits on-top of cement level)

55mm

**MAX. SIZE  
PER PANEL**

Max Width: 1200mm

Max Height: 2400mm

Due to the wide surface area of Sliding doors, it is highly recommend to install Laminated tempered safety glass to reduce chances of glass breakage and replacement.

## Did You Know?

# FOLDING DOOR SYSTEM



P  
A  
N  
E  
L

3  
4  
5  
6



3+3 Series



Semi-Open



Open Fully



3+0 Series



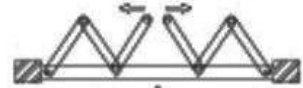
2+2 Series



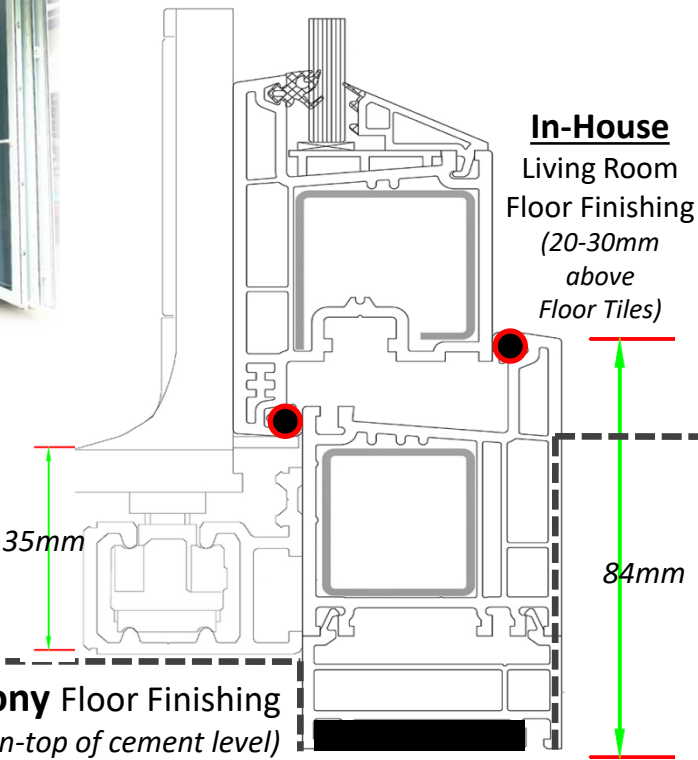
4+1 Series



5+1 Series



3+3 Series





# SWING DOOR SYSTEM

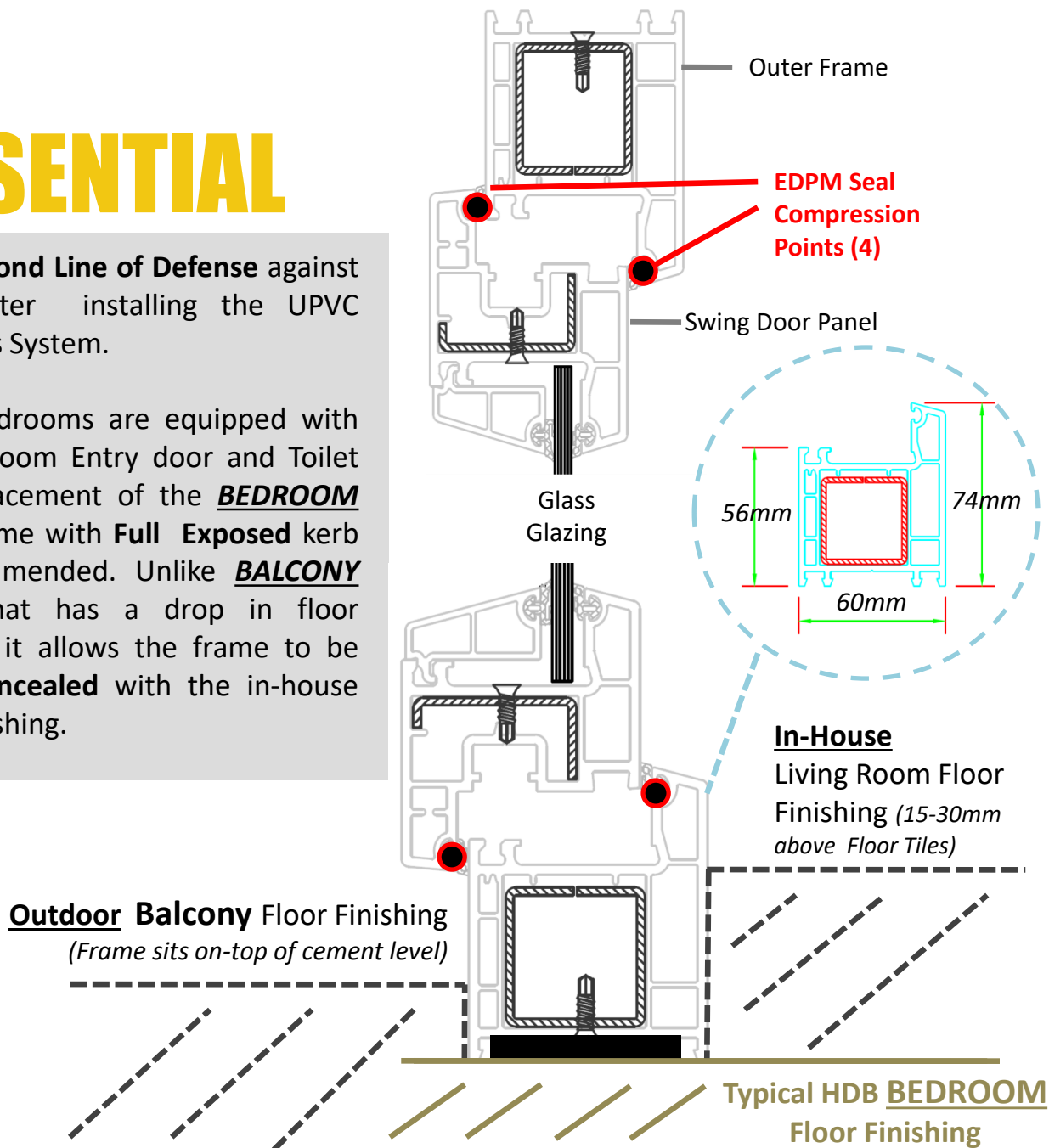
**\*\*[ BEST RECOMMENDED SERIES ]\*\***



## ESSENTIAL

**Your Second Line of Defense** against noise after installing the UPVC Windows System.

Most bedrooms are equipped with the Bedroom Entry door and Toilet Door. Placement of the **BEDROOM Door** frame with **Full Exposed** kerb is recommended. Unlike **BALCONY Door**, that has a drop in floor leveling, it allows the frame to be **Semi-Concealed** with the in-house floor finishing.



## Did You Know?

To Soundproof, all door frame sides and corners are to be double sealed. This means that a door kerb is necessary to prevent noise from entering through any door gaps.

# SWING DOOR SYSTEM

**\*\* ( BEST RECOMMENDED SERIES ) \*\***



**HDB Bedroom**



**HDB Bedroom**



**1 Fixed + 1 Swing**



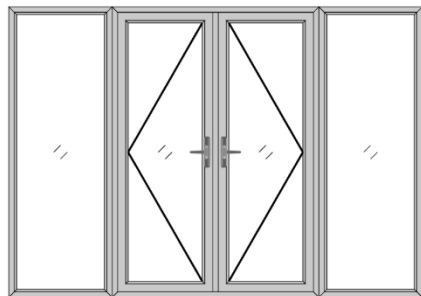
**Double Swing**



**2 Fixed + Double Swing**



**2 Fixed + Double Swing**



**2 Fixed + Double Swing**



**Door Handle Set**



**Thumb Turn Cylinder**



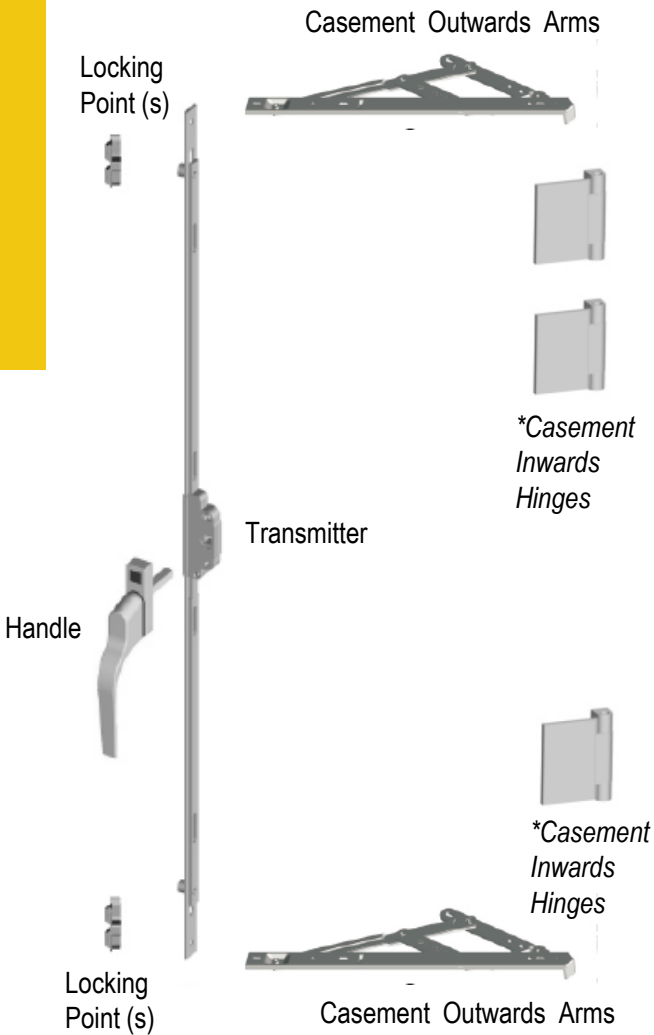
**2 Fixed + Double Swing**

**Fixed Glass Panels are more Soundproofing and less costly than Swing Doors. The bigger the Swing Door, the less soundproof it gets. Recommended sizes per panel are at 900mm width and 2100mm height.**

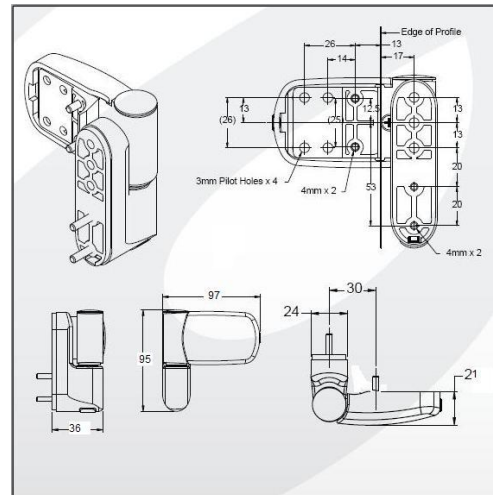
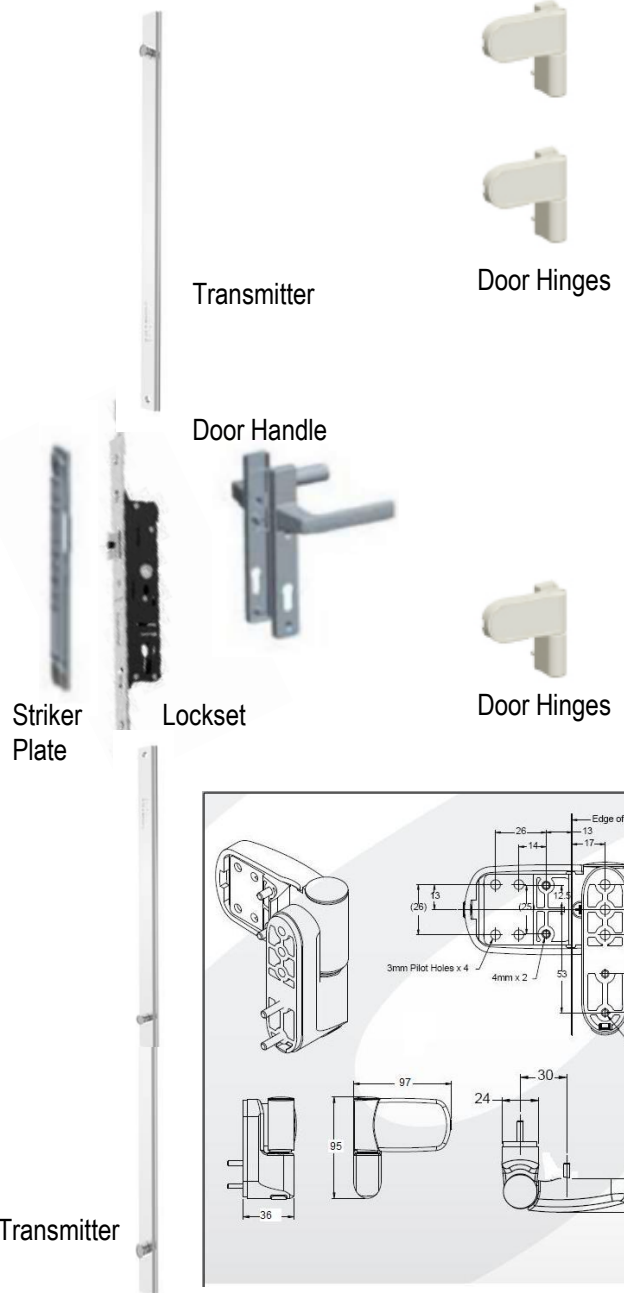
## Did You Know?

## Casement WD

## Swing DOOR



\* Denotes optional. Open Inwards hinges to replace inward opening window arms.



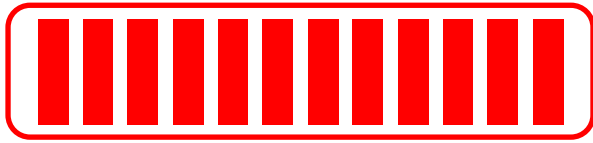


**How NOISE Sensitive Are You?**



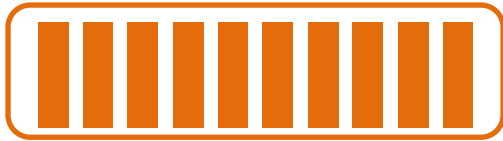
**NOISE AFFECTING YOUR FAMILY?**

# NOISE LEVEL (dB)



120 dB

Rock Concert



100 dB

Construction Machinery



80 dB

Heavy Traffic Roads



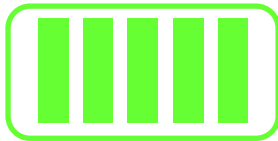
70 dB

Neighbourhood Shouting



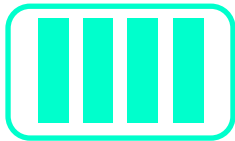
60 dB

Talking Conversation



50 dB

Office Environment



40 dB

Quiet Library



30 dB

Leaves Rustling

A Permanent Solution to a 40dB Bedroom!

# SOUND INSULATION TABLE

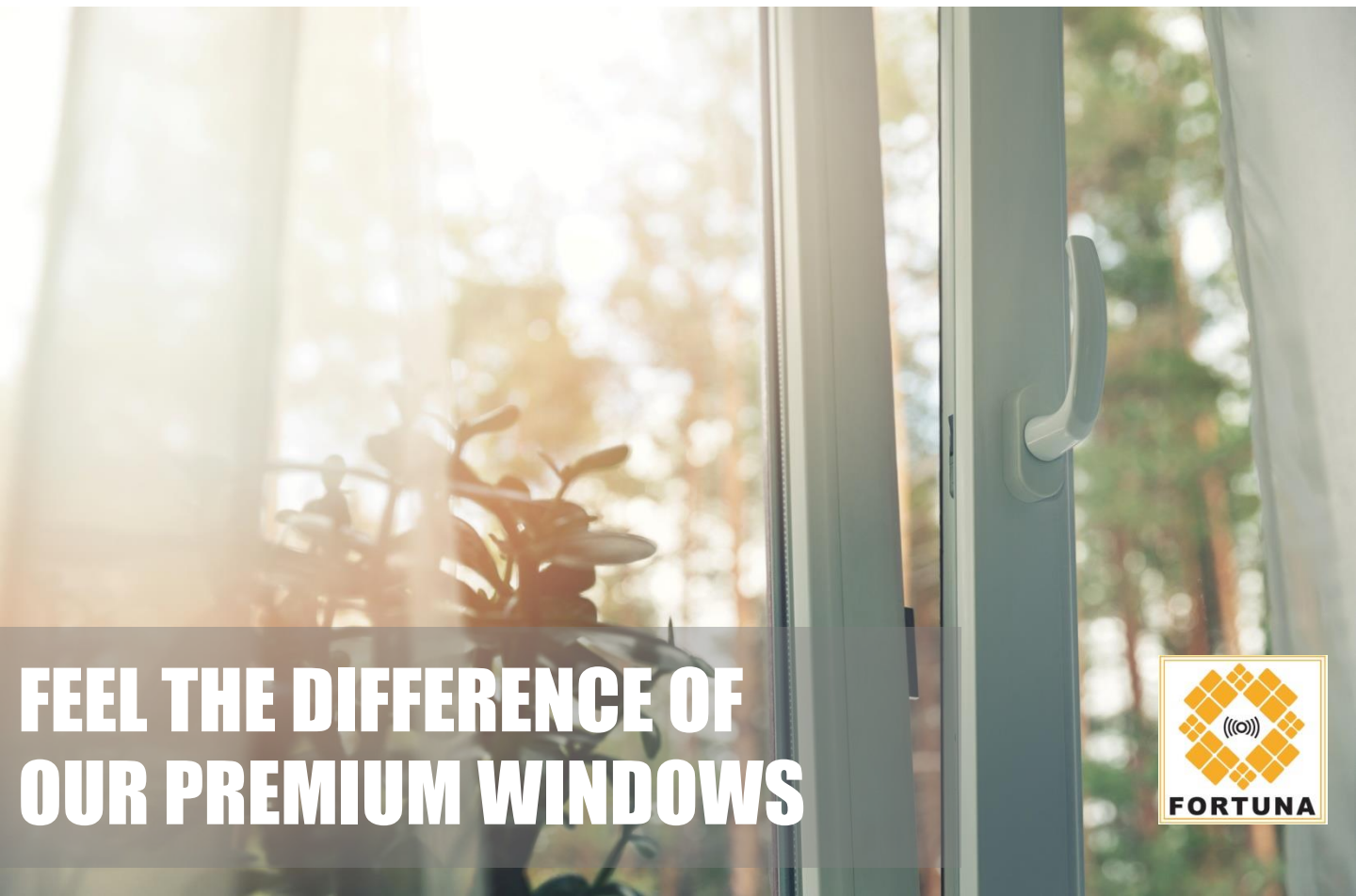


SOUND INSULATION TABLE			
Location & Noise Pollution Level	Average Noise Level for Day & Night	Recommended Soundproofing Level	Noise Protection Class
(LOW Density) Residential Areas	DayTime (7am -9pm) - 60dB NightTime (9pm-7am) - 50dB	Noise Sensitive : 32-35dB	
		Sleeping : 33-40dB	
		Working : 48-52dB	
(MEDIUM Density) Suburban Residential	DayTime (7am -9pm) - 65dB NightTime (9pm-7am) - 55dB	Noise Sensitive : 32-35dB	
		Sleeping : 33-40dB	
		Working : 48-52dB	
(HIGH Density) Urban Residential	DayTime (7am -9pm) - 75dB NightTime (9pm-7am) - 60dB	Noise Sensitive : 32-35dB	
		Sleeping : 33-40dB	
		Working : 48-52dB	

SELECTING THE RIGHT GLASS GLAZING				
Noise Protection Class	Proposed Glazing	Glazing Structure (mm)	Glazing Type (Image)	Alternative Package
	UPVC Profile Triple Laminated Series 20mm	6mm glass +1.52pvb +5mm glass +1.52pvb +6mm glass		Existing Window + <b>GRADE-3</b> (Open Inwards)
	UPVC Profile 30mm Double Laminated+Single Glazed <u>OR</u> Triple Air Series 30mm	6+12A+5 +0.76Pvb+6 <u>OR</u> 6+6A+6+6A+6		Existing Window + <b>GRADE-1</b> (Open Inwards)
	UPVC Profile Double Air Space Series 30mm	6mm glass +18A +6mm glass		
	<i>Heavy Duty</i> Aluminium Profile Double Glazed Series 19mm	6mm glass +9A +6mm glass		



**SLEEP WILL NEVER BE THE SAME**



**FEEL THE DIFFERENCE OF  
OUR PREMIUM WINDOWS**



# GLASS GLAZING



**Annealed Glass**

Breaks easily, producing long, sharp splinters



**Tempered Glass**

Shatters completely under higher levels of impact energy, and few pieces remain in the frame



**Laminated Glass**

May crack under pressure, but tends to remain integral, adhering to the plastic vinyl interlayer

Glass Type	General Description	Common Application
Annealed / Float	The most basic glass type that allows maximal light and heat penetration. Tinted (Colored) Glass are consider Float glass too.	Small area of Glass surface that does not require specific glass treatment
Tempered (Strengthened)	A type of goes through thermal or chemical treatment to increase its strength. Also known as toughened glass.	Residential In-House Glass Fixtures; Showerscreens
Laminated (Sound Insulation)	Two-piece of glass that hold together even in the event of shatter. Held in place by an interlayer, typically of Polyvinyl Butyral (PVB)	Vehicle Windscreen, Shopping Mall Glass Railings
Low-E (Low-Emissivity)	Energy-efficient glass designed to prevent heat exchange between outdoor and indoor. Recommended for areas where larger proportion of heat loss would be expected.	Exterior of Skyscraper Commercial Buildings

0.38pvb

0.76pvb

1.14pvb

1.52pvb

1<sup>st</sup> Layer of Glass

Polyvinyl butyral (**PVB**)

2<sup>nd</sup> Layer of Glass



*Laminated Glass*





# BUILT IN BLIND SYSTEM



3 Choices:



Tilt  
Lever

Slider  
Lever



## PRIVACY & SOUND REDUCTION

*Cohabits in a mere 30mm glass glazing space.  
Your Privacy adjustable by with just one finger.  
Blinds available in WHITE, GOLD and SILVER.*

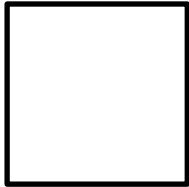
Built-In-Blinds System tested with **more than 140,000 cycles** - far above highest industry standards by 30,000 cycles.

## Did You Know?

# UPVC FRAME COLORS



## WINDOWS SERIES



WHITE



D.GREY

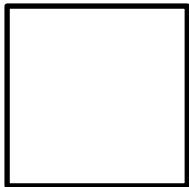


BROWN



OLIVE

## DOORS SERIES



WHITE



D.GREY

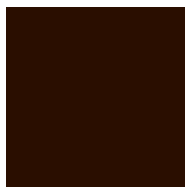
## \*PREMIUM GLOSSY SERIES



ALUM.



L.GREY



D.BROWN



MAHOGANY



BEIGE



BLACK

## \*\*RENOLIT WOODGRAIN

\* LONGER LEAD TIME (EST. 2-3 WEEKS)

\*\* EXCLUSIVE FOR PROJECT BASIS



**FORTUNA**

Company: Fortuna Sound Proof Windows Pte Ltd

Number: 64535555

ManagerName:

ManagerMobile:

AgreementCode:

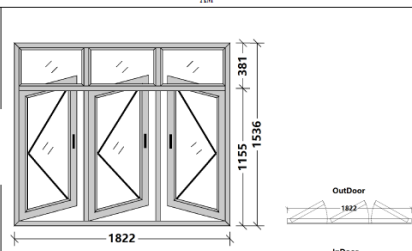
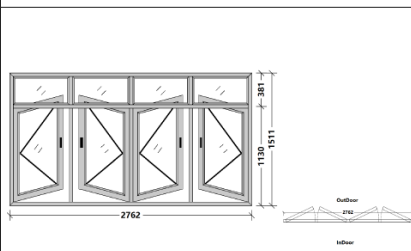
Document Date: 2019-08-19

RequireDate: 2019-09-19

CustomerAddress:

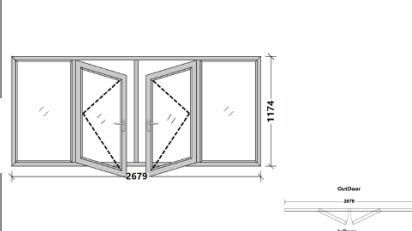
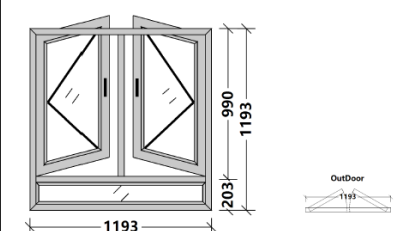
DealerName: Ms. Nora

Explain:



Series: UPVC fix + casement window  
Glass: 6mm clear-0.76PVB-5mm clear-0.76PVB-6mm clear  
Fitting:  
Description: inside see open outwards

Series: UPVC fix + casement window  
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Fitting:  
Description: inside see open outwards

Draft or Martin Date

Signature

WINDOW & DOOR DRAWING SUPPORT

# NOISE REDUCTION TESTING



Test Report No. 7191106897.MEC15-EMK  
dated 27 Feb 2015

**TUV SÜD**  
PSB Singapore

Chassis conformity.  
Add value.

**SUBJECT:**  
Laboratory measurement of airborne sound transmission loss of casement window system submitted by Fortune Decagate Design Pte Ltd on 5 Feb 2015.

**TESTED FOR:**  
Fortune Decagate Design Pte Ltd  
10 Kaki Bukit Road 1 #03-22  
KB Industrial Building  
Singapore 416175  
Attn: Mr. Victor Phuah

**DATE OF TEST:**  
24 Feb 2015

**DESCRIPTION OF SAMPLES:**  
An UPVC casement window system was installed onto the sample carrier for sound transmission test.  
Window system : UPVC casement window system consisted of 2 swing panel (refer to Figure 2 and 3)  
Glass used : 32mm thick laminated insulating glazed glass consisted of 5mm thick glass + 1.52pvb + 5mm thick glass + 9mm airgap + 5mm thick glass + 1.52pvb + 5mm thick glass  
Overall size : 1.4m (width) x 1.4m (height)

The boundary perimeters of the entire UPVC casement window system were sealed with silicone sealant.  
The technical drawing of UPVC casement window system submitted by the company was shown in Appendix.

**TUV SÜD PSB**  
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www.tuv-sud.com.sg  
SAC-SINGLAS  
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Page 1 of 9

Test Report No. 7191106897.MEC15-EMK  
dated 27 Feb 2015

**TUV SÜD**  
PSB Singapore

**RESULTS:**  
Values of sound transmission loss (TL) of the tested UPVC casement window system were tabulated in Table 1. Sound insulation rating was computed according to ASTM E413.

**Table 1: Measured Sound Transmission Loss, TL, and values of the shifted reference curve for STC = 41**

1/3 Octave Band Frequency (Hz)	Measured Sound Transmission Loss, TL (dB)	Shifted Reference Curve STC = 41 dB	Deficiency
100	29.0	22	0.0
125	24.4	25	0.6
160	26.9	28	1.1
200	30.5	31	0.5
250	30.5	34	3.5
315	35.5	37	1.5
400	37.2	40	2.8
500	36.9	41	4.1
630	39.8	42	2.2
800	40.9	43	2.1
1000	40.3	44	3.7
1250	41.7	45	3.3
1600	43.0	45	2.0
2000	44.4	45	0.6
2500	44.9	45	0.1
3150	46.4	45	0.0
4000	49.6	45	0.0
5000	52.1	45	0.0
Total deficiency (125Hz - 4000Hz)			28

The values in Table 1 were plotted as shown in Figure 1.

**Remark:**  
The tested UPVC casement window system achieved a sound transmission class, STC = 41.

**Francis Ee Min Yuen**  
Testing Officer

**Lemeng**  
Lam Chee Meng  
Product Manager  
Acoustics  
Mechanical Centre

Test Report No. 7191106897.MEC15-EMK  
dated 27 Feb 2015

**TUV SÜD**  
PSB Singapore

Figure 2 : UPVC casement window system facing the source room

Figure 3 : UPVC casement window system facing the receiving room

TÜV SÜD PSB Product Testing - ASTM E90

STC Rating of '41'  
(Sound Transmission Class)

ASTM E413 Standards

**Intertek**  
Total Quality Assurance.

**DELTA TOWERS ENTERPRISES LLC**

**TEST REPORT**

REPORT NUMBER: 1806010025HF-BP-1  
ISSUE DATE: 2018-06-20  
PAGES: 6  
DOCUMENT CONTROL NUMBER: LFTAPRC-SHF-OP-10a © 2018 INTERTEK

**Intertek**  
Total Quality Assurance.

**Test Report**

Issue Date: 2018-06-20 Intertek Report No. 1806010025HF-BP-1

**Test Items, Method and Results:**  
Test method: ASTM E90-2009(R2016)  
Temperature: 23 °C Relative Humidity: 70 %  
Volume of the source room: 112 m<sup>3</sup> Volume of the receiving room: 137 m<sup>3</sup>  
Specimen area: 0.5 m<sup>2</sup> (detail drawing see Test Photos)

Frequency (Hz)	TL (dB)
100	17.5
125	30.7
160	33.2
200	30.9
250	36.3
315	37.0
400	38.0
500	38.4
630	38.9
800	37.6
1000	38.8
1250	39.1
1600	40.8
2000	41.3
2500	42.1
3150	42.7
4000	42.3
5000	44.9

Calculated Sound Transmission Class: STC 40

Note:  
1. TL= Transmission loss  
2. Classified STC in accordance with ASTM E413-10, Classification for Rating Sound Insulation.  
3. The STC was for the whole wall assembly system.

**Intertek**  
Total Quality Assurance.

**Test Report**

Issue Date: 2018-06-20 Intertek Report No. 1806010025HF-BP-1

**APPENDIX: SAMPLE RECEIVED PHOTO**

**REPORT AUTHORIZED**  
When signed with physical or electronic signature, the contents of this report have been prepared and approved per Intertek's quality process in accordance with ISO 17025.

Jodie Zhou  
Title: Reviewer

Eryn Cui  
Title: Project Engineer

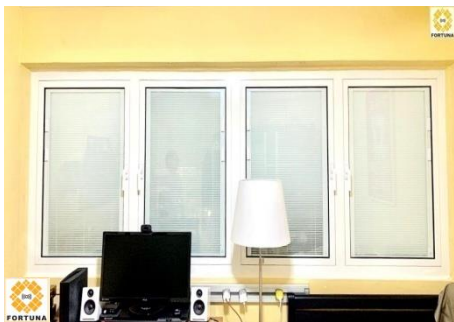
Revision:  
NO. DATE CHANGES AUTHOR REVIEWER  
1806010025HF-BP-1 2018-06-20 First issue Eryn Cui Jodie Zhou

INTERTEK Product Testing - ASTM E90

STC Rating of '40'  
(Sound Transmission Class)

ASTM E413 Standards

# RESIDENTIAL GALLERY



## FORTUNA SOUNDPROOF WINDOWS



**70% of our clients resides in HDB. The premium windows will serve them a long time and value adds to the next resale owner. Indeed, a valued investment.**

## Did You Know?

# RESIDENTIAL GALLERY



**FORTUNA**  
**SOUNDPROOF**  
**DOORS**



# PAST Installation Sites



## HDB: More than 800 Units

## Condos: (UP TILL DATE)

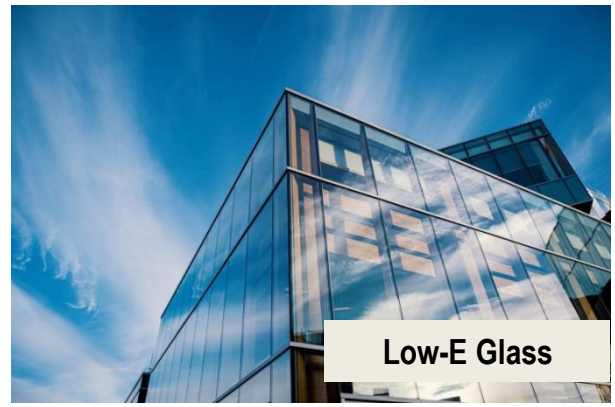
ADANA @ THOMSON  
ARCHIPELAGO  
ASPEN HEIGHT  
BELLEWATERS  
BEACON HEIGHTS  
BONTANIC GARDEN VIEW  
BOTANIQUE @ BARTLEY  
CHESTERVALE  
CAIRNHILL PLAZA  
CALARASI  
CANNE LODGE  
CASPIAN  
CENTRA HEIGHTS  
CHANCERY COURT  
CORALIS  
D' LEEDON  
D'NEST  
ELIAS GREEN  
HOLT RESIDENCES  
HIGH PARK RESIDENCES

IVORY HEIGHTS  
KING'S MANSION  
LIVIA  
LE CHATEAU  
MARINA ONE  
NEPTUNE COURT  
NICON GARDENS  
ORCHID PARK CONDO  
KEW GREEN LAGUNA PARK  
PARC MACKENZIE  
PARC SEABREEZE  
PARK WEST  
RIVERBANK @ FERNVALE  
RV RESIDENCES  
SIMS URBAN OASIS  
SHELFORD REGENCY CONDO  
SKYLINE RESIDENCES  
SIN MING PLAZA  
STURDEE RESIDENCES  
SUITES TWENTY TWO

THE ANCHORAGE  
THE CLEMENT CANOPY  
THE FOLIAGE  
THE INTERLACE  
THE FORD  
THE MARBELLA  
THE HACIENDA  
THE TREVOSE  
THE PARC  
THE METROPOLITAN  
THE VALES  
TWIN WATERFALL  
VALLEY MANSION  
VETRO  
VUE 8 RESIDENCE  
WESTWOOD RESIDENCES

## Landed: More than 60 Units

# Research & Development





## General:

**Is there a showroom that I can see your physical product showcase?**



*Yes, please feel free to make an appointment with us by dialing our hotline at 6453-5555 before making your way to 10 Kaki Bukit Road 1, KB Industrial Building, #03-22, S416175.*

**Can I install soundproof windows for my new HDB-BTO house?**



*Following HDB's regulation, the new BTO windows will require a permit that is not likely to be approved without a good and strong reason for the first 5-8years. However, if you are still keen; we are able to install our soundproof windows on the inside of the BTO apartment.*

## Technical:

**Can I keep retain my existing window and install soundproof glass?**



*The regular aluminium window frame that HDB supplies are basic calibre (width, thickness, internal structure), sufficient to support single glazed. While our FORTUNA uPVC frame System has default properties to insulate noise and heat penetration, and most importantly ; support up to 30mm glass thick glazing.*

**What is the difference of STC and sound decibel?**



*Decibel (dB) is the unit measurement of sound (Lower, the better). While 'STC' means Sound Transmission Class, refers to an integer rating of how well a building partition attenuates airborne sound (Higher, the better).*

## Sales Related:

**Can you send someone to my house for a onsite quotation for free?**



*Yes. It is preferred that our consultant can visit the actual site to assess the severity of the noise problem, and provide you with a more accurate quotation.*

**Does your soundproof windows comes with product warranty?**



*All Fortuna Soundproof Windows and Doors has 3 years of warranty as of the installation date*

# HOW TO PLACE A ORDER?

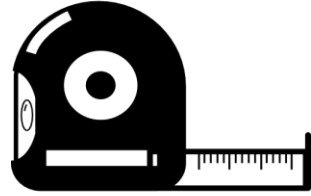


1



Arrange for a site survey. Let our consultant take noise measurement and recommend you the right system.

2



With quotation signed and deposit processed. A final site measurement to be arranged.

3



Our team will provide the Detailed Drawings with all specifications. Client to sign off before fabrication begins.

4



Fabrication Stage and Arrange for Installation. Receive Warranty Certificate from our after sales support team.

*FORTUNA SOUND PROOF WINDOWS PTE LTD  
10 Kaki Bukit Road 1, #03-22  
K.B Industrial Building  
Singapore 416175*

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Sales@fortunawindow.com  
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Find us on Facebook @Fortunawindow*



# **FORTUNA SOUNDPROOF WINDOWS**

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