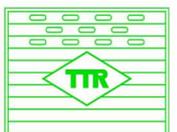


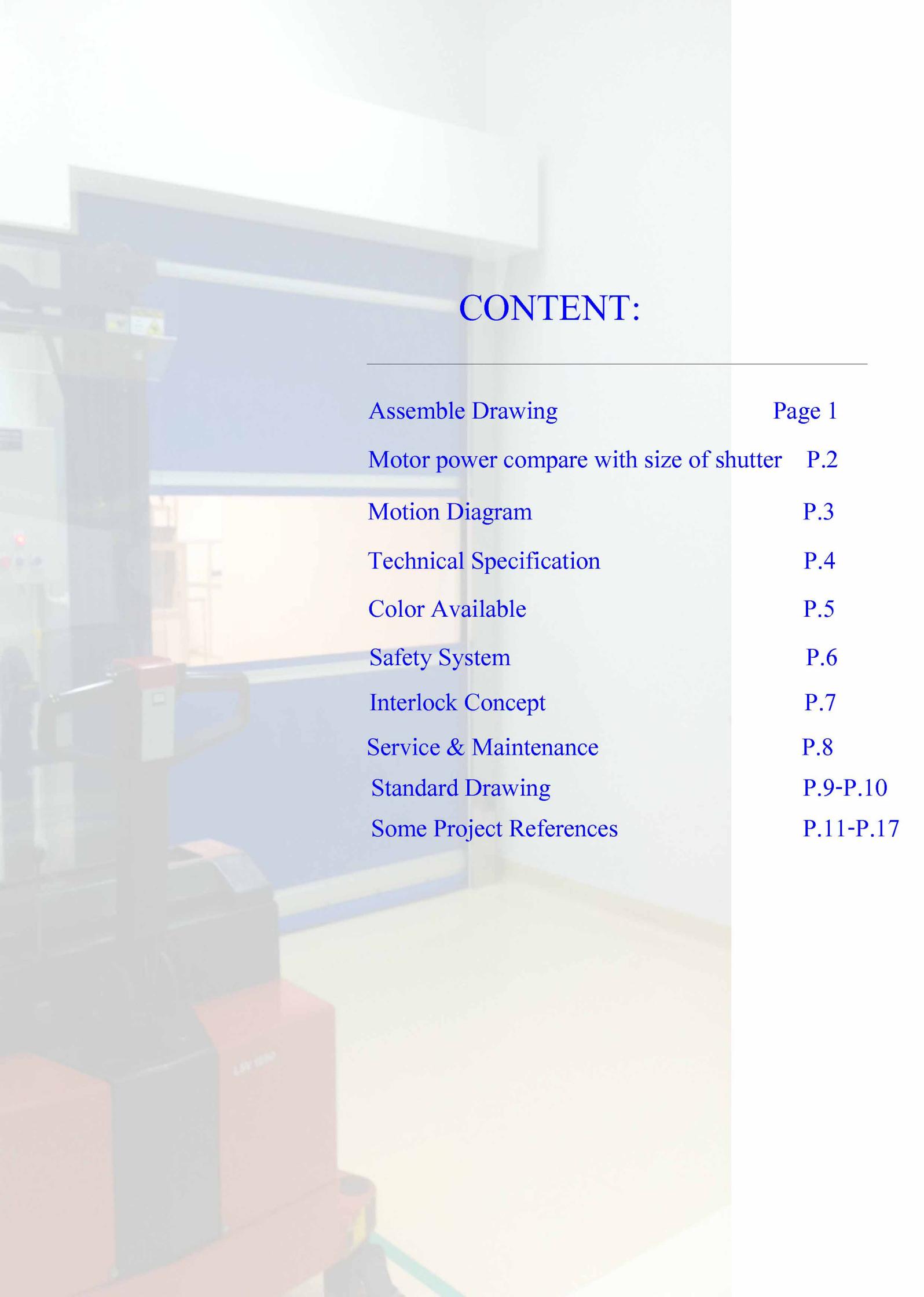
THAI TOYO ROLLING



High-Speed Automatic Door

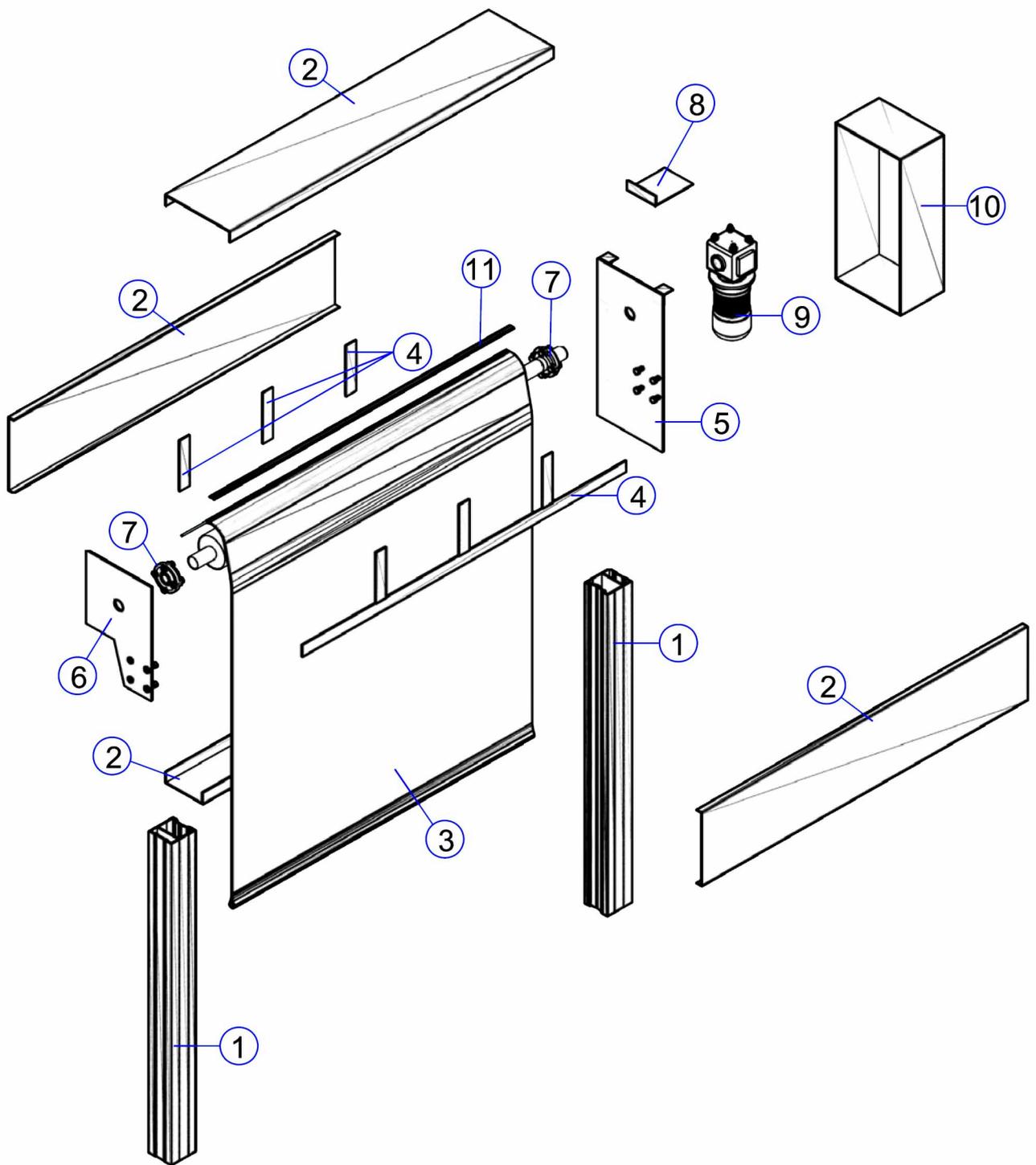
The Ideal Solution For Industrial Applications





CONTENT:

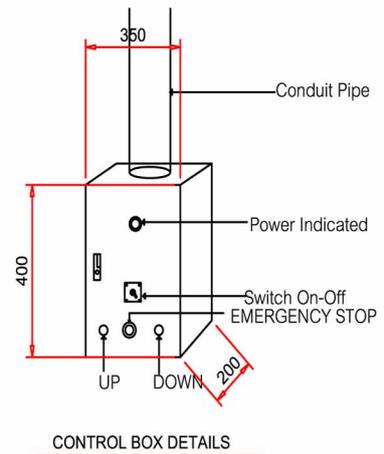
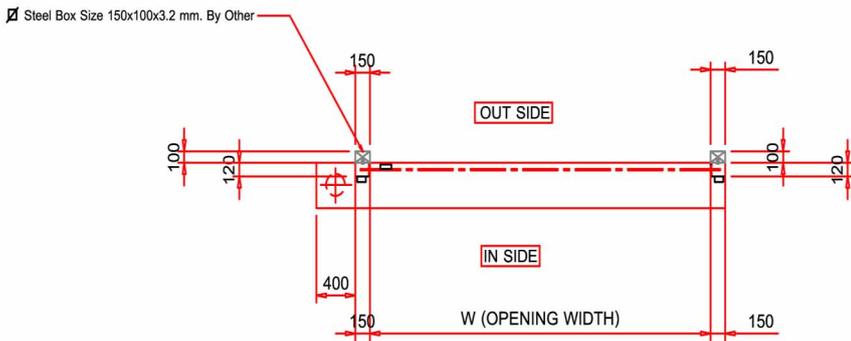
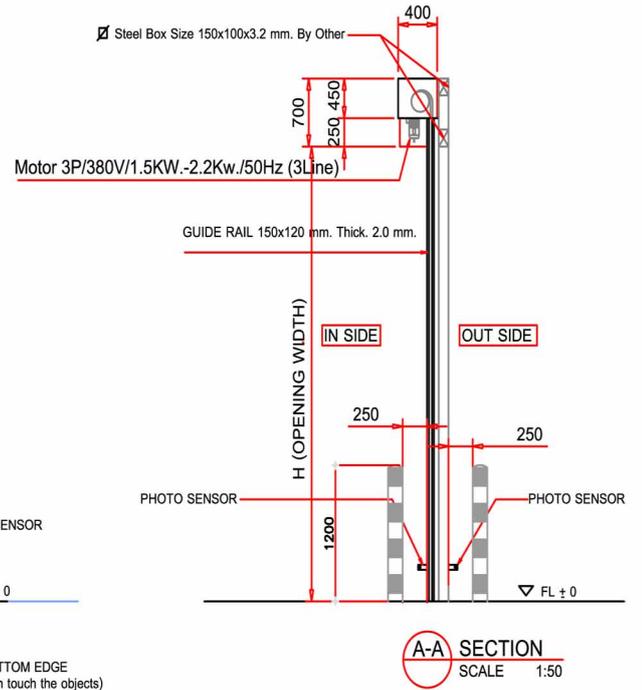
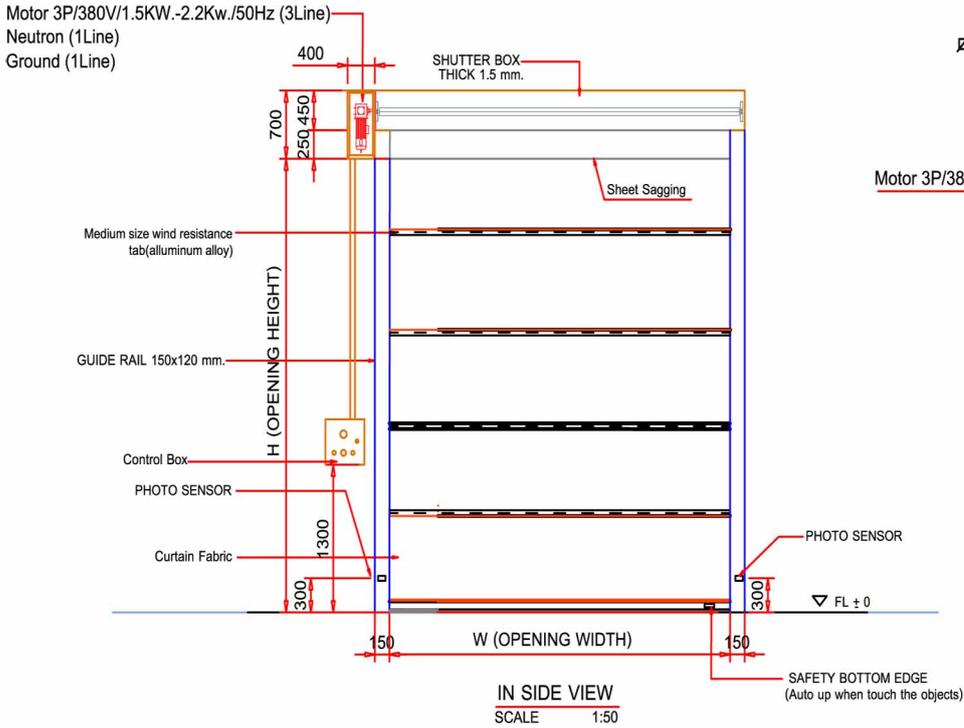
Assemble Drawing	Page 1
Motor power compare with size of shutter	P.2
Motion Diagram	P.3
Technical Specification	P.4
Color Available	P.5
Safety System	P.6
Interlock Concept	P.7
Service & Maintenance	P.8
Standard Drawing	P.9-P.10
Some Project References	P.11-P.17



ASSEMBLY DRAWING FOR PVC HIGH SPEED DOOR

- | | |
|----------------------|----------------------------|
| 1. GUIDE RAIL | 7. BALL BEARING |
| 2. SHUTTER DOOR | 8. MOTOR SUPPORT PLATE |
| 3. PVC PANEL | 9. MOTOR |
| 4. STEEL SUPPORT BOX | 10. MOTOR'S COVER BOX |
| 5. SIDE BRACKET 1 | 11. PLATE FOR PVC FIXATION |
| 6. SIDE BRACKET 2 | |

Installation Drawing for 1.5Kw.-2.2Kw. Model



* The installation location of the control panel or optional equipment will be determined through consultation at each site.



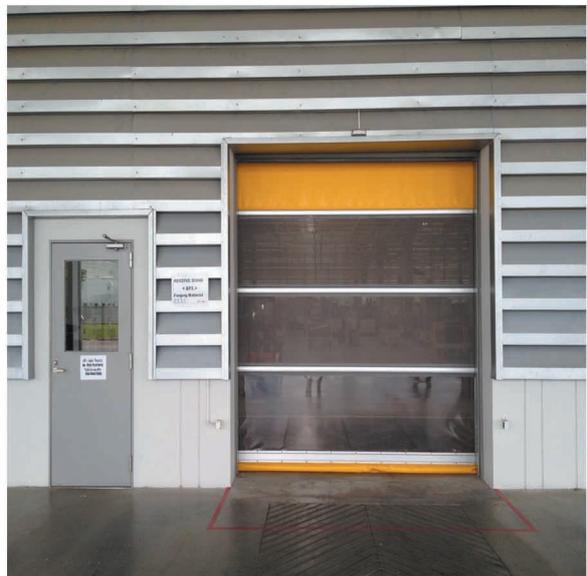
SIAM DENZO BANGPAKONG



BFBG BANGPAKONG



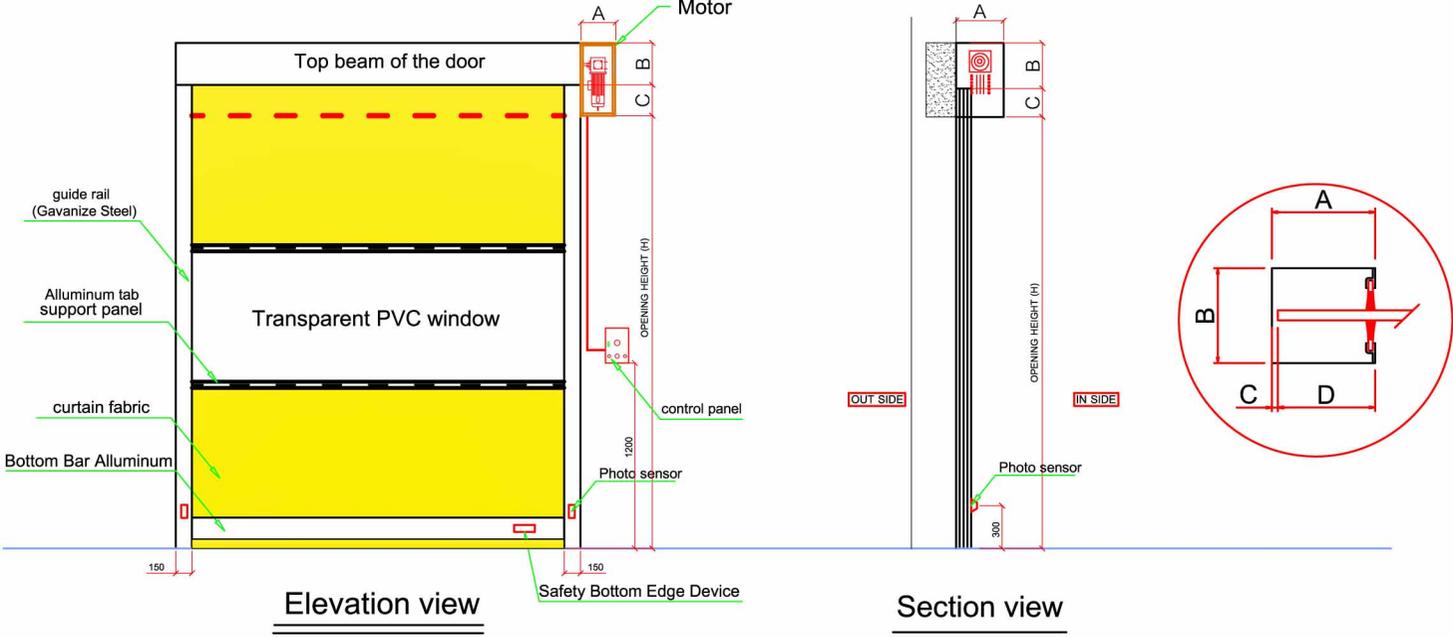












** SHUTTER BOX DIMENSION DETAILS

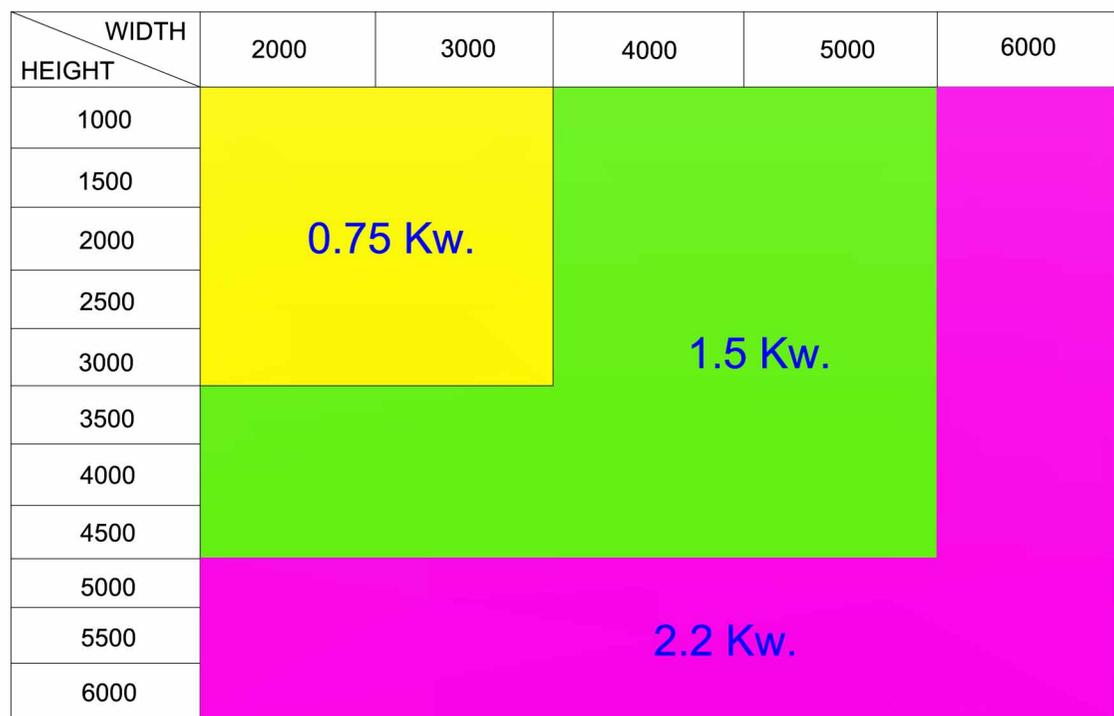
	DIMENSION		BOX DIM.		
	(WIDTH) x (HEIGHT)		A	B	C
UNDER	3000	3000	400	350	250
UNDER	4000	4000	400	450	250
UNDER	5000	5000	400	450	250
UNDER	6000	6000	400	450	250

** GUIDE RAILS DIMENSION DETAILS

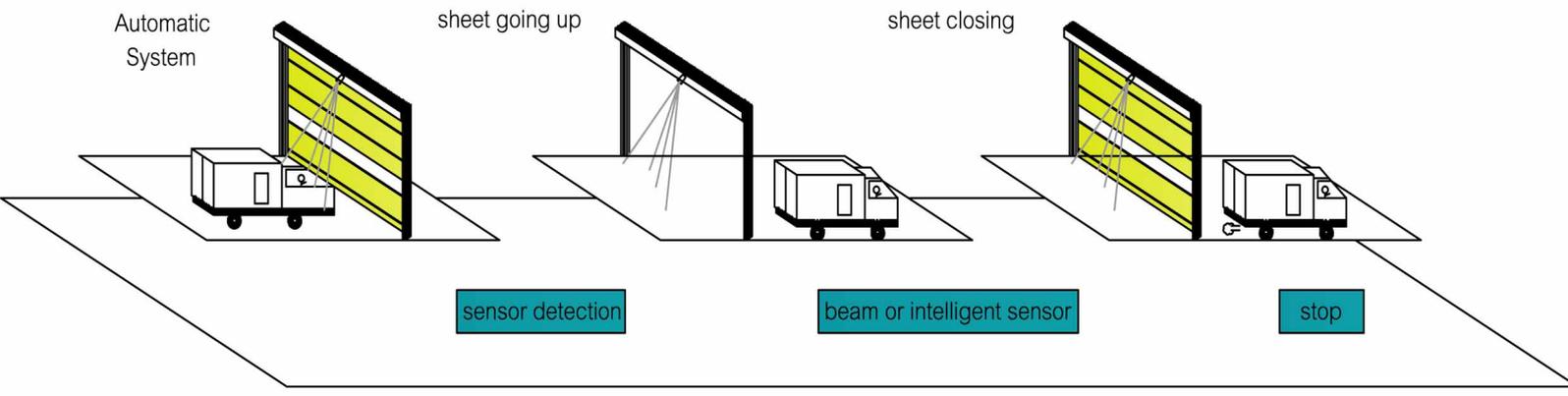
	DIMENSION				
	(WIDTH)	A	B	C	D
UNDER	3000	150	120	50	100
UNDER	4000	150	120	50	100
UNDER	5000	150	120	50	100
UNDER	6000	150	120	50	100

Remark: The motor can be install for the left side or right side depend on the customer need

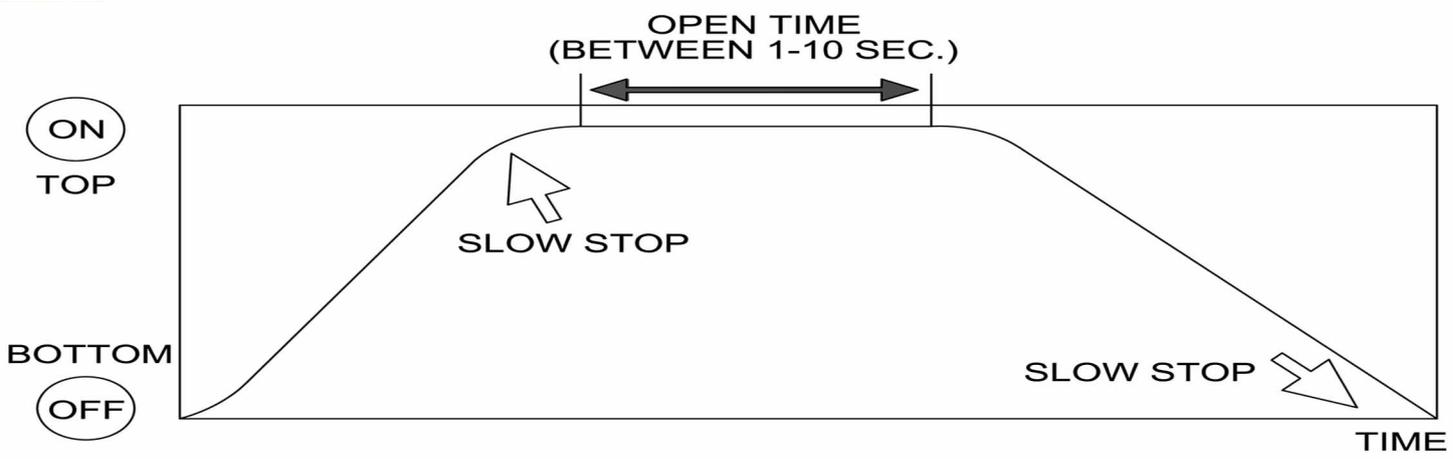
Motor Compare With Shutter



Note: Please consult for any specification concerning dimension or control



MOTION DIAGRAM (SPEED CONTROL)





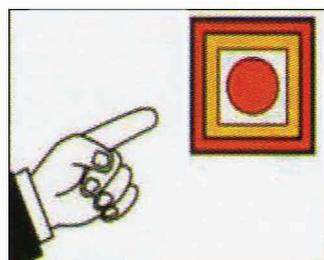
■ TECHNICAL SPECIFICATION

USING TEMPERATURES	FROM -30 °C TILL +70 °C
FRAME	GALVANIZE STEEL SHEET THICKNESS 2.0 MM. STAINLESS STEEL COULD BE AN (OPTION)
MOTOR	INDUCTION MOTOR WITH BREAK 0.75 Kw.-2.2 Kw. 3P/380V/50Hz (MOTOVARIO MOTOR FROM ITALY)
DOOR PANEL	POLYESTER COATING WITH PVC THICKNESS 1.0 MM. BLUE, GREEN, ORANGE, IVORY, CREAM, TRANSPARENT
CONTROL SYSTEM	SEQUENCE CONTROL WITH PLC INFRARED SENSOR (OPTION) PULL SWITCH (OPTION) PUSH BUTTON SWITCH (OPTION) REMOTE CONTROL (OPTION)
SAFETY SYSTEM	SAFETY SENSOR ON EACH SIDE OF THE FRAME
	SAFETY BOTTOM EDGE (AUTO UP WHEN HIT THE OBJECTS)
WIND PROOF SPEED	20M/SEC.
SPEED APPROX.	1M/SEC. (CAN ADJUSTABLE)

■ OPTION FOR OPERATION



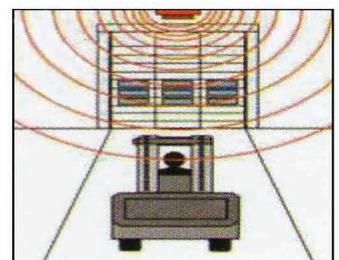
PULL SWITCH



BUTTON SWITCH

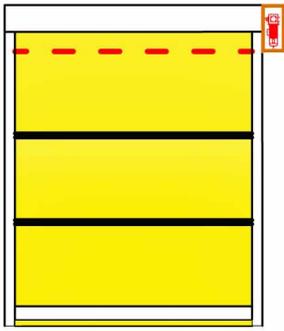


REMOTE

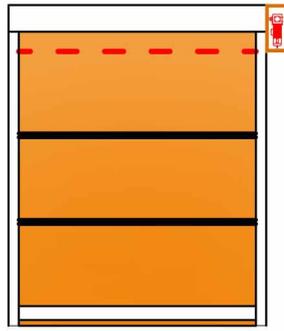


SENSOR

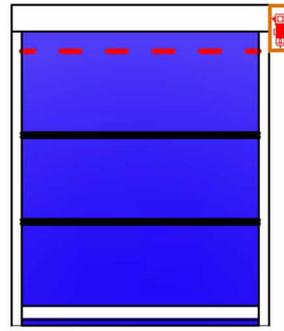
■ COLOR AVAILABLE ACCORDING TO RAL STANDARD



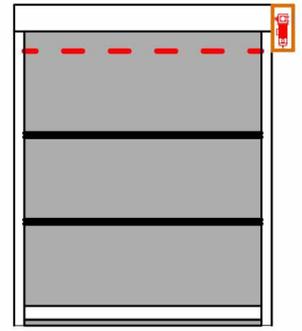
YELLOW
RAL 1003



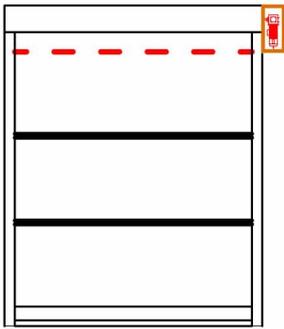
ORANGE
RAL 2004



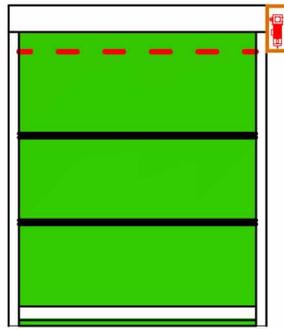
BLUE
RAL 5002



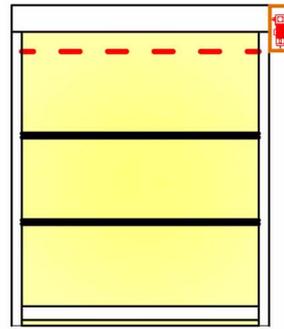
LIGHT GREY
RAL 7035



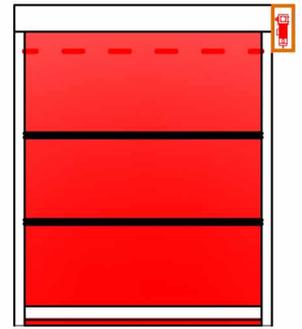
WHITE
RAL 9010



GREEN
RAL 6037

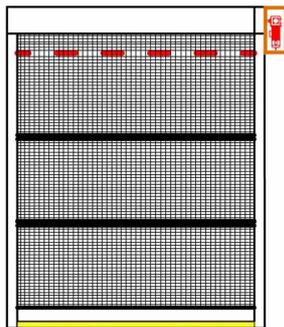


CREAM
RAL 9001

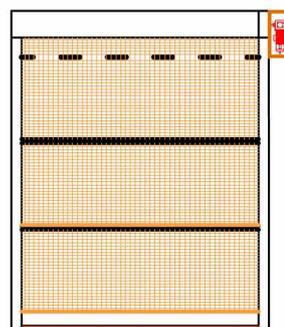


RED
RAL 3028

■ TRANSPARENT WITH NET INSIDE



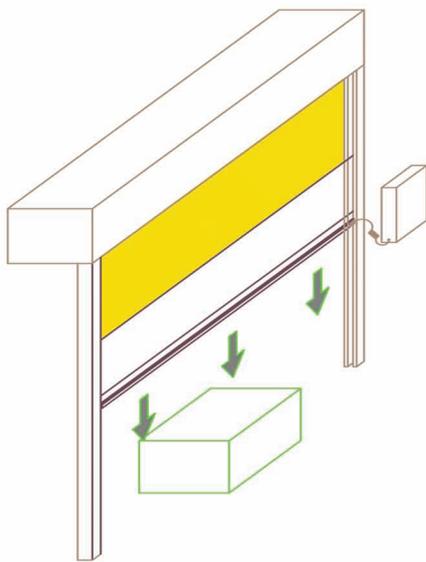
TRANSPARENT WITH NET INSIDE
(INSECT-PROOF ORANGE SHEET)



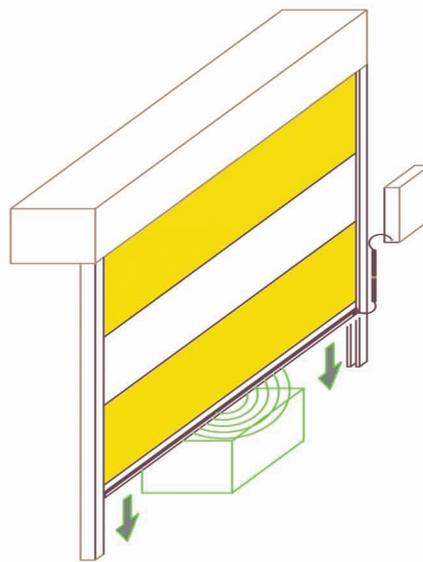
SAFETY SYSTEM FOR THE SHUTTER

1

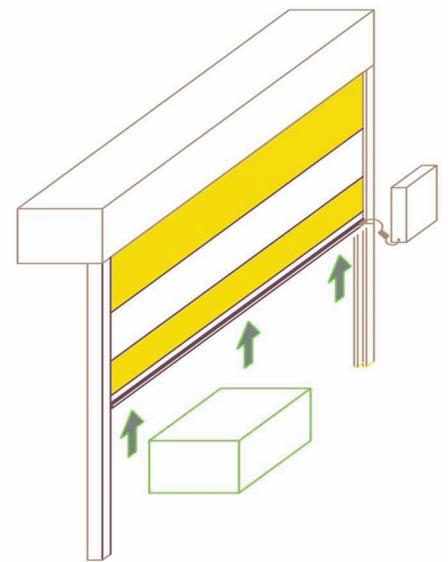
SAFETY BOTTOM EDGE



SHUTTER DOWN



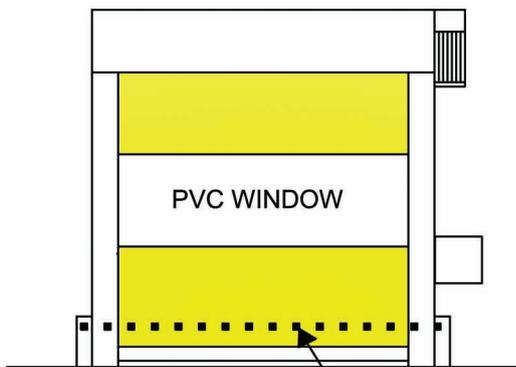
SHUTTER BUMP OBJECT



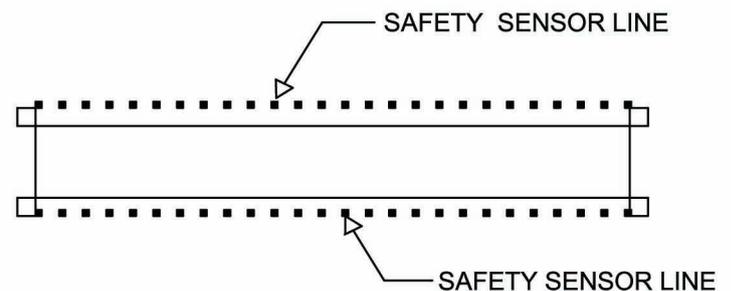
**SHUTTER UP
(AUTOMATIC BY SENSOR)**

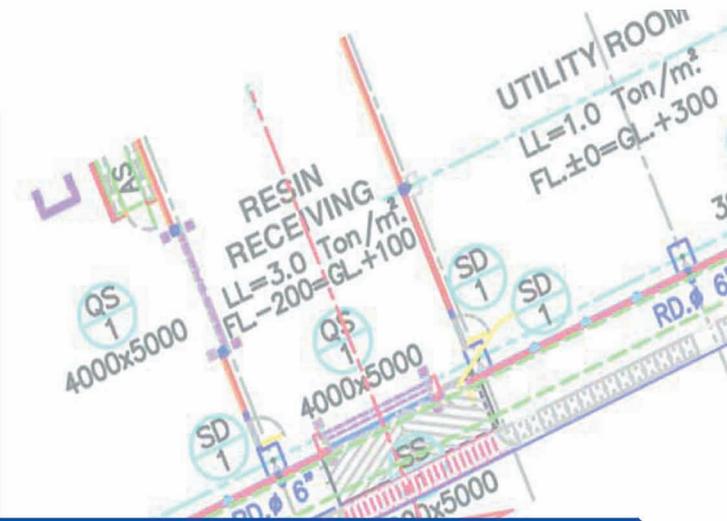
2

PHOTO SAFETY SENSOR

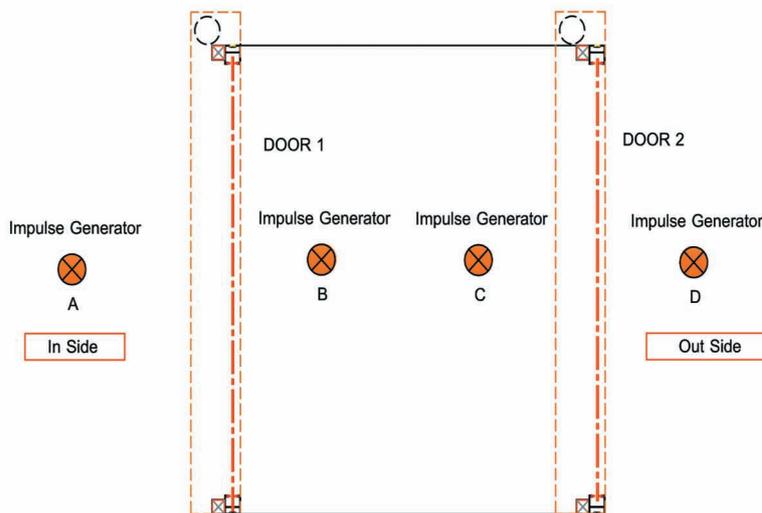


SAFETY SENSOR LINE





Interlocking Details



PLAN SHUTTER

In the case of interlocking 4 impulse generators are used (Sensor, remote control, push button switch or pull switch)

Impulse A opens door 1.

Transport drives into the airlock.

Door 1 closes once photocell of door 1 is clear

Door 2 will not automatically open once door 1 does not reached the bottom end-of-travel position.

After door 1 has reached the bottom end-of-travel position, door 2 automatically receives an impulse to open.

Transport leaves the air lock and door 2 closes once the photocell of door 2 is clear.

Service and Maintenance

Regular maintenance is needed on all doors regardless of application, simply to obtain optimal function at all times and to reduce the number of unnecessary repairs.

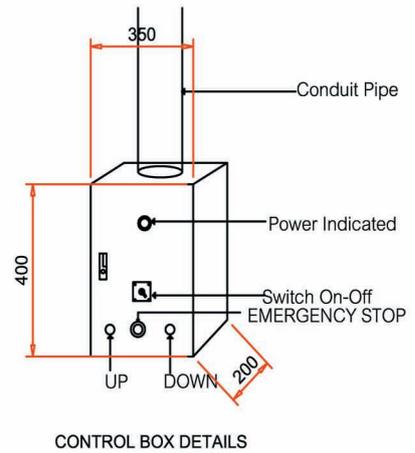
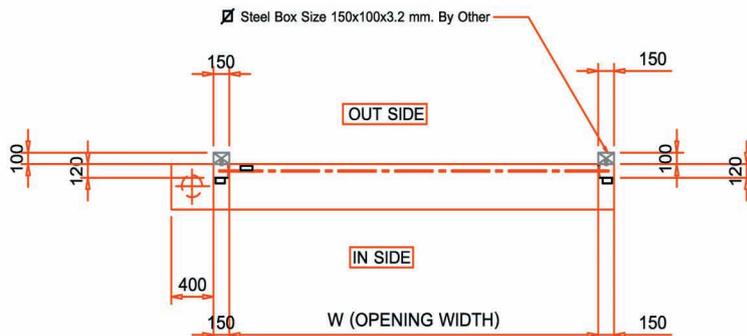
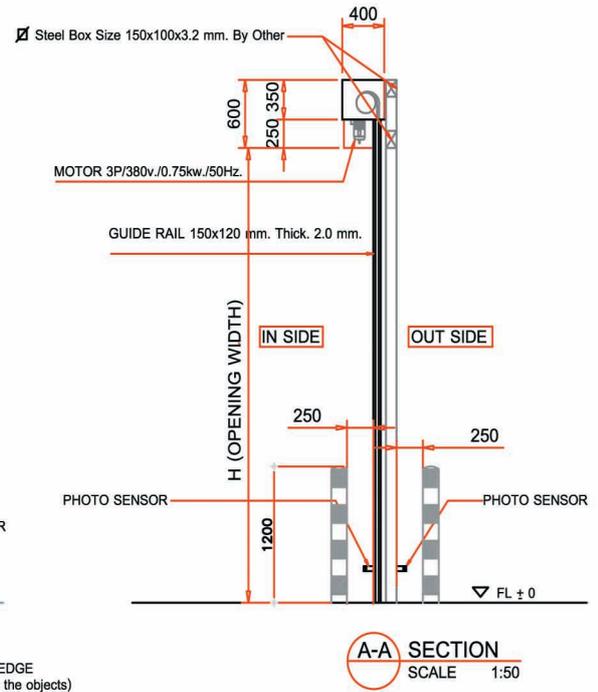
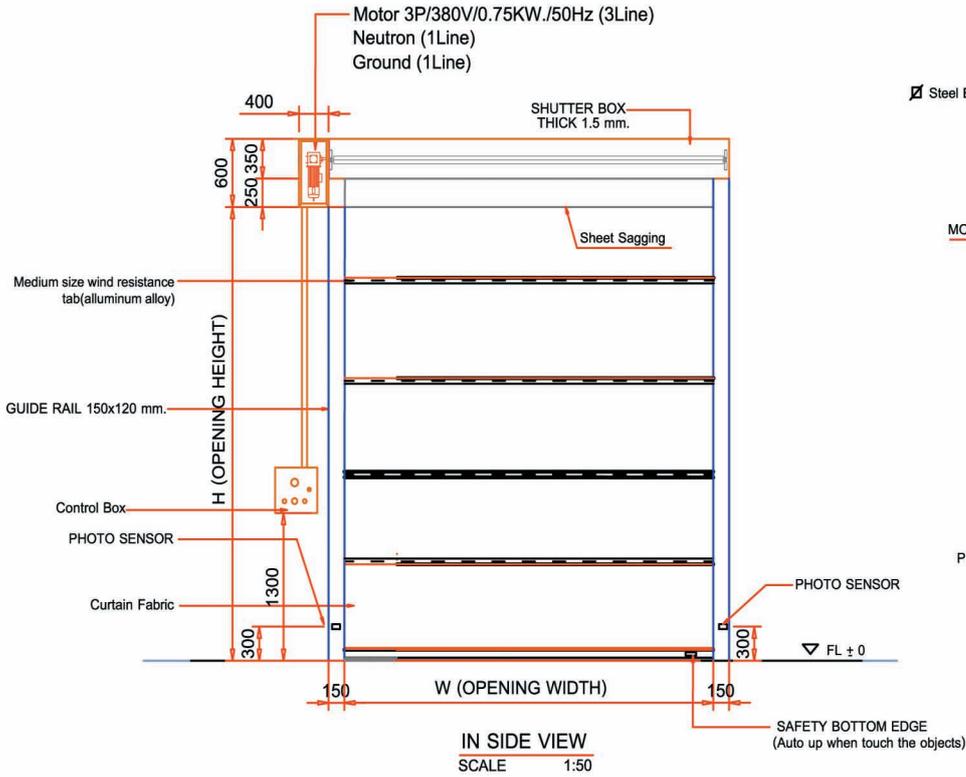


Our service department will take care of urgent problems in an efficient way with a minimum delay for the customers.



Our own spare part supply system ensures fast deliveries with original parts.

Installation Drawing for 0.75 Kw. Model



* The installation location of the control panel or optional equipment will be determined through consultation at each site.

Product Warranty

1. Warranty Period

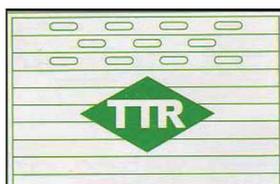
- (1) The product has one year warranted after finish installation.
- (2) The warranty period will not be extended even if the product is serviced or repaired during or after the warranty period. The same also applies to repaired or replaced parts.

2. Scope of Warranty

- (1) The product is warranted against any defect or failure that may occur during the warranty period under normal use conditions in compliance with the standard specifications, installation manual and operation manual.

3. The Warranty does not apply to the following cases.

- (1) Product failure or damage from improper product repair or modification by a user.
- (2) Product failure or damage from misuse or erroneous operation by a user.
- (3) Product failure or damage from (fire disaster, earthquake, wind, flood damage, lightning, freezing)



บริษัท ไทยโตโย โรลลิง จำกัด

THAI TOYO ROLLING CO.,LTD



ห.จ.ก. อินเตอร์ชัตเตอร์

INTER SHUTTER LTD.,PART

23/4-5 หมู่ 3 ถ.เอกชัย-บางบอน ต.คอกกระบือ

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Amphur Meung, Samutsakorn 74000

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