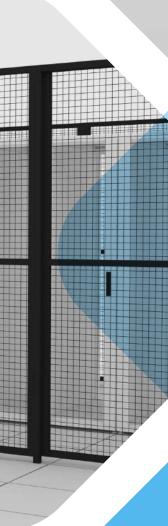


Enclosure and Airflow Management Solution Aisle Doors



SOLUTION BULLETIN / ABOUT US

OUR **STRENGTH & ABILITY**

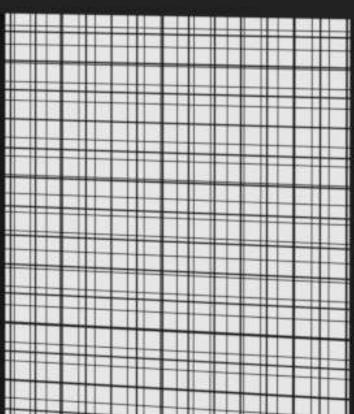
Highly flexible, high-performance aisle containment system that eliminates mixing of hot and cold air for maximum cooling efficiency and lower operating costs.

Innovative design that is customized to your environment and scalable to meet your future needs.

Increase temperature differential at CRACs / CRAHs for improved efficiency Eliminates hot spots to prevent equipment overheating and failures Adaptable for either cold aisle or hot aisle containment Lightweight, transparent, fire retardant grade panels for easy handing and installation On site modifiable to meet varying height and limited space requirements Universal rail system to accommodate any cabinet size and style Multi doors options including dual & single sliding doors to swing to fit any application Smoke or fire alarm activated panels design for early unobstructed fire suppression Fully resettable and testable panels improve safety and prevent damage

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			- Andrewski (State and Andrewski)
	THE R P. LEWIS CO., No. 14, No.		







OUR PRODUCTS & SERVICES

We provide Custom Designs, Supply & Installation services in one shop, our knowledges & expertise allow our solutions fit for today market demand from hyperscale data center to small data hall.

Our containment system is a robust aluminum extrusion tube construction that allow flexibility when used in customized solutions. It provides exceptional strength and support whilst minimizing weight. The profile and construction are aesthetically appealing, and the standard system can easily accommodate all toe and sizes of cabinets.

Furthermore, our containment system allows for many other data center services to be integrated. These services include: access control systems, lighting, CCTV, status switches, environmental monitoring sensors, VESDA, fire suppression systems, evacuation signs and exit points.

OUR MATERIAL MAIN STRUCTURE FRAME

Aluminum Alloy 6063-T5 Extrusions

Aluminum alloy 6063 is a medium strength alloy commonly referred to as an architectural alloy. It is normally used in intricate extrusions. It has good surface finish, high corrosion resistance, is readily suited to welding and can be easily anodized. Most commonly available as T5 Temper.

Comply with GB5237.2 – 2008 & GB/T 6892 – 2006 Standard

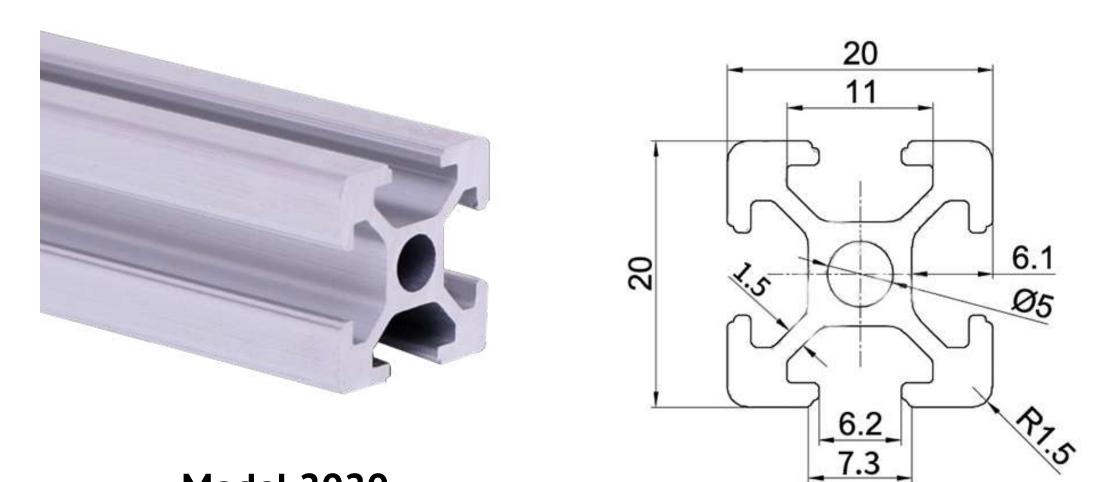


GENERAL CHEMICAL COMPOSITION					
Element	% Present				
Magnesium (Mg)	0.45 – 0.90				
Silicon (Si)	0.20 – 0.60				
Iron (Fe)	0.00 – 0.35				
Others (Total)	0.00 – 0.15				
Chromium (Cr)	0.00 – 0.10				
Copper (Cu)	0.00 – 0.10				
Titanium (Ti)	0.00 – 0.10				
Manganese (Mn)	0.00 – 0.10				
Zinc (Zn)	0.00 – 0.10				
Other (Each)	0.00 – 0.05				
Aluminum (Al)	Balance				

GENERIC PHYSICAL PROPERTIES					
Value					
2.70g/cm ³					
655°C					
23.5 x 10-6 ,					
69.5 GPa					
201 W/m.k					
52% IACS					
0.033 x10-6 G					



ALUMINUM ALLOY 6063-T5 EXTRUSIONS SERIES 20



Model 2020

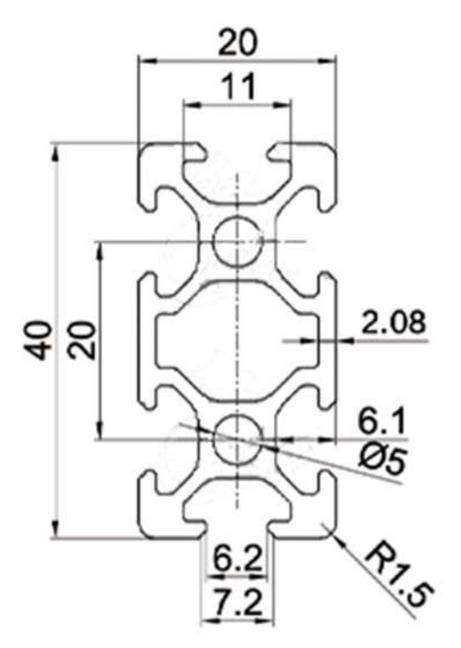
Available Colors:

- Aluminum Sliver Bright White Black

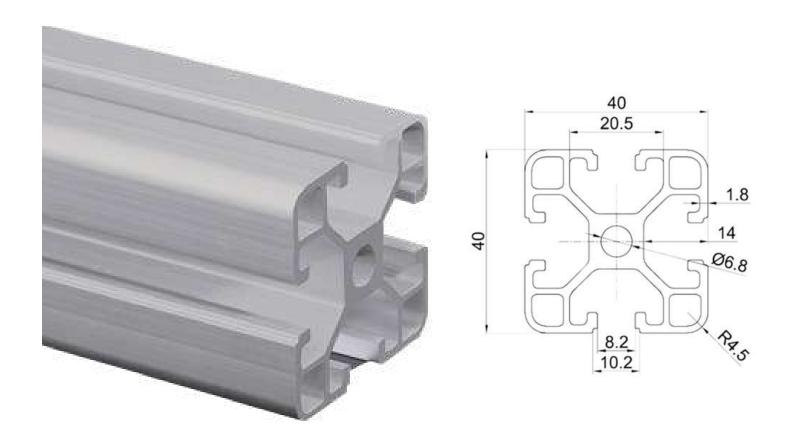




Model 2040



ALUMINUM ALLOY 6063-T5 EXTRUSIONS SERIES 40

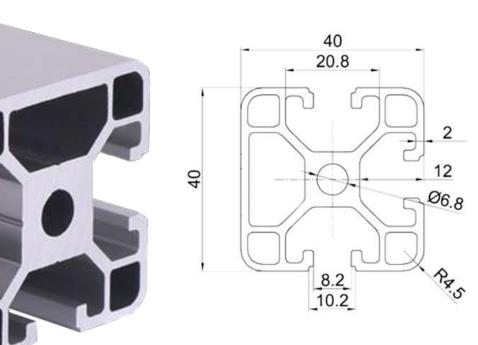




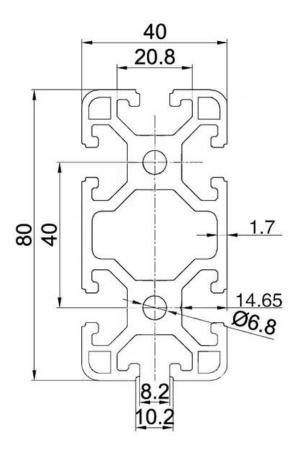
Model 4040

Available Colors:

- Aluminum Sliver Bright White Black



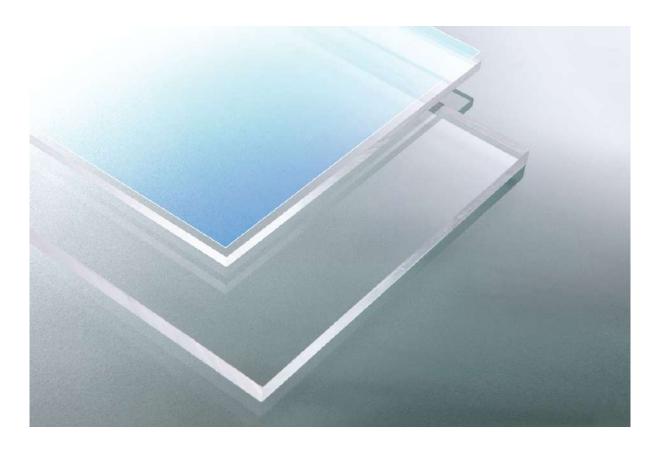


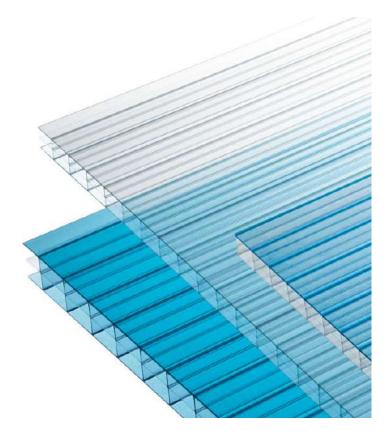


Model 4040L

Model 4080

HIGH GRADE OF **POLYCARBONATE (PC)** FLAT SOLID SHEET & **TWIN WALL SHEET**





Light Weight: $\langle \rangle$

1/3 weight of traditional glass, saving logistic, system self-weight, deployment & installation cost

High Impact Strength:

25–50 times of impact resistance of tempered glass and Acrylic Plastic

Thermal Stability:

Less property change (Like bending & shrinking) within -40°C~120°C temperature range

Weatherability:

 $\langle \rangle$

()

Co-extruded UV layer, Long-term UV radiation protection (Optional & Additional Charge Apply)

Heat Insulation:

Good thermal insulation performance, minimize heat consumption

Flame Retardancy:

Fire Retardant grade, self-extinguishing property, done not occur flames or generate toxic gases

High Clarity:

Up to 86% light transmission rate

Chemical Stability:

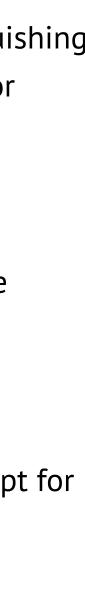
Resistant to most chemicals except for a few specific materials

Sound Insulation:

Superior acoustic insulation, ideal for making sound barrier

Formability:

Ease of fabrication, a huge range of shapes and sizes able to formed



HIGH GRADE OF POLYCARBONATE (PC) FLAT SOLID SHEET & TWIN WALL SHEET

Our PC materials are manufactured by top class supplier that using SABIC resin(s) PC0703, which has an UL 94 listing of E45329

Component - Plastics

SABIC INNOVATIVE PLASTICS B V

EUROPE - RESIN, PLASTICSLAAN 1, BERGEN OP ZOOM 4612 PX NL

EX9332T

Polycarbonate (PC)		furnished as pellets					
	Min Thk	Flame			RTI	RTI	RTI
Color	(mm)	Class	HWI	HAI	Elec	Imp	Str
ALL	1.5	V -0	(, ,)	=	80	80	80
NC	2.5	V-0, 5VB	.=:	-	80	80	80
ALL	3.0	V-0	-	÷	80	80	80

Comparative Tracking Index (CTI): -

- Dielectric Strength (kV/mm): -High-Voltage Arc Tracking Rate (HVTR):
 - Dimensional Stability (%): -

- Inclined Plane Tracking (IPT): -
- Volume Resistivity (10^x ohm-cm) : -
- High Volt, Low Current Arc Resis (D495): -

NOTE - Material designation may be followed by a color nomenclature consisting of either an alpha/numeric or a numeric/alpha combination.

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

Report Date: 2010-10-12 Last Revised:2011-10-21

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E45329	

IEC and ISO Test Methods

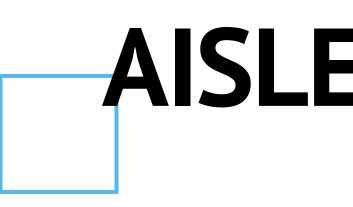
Test Name	Test Method	Units	Tested (mm)	Va
Flammability	IEC 60695-11-10, IEC 60695- 11-20	Class (color)	1.5	V-0
			2.5	V-0, (N
			3.0	V-0 (
Glow-Wire Flammability (GWFI)	IEC 60695-2-12	С		
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	С	-	
IEC Comparative Tracking Index	IEC 60112	Volts (Max)		
IEC Ball Pressure	IEC 60695-10-2	С	-	
ISO Heat Deflection (1.80 MPa)	ISO 75-2	С	-	
ISO Tensile Strength	ISO 527-2	MPa		
ISO Flexural Strength	ISO 178	MPa	-	
ISO Tensile Impact	ISO 8256	kJ/m ²	2	
ISO Izod Impact	ISO 180	kJ/m ²	-	
ISO Charpy Impact	ISO 179-2	kJ/m ²	-	



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Thickness





AISLE DOORS

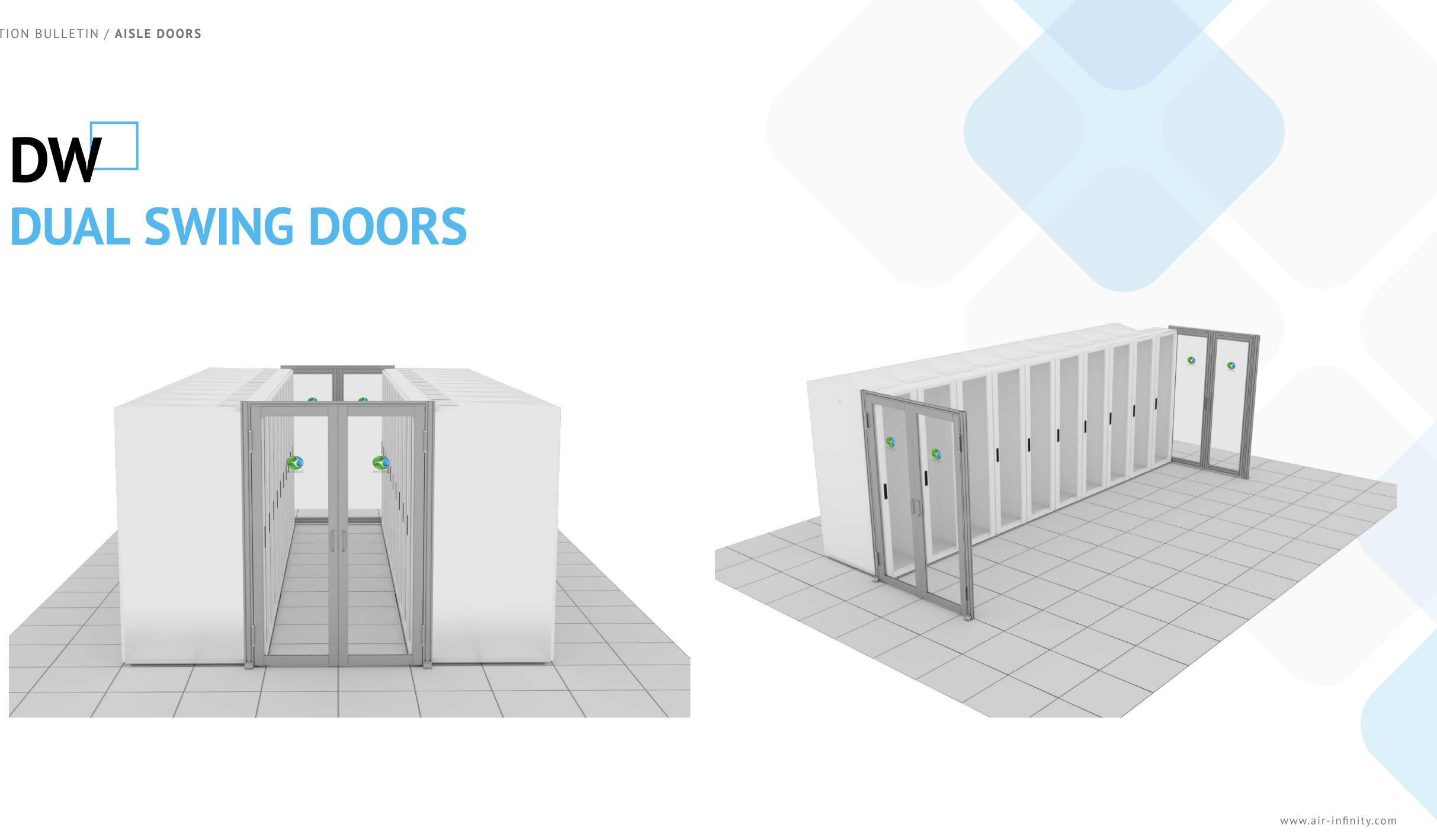






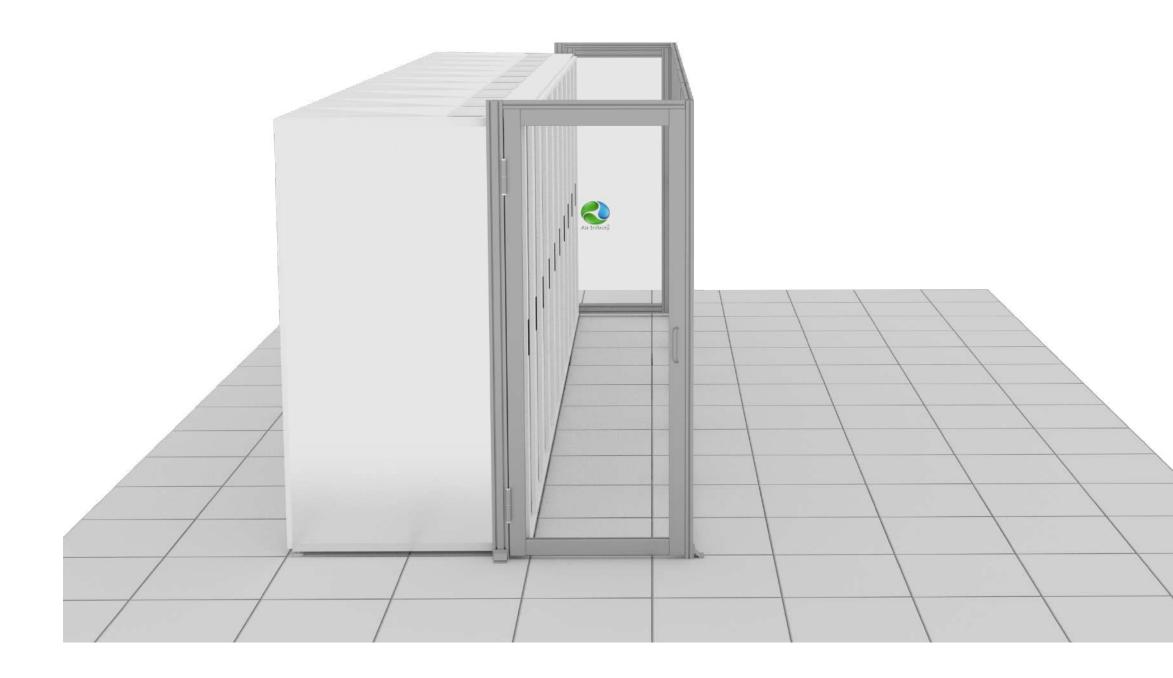






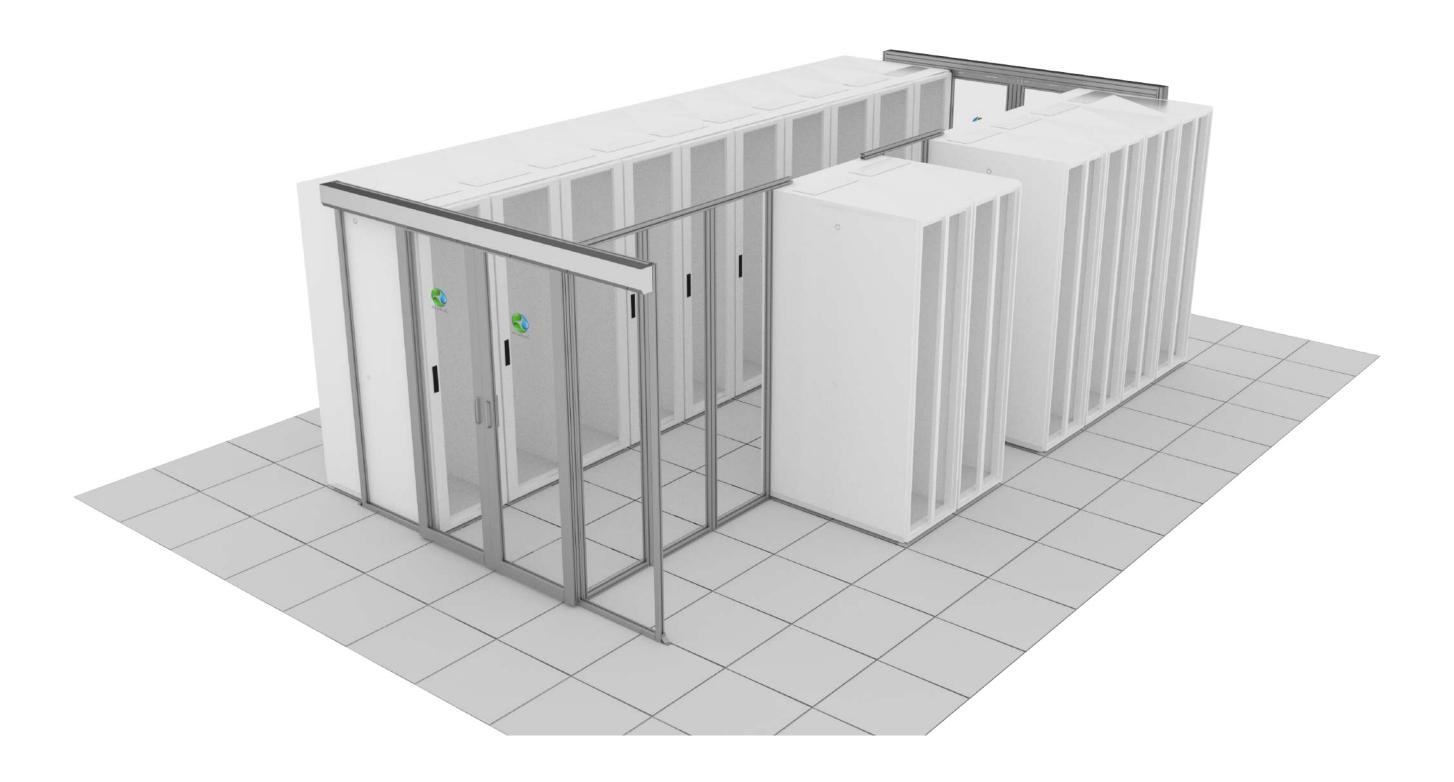
SOLUTION BULLETIN / AISLE DOORS

SW **SINGLE SWING DOOR**





DW+ **DUAL SLIDING DOORS + VERTICAL STAND PANELS**





AISLE DOORS PRODUCT GENERAL SPECIFICATIONS:

(DS – Dual Sliding Doors)

Dimension: 2100mm (Custom Height) x 2700mm (Width) x 130mm (Deep) Structure Properties: Extruded 6063-T5 Aluminum Alloy Weight: 75kg Approx. *Using with 3mm Polycarbonate Sheet Color: Aluminum Silver, Black or Bright White Door Open Clearance: 1200mm Width

Optional Panels Inserts

3mm Polycarbonate Sheet, Fire retardant grade 8mm Twin Wall Polycarbonate Board, Comply with Fire retardant grade 3mm Acrylics Sheet 4mm General Tempered Glass 4mm Tempered Glass, Comply with EN12150-1 or GB15763.2

Unique Features – Optional

One Hand Opening Auto Hold Power Free Auto Retract Modular Wing Panels

MODELS **DESIGNATION / TYPE**

1) Type – SW - Singl

DW - Dual

2) Door C

08 - 800n

09 - 900n

3) Color

S - Alumir

B - Black

4) Pannel

PC - Polyc TW - Twin

5) Functio

M - Manu

A - Power



		A	DS 1	12 2	S F 3	PC (∑ M 5
gle Swing Door	SS - Single Slidi	ng Door					
al Swing Door	DS - Dual Sliding	g Door					
Opening Width —							
mm	10 - 1000mm						
mm	12 - 1200mm						
inium Silver	W - Bright White	2					
el Type							
carbonate Plastic S	heet	TG - Temper Gla	SS				
in - Wall Polycarbon	ate Plastic Sheet	SG - Standard G	lass				
ion ———							
uel Open / Close er Free Auto Retract		pen / Close					



WARRANTY & POLICIES

1. Design Changes:

To allow continued progress, improvement, and adaptability in an advancing industry, all Air Infinity products reserves the right to make product changes as deemed necessary

2. Proprietary Rights

The catalog and drawings contain information deemed proprietary to Air Infinity and are to be used only for the purposes for which they are submitted and, further, shall not be copied in whole or in part without the prior written consent of Air Infinity

3. General Sales Terms

All quotations, order confirmations, published prices, and discounts based on official documentation from Filco System Co., Ltd, owner of Air Infinity brand name

4. Limited Warranty

Air Infinity will repair or replace products, accessories, and components assembled or deployed by Air Infinity that are

proven to be defective in material or factory workmanship under normal use during the Period of this Warranty **5. Warranty Period**

3 Months (90 Dyas) from date of completion with signed document (Non-transferable)

- 6. This warranty does not cover:
- excessive environment, or lack of maintenance
- to the purchaser's specifications
- Items ordered in error or not required
- 7. Power / Accessories

Warranty as specified by manufacturer subject to latest policy

8. Warranty Repair

End User shall report & obtain controlled authorization number before returning any items alleged to be defective to Air Infinity

• Failure in whole or part resulting from misuse, alteration, temperature, excessive humidity, corrosive

• Any materials or components used or manufactured pursuant

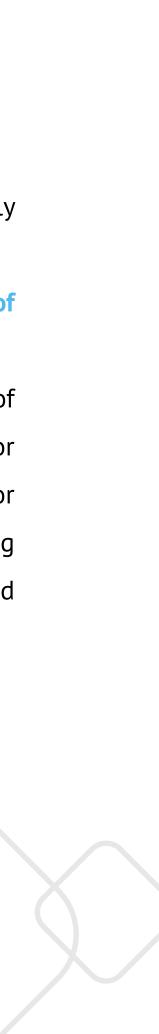
9. Inspection

Air Infinity shall have the right to inspect any and all allegedly defective items on-site at purchaser's convenience

10. Disclaimer of Consequential Damages and Limitations of Implied Warranty

Air Infinity disclaims any responsibility for loss of time or use of parts or equipment wherein Air Infinity, components, or accessories are used, transportation or any other incidental or consequential damage; and any implied Warranties including the implied Warranty of merchantability and fitness for intended use are limited to the duration of this written warranty







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Designed & assembled by Air Infinity in Hong Kong.