

ALLOY

Partitioning Systems



www.alloy-asia.com

BuilderSmart Public Company Limited
905/7 Rama III Rd., Soi 51,
Bangpongpan,
Yannawa, Bangkok 10120,
Thailand

Telephone : +66.2683.4900
Fax: +66.2683.4949
E-mail Address
Sale Department :
Customercare@alloy-asia.com

Alloy Catalogue V.2019





ALLOY Partitioning Systems

Developing Workplace Solutions for the Future

ALLOY Is the leading Commercial Partitioning System Provider in Asia. Our innovative, special partitioning systems are designed to meet the particular needs of office, banking, healthcare and retail environment.

ALLOY Partitioning Systems is a comprehensive and integrated range of Flexible or relocatable systems for:

- Drywall partitioning
- Doorframe
- Glazed frame Partitioning
- Aluminium skirting

All suites are completely integrated and interchangeable, allow design consultants with the opportunity to be totally creative with their design concepts.



ALLOY Partitioning Systems

ALLOY Aluminium products are aimed to be used as a form of interior wall decoration. Alloy products are especially designed to be flexible. They can be used in all industries such as offices, health centers, hospitals, showrooms, government centers, and institutions including houses and condominiums.

ALLOY products are compatible with any design, and offered with more than 300 profiles available for your selection.

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Modern take on frames consist of:



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Benefit of ALLOY Basic

Exclusive Design

- Flexible: the Alloy frame system is compatible with one another and available in a variety of wall configuration.
- Delicate: when the frame is installed. The rivet head or the screw head on the outside is not visible due to our special design.
- Modern: due to it is an advanced system it will be efficiently used and won't be out style.

High Durability

- Material: uses high quality aluminium alloy grade A in accordance with standard 6063-T5
- Hardware: has high quality along with quality service
- Warrantee: is guaranteed by Alloy. Giving assurance in the quality of the product we offer

ALLOY Basic: ALLOY 40

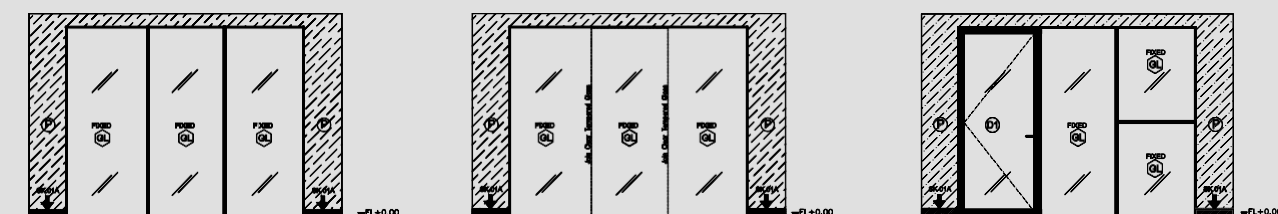
40 mm wide frame showcases a slim feel



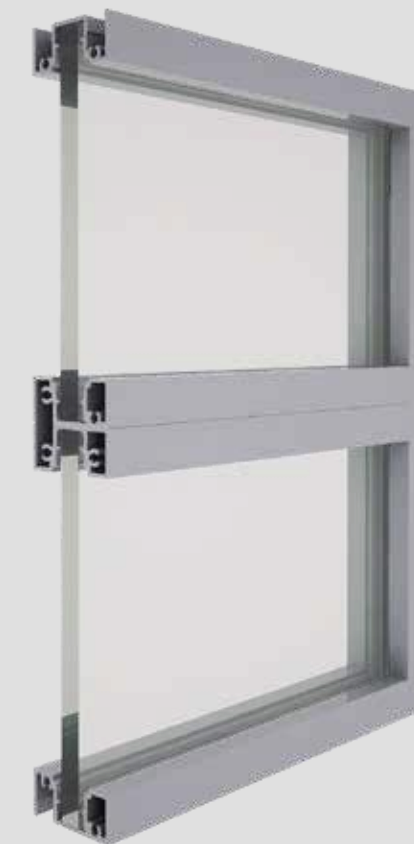
ALLOY 40 Glazed Partitioning System modules are separated by slim, vertical aluminium mullion, or alternatively clear dry. transparent PETG joints that can be used to create seamless contours.

Our frameless glazed doors, or veneer timber combine to provide the designer with an endless variation of minimalist workspace options.

Design Options



- Alloy 40 frame, sized 40 mm. x 18 mm.
- Supports glass thickness between 8 mm. – 10 mm.
- Able to assemble in several formats
- Screw-fixing system allows for a strong and neat perspective after installation



Performance	Specification	
Neat	GLASS THICKNESS	8 mm. - 10 mm.
Strong	FRAME DEPTH	40 mm.
Durable Finish	MAXIMUM HEIGHT	2.8 Meter
	MAXIMUM WIDTH	1.2 Meter/Panel
	ALUMINIUM THICKNESS	1.5 mm. - 2 mm.

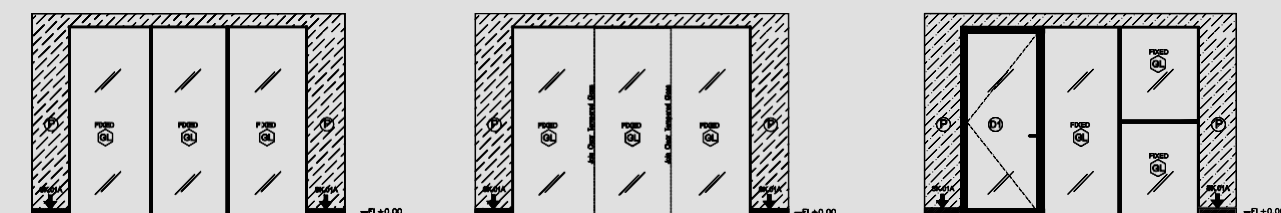
ALLOY Basic: ALLOY 80

80 mm wide frame is the mid range model



ALLOY 80 is a product of size between alloy 40 and 100 as another design option. ALLOY 80 is designed to be used in conjunction with steel stud BSM TIS 50.

Design Options



- Alloy 80 frame, sized 80 mm. x 18 mm.
- Supports glass thickness between 8 mm. - 10 mm.
- Able to assemble in several formats
- Screw-fixing system allows for a strong and neat perspective after installation



Performance	Specification	
Neat	GLASS THICKNESS	8 mm. - 10 mm.
Strong	FRAME DEPTH	80 mm.
Durable Finish	MAXIMUM HEIGHT	2.8 Meter
	MAXIMUM WIDTH	1.2 Meter/Panel
	ALUMINIUM THICKNESS	1.5 mm. - 2 mm.

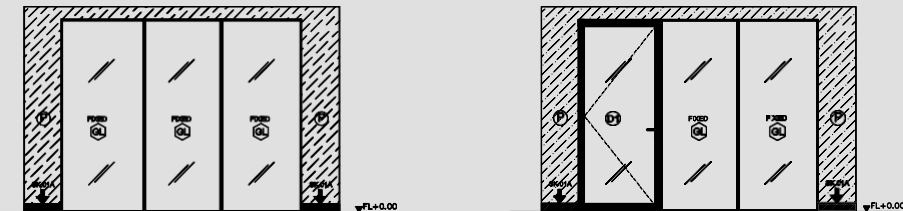
ALLOY Basic: ALLOY 100

100 mm wide frame

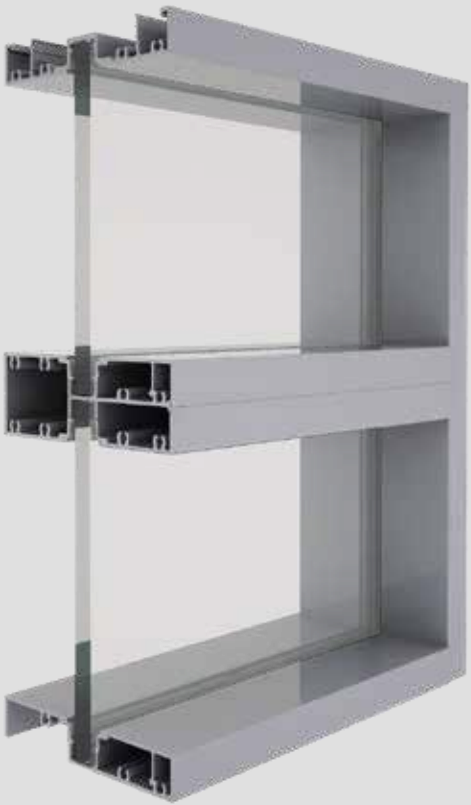


ALLOY 100 is noted for its exceptional performance strength. The system uses a 64 mm. BSM TIS stud plasterboard construction and is engineered to accommodate door thickness 45 mm & full height 2.8 meter doors.

Design Options



- Alloy 100 frame, sized 100 mm. x 18 mm.
- Supports glass thickness between 8 mm. - 10 mm.
- Able to assemble in several formats
- Screw-fixing system allows for a strong and neat perspective after installation



Performance	Specification	
Neat	GLASS THICKNESS	8 mm. - 10 mm.
Strong	FRAME DEPTH	100 mm.
Durable Finish	MAXIMUM HEIGHT	3 Meter
	MAXIMUM WIDTH	1.2 Meter/Panel
	ALUMINIUM THICKNESS	1.5 mm. - 2 mm.

ALLOY LT

Popular glazed frames



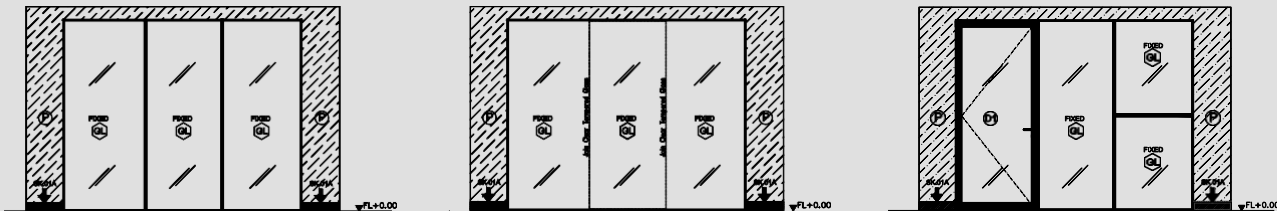
ALLOY LT is another option available for customers. The size of the frame is different from that of the Alloy Basic. This system is suitable to be used in government and private sectors. The Alloy LT system is also capable of interconnecting solid walls, door systems and optical systems.

- Alloy LT frame, sized 45 mm. x 25 mm. and 100 mm. x 25 mm.
- Supports glass thickness 8 mm. - 12 mm.
- Can be assembled in several formats
- Each aluminium frame is capable to be used together
- Screw-fixing system allows for a solid system after installation



ALLOY
LT

Design Options



Performance	Specification	
Neat	GLASS THICKNESS	8 mm. - 12 mm.
Strong	FRAME DEPTH	45 mm., 100 mm.
Durable Finish	MAXIMUM HEIGHT	3 Meter
	MAXIMUM WIDTH	1.2 Meter/Panel
	ALUMINIUM THICKNESS	1.2 mm.-1.5 mm.

ALLOYDSG

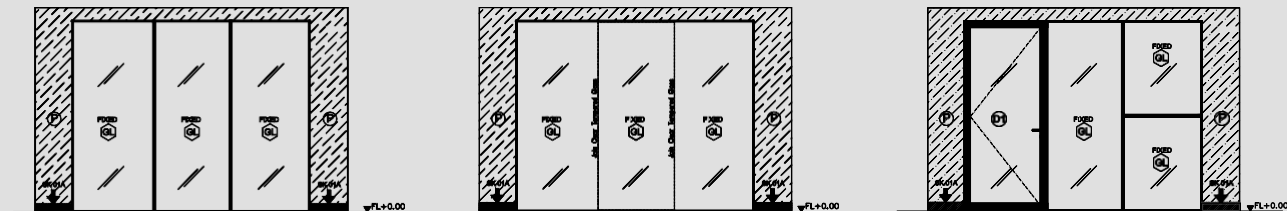
Double Single Glass Design



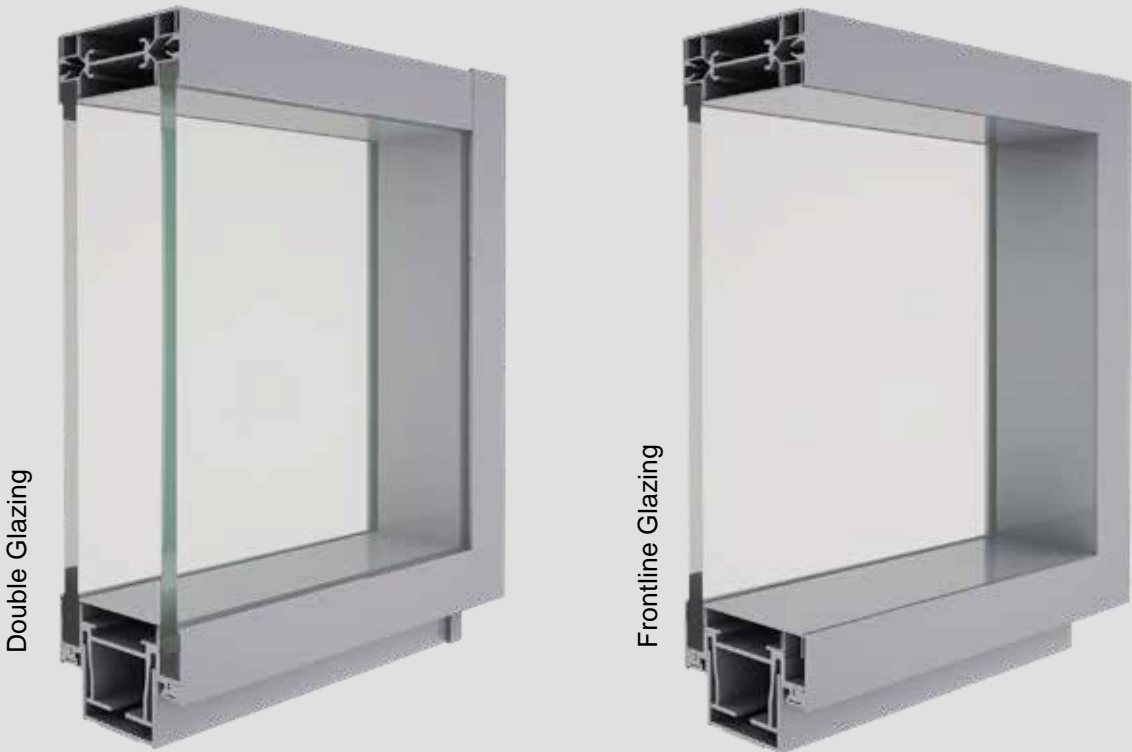
DSG's represents the latest in design innovation from ALLOY Partitioning System. DSG Glass walls are available in a completely flushed, single glazed frontline or performance double glazed configuration. Auto Venetian slim blinds are available as an added option. Acoustic plays an important role in the design of an effective workspace.

Alloy DSG is engineered to allow specialist consultants to effectively manage sound absorption and transmission characteristics of a particular work space using a combination of sound absorptive and reflective paneling affixed to DSG Universal framework.

Design Options



- DSG Frames, sized 80 mm. x 30 mm. and 100 mm. x 30 mm.
- Supports glass thickness 8 mm. – 12 mm.
- Able to be assembled in several formats
- Each aluminium frame are able to be used together
- Use a 3 mm. locking clip on the inside to keep the frame firmly in place
- Using 3M tape instead of rubber compression glass makes the job neat thus offers a better performance in sound absorption



Performance	Specification	
Neat	GLASS THICKNESS	8 mm. - 12 mm.
Strong	FRAME DEPTH	80 mm., 100 mm.
Durable Finish	MAXIMUM HEIGHT	2.8 Meter
Soundproof	MAXIMUM WIDTH	1.2 Meter/Panel
	ALUMINIUM THICKNESS	1.2 mm. - 1.5 mm.

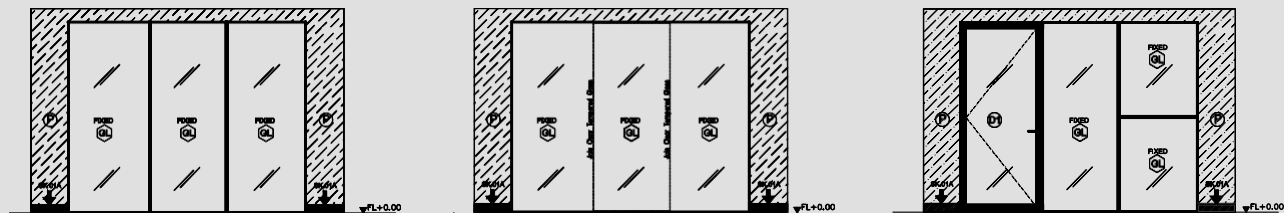
ALLOY Ellipse & ALLOY Aero span

Showcases a beautiful glazed frame



- Aerospan** • Inspired by the aerodynamic curves of an aeroplane in-flight, the clean curves of the Aerospan glazing system project a modern aesthetic, while offset mounted vertical mullion and visual interest.
- Ellipse** • This relocatable partitioning system captures the strength and performance characteristics of ALLOY 100 but softer look and feel. The round features of the Ellipse system makes this system an exciting new alternative for glazed and drywall partitioning combinations.

Design Options



- Aerospan frame, sized 150 mm. x 18 mm.
- Ellipse frame, sized 100 mm. x 36 mm.
- Supports glass thickness between 8 mm. – 10 mm.
- Able to assemble in several formats
- Screw-fixing system allows for a strong and neat perspective after installation



Performance	Specification	
Neat	GLASS THICKNESS	8 mm. - 10 mm.
Strong	FRAME DEPTH	150 mm., 100 mm.
Durable Finish	MAXIMUM HEIGHT	3 Meter
	MAXIMUM WIDTH	1.2 Meter/Panel
	ALUMINIUM THICKNESS	1.2 mm. - 1.5 mm.

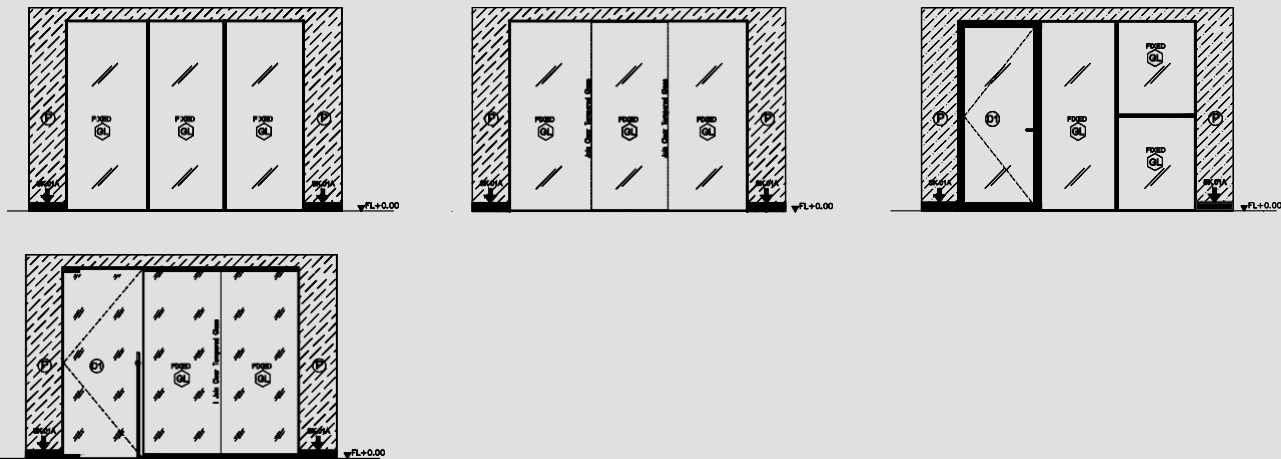
ALLOY Opera

Curved glazed horizontal frame



OPERA System is a curved design that is able to used in combination with ALLOY BASIC vertical systems. Opera is designed to be used in conjunction with a 50 mm height aluminium skirting for aesthetically pleasing walls throughout the line. The distinctive features of the system are noticeable when there is a sandblast finish on stainless steel color.

Design Options



- Opera frame, sized 40 mm x 50 mm.
- Supports glass thickness between 8 mm. – 10 mm.
- Able to assemble in several formats
- Screw-fixing system allows for a strong and neat perspective **after installation**



Performance	Specification	
Neat	GLASS THICKNESS	8 mm. - 10 mm.
Strong	FRAME DEPTH	40 mm.
Durable Finish	MAXIMUM HEIGHT	2.8 Meter
	MAXIMUM WIDTH	1.2 Meter/Panel
	ALUMINIUM THICKNESS	1.2 mm. - 1.5 mm.

ALLOY S40

Slim sliding door system



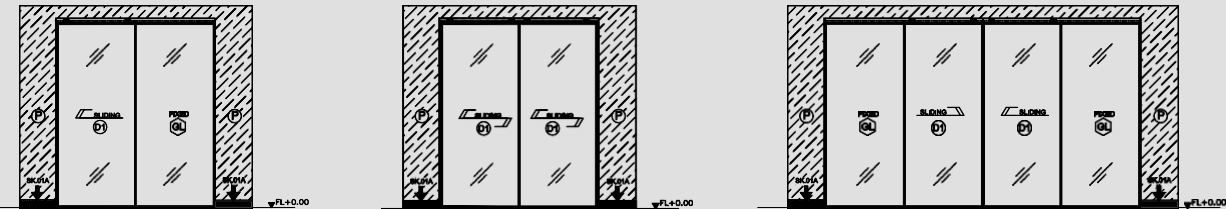
- Alloy S40 frame, sized 40 mm. x 18 mm.
- Sliding door systems are available for use on the upper rails
- There are a variety of options to choose from
- Slim in design
- No visibility for screw heads after installation
- Options to choose a variety of colours to suit preference
- Sliding Track & Cover plate is clip on system, easy to take off for maintenance roller



Alloy S40 • Top Hang slim sliding Door System.
Alloy S40 is a glazed sliding door system with an ultra-slim 40 mm. platform, ideally suited for using in rooms that require physical division without visual separation.

The system is engineered using the finest European quality silent running rollers with stainless steel ball bearings that can accommodate up to 80 kg. per door panel. Alloy S40 is used extensively in condominium and hotel fit-out, as well as home office and study renovations.

Design Options



Performance	Specification	
Neat	GLASS THICKNESS	8 mm. - 10 mm.
Strong	FRAME DEPTH	40 mm.
Durable Finish	MAXIMUM HEIGHT	2.8 Meter
	MAXIMUM WIDTH	1 Meter/Panel
	MAXIMUM WEIGHT	80 kg./panel
	ALUMINIUM THICKNESS	1.5 mm. - 2 mm.

ALLOY Vogue Wall

Slim stacker door system

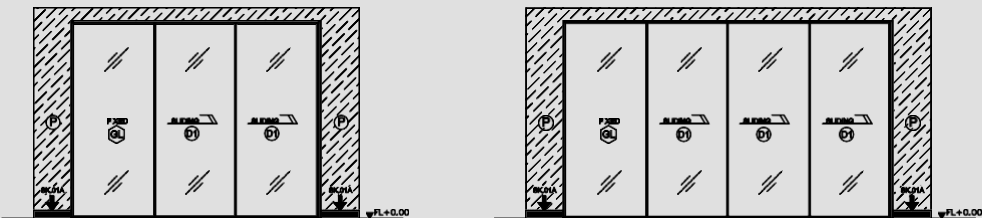


- Vogue frame, sized 23 mm. x 16 mm.
- Sliding door systems are available for using bottom track that is designed to match the shape of a nylon roller
- Slim frame provides the most practicality in terms of workable slim design
- Available in 4 panels for 100 mm. wall thickness
- Head frame only needs one track profile in order cover 4 sliding panels
- No visibility for screw heads after installation



Bottom Roller Stacker Sliding Door System
Vogue Wall is a stacking door system designed for residential and commercial applications. Vogue Wall is the perfect choice for a home where the bedroom opens up to a living room or kitchen, or opening up and create a physical division when necessary.

Design Options



Performance	Specification	
Neat	GLASS THICKNESS	8 mm.
Strong	FRAME DEPTH	23 mm.
Durable Finish	MAXIMUM HEIGHT	2.7 Meter
	MAXIMUM WIDTH	1 Meter
	MAXIMUM WEIGHT	60 kg./panel
	ALUMINIUM THICKNESS	1.5 mm. - 2 mm.
	SLIDING TYPE	Bottom Roller

Product Quality

ALLOY Partitioning Systems are engineered for speed and easy of installation. Our systems are designed in close cooperation with steel stud BSM TIS system to ensure that designed aluminium frame cover the wall as a comprehensive drywall system with a crisp, clean finish. No chips at the edge of the wall.



LEED Certificate

ALLOY Partitioning Systems are expertly crafted using the highest quality prime aluminium, blended carefully with extracted material. We have always paid close attention to our surface finishes, and we are proud that **ALLOY** Features in many of the captivation designs created by leading professionals through out of Asia Pacific region.

LEED-Leadership in Energy and Environmental Design

Leadership in Energy and Environmental Design or LEED is the Industry-recognized, voluntary standard that defines high performance green buildings and interiors. The U.S. Green Building Council (USGBC) has developed rating systems for all aspects of the built environment. **ALLOY** is proud to be a member of the U.S. Green Building Council.

How can **ALLOY** Partitioning Systems Help toward your LEED project.

ALLOY Partitioning Systems is able to significantly contribute towards the successful completion or your LEED driven project. As follows:

A.Recycled Content

Over a period of two years, BuilderSmart has worked closely with our manufacturing partners to develop a sustainable approach towards the manufacture of **ALLOY** Partitioning System:

The aluminium used in **ALLOY** Partitioning uses proprietary Recycled Technology to achieve a post-consumer recycled content in excess of 70%

B. Other LEED Contribution Points

Over a period of two years, BuilderSmart has worked closely with our manufacturing partners to develop a sustainable approach towards the manufacture of **ALLOY** Partitioning System:

- Resource Re-use.
 - Regional Materials Manufactured.
- Certificate of STC (Sound Transmission Class).



Certificate of STC

(Sound Transmission Class)

Introduction.

ALLOY DSG office Partitioning Systems has been tested for sound transmission performance.

Test Method

Specimen were installed between two reverberation chambers The space and time averaged sound pressure levels in the two rooms were determined, as well as the sound absorption in the receiving room. The sound pressure levels in the two rooms, the sound absorption in the receiving room and the area of the specimen was used to calculate the transmission loss value.

The air temperature and the relative air humidity in both the source and receiving room were measured. BS EN ISO 717-1:1997, "Acoustics – Rating of sound insulation in buildings and of building elements" was used in the interpretation and calculation of the results.

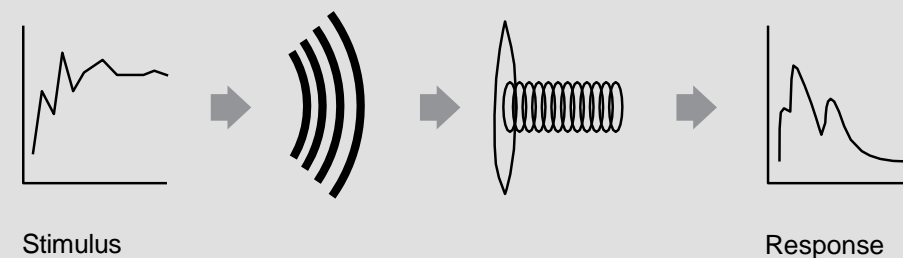
Measurement Results

The Transmission Loss is determined by the sound levels on both sides of the sample and analyzing the data in accordance with ISO 10534-2 (1998). The airborne sound transmission loss (TL) of the test sample for each individual 1/3 octave band center frequency and the STC rating number is shown in the next page.

The graphical representation of the values in the table is also shown.

The calculated weight noise reduction as described in ISO 717-1 is 45 dB.

DSG The sound transmission-loss measurements of the double glazing panel



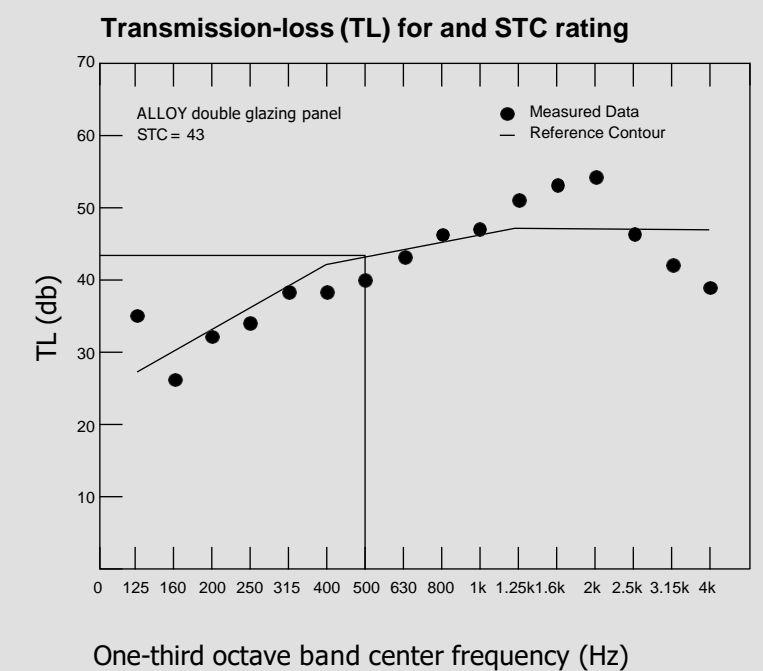
The airborne sound transmission-loss (TL) for each individual 1/3 octave band center frequency and STC rating of the test panel

Test panel : Double glazing panel 100 mm.
Test panel size : 304x244 cm.
Temperature : 26 °C
Relative humidity : 40%

Frequency (Hz)	TL (dB)
125	33
160	29
200	35
250	41
315	39
400	42
500	43
630	47
800	48
1000	46
1250	41
1600	43
2000	50
2500	55
3150	57
4000	59


STC 43
Maximum Deficiency 8 dB
Sum of Deficiency 25 dB

The airborne sound transmission-loss (TL) for and STC rating of the test panel



Colour Chart





Powder Coating

				
Black Satin	Black Sahara	Grey Sahara	Brown Sahara	Brown Satin
				
Extra Grey	Light Grey	Grey NA	White Sahara	White Satin
				
Silver Metallic	Sparkle Metallic SPM	Silver Sparkle Metallic	Firestone SHM	Brown 512 G SMT
				
Pearl Beige SHM	Champagne Sahara Met	Champagne SMT	Champagne Gold SPM	

Anodize

			
Black 517	Black 519	Brown 512	Brown 514
			
ST MATT	Stainless Hairline	Gold	Copper
			
NA	Olive Champagne	Pink Gold Hairline	

Wood Textured

			
NV202 Teak Textured	NV204 Mahogany Textured	NV203 Makah Textured	NV201 Oak Textured

Project References



Corporate Offices

Adidas
AIS
Amarin
Amway
Bayer
BITEC
BKI Tower
British Telecom
CP
COM 7
Deloitte
EPSON
Ernst & Young
FYI Center
Green Spot
HP
IBM
J. Walter Thompson
Johnny Walker
Johnson & Johnson

Health Care

ARTIUM HEALTH CLUB RAMA 6
Bangkok Hospital
BNH Hospital
Bumrungrad Hospital
Chulalongkorn Hospital
Fitness First
Ladprao General Hospital
Paolo Hospital
Pattaya Memorial Hospital
Phayathai Hospital
Piyavate Hospital
Queen Savang Vadhana Memorial Hospital
Rama Hospital
Ratchaphruek Hospital
Samitivej
Siriraj Hospital
Synphaet Hospital
Vibharam Hospital
Wuttisak Clinic

Institution

Australia Embassy
Bangkok City Library
Chulalongkorn University
ISB
KMUTT
Mahidol University
Naresuan University
New Zealand Embassy
NIDA
Norwar Embassy
Panyapiwat Institute
PEA
Rangsit University
RATCH
Royal Irrigation Department
Royal Thai Air Force
SIIT TU
SSRU
TAT
Thammasat University

Retail Branch

7-11
AIS Serenade Shop
BAY Branch
BBL Branch
Burger King Branch
City Bank Branch
GSB Branch
Harley Davidson-Hanoi
K Bank Branch
KFC Branch
KTB Branch
MK Restaurant
PIZZA Hut
S&P
SUB WAY
Sukishi
Swensen
Telewiz Branch
Texas Chicken
TMB Branch

Showroom

BMW
Ford
Honda
Huawei
ISUZU
Kawazaki
KIA
Mazda
Mercedes Benz
MG Motor
Mitsubishi
Nissan
PT Gallery
SAAB
Tata
Toyota

Shopping Mall

Central
Big C
Gaysorn Village
King Power
Major
MBK
Paragon
Robinson
Siam Discovery
Terminal 21
Tesco Lotus
The Mall
The Nine Rama 9
Union Mall
Zen