

# COMPANY PROFILE & PRODUCT CATALOGUE



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# PT. LIMAS BERKAT ABADI

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# **ABOUT US**

In line with rapid development in this country, and also fully supported by goverment programs, we are here as a national development partner to fully support progress in the construction sector. PT. Limas Berkat Abadi come with experience of the company founders, and employees. PT. Limas Berkat Abadi is fully committed to professionally providing the best work by prioritizing quality and always working together to prioritize customer satisfaction. The trust given by various parties, namely the government, the private sector, and individuals has created various construction works from installations to make us an expert and trusted in hygienic and architectural space sector. With the principle of "One Stop Solution" we are ready to provide the best installation services and providers. Also always maintaining the best quality and foremost in after-sales service. PT. Limas Berkat Abadi is always ready for customers and be a trusted solution at the right time, competitive prices, and especially the best solution.

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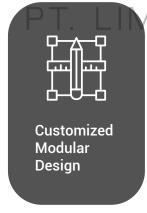
# Vision

Be the best & become the first choice of customers, as well as trusted as partner who prioritizes professionalism, trust, commitment, and consistency in maintaining output and quality, as well as contributing to the development and economy of the nation with the value of local wisdom.

# **Mission**

- 1. Provide products and services in the construction sector.
- 2. Serve customers with high quality and become professionals with the value of sincerity and honesty.
- 3. Understand and fulfill what the customer needs effectively and eficiently.
- 4. Build job and provice opportunities for young professionals to work.

# **Our Strengthness**





Industrial Standarized Production



Fast & Efficient Installation

# **Core Business & Area**

- Radiology Room
- Customization Door
- · Stainless Steel Door
- Sandwich Panel Door
- Automatic Swing Door
- Automatic Sliding Door
- Medical Equipment
- Modular Operating Theatre
- Hermetic Door
- Panel Door
- Linac Door
- Economic Door
- Steel & Fire Door



Banda Aceh | Sabang | Medan | Pematang Siantar | Jambi | Batam | Palembang Serang | Tangerang | Bogor | Depok | Jakarta | Bekasi | Bandung | Cirebon | Cimahi Pekalongan | Semarang | Surakarta | Yogyakarta | Kediri | Malang | Magelan | Blitar Surabaya | Bali | Lombok | Pontianak | Gorontalo | Balikpapan | Banjarmasin | Bima Samarinda | Pekanbaru | Manado | Ujung Pandang | Ambon | Kupang | Jayapura

# **Almar Modular SGP For MOT System**



# **Almar Modular SGP** (AL-SGP-AB5)

- Surface: Powder coated galvanized steel. (EGI + Polyster Coated) 0.8 mm + common gypsum board (12.5 mm).
- Heat insulator & sound blocking material polyster rockwool density 100 kg.
- Non-bearing wall space division that is not loaded by architecture building.

### **Product Charateristics**

The modular wall system cam adopt to the most varied building conditions.

The framework is formed by substructure.

The color of wall are available in version color.

We provide the products inspe etd an certificated with anti-bacterial coating and natural ingredient, which inactives bacteria or inhibits their growth.

We offer a construction-kit for functional and extensively equipped areas with demand on high quality regarding surface & function.

# **Product Description**

Outside layer is PCM 0.8 T + Gypsum board 12.5 T.

Inside layer is fire & waterproof gypsum board modular partion or PIR

45 kg/m<sup>3</sup> system in hospital room suitable quality.

Individual components are easy to dissamble & replace.

Surface used powder coated according to RAL (By Requested).

Panel thickness: Approximately 15 mm. Width dimension: 1160-1180 mm.

Partition height: 3000 mm.

Panel dimension: Approximately (1160-1180) x 3000 mm.

High performance thermal & noise insulation panel.

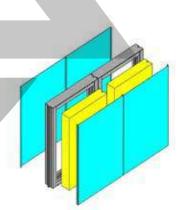
Using insulation with rockwool density 100 kg or PIR 45 kg/m<sup>3</sup> density.

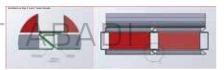
Cable recessed & empty condults and cable trays.

Silicon (antibacterial quality).

Rubber backpacking.

Option: Color.





# **Available Custom Color**





# **3 Models of Modular Operation Theatre**



# **Insulated Panel**

Insulated metal wall panel profiles energy efficient building as well as the insulated R panel, all with unique profiles, features and benefits. As codes and regulations continually cal for sustainable building material, our interior and exterior insulated metal panels offer numerous advantages over other construction products.

# Wall Glass Panel

Glass is the material which is extremely though, fireproof and steady to meet the surgeons and the highest hygienic requirement. No limits on glass in design, colors, patterns for graphics can be put on it per customers request.



# <u>PT. LIMAS</u> BERKAT ABADI



### **Stainless Panel**

All wall panel are clipped-into the support frame which allows future removal or changes on individual panel, the re-installation or wall panel repair work would be without.

# MEDICAL EQUIPMENT

# **Ceiling Pendant System**



# Single Arm Manual Surgical Pendant (AL-PDDMM-S2)

Single Fixed Arm version consists of central ceiling with rotation axle and one moveable carrying arm. Various service head can be attached to interface flange.

- Arm length: 1000 mm.
- Rotating angle: 340°
- Bearing weight: More than 87 kg.
- Locate freely with automatic brake.
- Gas source terminal optional (German style/American style/British style).

# Double Arm Manual Surgical Pendant (AL-PDDMM-D2)

Double Fixed Arm version consists of central ceiling mounting with rotation axle and two moveable carrying arms. Various service head can be attached interface flange.

- Arm length: 750+750 mm.
- Rotating angle: 340°
- Bearing weight: More than 87 kg.
- Locate freely with automatic brake.
- Gas source terminal optional (German style/American style/British style).





# Single Arm Electric Surgical Pendant (AL-PDDMM-S2E)

• Arm length: 1000 mm.

Rotating angle: 340°

• Lift range : 500 mm.

• Lift speed: 20 mm/s.

· Bearing weight: More than 87 kg.

· Locate freely with automatic brake.

• Gas source terminal optional (German style/American style/British style).



# **Double Arm Electric Surgical Pendant** (AL-PDDMM-D2E)

• Arm length: 360+930 mm.

Rotating angle: 340°

Lift range: 500 mm.Lift speed: 20 mm/s.

• Bearing weight: More than 87 kg.

Locate freely with automatic brake.Gas source terminal optional (German style/American style/British style).

# **Almar Scrub Sink 2 Bay (AL-HLSS2B)**



### **Available Custom Size**

Description	Dimension ( W . D . H )	
1 Person	800 x 600 x 1550 mm	
2 Person	1600 x 600 x 1550 mm	
3 Person 2100 x 600 x 1550 mm		
Or Custom Size		

# **Product Specifications:**

- · Material SUS 304 thickness 1.2 mm.
- Available in 1, 2, and 3 washing station.
- Dimension 1600 x 600 x 1550 mm/Custom size.
- Water heater Included (In one system/integrated)
- Using automatic sensor system & manually system for emergency use.
- Hand dryer, auto soap system is included.
- Using sterilized ultraviolet lamp system.
- Using filtering system for 5 micron or can be custom, based on requested.
- With 2 bay faucet automatic system & 2 foot system for manual used.
- With safety system electricity to avoid leakage electricity.
- Low cost electricity consumption, AC 220 volt, 50 hz, 250 watt.

# Almar Dynamic Pass Box Stainless Steel SUS-304 (AL-MPB-8050) Double Pass Through Box Interlock System Module

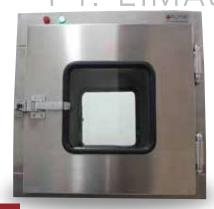


# **Product Specifications:**

- Made from stainless steel SUS 304.
- Dimension 1400 x 800 x 500 mm Ex.Almar.
- With 2 lamp indicator red & green.
- With UV lamp & timer activation auto running once door open system Ex.Almar.
- Two side open interlock door-system PLC Ex.Almar.
- With TL lamp.
- With booster fan CKE.
- Electronic control panel.
- Pre filter & HEPA filter.
- With fluorescent lamp & push button function.
- Full warranty 1 year for service & spare part.
- Differential pressure gauge (Magnehelic).

# Almar Pass Box Stainless Steel SUS-304 (AL-MPB-8050)





# **Pass Box**

At generally Pass Box also used in the clean and cleanless area. Pass Box also used in micro technology, bio technology laboratories, pharameutical and electronics factory.

### **Product Function:**

- It has the function of air valve to prevent high presure to leak in the clean room.
- It can reduce the time when operating personel walk to prevent bring dust in and keep the stability of the clean room.

# ACCESSORIES MODULAR OPERATING SYSTEM

# Almar X-Ray Viewer (AL-VB-2NC)

Almar X-ray Viewer Box is a part of Medical Equipment which is based on LED X-ray illuminator. Keeping the needs of doctors in mind along with the continuously changing demands of hospitals and nursing homes. Our X-ray Viewer can be effective LED Viewing System to view MRI, CT, and X-ray.

# **Types**

- 1. Single Screen 1NC
- 2. Double Screen 2NC
- 3. Triple Screen 3NC

### **Product Features:**

- Slim, Durable and Energy Effective.
- Efficient, Savings range from 82% to 93%.
- No UV Emission.
- Unparallel latest LED backlight technology,
   4-5 times longer than regular CCFL/EEFL.
- Power Efficient, LED light with long life up to 100,000 hours.
- Initial Brightness can be set.
- Film activation switch automatic shutdown if no film inserted.
- 12 step digital dimmer to get the perfect brightness.
- Light : Parallel uniformity brightness uniformity : > 90%.

Scree	en	Single Screen	Double Screen	Triple Screen	Quadruple Screen
Dimensions	Frame (W.H.D)	503 x 503 x 29 mm	880 x 503 x 29 mm	1255 x 503 x 29 mm	1631 x 503 x 29 mm
(W.H.D)	Viewing (W.H)	360 x 440 mm	736 x 440 mm	1112 x 440 mm	1488 x 440 mm
Power Cons	umption	15 W	30 W	45 W	60 W
Light So	urce	IIVPAS	BEBK	AT BRA	LED
Power Supp	oly Input	AC 100-240 V 50/60 Hz			
Brightness	s (LUX)	> 10.00	> 10.00	> 10.00	> 10.00
Net Weigh	nt (Kg)	4.8	8.8	12.4	16
Color Temp	erature	5,900 - 9,000 K			
Luminance Adjustment 20% - 100%		20% - 100%	20% - 100%	20% - 100%	20% - 100%



# **Almar Medical Storage Cabinet**

Medical storage cabinet made by stainless steel SUS 304 grade, easy of cleaning and anti rust material. By using medical storage cabinet, it's guarante to keep medical equipment are safe & sterile.

# Almar Pacs Cabinet (AL-HLOC-1220)

Material : Stainless Steel

Dimension : 1200 x 2000 x 4000 mm

or Custom size.



# Almar LED Operating Timer (AL-OTINT-01)

Because of the larger number shape, so that it can be seen more clearly even from a long distance. Using electric power as a source of energy. If the electricity is off, the clock will off. But the time will be automatic updates if the electricity is on again ( no need to reset ).

### **Product Features:**

- Display countains bright red segment LED.
- Enter the characters on the screen using the thermo humidity sensor and keypad.
- There are digital number setting in the date, time and count down fields.
- Use an average maximum power of 80 watts.
- Input voltage of 20 volts AC.

- Material made of alumunium anodize with black.
- PCB uses double layer fiber (FR4) which is resistant
- to heat and not easy to corrade.
- Display TV LED 32 Inch.
- With digital system programming.
- Developed system by LBA.



# Almar PB Lead Sheet (Certificate Based)

Lead sheet is esed as a protective or coating on the radiology room in the hospital. This product his made from pure tin levels close to 100% so it has perfect radiation resistances.

Dimension: 1 mm, 1.5 mm, 2 mm, 3mm.

# Almar PB Glass / Anti-radiation Glass (Certificate Based)

PB Anti-radiation Glass can be used effectively in X-ray / CT-Scan rooms, radiotherapy rooms, surgical rooms, laboratories, material testing, and many other applications because it provides protection against radiation. This PB glass is transparent and allows X-ray or CT-Scan room operators to monitor the process of taking pictures or radiation therapy.

Thickness: 15 mm / 20 mm.





# Almar Control Panel ( AL-LCCPT-1 )

- 32 gb of storage and expandable 500 gb external storage.
- OS: With mini PC digital.
- Zoom : 16:9.
- Resolution: 1920 x 1080, Support 10 touch & high resolution.
- Surface hardness : > 6 h.
- Wireless network bluetooth 4.0.
- Wifi and USB 2.0 transmission.
- Emergency System: One-button emergency start.
- App: Mobile App remote synchronization operation monitoring,
- PC-side cloud monitoring service platform, real-time monitoring.
- CPU: A7 eight-core processor, 4 gb of running memory/custom updated.



# **Almar Information Panel & System Integrated** (AL-IP-01)

- Material: LED TV 32" or above (can).
- Dimension: 610 x 1050 x 200 mm.
  Software developed by Limas & can integrated to another trigger.
  Enable to install if necessary: Air control box, Power switch, etc.



# **Almar LED Light** (AL-1230P)

Dimension: 1200 x 300 x 22.5 mm



# **Almar Power Ground Module**

(AL-MPGM)

- Dimension: 608 x 150 x 70 mm.
- 3 Double electrick socket.
- 1 Power receptacle.
- 2 Ground jack.

# DOOR SYSTEM

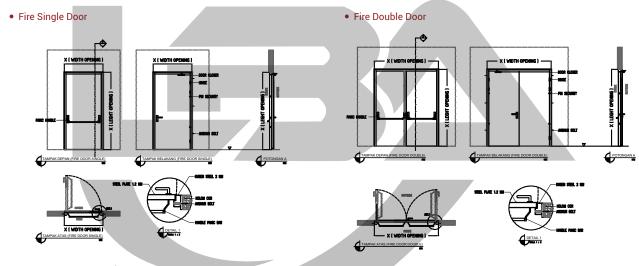
# **Fire Door**

Fire emergency doors are metal doors that can withstand fire for a certain period of time to prevent the spread of fire and smoke. Mostly applied for the emergency corridor of a building.

Fire emergency exit are designed using insulation materials, generaly using rockwool, so that they meet fire protection requirements, and are installed on the door leading to the emergency staircase.

Available single and double door.





FIRE DOOR		Single Door	Double Door
Dimensio	n Size	1000 x 2200 mm	2000 x 2200 mm
Insulat	ion .	Rockwoll	00 kg/m3
Glass Vision/without		on/without	
Managarial	Frame	Steel Plate 2 mm	
Material	Door Leaf	Steel Plate 1.5 mm	
Door Leaf Thickness		50-5	5 mm
Finished Powder Coating Color		ating Color	
Accessories		(Onassis, Wilka, Calvis, Griff, Dekson, Kend, etc.)	
	or can be custom size		

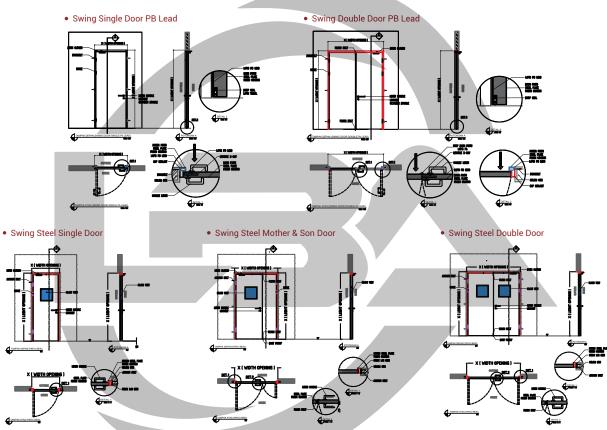


# Swing Steel Door & Swing Door PB Lead

Steel door designed to meet the needs of doors that have high durability. Made of steel plate with reinforcing bones inside the door leaf, so as to produce a rigid door surface and make the door impact resistant.

Available single & Double door.





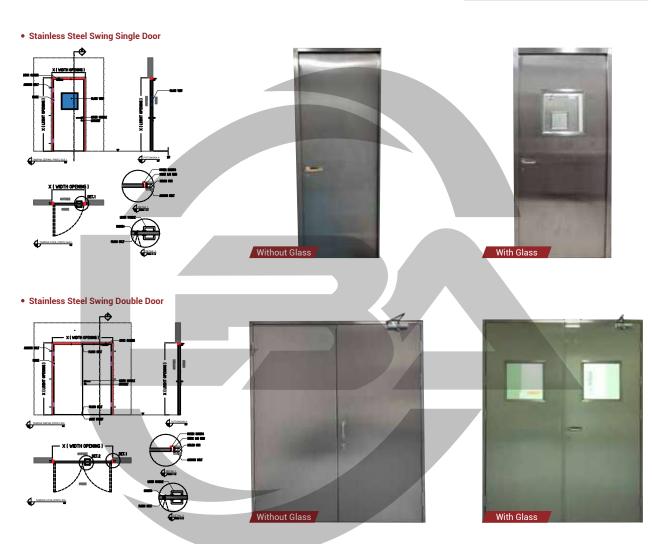
eter r	OOD.	Non PB Lead		With PB Lead	
STEEL DOOR		Single Door Double Door		Single Door	Double Door
Dimension Size		1000 x 2200 mm	2000 x 2200 mm	1000 x 2200 mm	2000 x 2200 mm
Insula	tion	Rockwoll	80 kg/m 3	PB Lead (Plywood 9 i	mm + Rangka Hollow)
Glas	s	Glass Visio	on/without.	View Glas	ss Timbal.
Spec	ial	-	-		cial. (Developed by LBA)
PB Gla	ass	- View Glass Timbal.		ss Timbal.	
	Frame	Steel Plate 1.8-2 mm			
Material	Door Leaf	Steel Plate 1.2-1.5 mm			
Door Leaf T	hickness	+/-50 mm			
Finish	ied	Powder Coating Color/Stainless Steel			
Access	ories	(Onassis, Wilka, Calvis, Griff, Dekson, Kend, etc.)			
	Can be custom size				

# **Stainless Steel Door**

The high quality Stainless steel door of SUS 304 allows you no need to clean it too often, because this Stainless steel door can be said Anti-bacterial and last for a long time. Among the contributing factors is that this material is anti-rust and is not easily deformed.

Available single & double door.

Single Door	Double Door	
-	Flush Bolt	
Polyisocyar	nurate (PIR)	
View	Glass	
Steel Plate 2 mm		
Hinge 4 x 3 x 3 2bb		
Doorcloser		
Cylinder		
Lever I	Handle	
Lockset		





### Sandwich Panel Door

Made of PU or EPS sandwich panels with a thickness of 50 mm, combined with a frame that uses aluminum adapted to the needs. This door is termite-proof and water-resistant soit can be applied outdoors or indoors because it will not be brittle by the weather. Can be applied to hospital doors, Lab doors. Chemistry, the door of keet's attention.

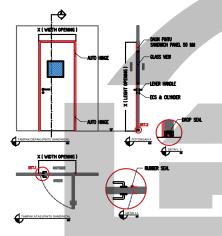
Available single and double door.

# **Standard Clear Opening**

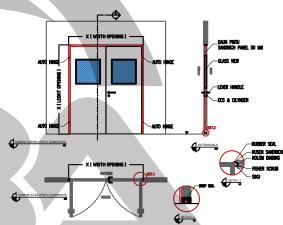
Single : 1000 x 2.150 mm Double : 2000 x 2.150 mm

Can be custom size (as per requested)







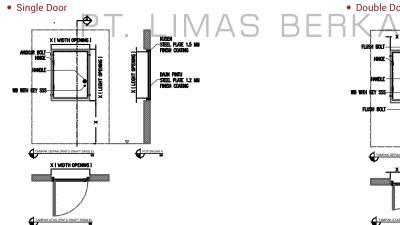


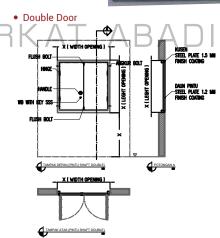
## **Shaft Door**

Shaft Door is a door that has a high standard. It is suitable for mounting on the shaft of the room. The shaft is a tracking hole between one floor to another, for laying utility pipes, electrical cables vertically and others.

Available single & double door.











# AIR TIGHTNESS & ANTI BACTERIAL

Running moothly in ward area, the light automatic medical doors are designed with patented technology, smart & quite in operating. Almar drive system is approved certification & the central gated control device can be used in pharmacies and other regional security areas.



# INTELLIGENCE & SAFETY

ALMAR medical doors could well meet the clean door system functional requirements of hospital environment, and also adapt to the indivisual needs of patients and visitors.



# IN HOUSE PRODUCTION & CUSTOM DESIGN

Created, Produced, Fabrication, After Sales By LBA.

# PT. LIMAS BERKAT ABADI



# FUNCTION & HOMMIZATION

ALMAR medical doors could well meet the clean door system functional requirements of hospital environment, and also adapt to the individual needs of patients and visitors. The Hospital channel desingned to make patients and visitors comfortable and more conducive to patinet's recovery.



# DIVERSITY & RELIABILITY

Due to its architectural structure and the special circumstances, the challenges of hospital buildings faced by the building management system are to adapt the concept of function room. The ALMAR medical doors using a variety of linkage methods and start methods are to meet the individual needs of different customers, table & reliable operation.



# ELEGEANT DESIGN & SIMPLICITY

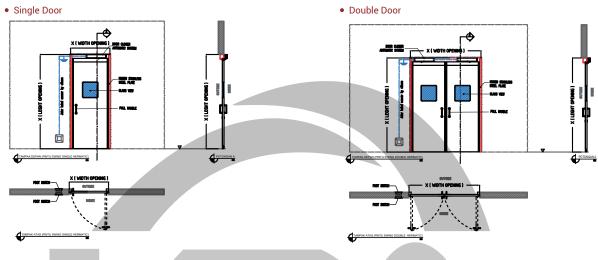
Elegant design & bright color endow ALMAR medical doors with harmony and wholeness to the hospital environment. The novel design of high precision not only guarantees the products performance but also shows the perfect design sense.

# **Automatic Swing Door**

Automatic swing doorv is a device that operates swing doors for pedestrian use. It helps open and close the door automatically.

Available single and double door.





# Triggers & Activators:

Detection	Wired Range	Wireless Range	Control
Movement sensor	Push button	Push button	Emergency stop
Reopening photocell	Elbow push button	Elbow push button	Buzzer and or warning light
Standard presence sensor	Key switch	Key switch	
Unsupervised movement & presence sensor	Proximity reader	Keypad	
Supervised movement & presence sensor	Keypad	Remote control	
Touchless switch	Autonomus print reader	Handsfree access identifier	

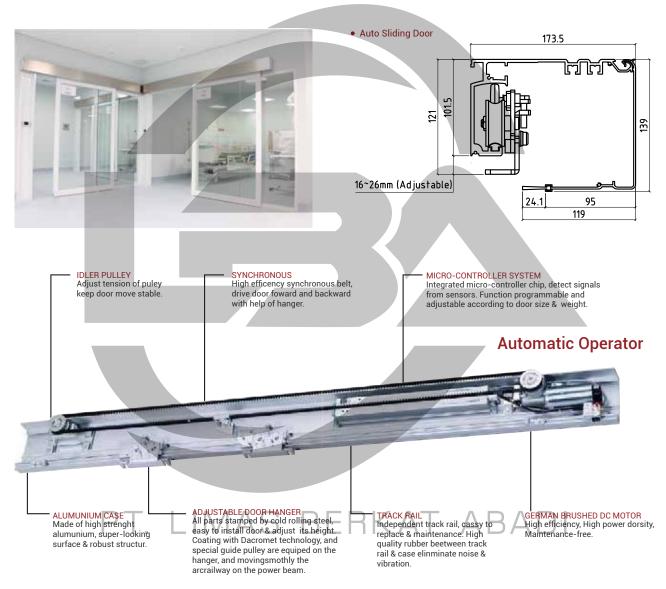


Handsfree access identifier		
	Mechanical Specifications	
Dimensions	90 x 210 mm (1 leaf)	
	2x (90 x 210) mm (2 leaf)	
Max. leaf weight	250 kg	
Opening time	3s (70°/2) : 6s (20°/s)	
Closing time	4s (40°/2): 15s (10°/s)	
Closing force	EN4 + EN6	
Max. opening angle	110°	
Width of door leaf	700 : 1400 mm	
Anticrushing	Automatically limits force when obstacles are detected	
Weight	Approx. 11 kg	
Protection grade	IP40 / D / D	
Electrical Specifications		
Power supply	230 +-10% CA 50/60 Hz	
Nominal power	85 W	
Shaft output max torque	45 Nm	
External device power supply	15 VDC - 12 W Max	
Operating temperature	De-10° C a 50 C	
Service	Continual	
Applied Standards		
Low voltage	35/2014/CE	
Electromagnetic compability	30/2014/CE	
Construction materials	305/2011/CE	
Machine safety	42/2006/CE	
Automatic door use safety	EN 16005	

# ICU/HCU Automatic Sliding Door AL-ADIHC-01

- Highly intellectual design, high self-adaptation ability, high functional coverage.
- Independent soft track trail, silent operation.
- Quickly open & close, speed improves 20% than the traditional one.
- · Self locking motor, high functional expansibility.
- Low powerconsumption, wide range of application.
- Long service life, high security, high reability.
- Easy installation, adjustment and maintenance.





Door Weight	Single (150 kg) Double (150 kg x 2)		50 kg x 2)
Door Width	700 - 2100 mm	650 - 1050 mm	
Door Close Lock Force	> 500 N	Work temperature	-20 - 50 C
Delay For Opening	2 - 20 s	Power voltage	AC 220 V -+10%, 50 Hz
Closing Speed	250 - 550 mm/s	Reverse time	<1s
Opening Speed	250 - 550 mm/s		

# Almar Hermetic Auto Sliding Door AL-OTDM-01

Hermetic Auto sliding door the feature of environmental protection and energy saving are realized by the strong door plate, Effective opening and closing system that minimize the air flux, so that the cold air, dust will be isolated outside and the tempera ture wetness inside room well keep.

Available single and double door.





Clear Opening	1600 mm
Single (small)	900 x 2150 mm
Single (large)	1600 x 2150 mm
Double	1800 x 2150 mm

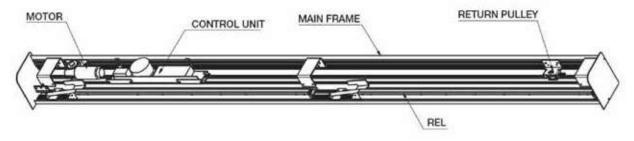
Tubular handle outside, recessed handle inside, ensure fully open of door leaf. Will help effectively preventing cross infection and greatly enhancing the hygienic performance of hospital.

# **Product Feature:**

- The track rail and door plate are mounted onto the wall, installed easily & fast.
- Tobular handle outside, recessed handle inside, ensure fully openof door leaf.
- Operating quietly & fast, good performance in sound insulation.
- The features of environmental protection & energy saving are realizes by the strong door plate and effective opening and closing system that minimize the air flux, so that the cold air and dust will be isolated outside and the temperature and wetness inside room well kept.
- Humanized barrier free design provides the max convenience and safety to the patients and wheel barrows.

### **Product Description:**

- Made of Stainless Steel.
- Glass cell: 5 mm thick.
- Flectric Lock.
- Electric Motors.
- Battery backup.
- Dimension: 1600 x 2100 mm.
- Voltage: 220 VAC, 50/60 Hz.
- Labor assistant switch (Foot switch).
- Control & Opening in sensor, the sensor in mounted inside & outside the operating room.
- Speed: 0,7 m/sec: door leaf, -1.4 m/sec: 2 door leaf.
- Power auto volt 85 264 VAC.
- Automatic motor reversal when ther are obstacles, including pair of safety lights.



# Almar Hermetic X-Ray Auto Sliding Door AL-OTDM-02

The Hermetic X Ray Auto sliding door has passed the inspection of institution protection lead sheed thickness 2mm is inside the door plate and wall frame.

X Ray Room according to aimed where required handling and special attention for safeties. Equip with lead plate inside of the door, guarantee to protect the people from X Ray Radiation.

Rubber seal strips are installed in the door frames and body, which will meet the hygienic requirement of hospital. The control system is designed accordance with the safety requirements of medical electrical system.

Available single and double door.





Clear Opening	1600 mm
Single (small)	900 x 2150 mm
Single (large)	1600 x 2150 mm
Double	1800 x 2150 mm

# **Product Feature:**

- PB Lead sheet thickness 2 mm is inside the door plate and wall frame to shield the X-rays and protect human body against a variety of harmful rays.
- Hermetic Auto Sliding Door have passed inspection of the institution of radiation protection and nuclear safety.
- Rubber seal strips are installed in the door frames and door body, which will meet the hygienic requirements of hospitals and other places.
- The Control system is designed in accordance with the safety requirements of medical electrical system, and also multiform control modes could be adopted according to the hospital requirements, that will not cause electromagnetic interface to other equipment at the same location.
- Booth automatic sliding doors and hermetic auto sliding door could be made to this kind of doors.

# AME DIST MINISTER CONTROL AND STATE OF THE S

# **Product Description:**

PB lead : 2 mm. View glass : 15 mm (X-Ray Glass).

Electric Lock.

Battery backup.

• Dimension: 900 x 2100 mm.

Voltage: 220 VAC, 50/60 Hz.

• Labor assistant switch (Foot switch).

• Control & Opening in sensor, the sensor in mounted inside & outside the operating room.

• Speed: 0,7 m/sec: door leaf, -1.4 m/sec: 2 door leaf.

Power auto volt 85 - 264 VAC.

· Automatic motor reversal when ther are obstacles,

• including pair of safety lights.

# Almar Hermetic Auto Swing Door AL-OTDM-03

Hermetic Auto swing door operated by mounted on the door frame easy for installation. Door plate is made of high quality material stainless steel 304.

Along the door frames and the bottom there are rubber seal strips working together to well meet the sanitary requirement of hospital.

Available single and double door.

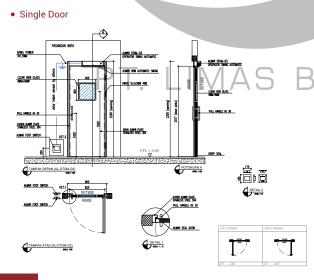


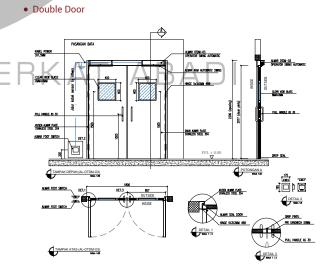


## **Product Feature:**

- PB Lead sheet thickness 2 mm is inside the door plate and wall frame to shield the X-rays and protect human body against a variety of harmful rays or without PB.
- The X-ray shielding doors have passed the inspection of the institution of radiation protection and nuclear safety or without PB.
- High-strength sealing strips and varous forms of door frames are available, meeting the hygienic requirements of hospitals and other buildings.
- The door can be made Steel sheet 304.
- The door frames and the bottom there are rubber seal strips.

Clear Opening	1000-2000 mm
Single	1000 x 2150 mm
Double	2000 x 2150 mm



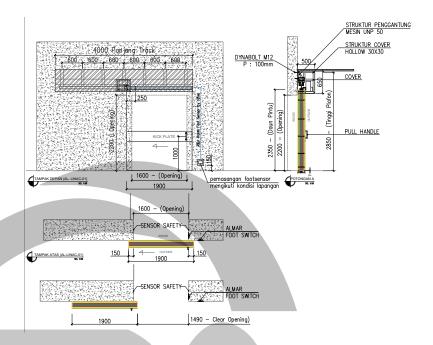


# Almar Linac Door (AL-LINAC-01)

Linac Door for bunker room or Kemoteraphy room and Cobalt Door for Brachyteraphi room size dimension door leaf available customize.

Lead doors for radiodiagnosis and nuclear medicine, Borated polyethylene.

Specified Manufacturer: To establish a standard of quality, design, and function desired, drawings and specifications have been based on products manufactured by PT. Limas Berkat Abadi.







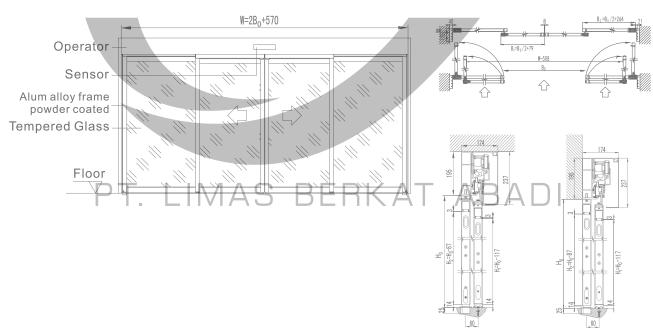


# Almar Manual/Automatic Door For Emergency Evacuation

- The door is designed for emergency escape passage where a large number of pedestrian pass by, such as airport, bus station, hotel, hospital, supermarket, office building, schools & public buildings.
- Under normal circumstances, the middle leaves can move by sliding, and two fixed sisde doors cannot move. when emergencies happen, no matter it is sliding or closed, all the door leaves could be pushed rapidly as swing doors to maximize utilization of exit space.
- Operating quietly and fast, with good sound insulation effect. when meeting with obstruction, the door will rebound automatically to ensure the safety of passengers.

Door Type		4 Leaves		2 Leaves	
Operator Standard Length		3000 - 4200 mm		2100 - 2700 mm	
Standard Height		Fixed leaves 2200 mm Active leaves 2170 mm			
Voltage		AC 220 V +-10%, 50-60 Hz			
OpeningSpeed		250 - 550 mm/s (Adjustable)			
Closing Speed		250 - 550 mm/s (Adjustable)			
Open Delay Time		2 - 20 s (Adjustable)			
Manual Open For	rce	< 100 N			
Power Consumpt	tion	< 150 W			
Working Tempera	ature	-20 - 49 C			
Or custom size					



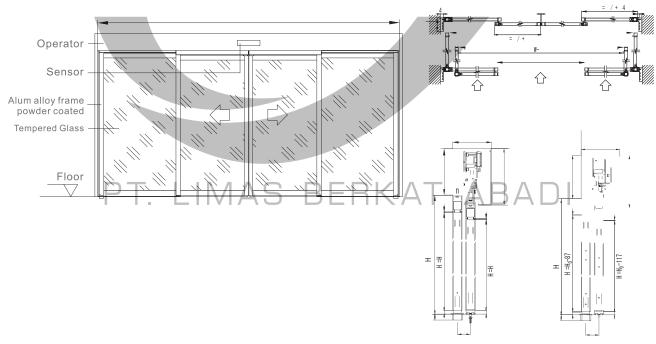


# **Almar Automatic Telescopic Door**

- Applicable to wide open pessageway, best utilize the enterance space.
- Integrated microcontroller chip, detect signals from sensors. Functional programmable and adjustable according to door size & weight.
- Operating quietly and fast, and whenever obstructions happen during its operation cycle, the door will rebound automatically to ensure the safety of passengers.
- Unique motor with self-locking system, it works well as entery access control without extra mechanical lock.
- Remote control function. All adjustments can be done with remote control easily.

Door Type	Single	Double		
**				
Operator Standard Length	2 x 150kg	4 x 100kg		
Standard Height	DW= 1200 - 2700 mm	DW= 2200 - 3900 mm		
Voltage	AC 220 V +-10%, 50-60 Hz			
OpeningSpeed	300 - 500 mm/s (Adjustable)			
Closing Speed	200 - 500 mm/s (Adjustable)			
Open Delay Time	2 - 20 s (Adjustable)			
Manual Open Force	100 N			
Power Consumption	< 150 W			
Working Temperature	-20 - 49 C			
Retardant Speed	Automatic			
	Or custom size/model			







### **Almar Contact Less Sensor**

• Detection Area : 10 - 40 cm (adjustable)

• Feature : Good anti-interference performance, clean and neat, not affected by color,

temperature or radiation of object.

Application : Automatic doors of operating rooms or

labs for specific assigned person.



### **Almar Microwave Sensor**

Adjustable according to setting range.

• Feature : Wide range detection, high sensitivy, only

be effective againt moving object.

Application : Automatic doors of hotels, banks, offices,

factories where people pass in & out

frequently.



### **Almar Foot Sensor**

Detection Area : Door Open / close by tiptoe touch.
 Feature : Automatic door open / close after the

tiptoe touch.

• Application : Automatic doors of operating rooms or

labs for specific assigned person.



# IMAS BERKAT ABADI

### **Almar Card Reader**

• Feature : Secure, convenient and reliable.

• Application : Particular places need to control access.



# **Insulate Panel System**

# A. Expanded Polystrene (EPS) Panel

The self-extinguishing, fire retardant EPS foam is manufactured from 100% virgin bead and oven-cured after manufacture to ensure the resulting blocks are completely dry and free from all residual pentane.

EPS is a lightweight, CFC-free, non-brittle, closed cell insulator with more consistent thermal performance over time. It has a high dimensional stability and low water vapor transmission.

A special chemical coated to the Expanded Polystyrene beads (raw material) distinguished it from standard / common EPS.

### **Product Features**

Core : EPS.
Joint System : Slip joint.
Density : 15 & 20 kg/m3.
Width : 1160 mm.

Thickness : 50, 75, 100, 150, 200, 250

mm.

Length : Up to 12 m. Finishes : Plain, Ribbed.

Steel Grade : G300.

Steel Type : Z275, Z180, AZ150,

AZ100.

Standard Colors — : Off white (others are

\_available).VIA3

Finishing Coating : Antibacterial, Food grade,

Exterior.

Most Common Steel : 0.6 mm (Other thickness

(base metal are available)

Thickness-BMT).

# **Advantages**

- Fire Retardant.
- Meets safety requirements.
- Energy saving.
- Longer lifetime.
- Customized Design.
- · Resistant to termites and rodents.
- · High performance on insulated panel.
- Easy to install-saving time & cost of instalation.

	Thickness (mm)	50	75	100	150	200	250
H	Mass (Kg/m²)	11.3	11.6	12	12.7	13.3	14
lf	Thermal Performance (Properties at 6°)						
	U Value (W/m²K)	0.76	0.51	0.38	0.25	0.19	0.15
	R Value (m²K/W)	1.32	1.92	2.63	3.95	5.26	6.58

# INSULATE PANEL SYSTEM

# B. Polyisocyanurate (PIR) Panel

Polyisoctanurate (PIR) is a type of fire retardant panel, in the event of fire, PIR simply chars. Properly installed PIR panels can signicantly reduce serious risks of property damage and loss of business due to fire.PIR panel are wall, ceiling, roofing, and insulation in one with a fire retardant polyisocyanurate (PIR) core.

PIR panel is recommended, where factory mutual (FM) approved panel is required for insurance purposes.

PIR panel suitable for all insulated panel applications, including cold storage. The PIR panels are now manufactured in Indonesia. It's fire risk reduction qualities have been proven tomeet specifications in Australia, Europe and USA.



### **Product Features**

Core : PIR.
Joint System : Slip joint.
Density : 40 - 42 kg/m3.

Width : 1170 mm (wall & ceiling). Thickness : 50, 75, 100, 150, 200 mm.

Length : Up to 12 m.

Finishes : Plain, Ribbed, Diamond.

Steel Grade : G300.

Steel Type : Z275, Z180, AZ150, AZ100. Standard Colors : Off white (others are

available).

Finishing Coating : Antibacterial, Food grade,

Exterior, Stainless steel.

Most Common Steel: 0.45, 0.6 mm (Other thickness

(base metal are available)

Thickness-BMT).

### **Advantages**

- · Meets safety requirements.
- Energy saving.
- Longer lifetime.
- Customized Design.
- · Resistant to termites and rodents.
- High performance on insulated panel.
- Easy to install-saving time & cost of instalation.

Thickness (mm)	50	75	100	150	200
Mass (Kg/m²)	12.75	13.88	15	17.25	19.50
Thermal Performance (Properties at 22.5°)					
U Value (W/m²K)	0.5	0.33	0.25	0.17	0.125
R Value (m²K/W)	2.00	3.00	4.00	6.00	8.00

# **Insulate Panel System**

### C. Mineral Wool Panel

Mineral wool panels are sandwich panels with steel faces and core of mineral wool fiberboard. The mineralwool panels are non-onzoned-depleting, non combustible sandwich panels manufactured with a core of mineral wool fiber.

The core manufactured with the fibers oriented accross the thickness of the panel to maximize it's structural strength. The insulation products are non combustible with a melting point more than 1.000 degree celcius. They are particulary suitable for thermal insulation, fire protection and sound reduction/absorption.

Mineral wool panels can be used as a wall andcailing panels in building where improved fire performance is required.



: Mineral wool. Core Joint System : Slip joint. Density : 1000 kg/m3. Width : 1160 mm. Thickness : 50, 75, 100 mm. Length : Up to 6 m. **Finishes** : Plain, Ribbed. Steel Grade : G300.

Steel Type : Z275, Z180, AZ150, AZ100. Standard Colors : Off white (others are

available).

: Antibacterial, Food grade Finishing Coating exterior. VA

Most Common Steel: 0.6 mm (Other thickness

(base metal are available)

Thickness-BMT).



### Advantages

- Dimensionally stable & not liable to shrink or
- Chemically neutral & doesn't cause or promote corrosion.
- Easy to handle & cut.
- Fully recycleable, Non-combustible.
- Water repellent, non-hyroscopic & non capillary.
- Has Excellent sound absorbing properties.
- Not conductive to mold vermin & rot-proof.
- Resistant to termites & rodents.
- No asbestos, CFC & HCFC.

Thickness (mm)	50	75	100	
Mass (Kg/m²)	15.5	18	20.5	
Thermal Performance (Properties at 22.5°)				
U Value (W/m²K)	0.84	0.56	0.42	
R Value (m²K/W)	1.19	1.78	2.38	

# **Joint System & Accessoris**

### **Joints**

Almar joint system called "SLIP JOINT" that panel to panel as male, female, with slip joint.

All joints are designed and fabricated to ensure integrity of insulation and vapor seal. Slip Joint® is used for Expanded Polystyrene (EPS), Polyisocyanurate (PIR), and Mineral Wool Panels.

Joints between vertical wall panels use the Slip Joint® system. Silicon shall be applied liberally to the panel skin edge prior to each panel's erection.

Joints are capped and fixed with powder-coated alumunium or folded steel flashing as necessary.

# Advantages

- Has the ability to increase joint strength and
- the bonding of panels.
- Enables superior vapor barrier.
- Shortened panel installation time and decrease
- the usage of support structure.
- Reduce noise pollution .
- Offers panel lengths to suit any project size.
- Better architectural performance.





# Fixing

All rivets used are totally blind, sealed aluminum encased rivets of a size approximate to the location and specific application. In general, 4 mm diameter rivets at around 300 mm centers shall be regarded as the requirement.

For clean room application, choices between no rivet expose or countersunk rivets are available.

Connection between panels, ceiling, and floors in clean room use 2 pieces coving with 45 mm diameter, or 90° angle and PVC/ Polyacetal 3-way corners to meet clean room requirements for cleanliness and hygiene.



# **Safety Againts Fire**

All Insulated Panel Systems provide excellent safety against fire.

They test property loss prevention products and services for use in commercial and industrial facilities to verify our product meet rigorous loss prevention standards of quality, technical integrity and performance.

Insulated Panel Systems you can protect your building, the people and the high value goods and machineries inside.

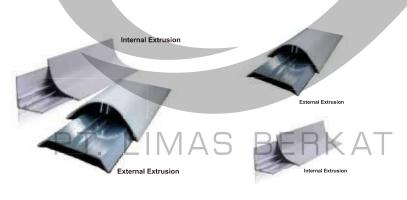
This safety against fire feature increases your peace of mind and reduces insurance costs.



# **Alumunium Extrusions**

The high grade aluminium extrusions used in ALMAR Insulated Panel Systems are specially designed for a wide range of applications, such as clean room, cold storage and modular building. The use of high grade aluminium provides a stronger, durable extrusions.

For clean room application, the design of the extrusion is suitable to fulfill the requirement of Good Manufacturing Practice (GMP/CPOB - Cara Pembuatan Obat yang Baik) as required by the National Agency of Drug and Food Control (Badan Pengawas Obat dan Makanan RI - BPOM).









# **HRP Antibacterial**

# **General Description**

HRP Antibacterial™ is a pre-painted steel with hot dipped aluminum-zinc alloy coated substrate with food grade and antibacterial feature on top surface.

# **Typical Uses**

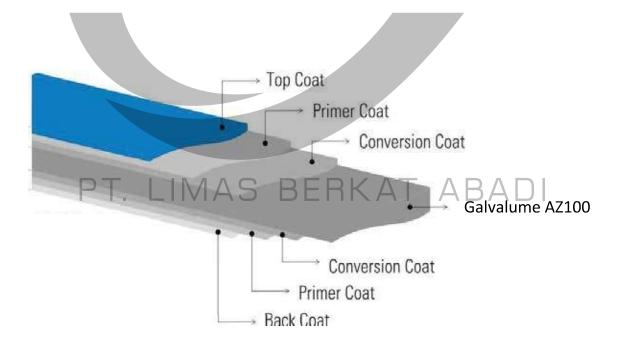
For clean room or hygiene building application.

# **Indonesia Standard**

SNI 4096:2007 Baja lembaran dan gulungan lapis paduan Aluminium - seng (Bj.LAS) SNI 8305:2016 Baja lembaran dan gulungan lapis paduan aluminium dan seng dengan atau tanpa magnesium lapis cat atau laminasi (Bj. LAS warna/Bj,LASM warna)

# **Product Information**

Substrate	G300 AZ100 steel (Aluminum-Zinc alloy-coated steel) (Refer to note 8)		
Pre Treatment	Corrosion resistant proprietary conversion coating		
Primer Coat	Universal corrosion inhibitive primer. Nominal dry film thickness 5µm each side		
Finish Coat	Custom formulated super polyester paint system with high performance pigments. Nominal dry film thickness 17µm on the top or weather side		
Backing Coat	Custom formulated Foam Grey. Nominal dry film thickness 5µm		
Colour	Putih Ampupu		



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# **TEST RESULT CERTIFICATION**

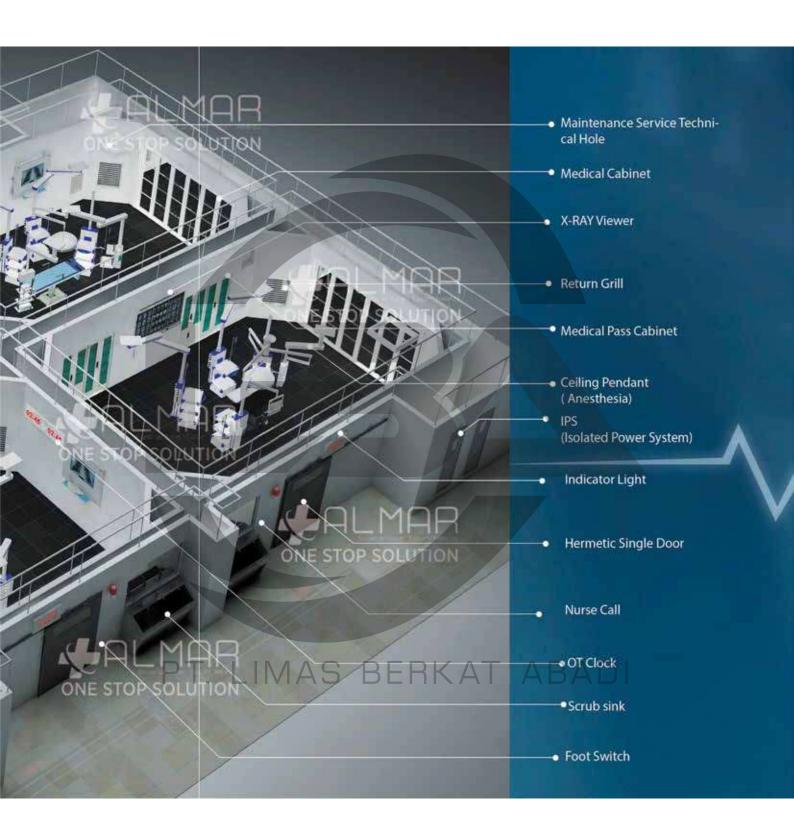


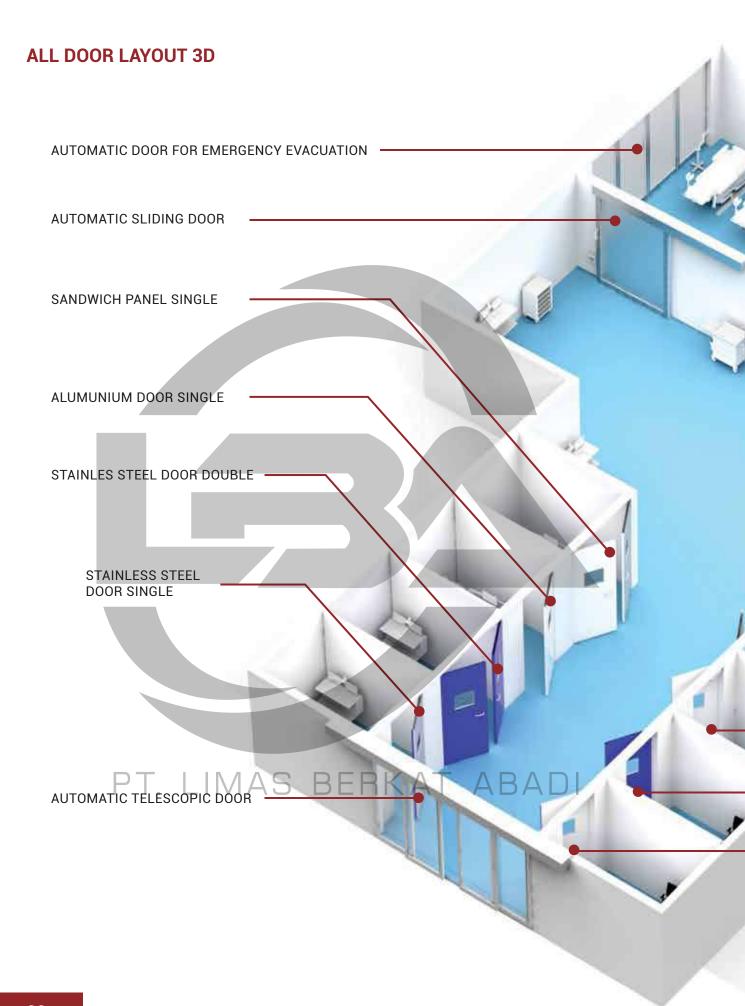
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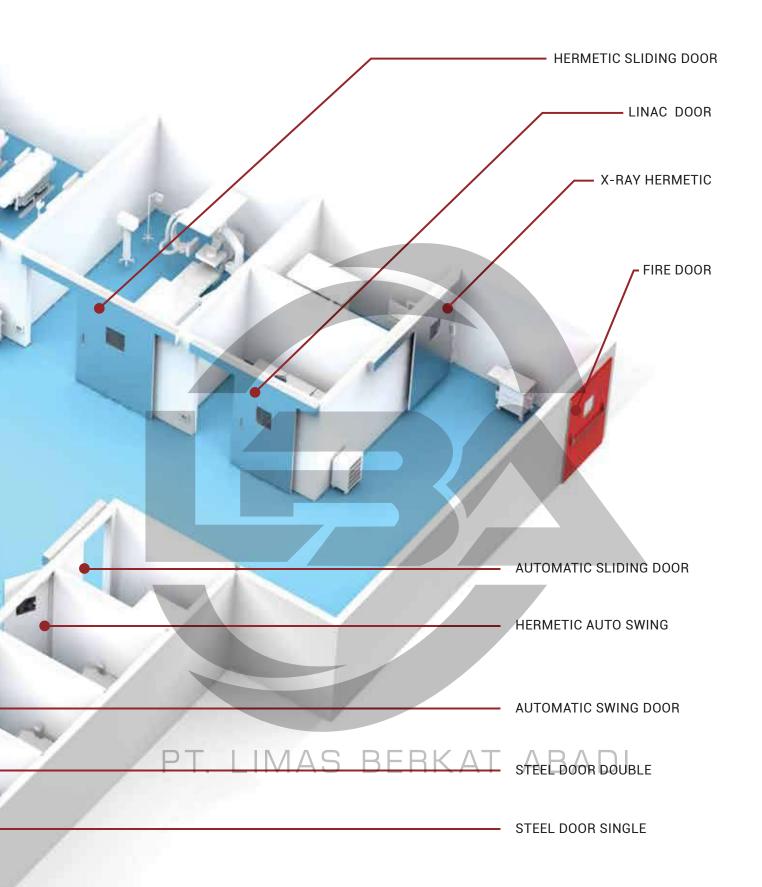
section 4

Served Declary









ALMAR MEDICAL DOOR series offers a full range of hospital hygenic door system for integrated solutions. Different from the general building management, hospital systems require specific functions for different areas of public health care services to ensure the accessibility of the channel and path.

## **PRODUCT REFERENCE**



Almar Scrub Sink



Almar Pass Box



Almar Medical Storage Cabinet



Almar Power Ground Module



Almar PB Lead Sheet



Almar PB Glass (Anti-radiation Glass)



Almar Information Panel



Almar X-Ray Viewer



Almar Control Panel



Almar LED Light



Almar Contact Less Sensor



Almar LED Operating Timer



Almar Microwave Sensor



Almar Foot Sensor



Almar Card Reader



ABADI

## **PROJECT REFERENCE**







**EKA HOSPITAL** 



RS MEDIKA PERMATA HIJAU



RSUD DR. H. KUMPULAN PANE



RSUD SOREANG



RSUD PROVINSI SULAWESI UTARA



MAYAPADA HOSPITAL



RSUD DR. ACHMAD MOCHTAR



RSUD R. SYAMSUDIN, SH



RSUP DR. SARDJITO



GAPURA ANGKASA OFFICE



RSUD MARIA WALANDA MARAMIS



BMC MAYAPADA HOSPITAL



CIPUTRA MITRA HOSPITAL BANJARMASIN



LAB C-GMP BRIN



MAYAPADA HOSPITAL BANDUNG



RS ADI HUSADA KAPASARI



RS ADI HUSADA SURABAYA



RS JANTUNG TASIKMALAYA



**RS NURUSSYIFA SEMARANG** 



RS PANTI WALUYA SAWAHAN



RS PERMATA HATI METRO



RS PKU SOLO



RS UKRIDA



RS UPT VERTIKAL KUPANG



RSI JEMURSARI SURABAYA



RSIA ASIH



RS PUSAT PERTAMINA



RSU ANDHIKA



RSU BAITUL HIKMAH



RSUD MAMUJU



RSUD MEURAXA



RSUD PAMBALAH BATUNG



RSUP FATMAWATI



RSUP WAHIDIN SUDIROHUSODO MAKASSAR



RS PERMATA KELUARGA



RSUD MANADO



MAKO POLRES TANGERANG KOTA



RS KANKER DHARMAIS



RSUP NASIONAL DR. CIPTO MANGUNKUSUMO



UNIV. MUHAMMADIYAH JEMBER



RSUD DR. KANUJOSO DJATIWOBOWO BALIKPAPAN



THE GAIA HOTEL BANDUNG



TAMAN MINI INDONESIA INDAH

AND MANY MORE...

# PT. LIMAS BERKAT ABADI

#### **PARTNERSHIP**







































































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