

LOGISTIC
SOLUTIONS

FOLDING DOORS / SLIDING PANELS



KOPRON



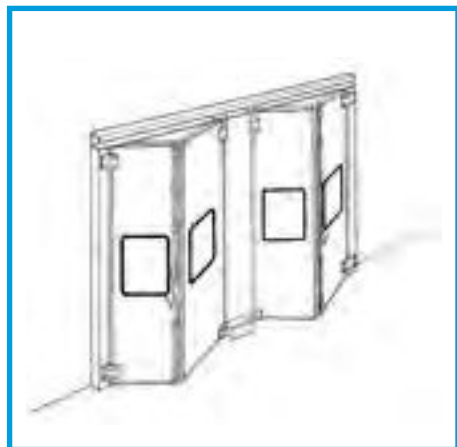
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NOTE

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KPL SG folding door without guides



Single or double wing folding door hinged to the side jambs without ground tracks

For sizes and type see feasibility table at page 6

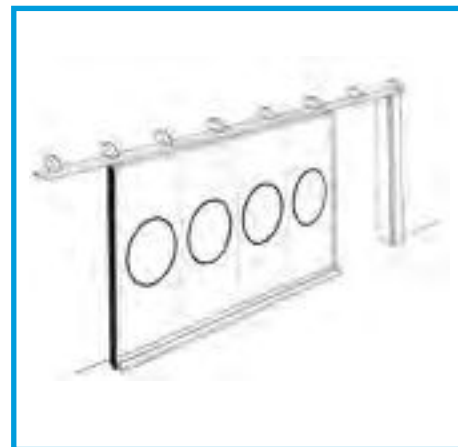
KPL CG folding door with tracks



Single or double wing lateral folding door with overhead and ground tracks and folding area.

For sizes and type see feasibility table at page 39

KPA sliding door



Single or double wing straight sliding door..

For sizes and type see feasibility table at page 52

MODELS

KPA SGS

Sliding door with carrying overhead track

KPA SGST

Sliding door with carrying overhead guide plus ground track

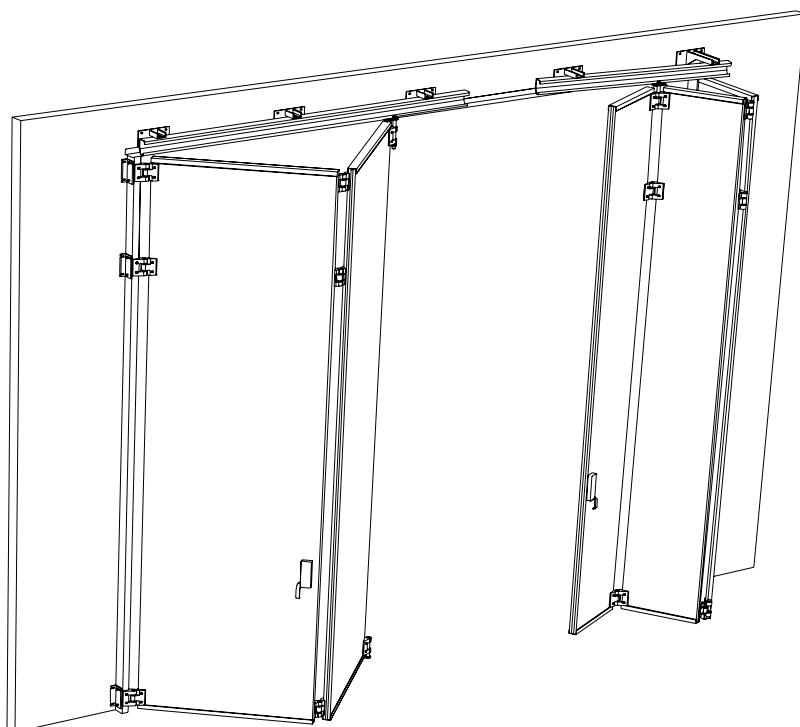
KPA SGI

Sliding door with a carrying ground track

KPA SGII

Sliding door with a built-in carrying ground track

FIG 1



FOLDING DOOR KPL SG

Folding door without ground track hinged to side jambs.

FIG 2



FOLDING DOOR WITHOUT GROUND TRACK HINGED TO SIDE JAMBS AND WITH CUT PANEL



FIG 3

PANELS	TYPE	CI (Commercial Length)		Panel width (Ww)	DIMENSION A		Ch Commercial height MAX
		MIN	MAX				
1+0		700	1530	CI-80	100		6000
2+0		1350	3010	(CI-80)/2	200		6000
3+0		2000	4490	(CI-80)/3	300		6000
4+0		2650	5970	(CI-80)/4	400		6000
1+1		1380	3040	(CI-80)/3	100	100	6000
2+1		2030	4520	(CI-80)/3	200	100	6000
2+2		2680	6000	(CI-80)/4	200	200	6000
3+1		2680	6000	(CI-80)/4	300	100	6000
3+2		3330	7480	(CI-80)/5	300	200	6000
3+3		3980	8960	(CI-80)/6	300	300	6000
4+1		3330	7480	(CI-80)/5	400	100	6000
4+2		3980	8960	(CI-80)/6	400	200	6000
4+3		4630	10440	(CI-80)/7	400	300	6000
4+4		5280	11920	(CI-80)/8	400	400	6000

FIG 4

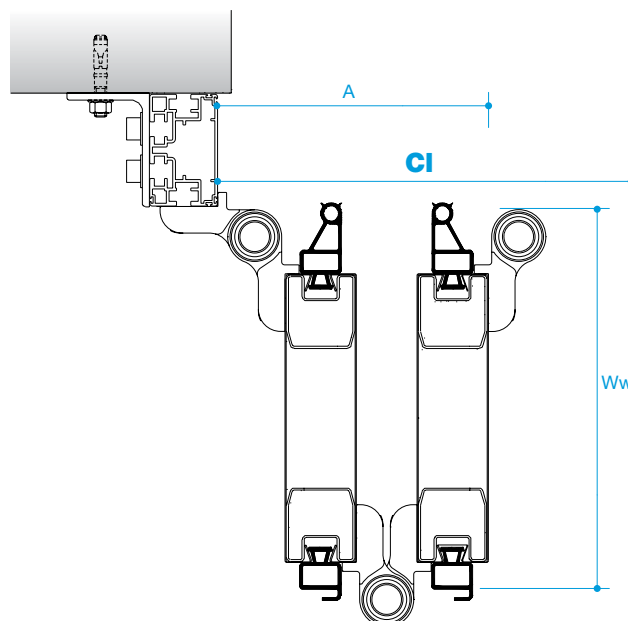


FIG 5

WALL FACED INTERNAL ASSEMBLY

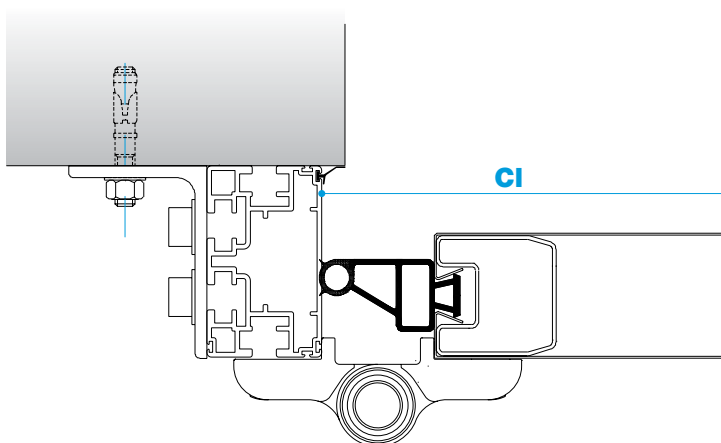


FIG 6

WALL FACED EXTERNAL ASSEMBLY

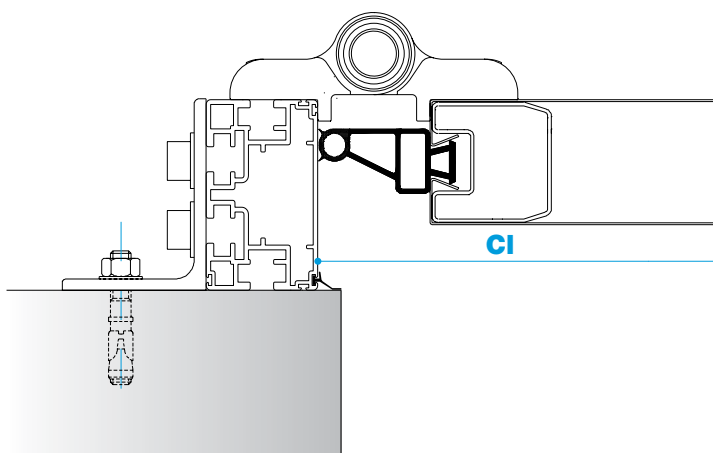
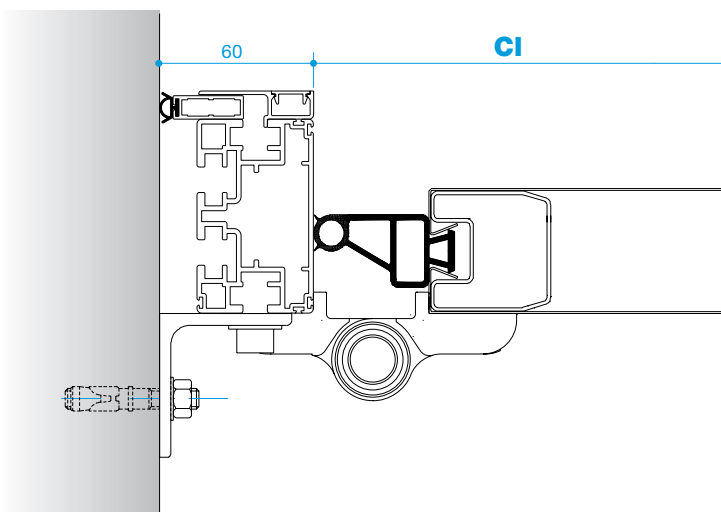


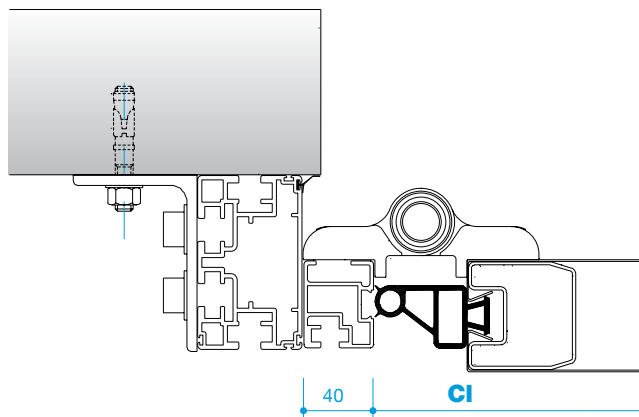
FIG 7

INTERNAL ASSEMBLY WITHIN WALL OPENING



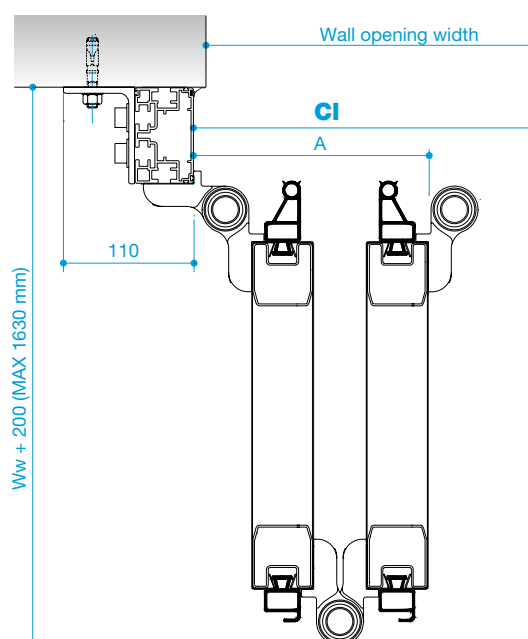
**INTERNAL ASSEMBLY SINGLE PANEL
WITHIN WALL OPENING**

FIG 8



**WALL FACED HORIZONTAL SECTION
ASSEMBLY
90° Opening**

FIG 9



**WALL FACED HORIZONTAL SECTION
ASSEMBLY
180° Opening**

FIG 10

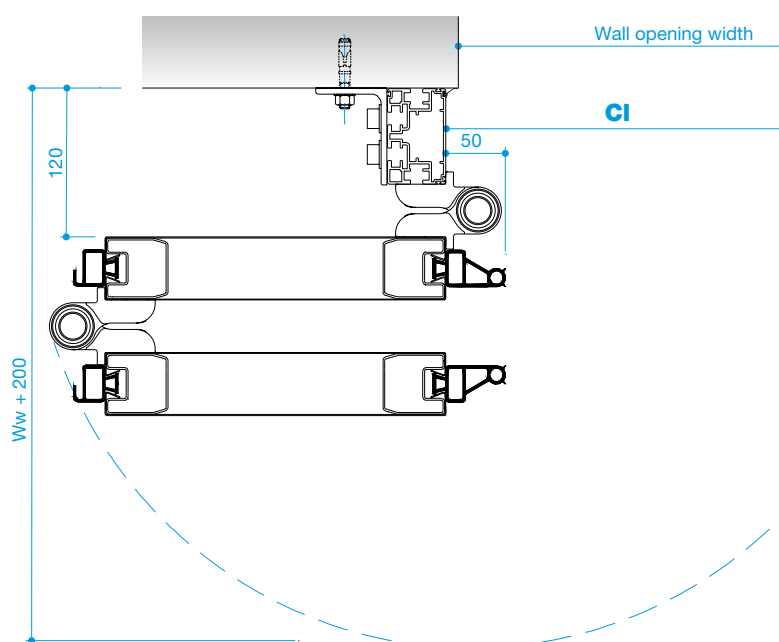


FIG 11

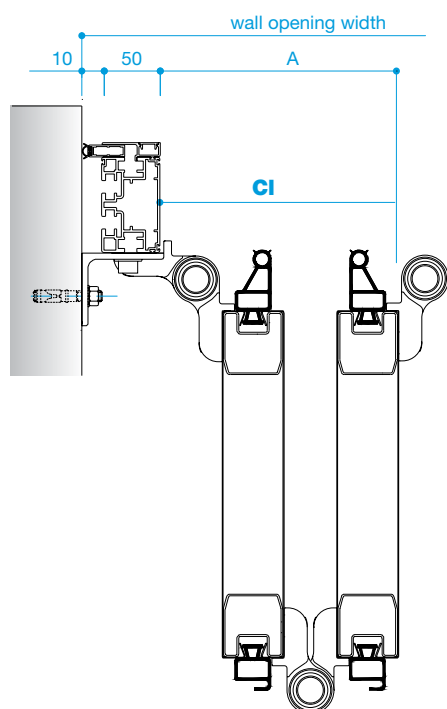
WALL FACED ASSEMBLY
90° Opening

FIG 12

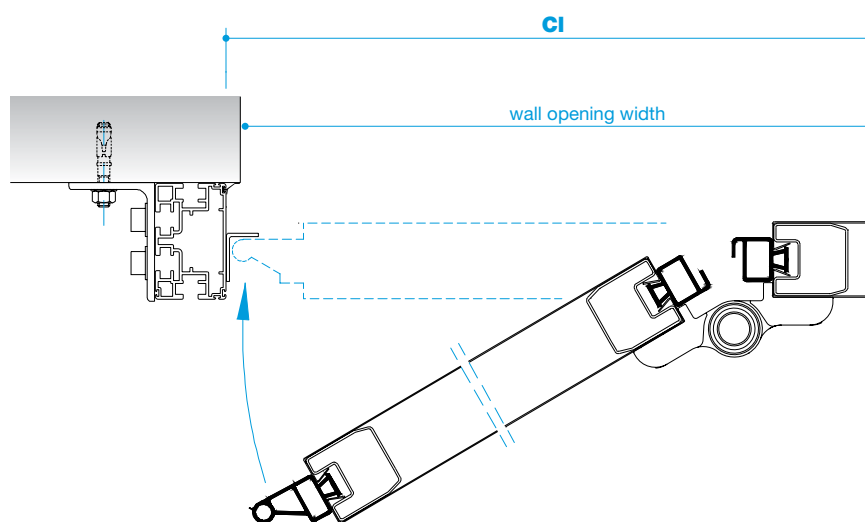
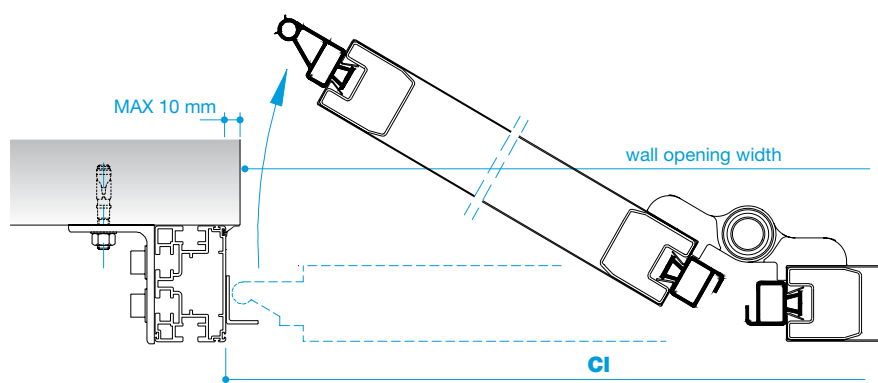
DOORSTOP WITH INSIDE OPENING
(EXAMPLE 3+0 TYPE, DRAWING 7
AND 8)

FIG 13

CUT PANEL DOORSTOP WITH OPENING
FROM THE OUTSIDE
(EXAMPLE DRAWING 3 AND 4)

MAIN JUNCTION POINTS

WALL FACED UPPER TRACK ASSEMBLY

90° e 180° manually operated or with motor

With assembly at 90°:

B = 210 mm

With assembly at 180°:

B = 330 mm

UPPER TRACK

ASSEMBLY WITHIN WALL OPENING
90° e 180° manually operated or with motor

With assembly at 90°:

B = 210 mm

With assembly at 180°:

B = 330 mm

CL

FIG 14

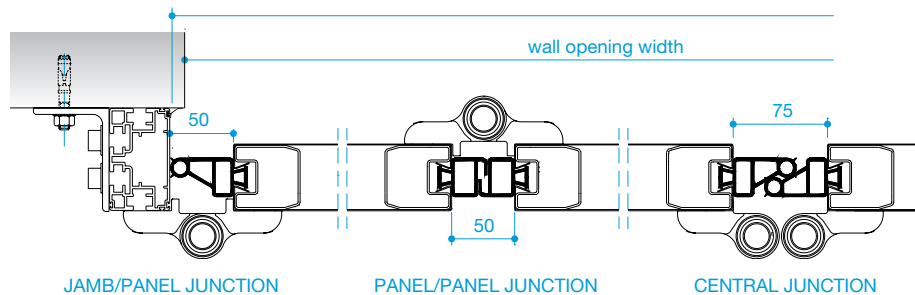


FIG 15

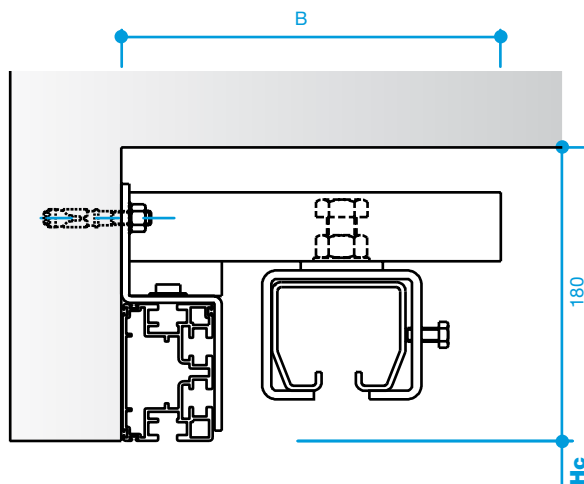
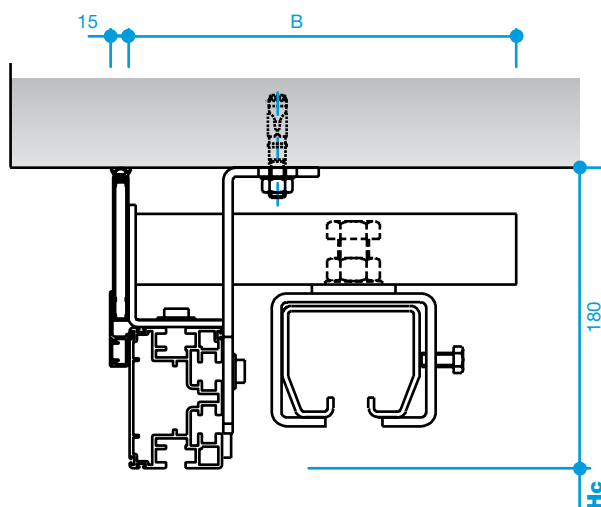


FIG 16



RAIL REINFORCING BRACKET
ASSEMBLY WITHIN DOORWAY

TRACKS

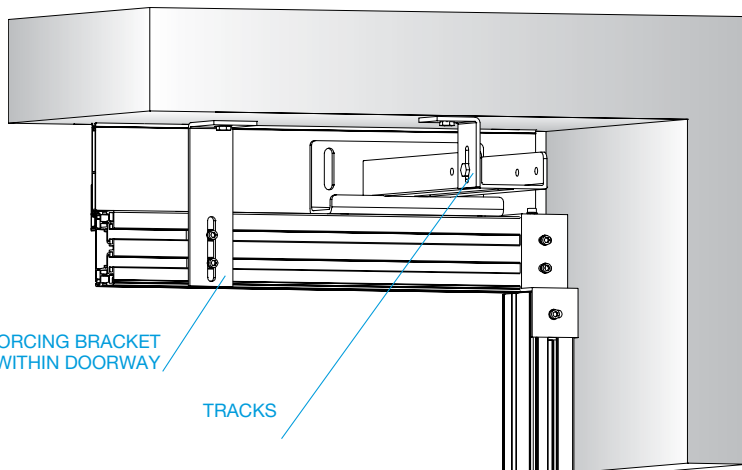
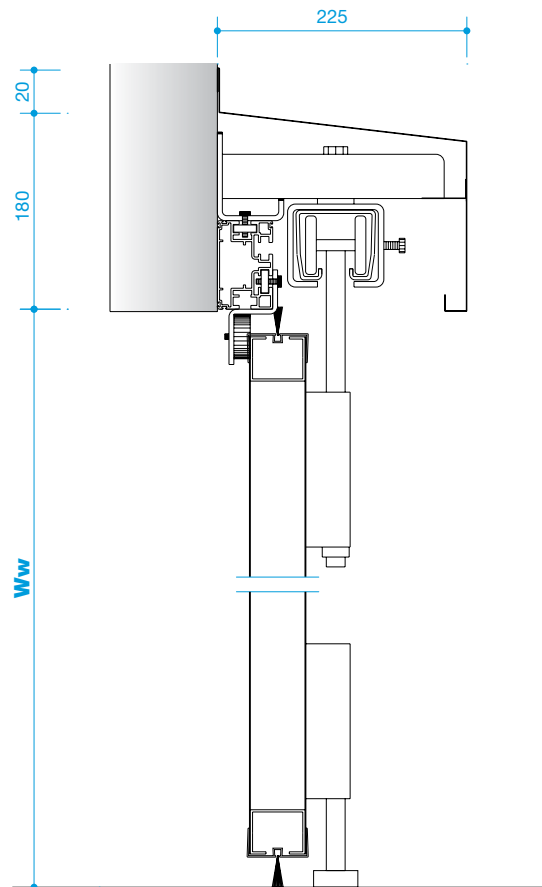
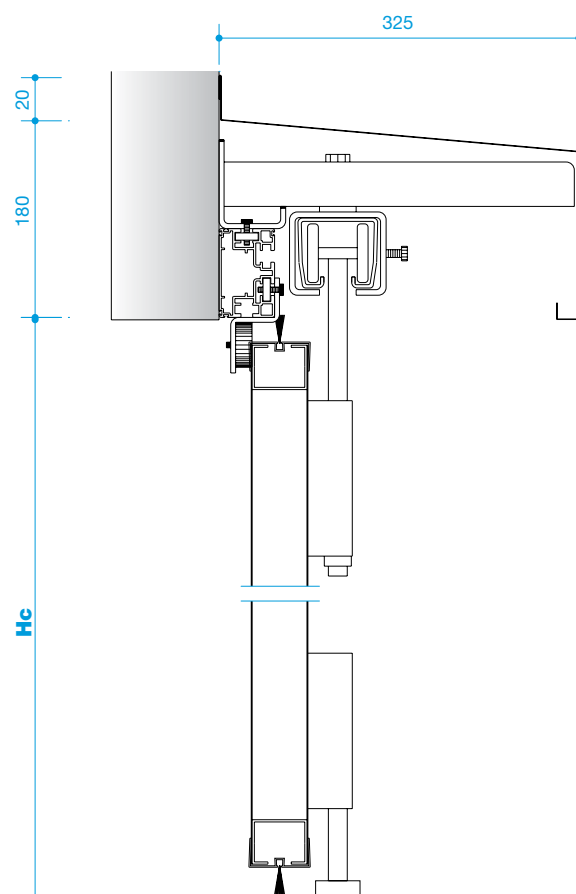


FIG 17



**OVERHEAD TRACK EXTERNAL
ASSEMBLY WALL FACED**
with a 90° protection casing as an optional.

FIG 18



**OVERHEAD TRACK EXTERNAL
ASSEMBLY WALL FACED**
with a 180° protection casing as an optional

OVERHEAD TRACKS

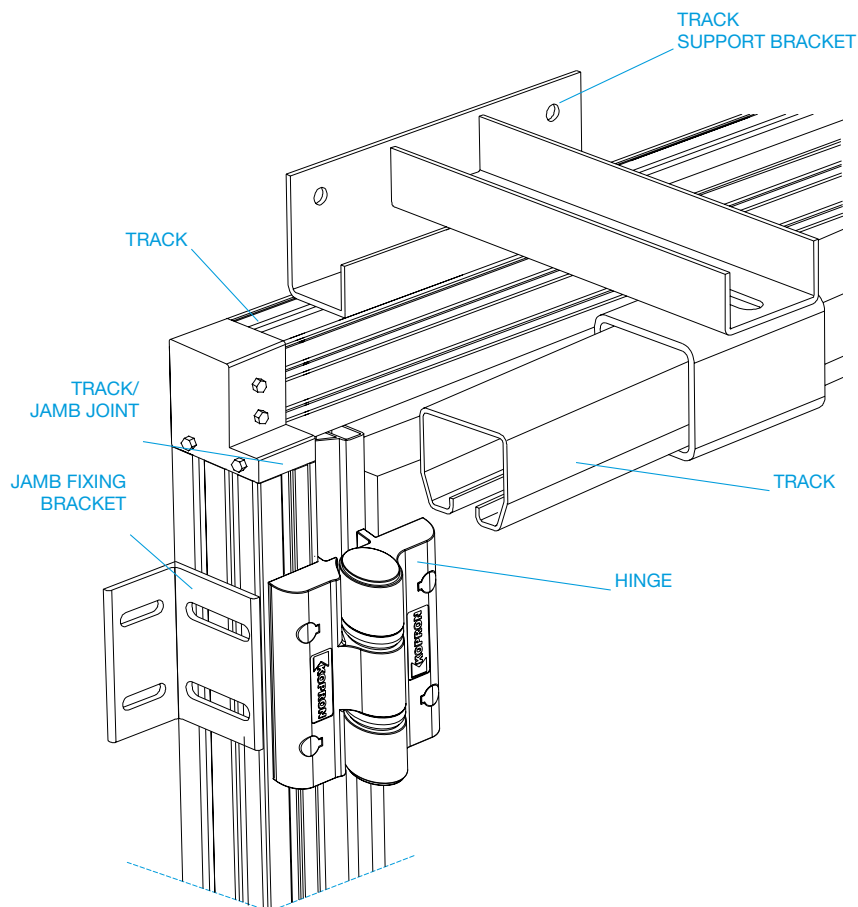
For folding doors KPL SG, overhead tracks consist of an aluminium rail where brackets, tracks, lock strike plate and doorstop are anchored.

The track, in Ral 9005 black paint, provided with a limit switch device for the sliding roller, enables sliding in safety and a normal opening from 90° to 180°.

As per drawing, the track is fixed to the vertical jamb with a joint block and to the carrying structure with brackets.

The upper track in case of doors exceeding width 5900 mm is divided in two parts.

FIG 19



VERTICAL SECTION DOOR BOLT ADJUSTING

FIG 20

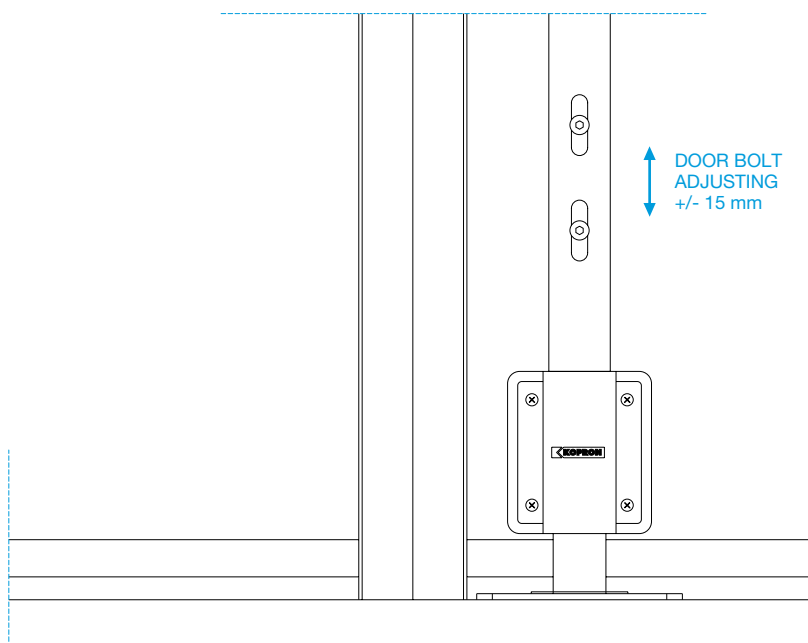


FIG 21

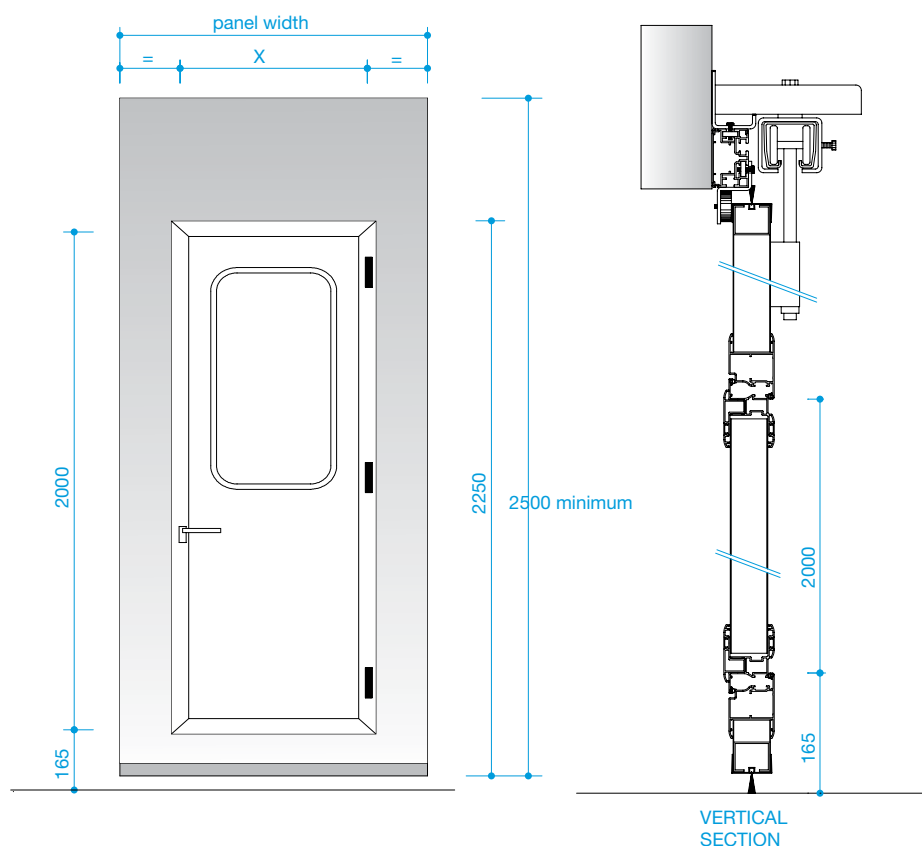


FIG 22

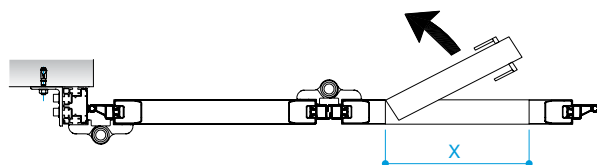


FIG 23

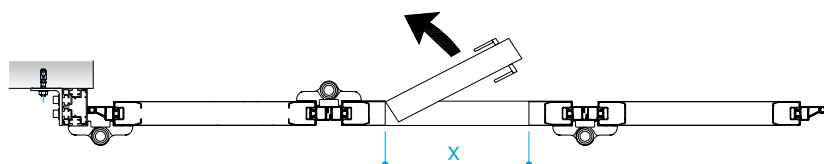
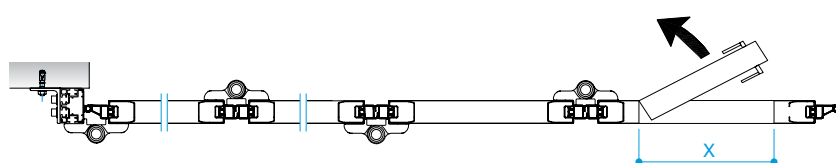


FIG 24



WICKET DOORS

Folding door KPL SG can have a wicket door with lock and internal/external handle.

The door consists of black painted aluminium profiles (Ral 9005) and in case of a drive unit it has safety micro switch which prevents movements if the door isn't completely closed.

SIZES

X = 600 mm by Panel width > 950 mm

X = 700 mm by Panel width > 1050 mm

X = 800 mm by Panel width > 1150 mm

X = 900 mm by Panel width > 1250 mm

LIST OF WINDOWS

WICKET DOOR	WINDOW		
	300x600	450x650	Ø 450
600	■		
700	■	■	■
800	■	■	■
900	■	■	■

WICKET DOOR POSITIONING

2 Panels

3 Panels

4 Panels

CUT PANEL

In the KPL SG folding doors you can insert a wicket door with same width as the panel with a 180° opening.

The door has an emergency handle with either an upper or lower lock. Upon request you can have a handle with a key lock on the outside.

NOTE

Consider a minimum commercial height of 3000 mm for inserting the cut panel.

VERTICAL SECTION CUT PANEL

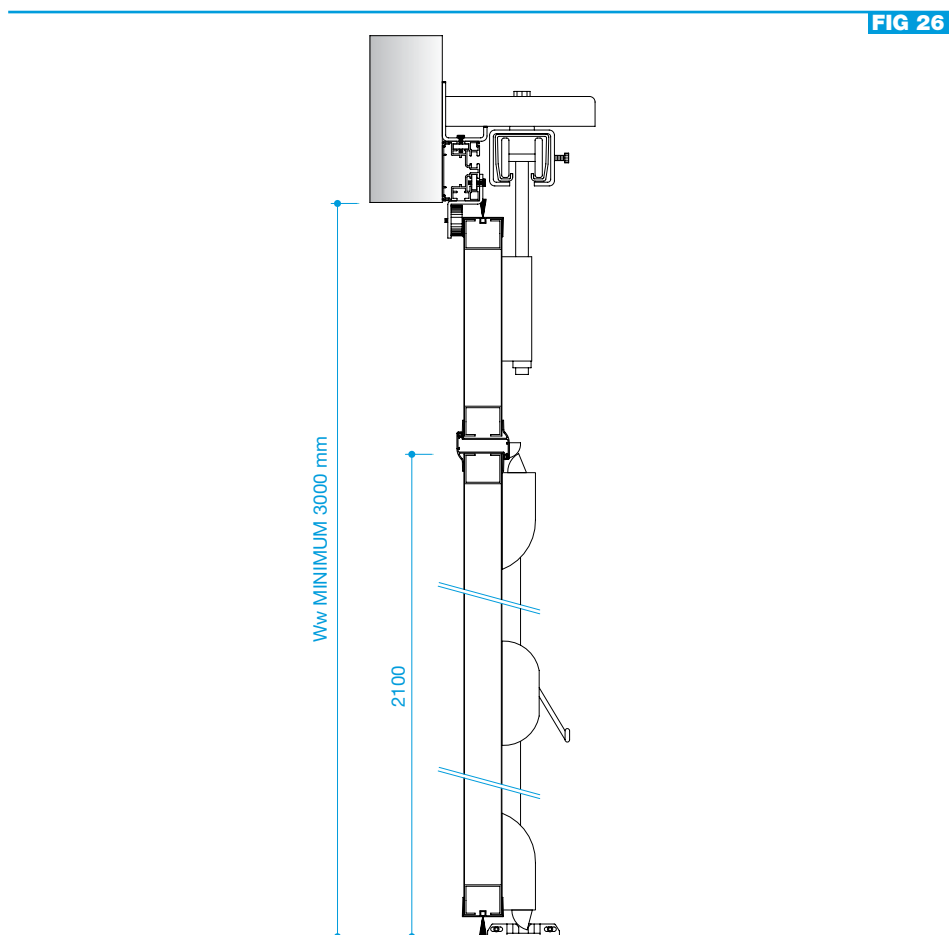
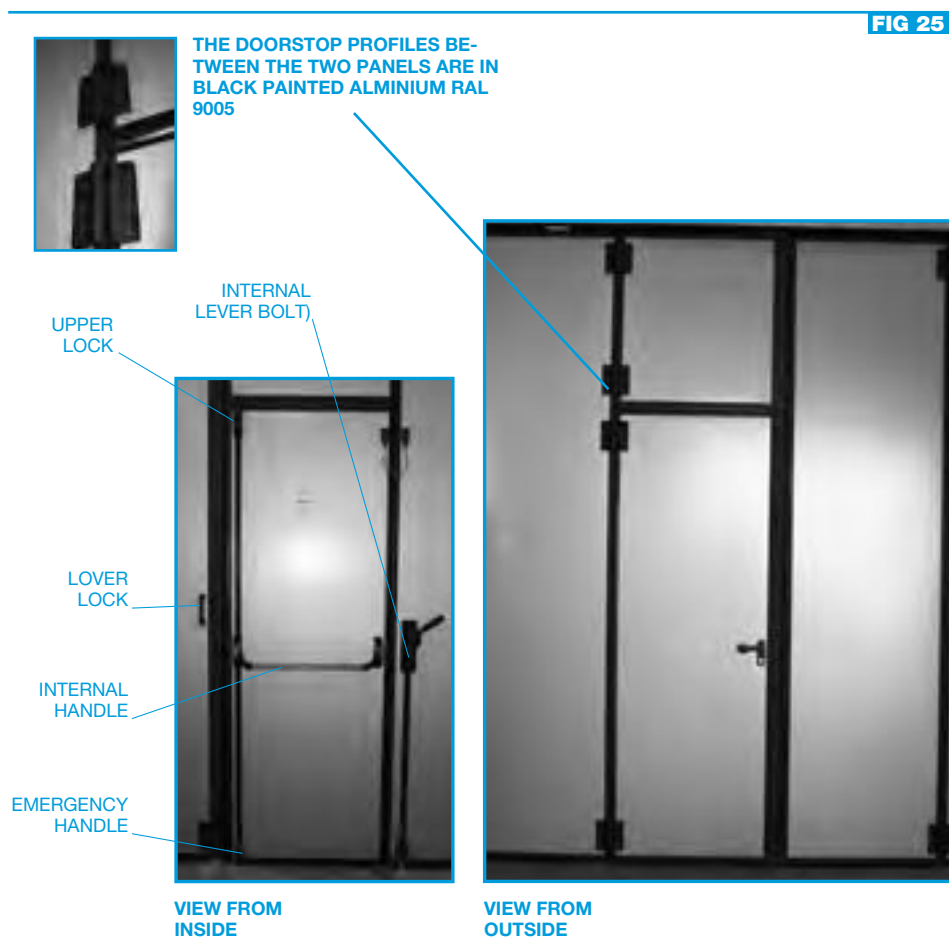


FIG 27

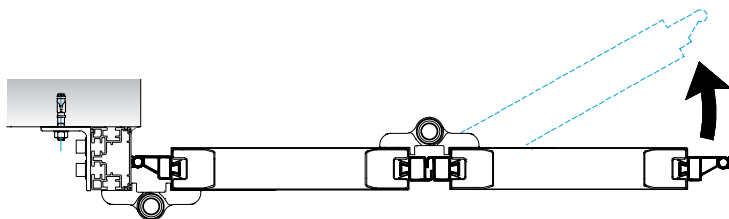


FIG 28

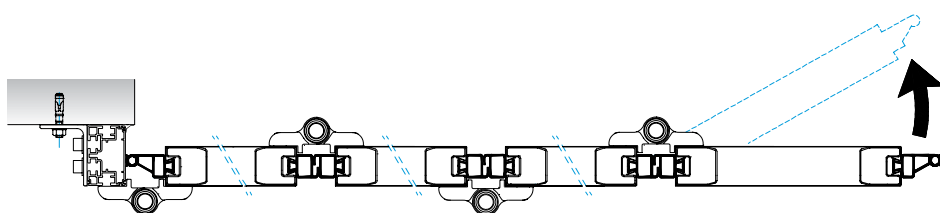


FIG 29

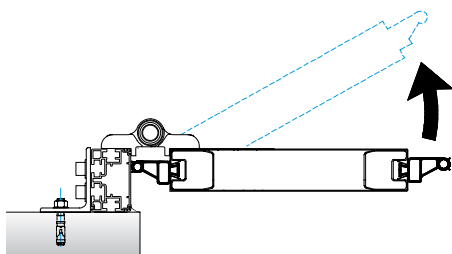
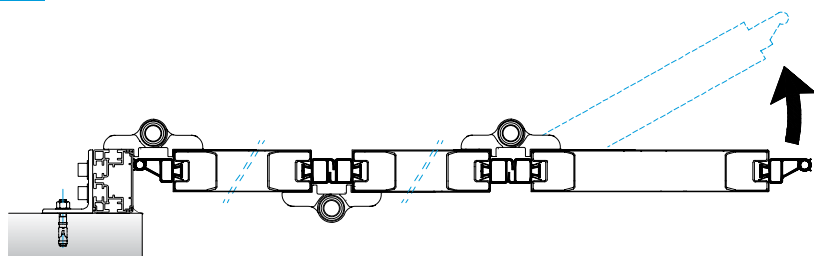


FIG 30



POSITIONING SCHEME
INSIDE ASSEMBLY TWO PANELS

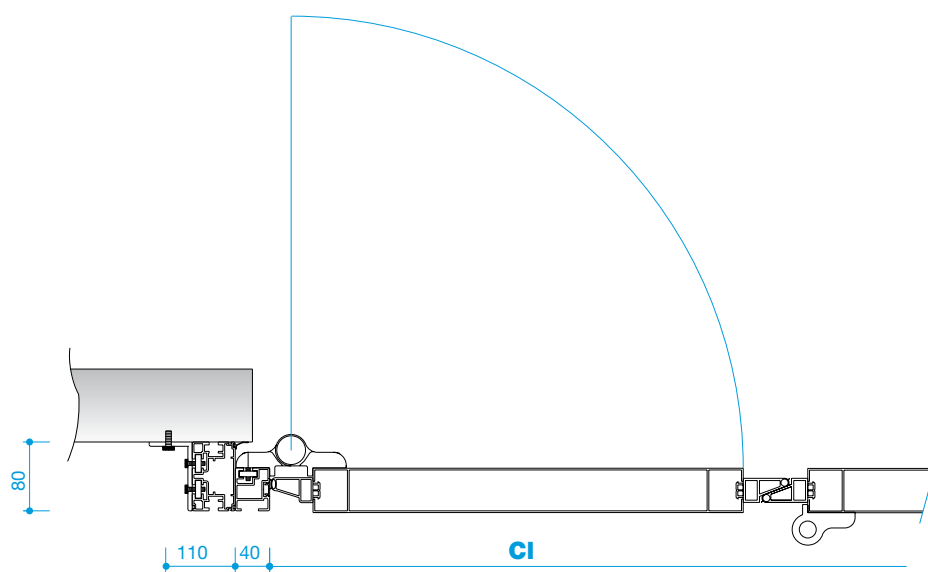
POSITIONING SCHEME
INSIDE ASSEMBLY FOUR PANELS

POSITIONING SCHEME
OUTSIDE ASSEMBLY ONE PANEL

POSITIONING SCHEME
OUTSIDE ASSEMBLY THREE PANELS

CUT PANEL WITH OPENING FROM THE OUTSIDE AND INTERNAL ASSEMBLY

FIG 31



CUT PANEL WITH OPENING FROM THE OUTSIDE AND ASSEMBLY WITHIN WALL OPENING

FIG 32

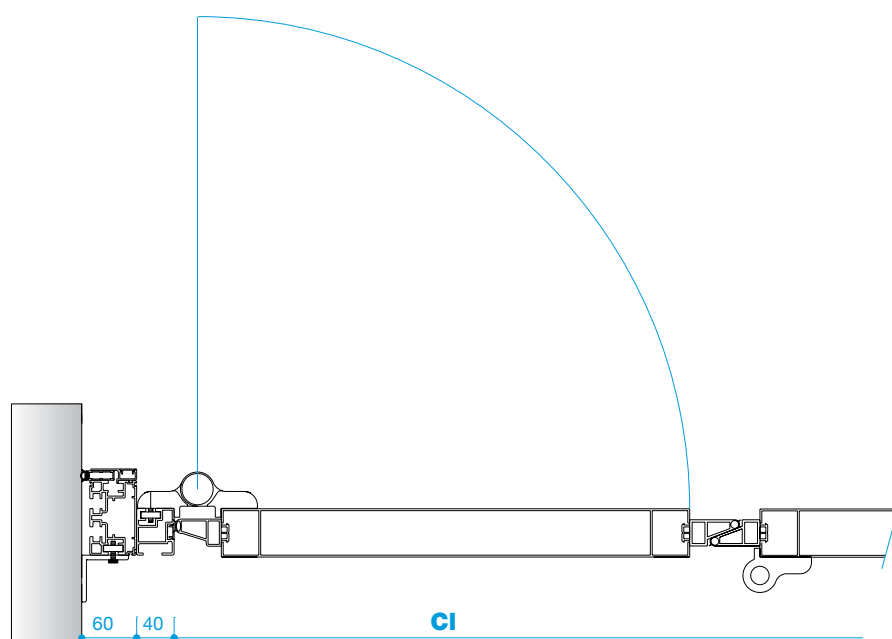


FIG 33



1 MOTOR REDUCER FOR FOLDING AT 90°

2 MOTOR REDUCER FOR FOLDING AT 180°

3 TELESCOPIC ARMS KIT

4 MOTOR OPERATING KIT

5 CONTROL PANEL

6 FLASHER

7 COUPLE OF PHOTOCELLS

8 RADIO CONTROL

9 PHOTOCELL TOWERS

10 KEY SELECTOR

FIG 34

FAAC390 MOTOR REDUCER - TECHNICAL CHARACTERISTICS

Power supply	230V (+6% -10%) 50Hz (60Hz)
Absorbed power (W)	280
Absorbed current(A)	1,2
Couple max (Nm)	250
Capacitor (μF)	8
Winding protection (°C)	140
Reduction ratio	1:700
Angular speed (°/sec.)	8
Environment temperature (°C)	-20 / +55
Frequency of use (cycle/hour)	15
Number r.p.m.	960
Motor reducer weight (Kg)	11,5
Protection level	IP 44
Dimensions	See Fig. 35
Max panel length	1500 mm

MOTORIZATION

KPL SG folding doors have an electromechanical motor reducer with a telescopic arm, wheel drive assembled on panels for the 90° version, instead for the 180° version assembly is on the overhead track.

On the lever bolt there is a safety micro switch which prevents actioning in case the lever bolt is locked.

For side parting line doors automation is as follows:

- N°1 electromechanical non reversable motor reducer 230 V-50 Hz;
- N°1 telescopic arm kit
- N°1 manual operating kit
- N°1 electronic equipment which includes: electronic clutch, self-testing photocells;
- N°1 yellow flasher 230 V;
- N°1 couple of external photocells.

Four central parting line doors automation is as follows:

- N°2 electromechanical non reversable motor reducer 230 V-50 Hz;
- N°2 telescopic arm kits;
- N°2 manual operatig kit;
- N°1 electronic equipment which includes: electronic clutch;
- N°1 yellow flasher 230 V;
- N°1 couple of external photocells.

Upon request you can have the following options:

- Two-way and four-way radio controls;
- Aluminium photocell towers;
- Key selector;
- Remote control for motor operation

MOTOR REDUCER TECHNICAL CHARACTERISTICS

MOTOR REDUCER SIZE

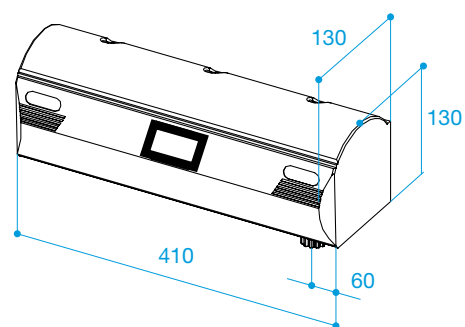
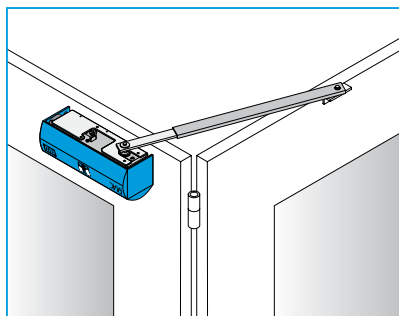
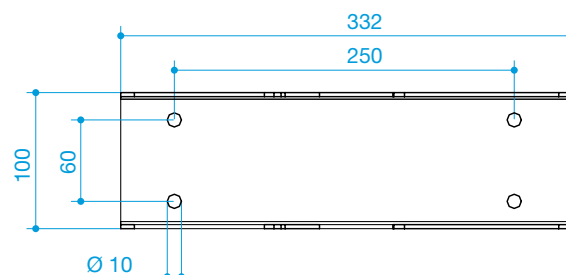


FIG 35



**MOTOR POSITIONING
ASSEMBLY WITHIN WALL OPENING AT 90°**

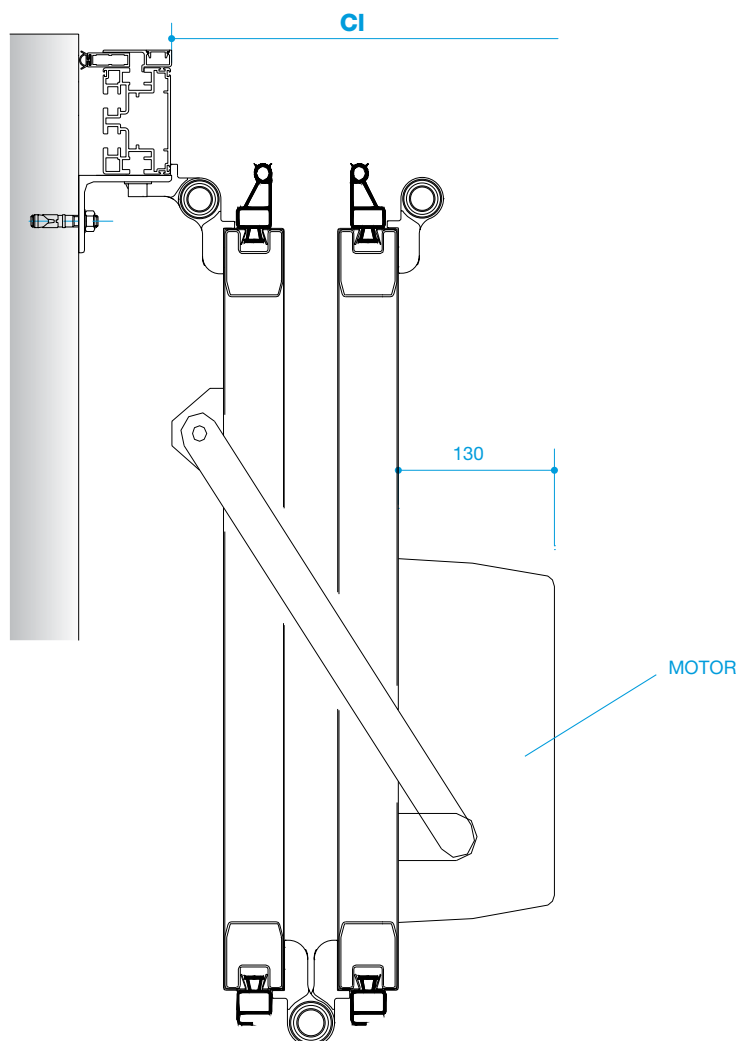
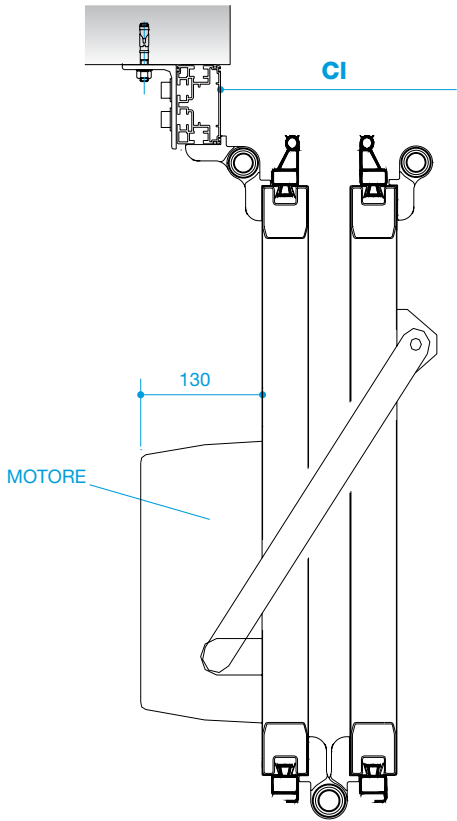


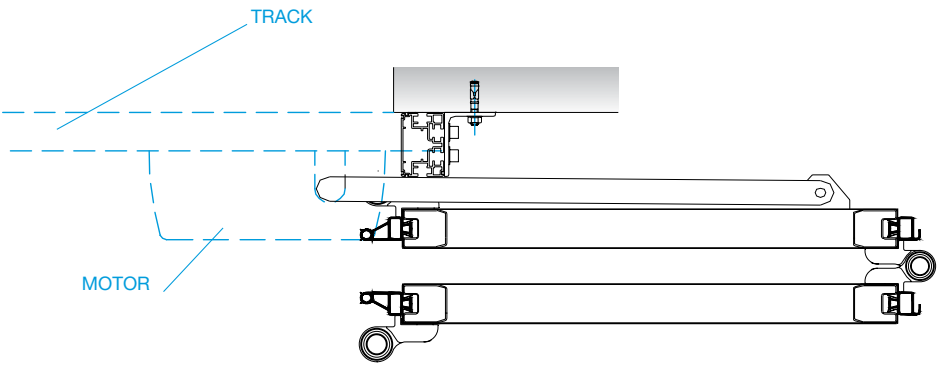
FIG 36

FIG 37



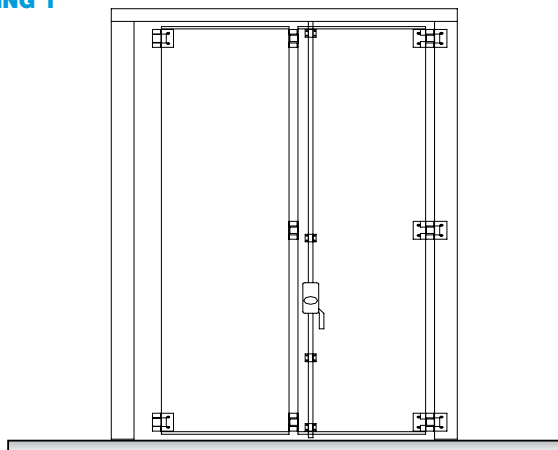
**MOTOR POSITIONING
ASSEMBLY WALL FACED
WITH 90° FOLDING**

FIG 38



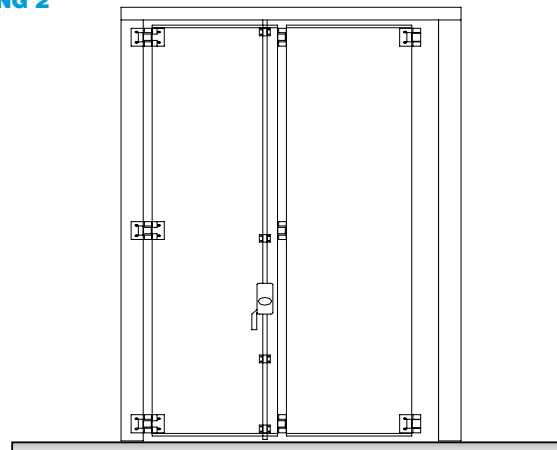
**MOTOR POSITIONING WITH
A 180° FOLDING OR SINGLE PANEL**
Motor fixed on the overhead track

DRAWING 1



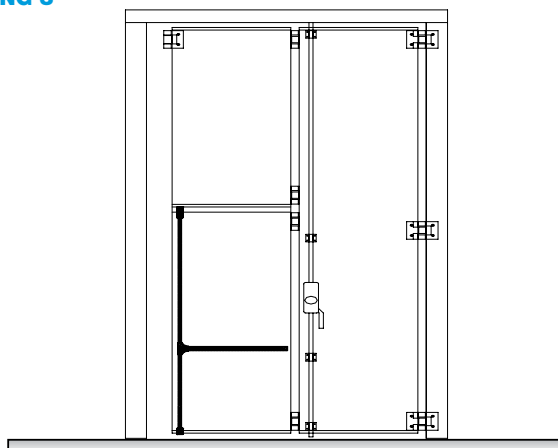
Assembly: INTERNAL
Type: 0 LEFT PANELS + 2 RIGHT

DRAWING 2



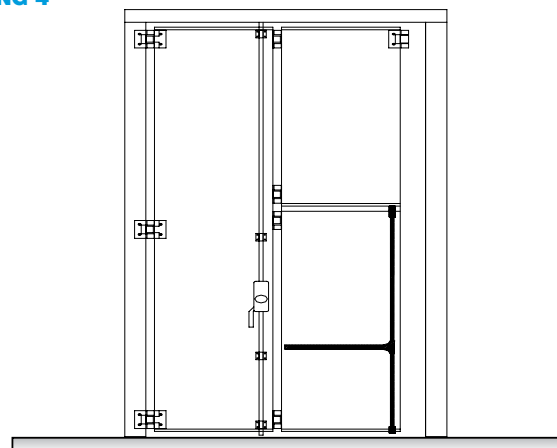
Assembly: INTERNAL
Type: 2 LEFT PANELS + 0 RIGHT

DRAWING 3



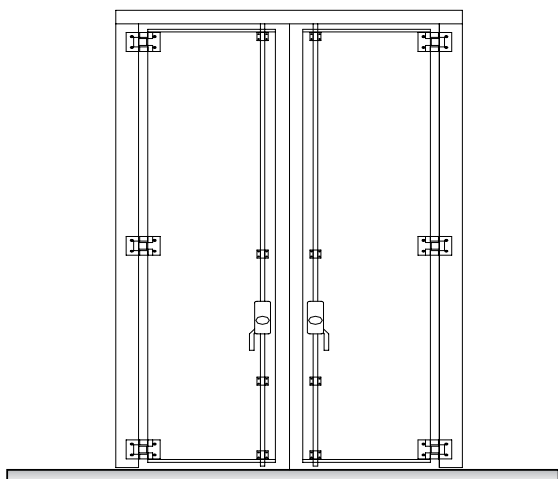
Assembly: INTERNAL
Type: 0 LEFT PANELS+2 RIGHT +CUT P

DRAWING 4



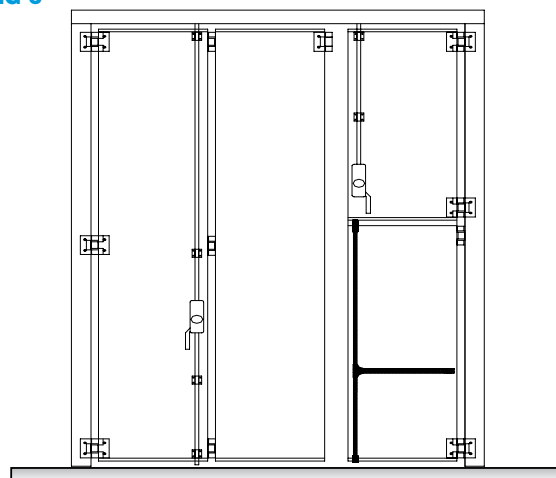
Assembly: INTERNAL
Type: 2 LEFT PANELS+0 RIGHT+ CUT P

DRAWING 5



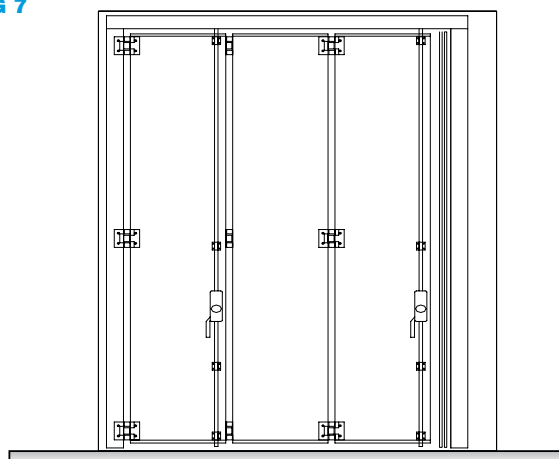
Assembly: INTERNAL
Type: 1 LEFT PANEL + 1 RIGHT

DRAWING 6



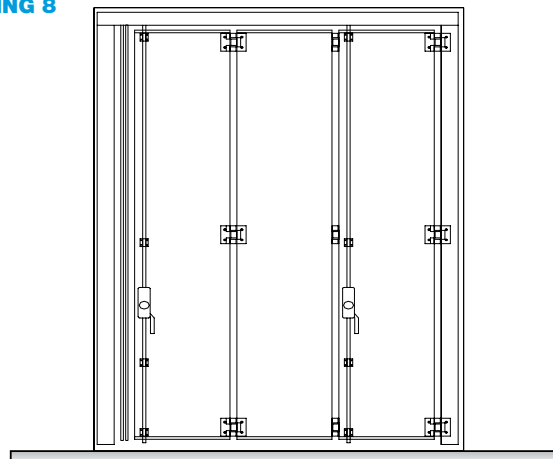
Assembly: INTERNAL
Type: 2 LEFT PANELS+1 RIGHT+ CUT P

DRAWING 7



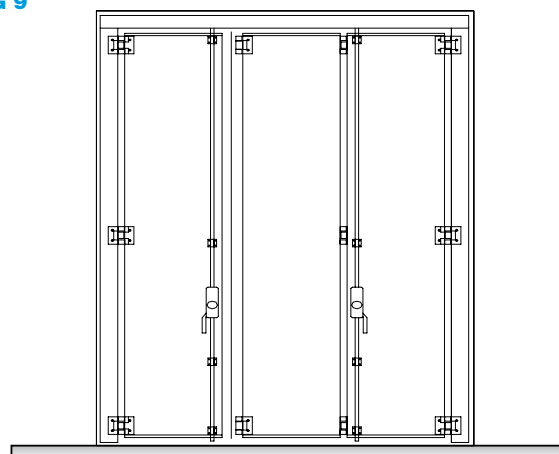
Assembly: INTERNAL
Type: 3 LEFT PANELS + 0 RIGHT

DRAWING 8



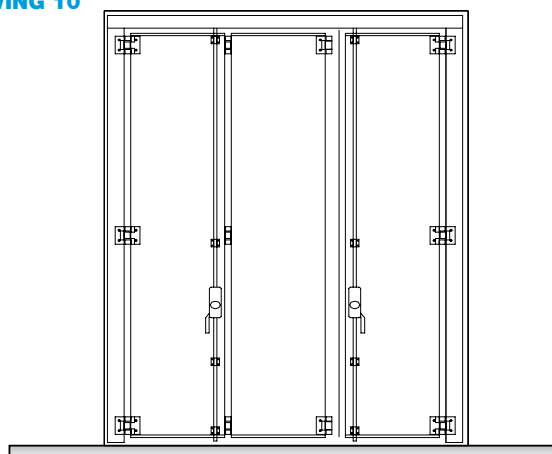
Assembly: INTERNAL
Type: 0 LEFT PANEL + 3 RIGHT

DRAWING 9



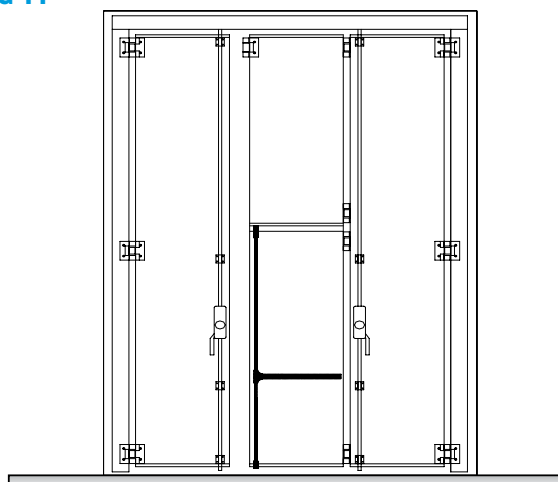
Assembly: INTERNAL
Type: 1 LEFT PANEL + 2 RIGHT

DRAWING 10



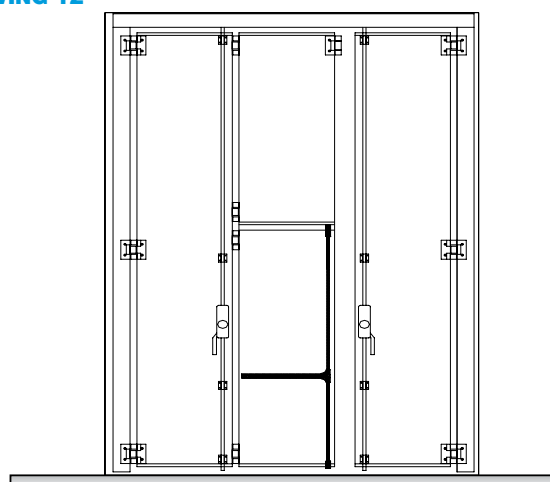
Assembly: INTERNAL
Type: 2 LEFT PANELS + 1 RIGHT

DRAWING 11



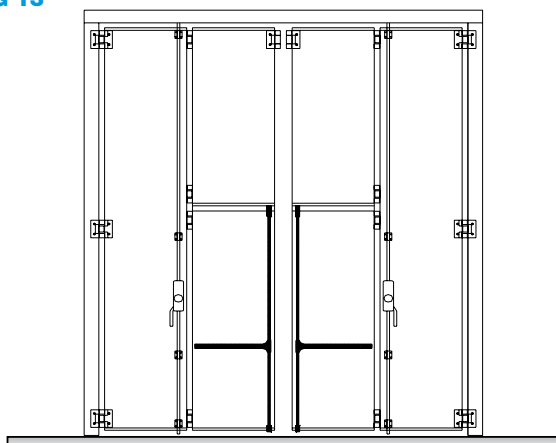
Assembly: INTERNAL
Type: 1 LEFT PANEL + 2 RIGHT+ CUT P.

DRAWING 12



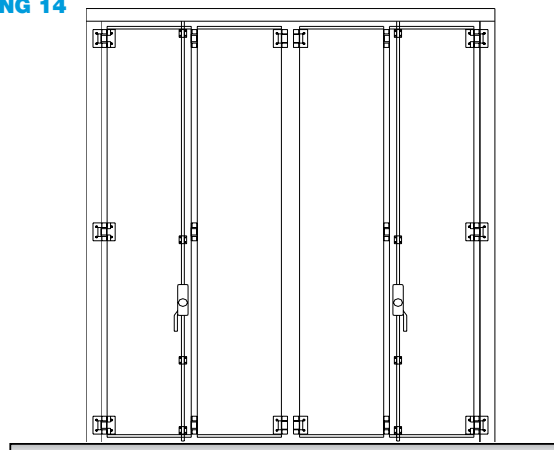
Assembly: INTERNAL
Type: 2 LEFT PANELS +1 RIGHT+CUT P.

DRAWING 13



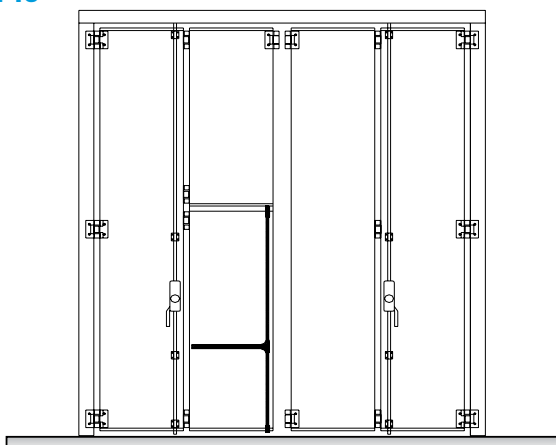
Assembly: INTERNAL
Type: 2 LEFT PANELS+2 RIGHT + 2 CUT P.

DRAWING 14



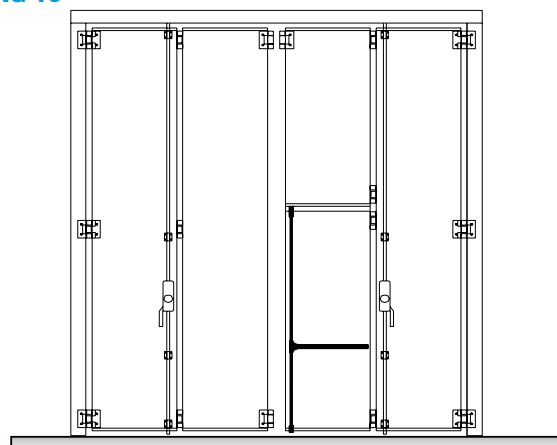
Assembly: INTERNAL
Type: 2 LEFT PANELS+2 RIGHT

DRAWING 15



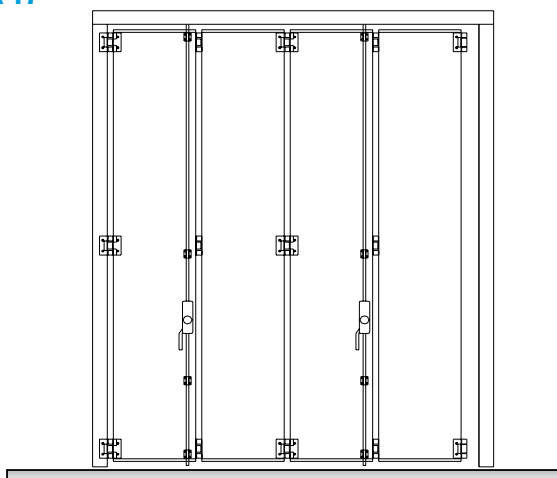
Assembly: INTERNAL
Type: 2 LEFT PANELS+2 RIGHT+ CUT P

DRAWING 16



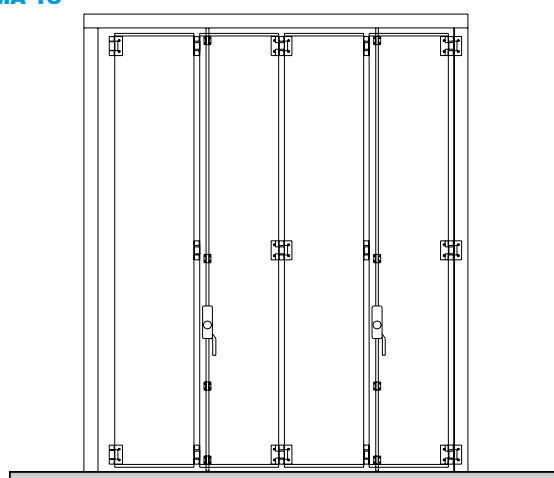
Assembly: INTERNAL
Type: 2 LEFT PANELS+2 RIGHT+ CUT P

SCHEMA 17



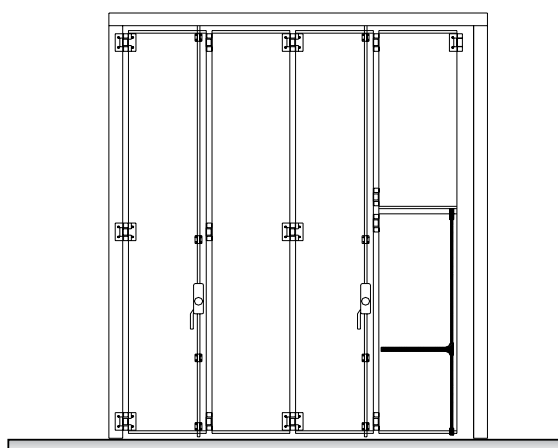
Assembly: INTERNAL
Type: 4 LEFT PANELS + 0 RIGHT

SCHEMA 18



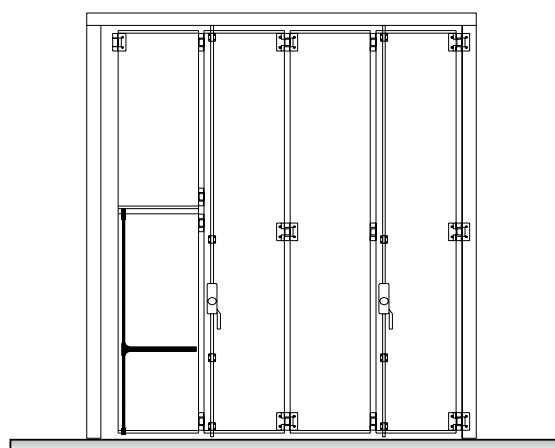
Assembly: INTERNAL
Type: 0 LEFT PANELS + 4 RIGHT

DRAWING 19



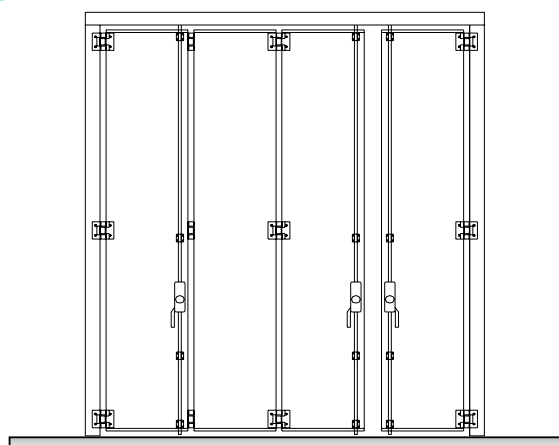
Assembly: INTERNAL
Type: 4 LEFT PANELS+0 RIGHT+ CUT P.

DRAWING 20



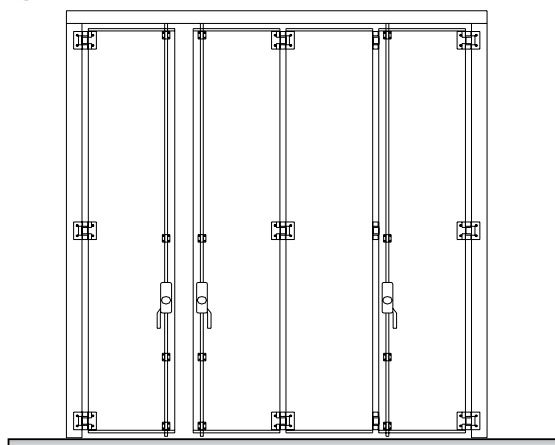
Assembly: INTERNAL
Type: 0 LEFT PANELS+4 RIGHT+ CUT P.

DRAWING 21



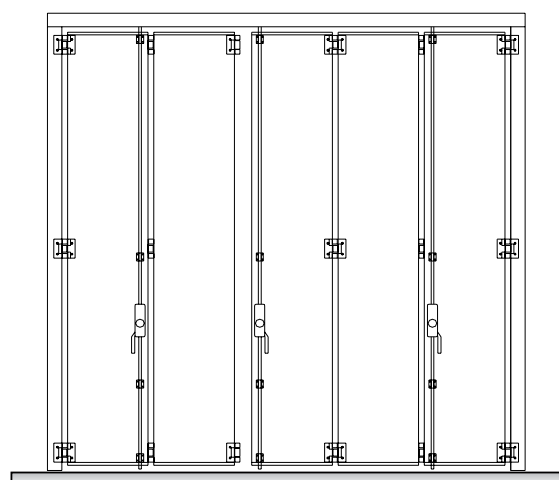
Assembly: INTERNAL
Type: 3 LEFT PANELS + 1 RIGHT

DRAWING 22



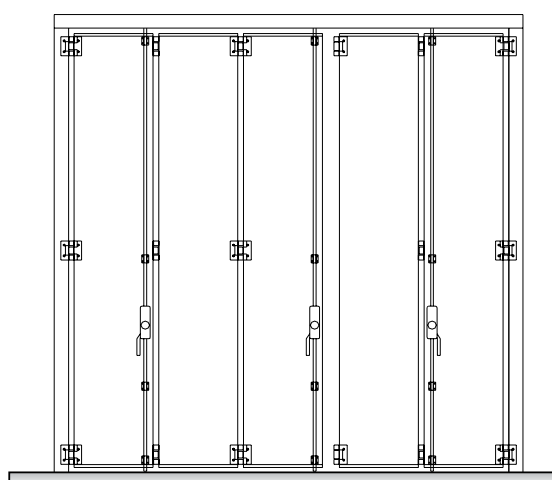
Assembly: INTERNAL
Type: 1 LEFT PANEL + 3 RIGHT

DRAWING 23



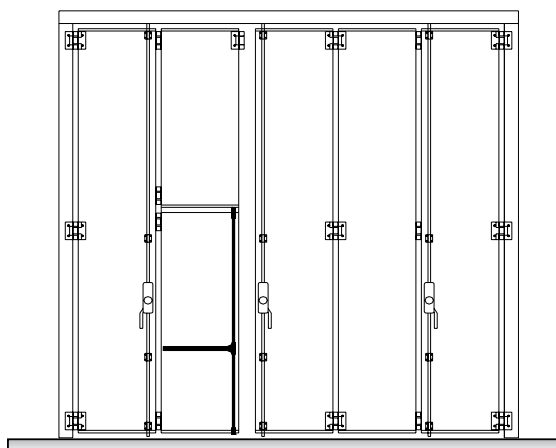
Assembly: INTERNAL
Type: 2 LEFT PANELS + 3 RIGHT

DRAWING 24



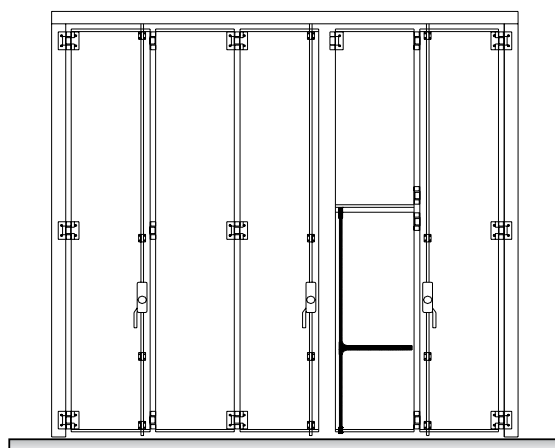
Assembly: INTERNAL
Type: 3 LEFT PANELS + 2 RIGHT

DRAWING 25



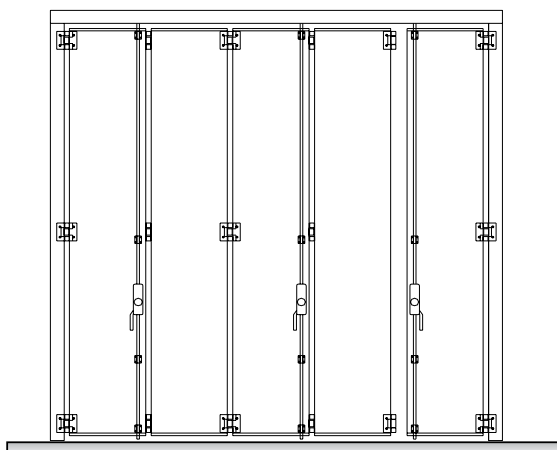
Assembly: INTERNAL
Type: 2 LEFT WINGS + 3 RIGHT + CUT P

DRAWING 26



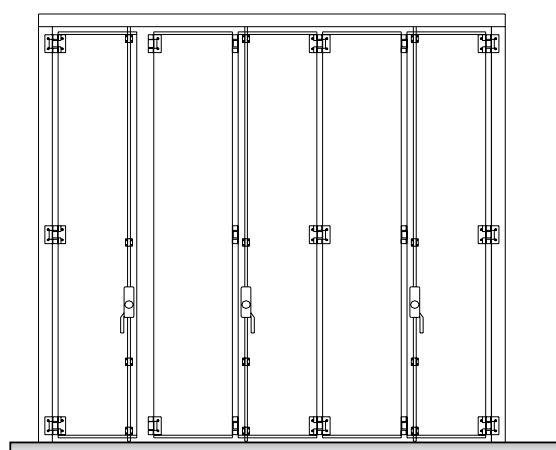
Assembly: INTERNAL
Type: 3 LEFT WINGS + 2 RIGHT + CUT P

DRAWING 27



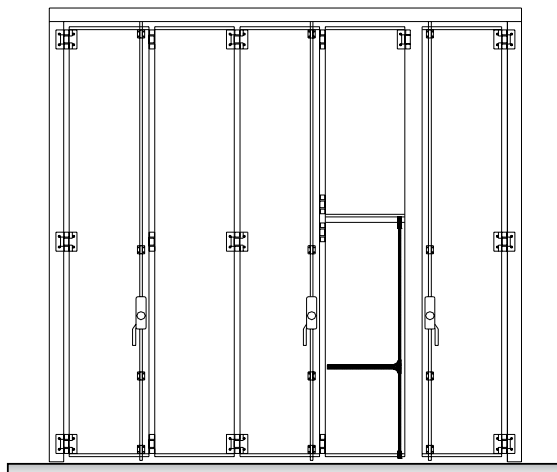
Assembly: INTERNAL
Type: 4 LEFT WINGS + 1 RIGHT

DRAWING 28



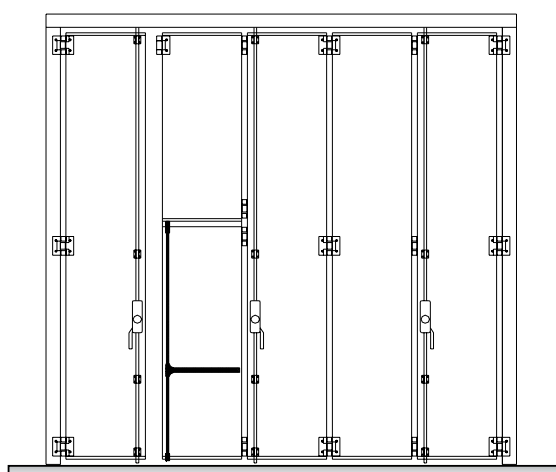
Assembly: INTERNAL
Type: 1 LEFT WINGS + 4 RIGHT

DRAWING 29



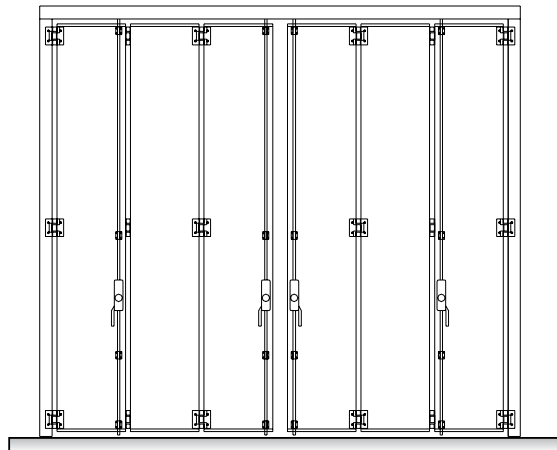
Assembly: INTERNAL
Type: 4 LEFT WINGS + 1 RIGHT + CUT P.

DRAWING 30



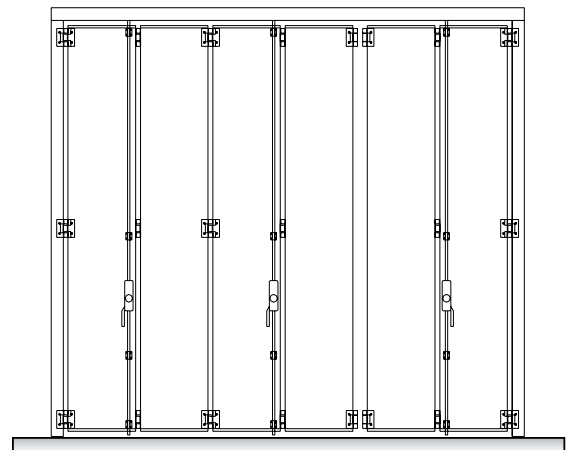
Assembly: INTERNAL
Type: 1 LEFT WINGS + 4 RIGHT + CUT P

DRAWING 31



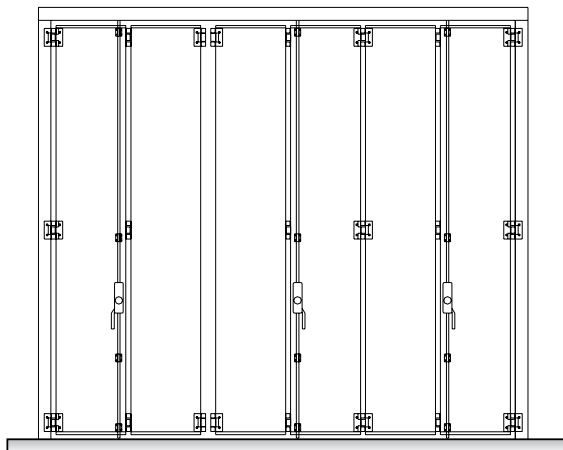
Assembly: INTERNAL
Type: 3 LEFT PANELS + 3 RIGHT

DRAWING 32



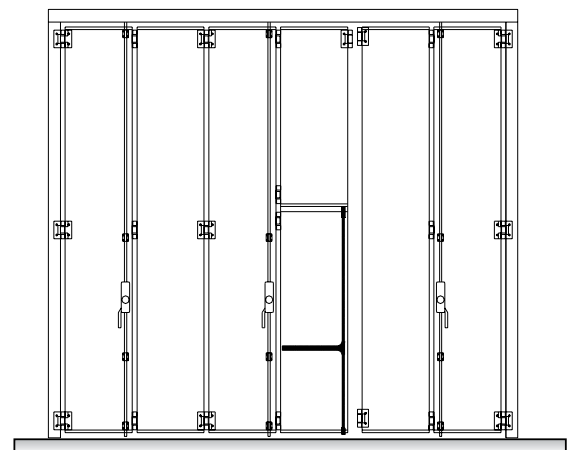
Assembly: INTERNAL
Type: 4 LEFT PANELS + 2 RIGHT

DRAWING 33



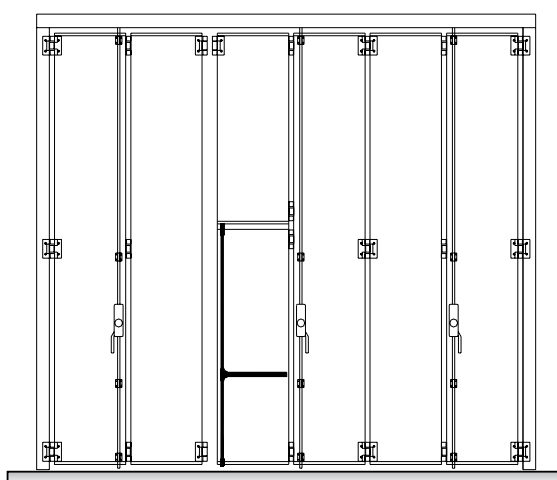
Assembly: INTERNAL
Type: 2 LEFT PANELS + 4 RIGHT

DRAWING 34



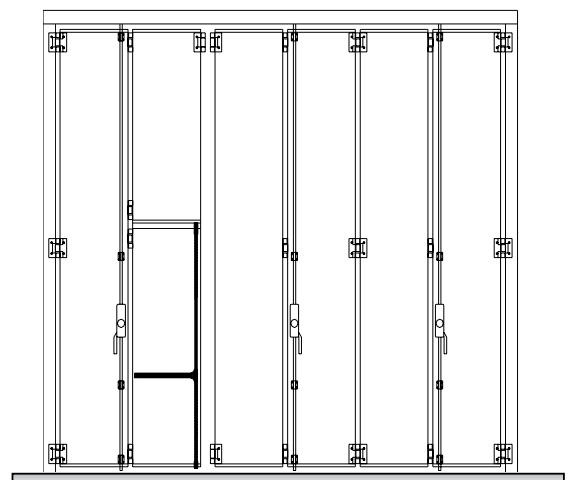
Assembly: INTERNAL
Type: 4 LEFT PANELS +2 RIGHT+CUT P.

DRAWING 35



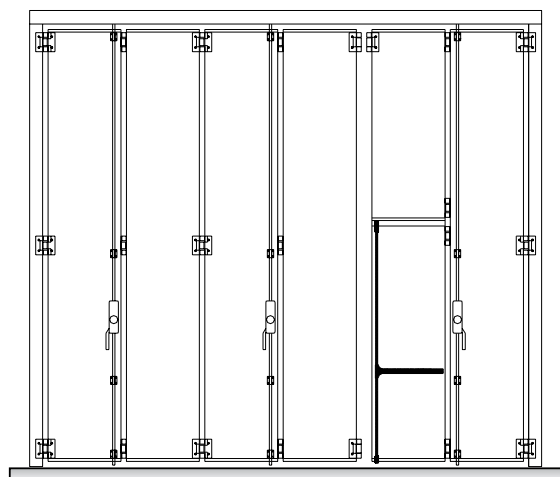
Assembly: INTERNAL
Type: 2 LEFT PANELS +4 RIGHT+CUT P.

DRAWING 36



Assembly: INTERNAL
Type: 2 LEFT PANELS +4 RIGHT+CUT P.

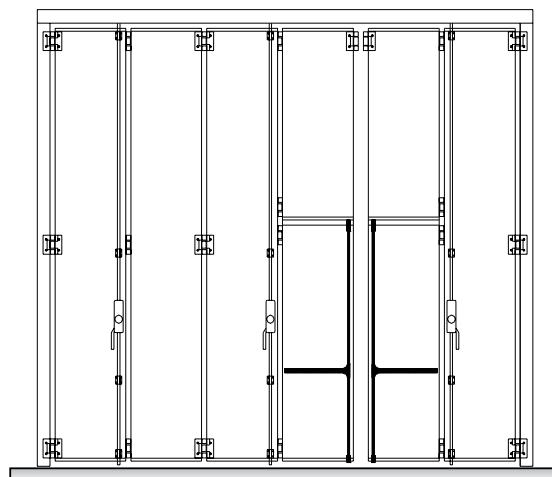
DRAWING 37



Assembly: INTERNAL

Type: 2 LEFT PANELS+2 RIGHT+ 2 CUT P.

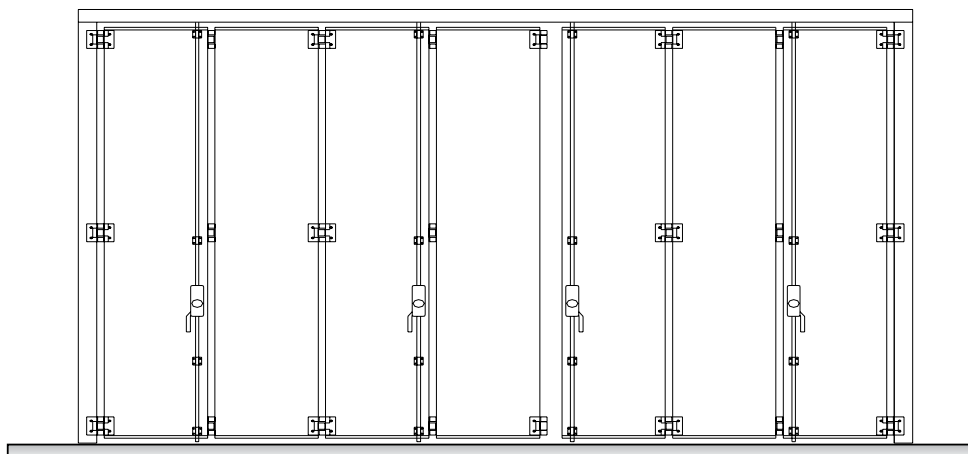
DRAWING 38



Assembly: INTERNAL

Type: 4 LEFT PANELS +2 RIGHT+ 2 CUT P.

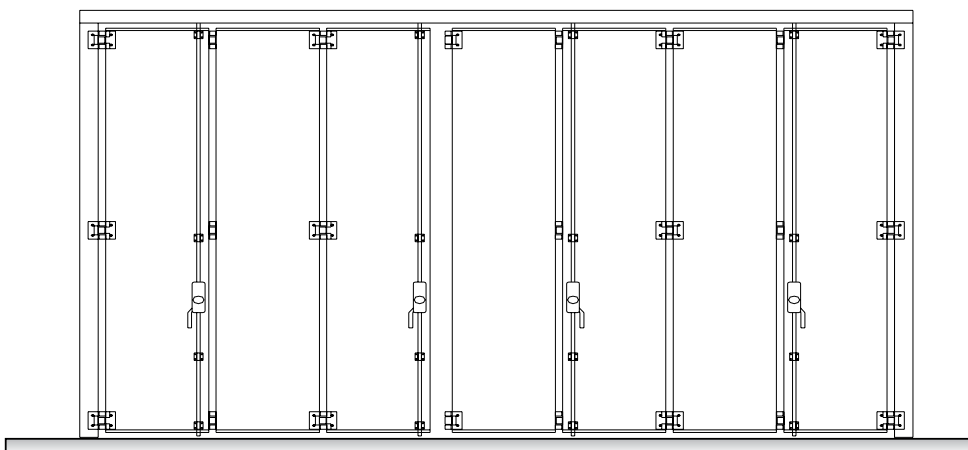
DRAWING 39



Assembly: INTERNAL

Type: 4 LEFT PANELS + 3 RIGHT

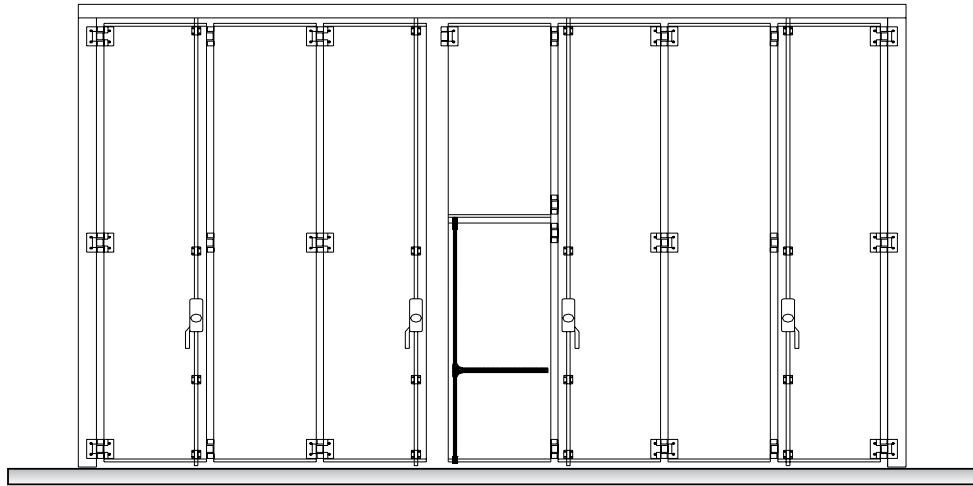
DRAWING 40



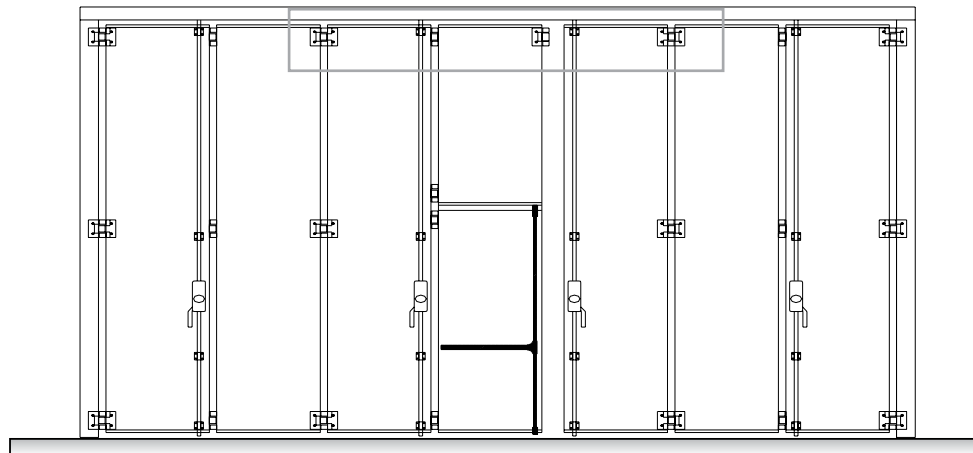
Assembly: INTERNAL

Type: 3 LEFT PANELS + 4 RIGHT

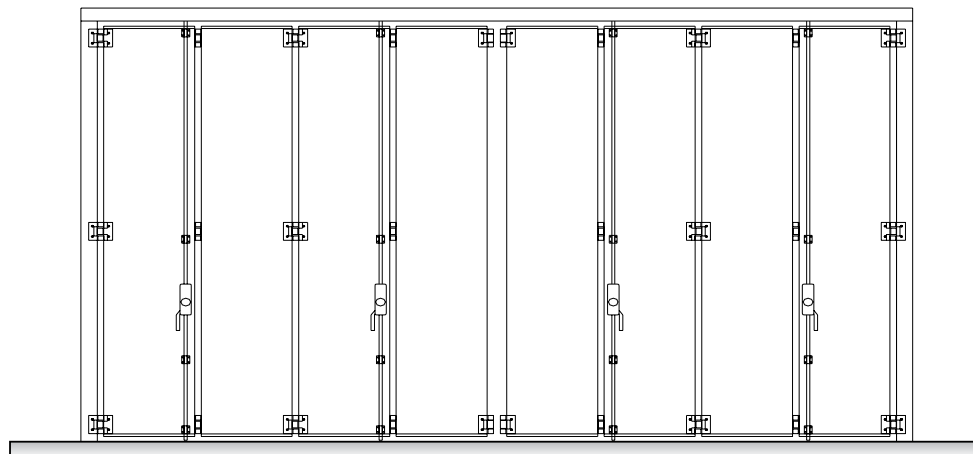
DRAWING 41

**Assembly: INTERNAL****Type: 3 LEFT PANELS +4 RIGHT+CUT P.**

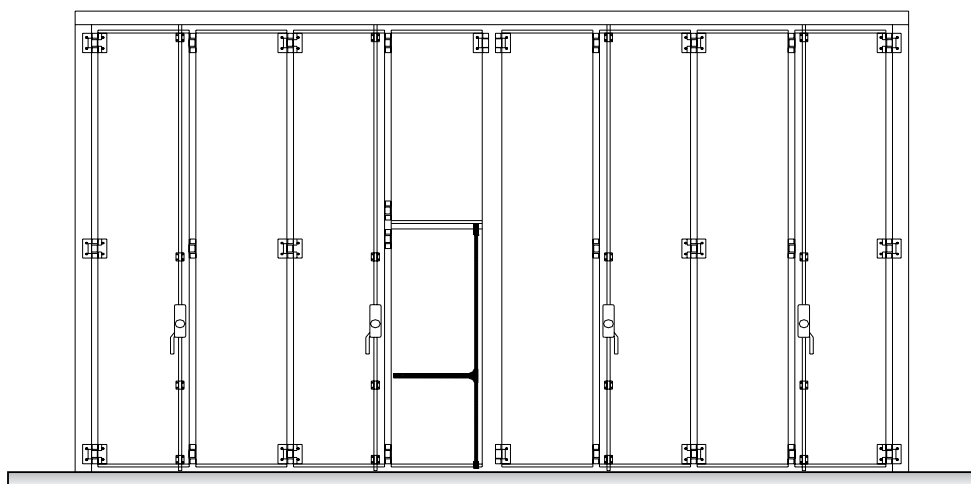
DRAWING 42

**Assembly: INTERNAL****Type: 4 LEFT PANELS +3 RIGHT+CUT P.**

DRAWING 43

**Assembly: INTERNAL****Type: 4 LEFT PANELS + 4 RIGHT**

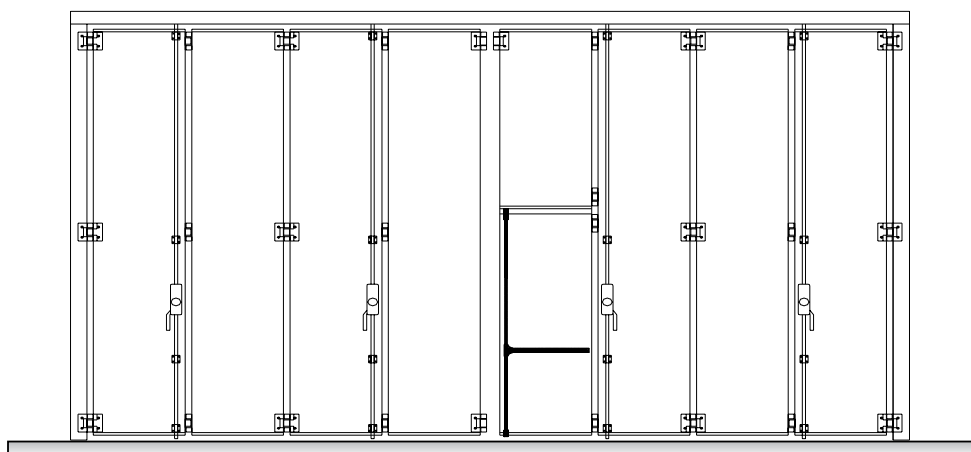
DRAWING 44



Assembly: INTERNAL

Type: 4 LEFT PANELS +4 RIGHT + CUT P.

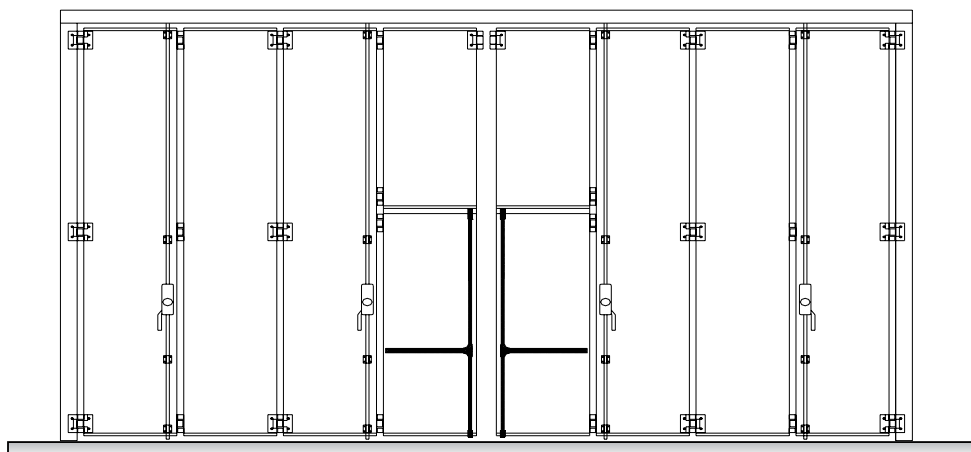
DRAWING 45



Assembly: INTERNAL

Type: 4 LEFT PANELS +4 RIGHT + CUT P.

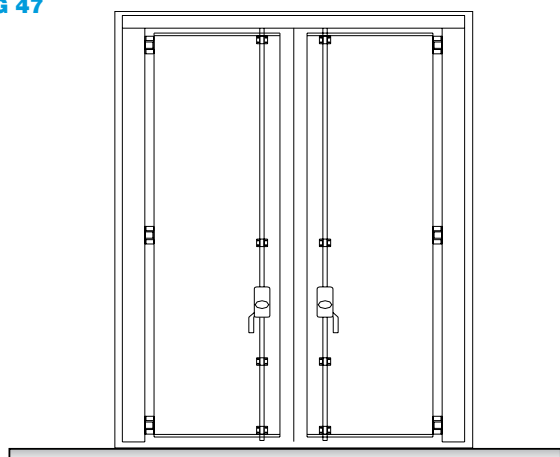
DRAWING 46



Assembly: INTERNAL

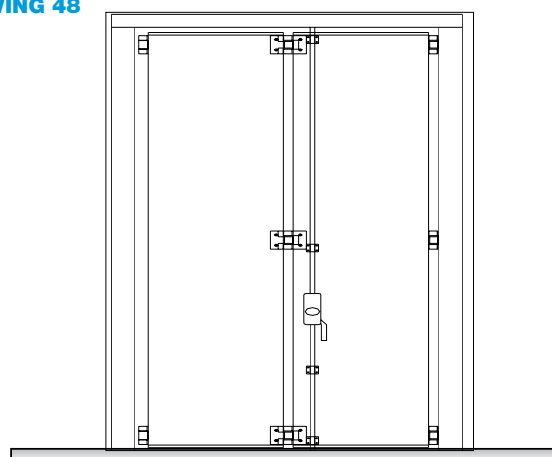
Type: 4 LEFT PANELS +4 RIGHT + 2 CUT P.

DRAWING 47



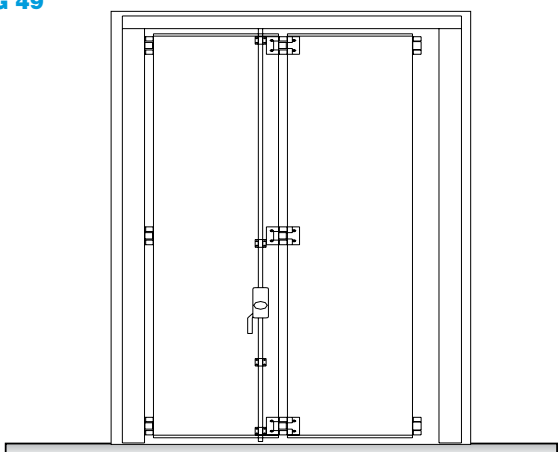
Assembly: EXTERNAL
Type: 1 LEFT PANEL + 1 RIGHT

DRAWING 48



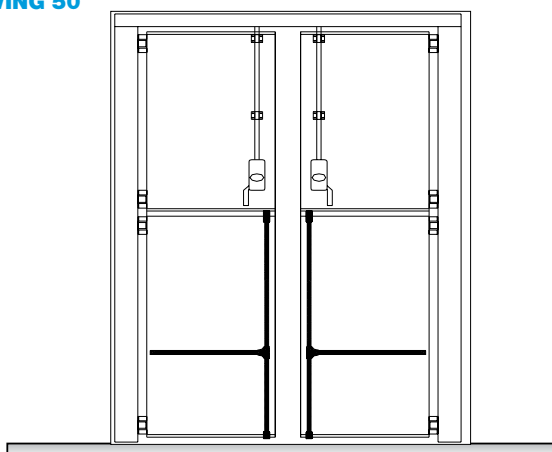
Assembly: EXTERNAL
Type: 0 LEFT PANELS + 2 RIGHT

DRAWING 49



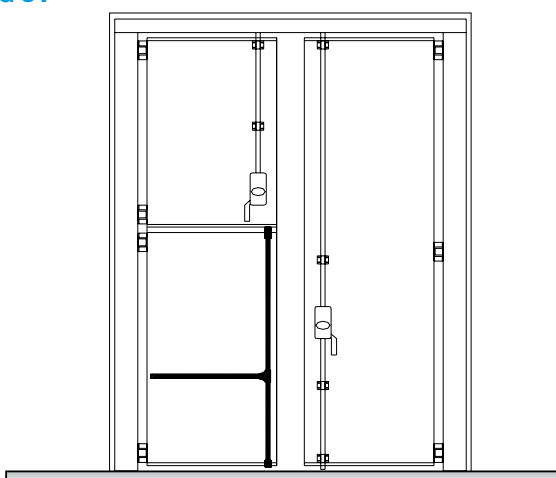
Assembly: EXTERNAL
Type: 2 LEFT PANELS + 0 RIGHT

DRAWING 50



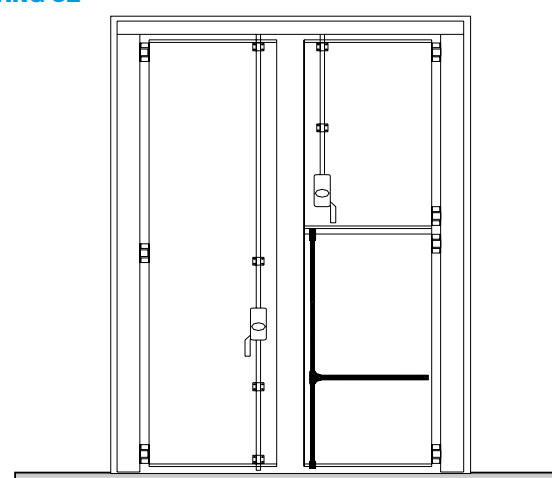
Assembly: EXTERNAL
Type: 1 LEFT PANEL +1 RIGHT +2 CUT P.

DRAWING 51



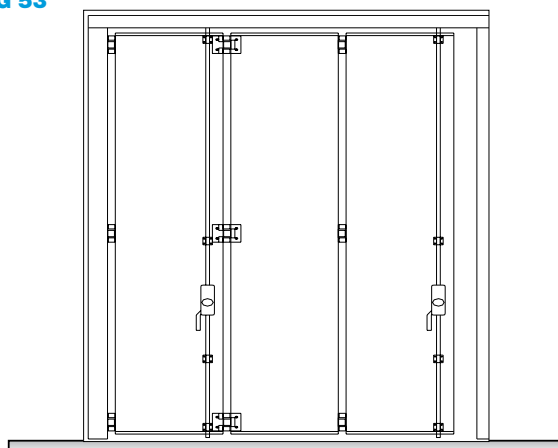
Assembly: EXTERNAL
Type: 1 LEFT PANEL +1 RIGHT+1 CUT P.

DRAWING 52



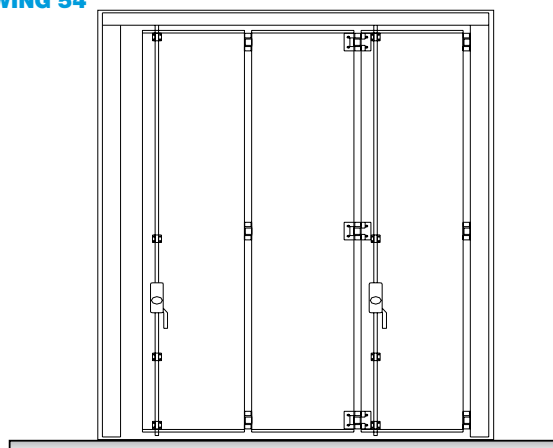
Assembly: EXTERNAL
Type: 1 LEFT PANEL +1 RIGHT + 1 CUT P.

DRAWING 53



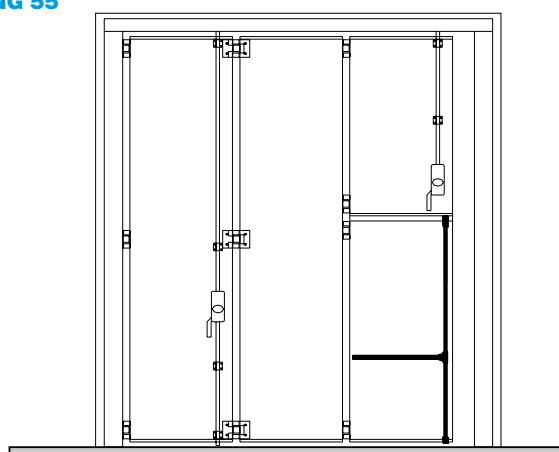
Assembly: EXTERNAL
Type: 3 LEFT PANELS + 0 RIGHT

DRAWING 54



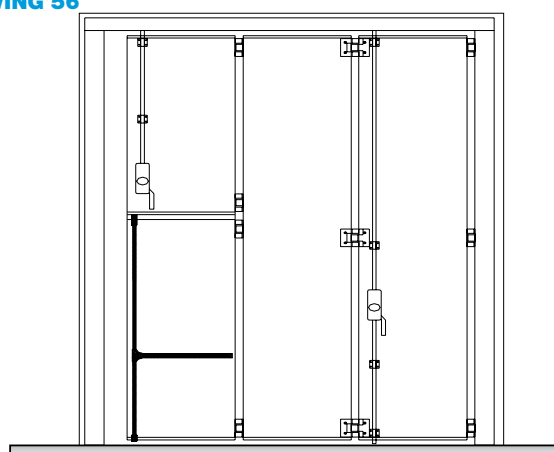
Assembly: EXTERNAL
Type: 0 LEFT PANELS + 3 RIGHT

DRAWING 55



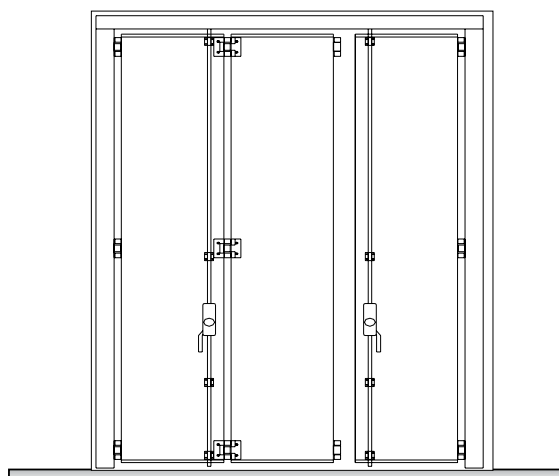
Assembly: EXTERNAL
Type: 3 LEFT PANELS + 0 RIGHT + 1 CUT P.

DRAWING 56



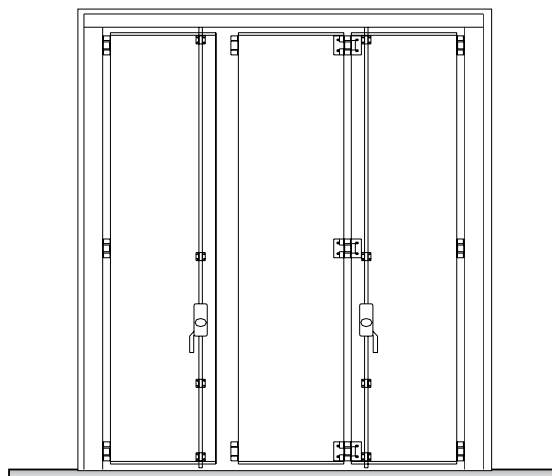
Assembly: EXTERNAL
Type: 0 LEFT PANEL + 3 RIGHT+ 1 CUT P.

DRAWING 57



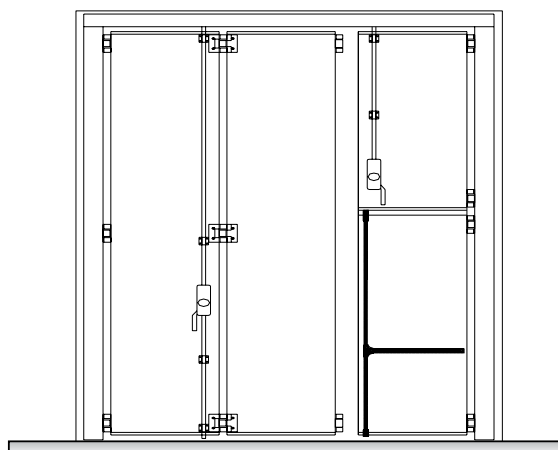
Assembly: EXTERNAL
Type: 2 LEFT PANELS + 1 RIGHT

DRAWING 58



Assembly: EXTERNAL
Type: 1 LEFT PANEL + 2 RIGHT

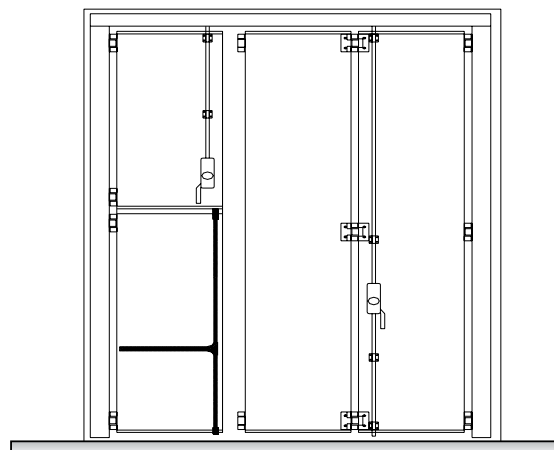
DRAWING 59



Assembly: EXTERNAL

Type: 2 LEFT PANELS +1 RIGHT+ 1 CUT P.

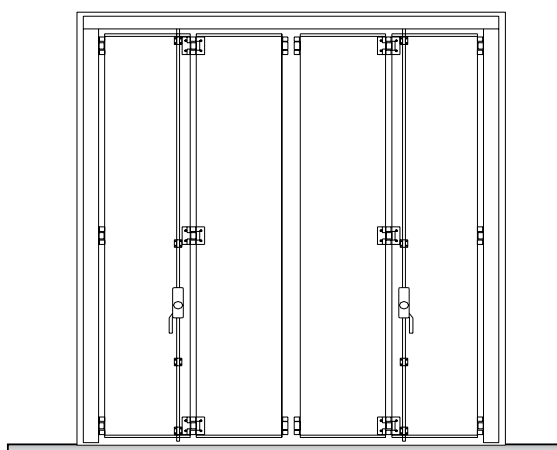
DRAWING 60



Assembly: EXTERNAL

Type: 1 LEFT PANEL +2 RIGHT + 1 CUT P.

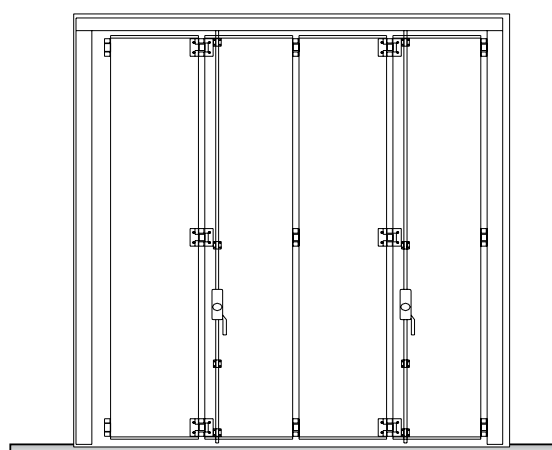
DRAWING 61



Assembly: EXTERNAL

Type: 2 LEFT PANELS + 2 RIGHT

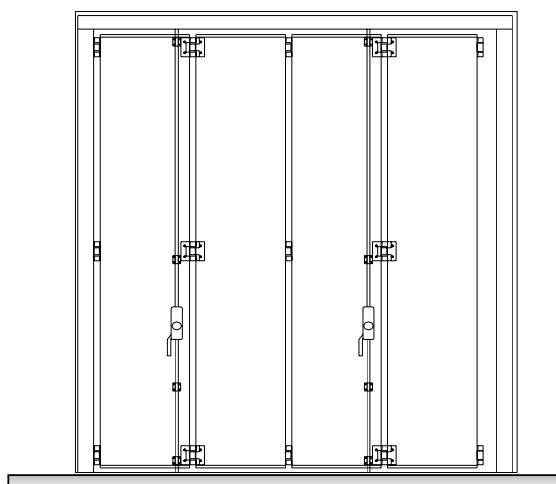
DRAWING 62



Assembly: EXTERNAL

Type: 0 LEFT PANELS + 4 RIGHT

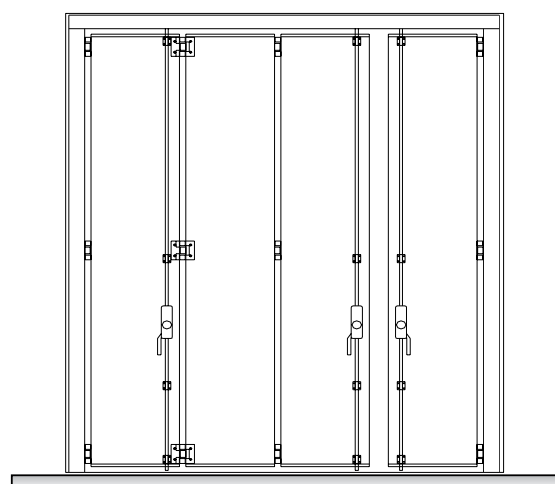
DRAWING 63



Assembly: EXTERNAL

Type: 4 LEFT PANELS + 0 RIGHT

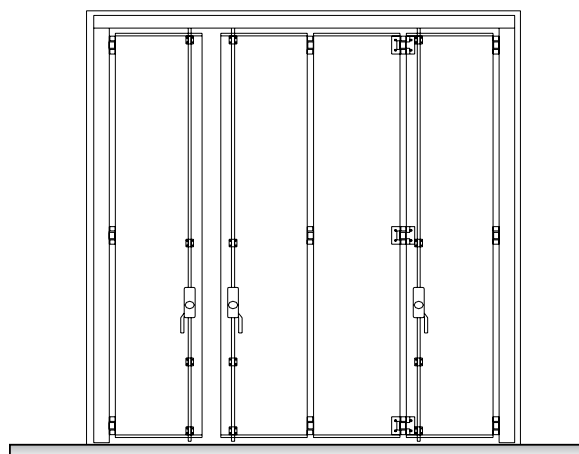
DRAWING 64



Assembly: EXTERNAL

Type: 3 LEFT PANELS + 1 RIGHT

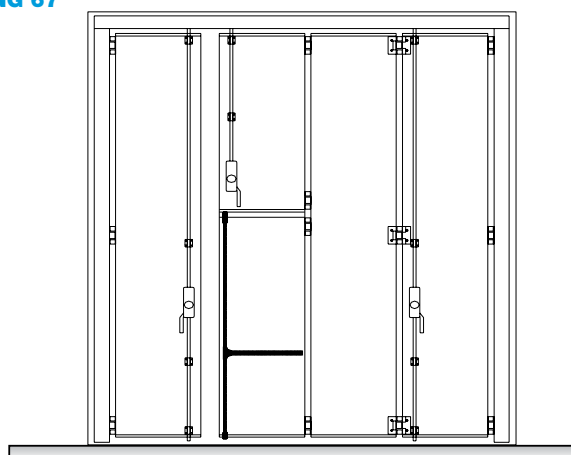
DRAWING 65



Assembly: EXTERNAL

Type: 1 LEFT WING + 3 RIGHT

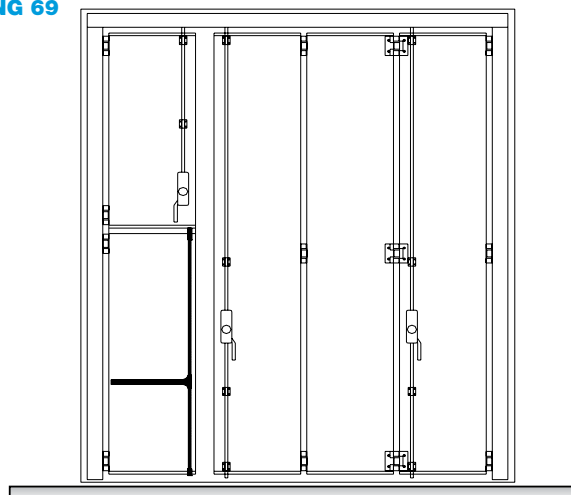
DRAWING 67



Assembly: EXTERNAL

Type: 1 LEFT WING + 3 RIGHT + 1 CUT P.

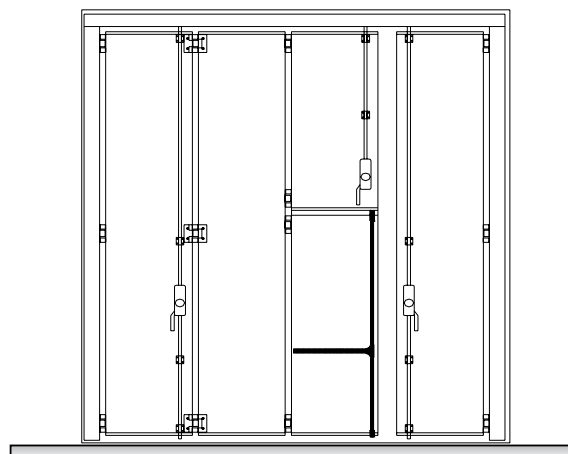
DRAWING 69



Assembly: EXTERNAL

Type: 1 LEFT WING + 3 RIGHT + 1 CUT P.

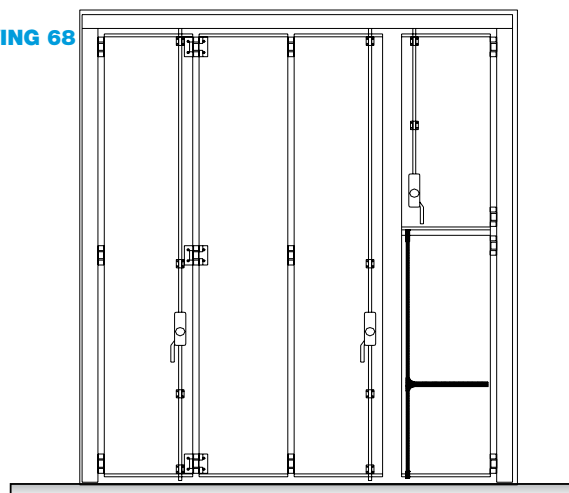
DRAWING 66



Assembly: EXTERNAL

Type: 3 LEFT WINGS + 1 RIGHT + 1 CUT P.

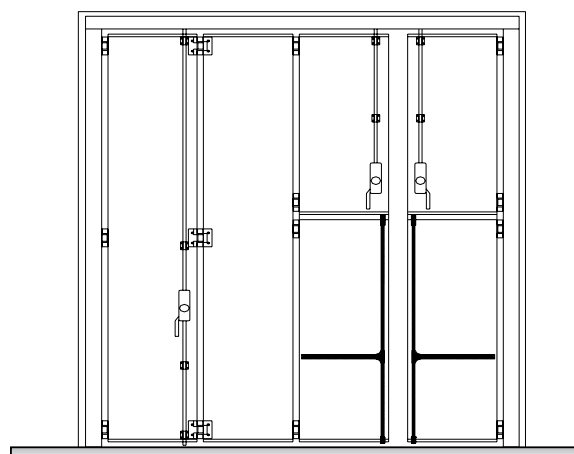
DRAWING 68



Assembly: EXTERNAL

Type: 3 LEFT WINGS + 1 RIGHT + 1 CUT P.

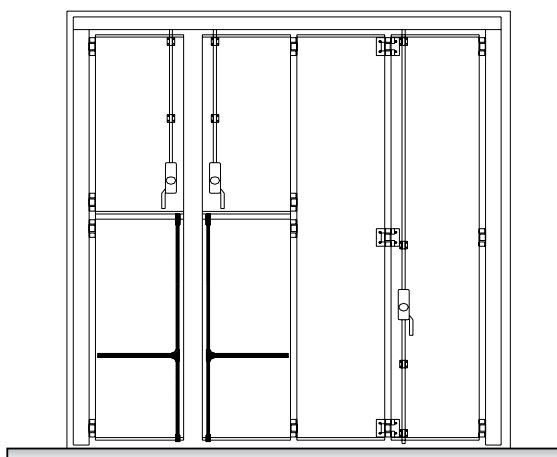
DRAWING 70



Assembly: EXTERNAL

Type: 3 LEFT WING + 1 RIGHT+ 2 CUT P.

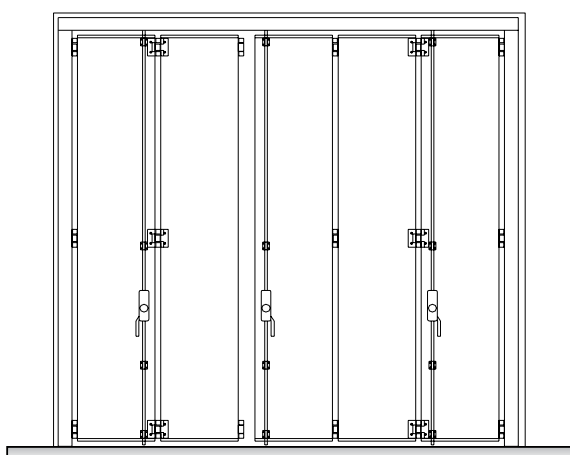
DRAWING 71



Assembly: EXTERNAL

Type: 1 LEFT WING + 3 RIGHT + 2 CUT P.

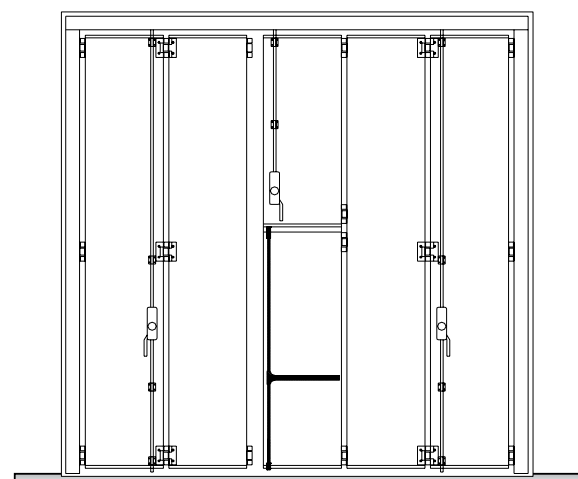
DRAWING 73



Assembly: EXTERNAL

Type: 2 LEFT WINGS + 3 RIGHT

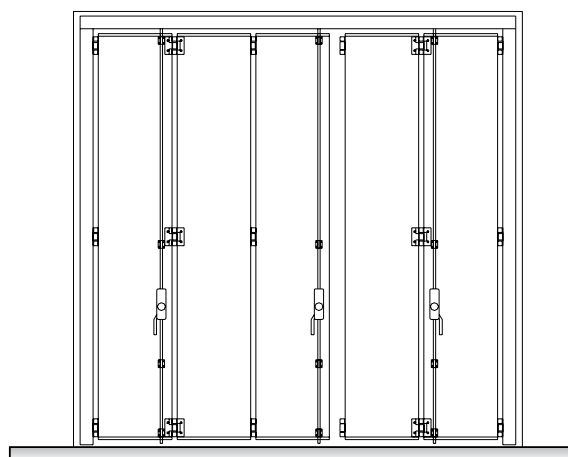
DRAWING 75



Assembly: EXTERNAL

Type: 2 LEFT WINGS + 3 RIGHT + 1 CUT P.

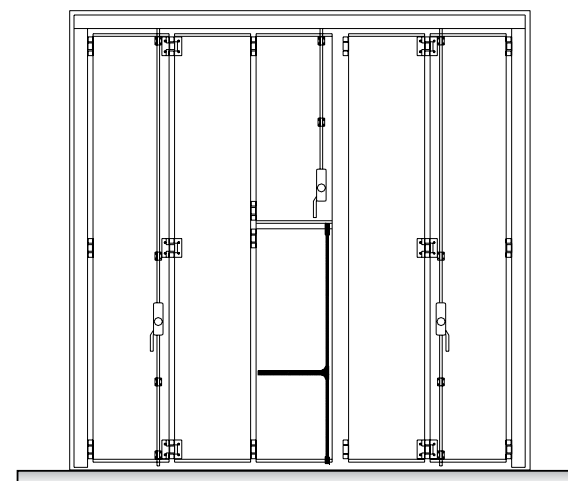
DRAWING 72



Assembly: EXTERNAL

Type: 3 LEFT WINGS + 2 RIGHT

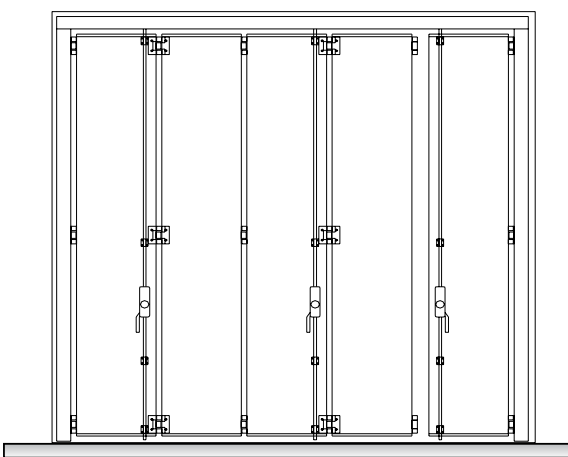
DRAWING 74



Assembly: EXTERNAL

Type: 3 LEFT WINGS + 2 RIGHT + 1 CUT P.

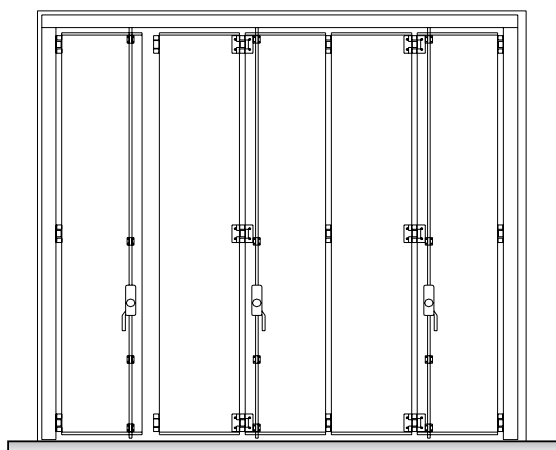
DRAWING 76



Assembly: EXTERNAL

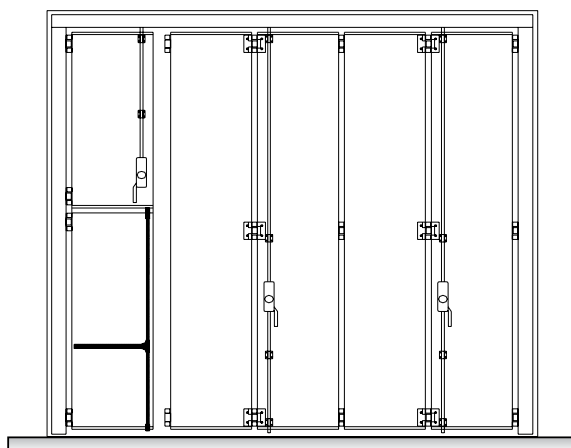
Type: 4 LEFT WINGS + 1 RIGHT

DRAWING 77



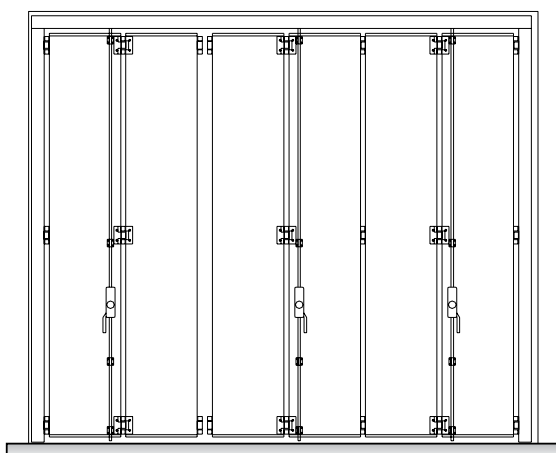
Assembly: EXTERNAL
Type: 1 LEFT PANEL + 4 RIGHT

DRAWING 79



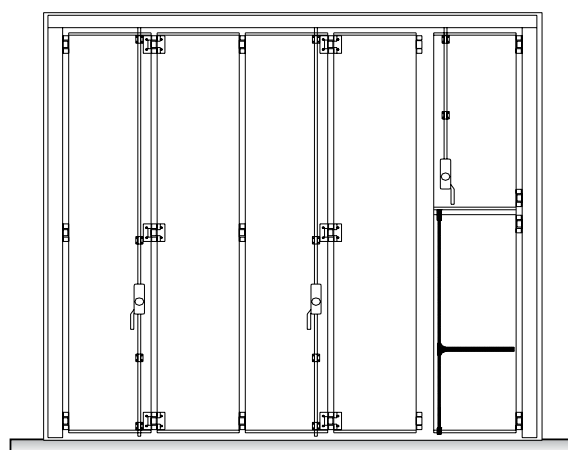
Assembly: EXTERNAL
Type: 1 LEFT PANEL + 4 RIGHT + 1 CUT P.

DRAWING 81



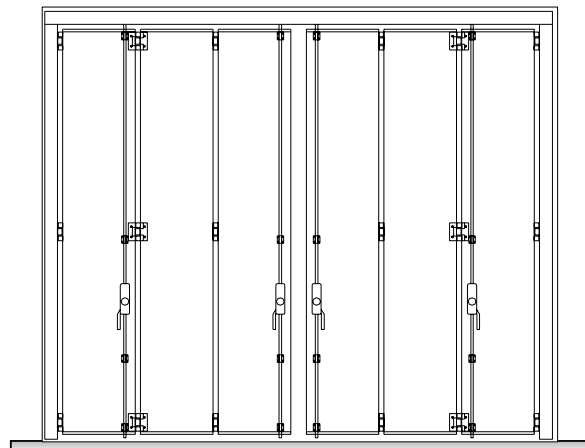
Assembly: EXTERNAL
Type: 2 LEFT PANELS + 4 RIGHT

DRAWING 78



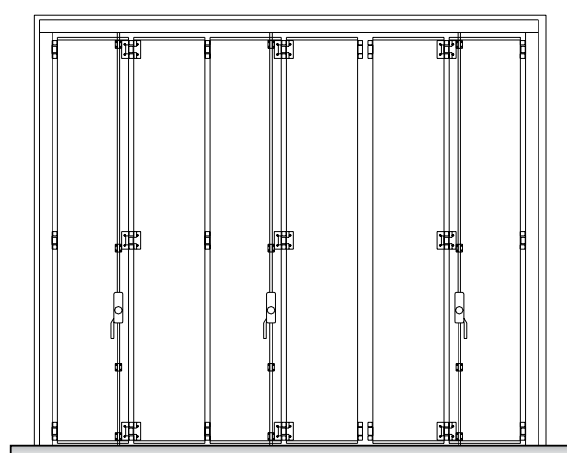
Assembly: EXTERNAL
Type: 4 LEFT PANELS + 1 RIGHT + 1 CUT P.

DRAWING 80



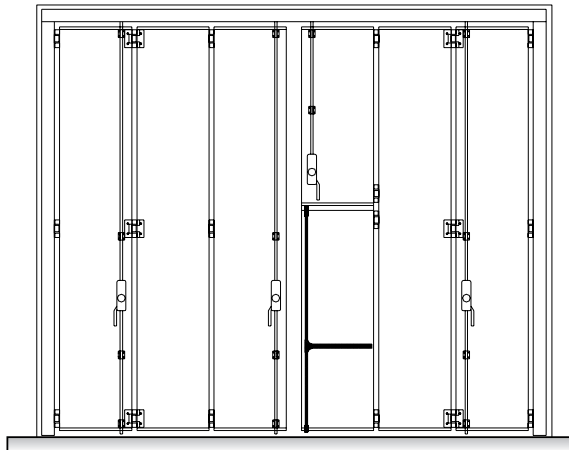
Assembly: EXTERNAL
Type: 3 LEFT PANELS + 3 RIGHT

DRAWING 82



Assembly: EXTERNAL
Type: 4 LEFT PANELS + 2 RIGHT

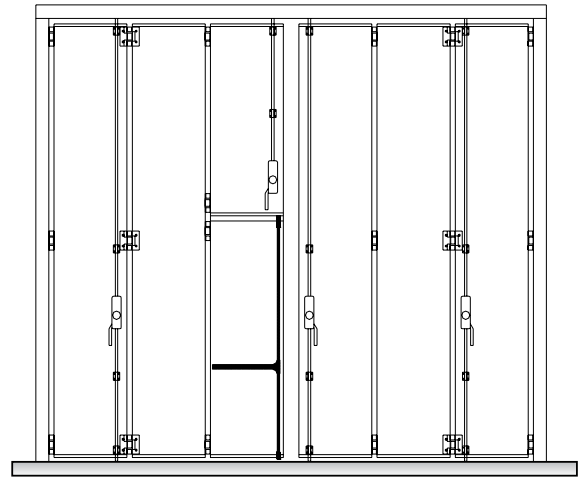
DRAWING 83



Assembly: EXTERNAL

Type: 3 LEFT PANELS +3 RIGHT + 1 CUT P.

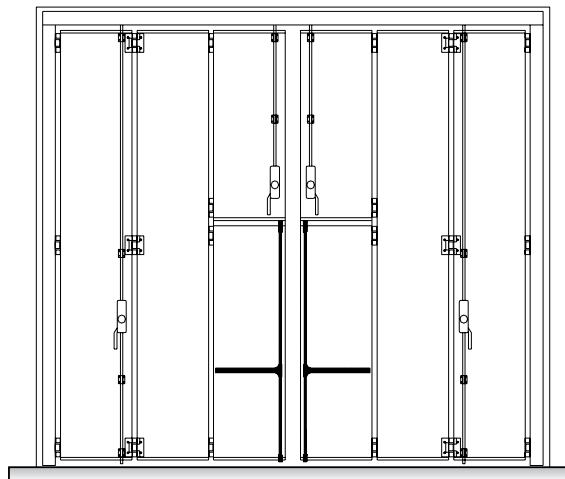
DRAWING 84



Assembly: EXTERNAL

Type: 3 LEFT PANELS +3 RIGHT + 1 CUT P.

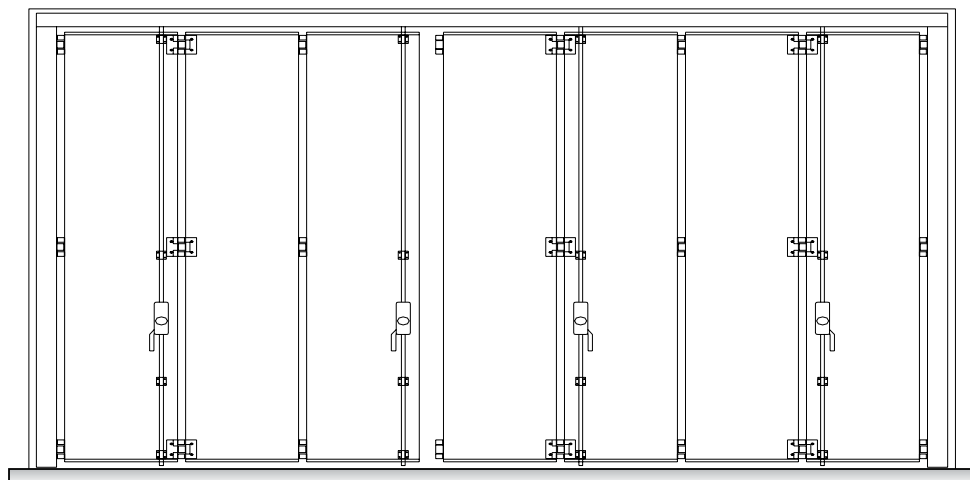
DRAWING 85



Assembly: EXTERNAL

Type: 3 LEFT PANELS +3 RIGHT + 2 CUT P.

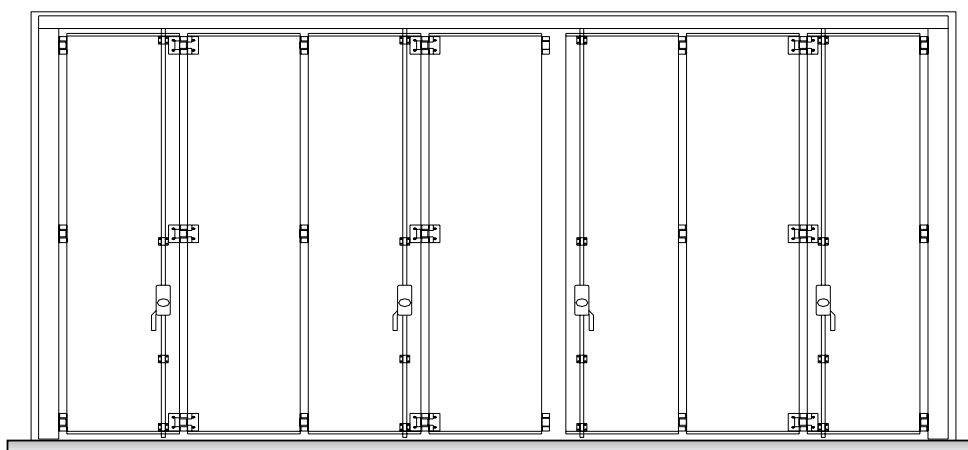
DRAWING 86



Assembly: EXTERNAL

Type: 3 LEFT PANELS + 4 RIGHT

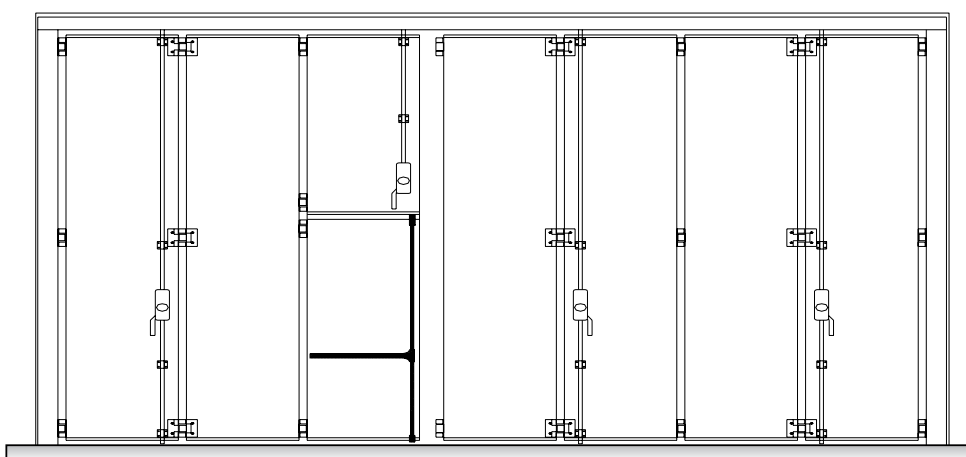
DRAWING 87



Assembly: EXTERNAL

Type: 4 LEFT PANELS + 3 RIGHT

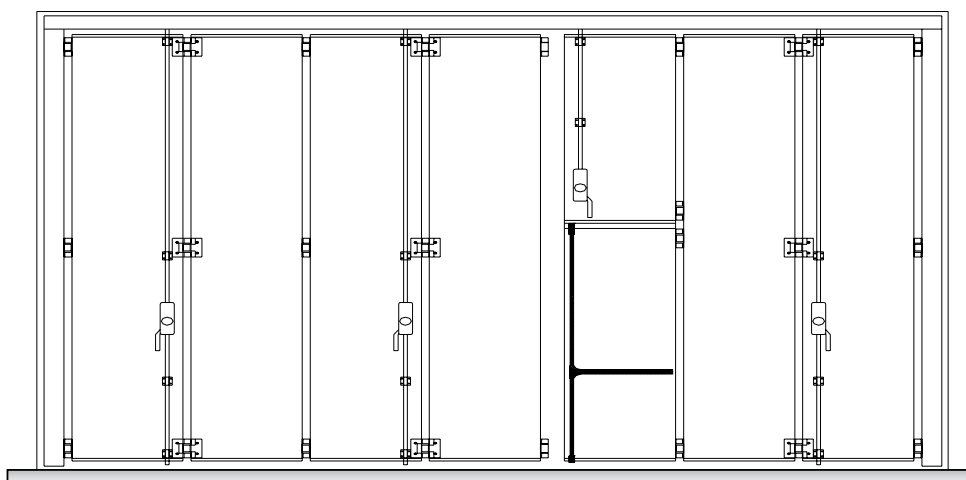
DRAWING 88



Assembly: EXTERNAL

Type: 3 LEFT PANELS +4 RIGHT +1 CUT P.

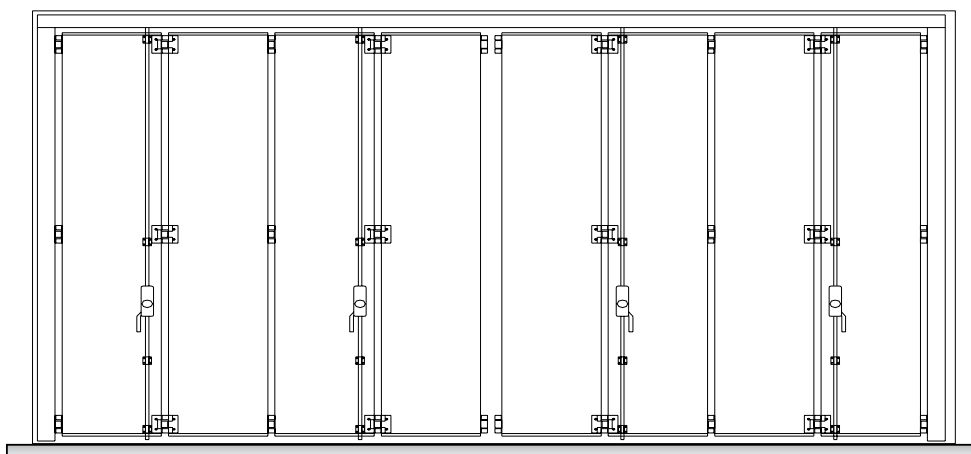
DRAWING 89



Assembly: EXTERNAL

Type: 4 LEFT PANELS +3 RIGHT + 1 CUT P.

DRAWING 90



Assembly: EXTERNAL

Type: 4 LEFT PANELS + 4 RIGH

FOLDING DOOR KPL CG

Folding door with ground tracks.

This is a sliding door with several panels folding to a side.

Sliding is guaranteed by a overhead steel track, including a space to gather the folds, and an in-built ground guide in galvanized steel.

Protection from atmospheric dust is guaranteed by brushes in the side frame and by EPDM finger protection gaskets..

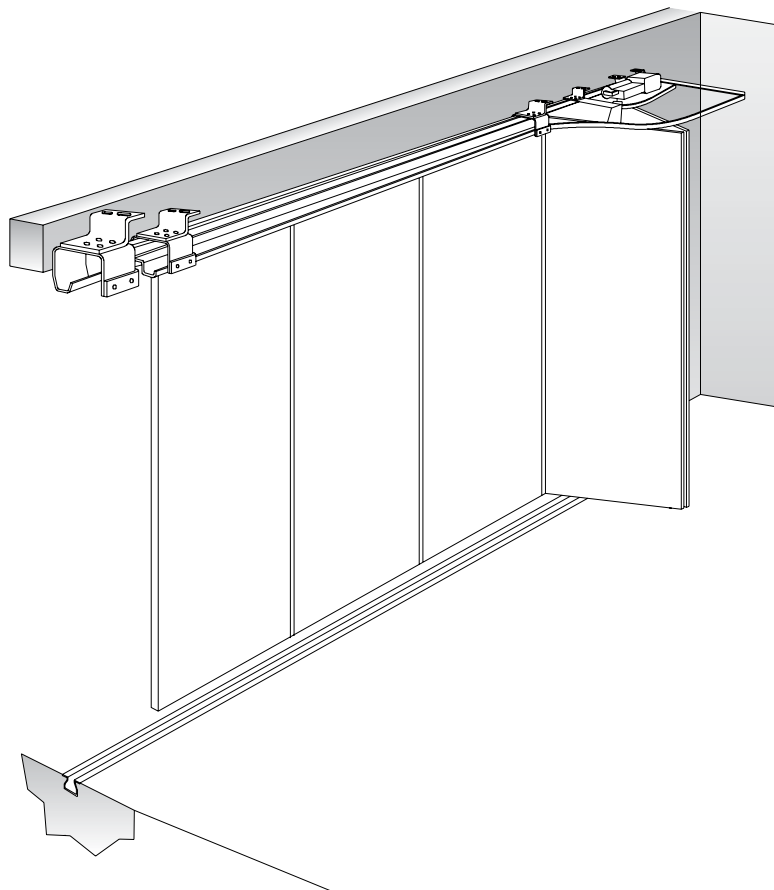


FIG 39

FOLDING DOOR WITH GROUND TRACK KPL CG

FIG 40



FIG 41

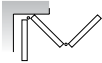
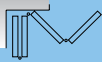
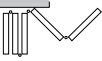
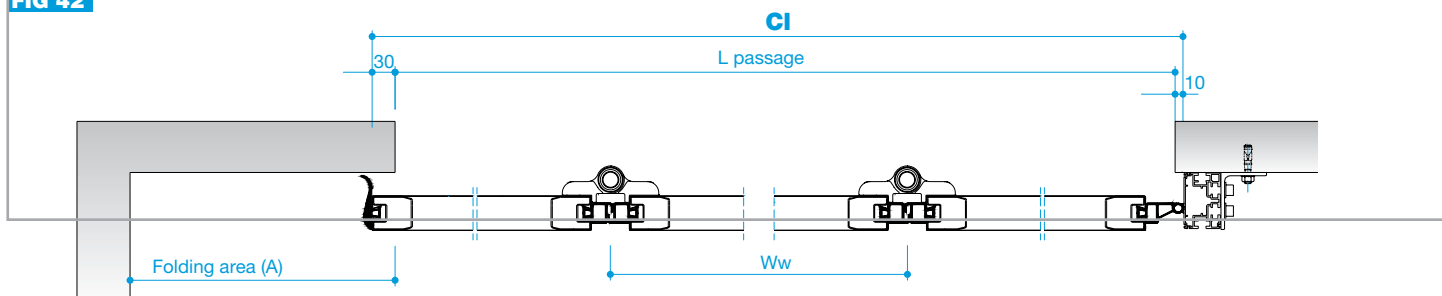
PANELS		Ci (Commercial Length)			Panel width (Ww)	PARAMETER A		Ch MAX
		MIN	MAX					
3+0		2210	4010		CI/3	560		6000
4+0		2960	5360		CI/4	560		6000
5+0		3710	6710		CI/5	760		6000
6+0		4460	8060		CI/6	760		6000
7+0		5210	9410		CI/7	960		6000
8+0		5960	10760		CI/8	960		6000
9+0		6710	12110		CI/9	1160		6000
10+0		7460	13460		CI/10	1160		6000
3+3	 	4400	8000		(CI+30)/6	560	560	6000
4+4	 	5900	10700		(CI+30)/8	560	560	6000
5+5	 	7400	13400		(CI+30)/10	760	760	6000
6+6	 	8900	16100		(CI+30)/12	760	760	6000
7+7	 	10400	18800		(CI+30)/14	960	960	6000
8+8	 	11900	21500		(CI+30)/16	960	960	6000
9+9	 	13400	24200		(CI+30)/18	1160	1160	6000
10+10	 	14900	26900		(CI+30)/20	1160	1160	6000

FIG 42



OVERHEAD TRACKS

In the KPL CG folding doors the overhead track consists of a rail provided with fixing brackets, a dividing fold track and space to gather the folds.

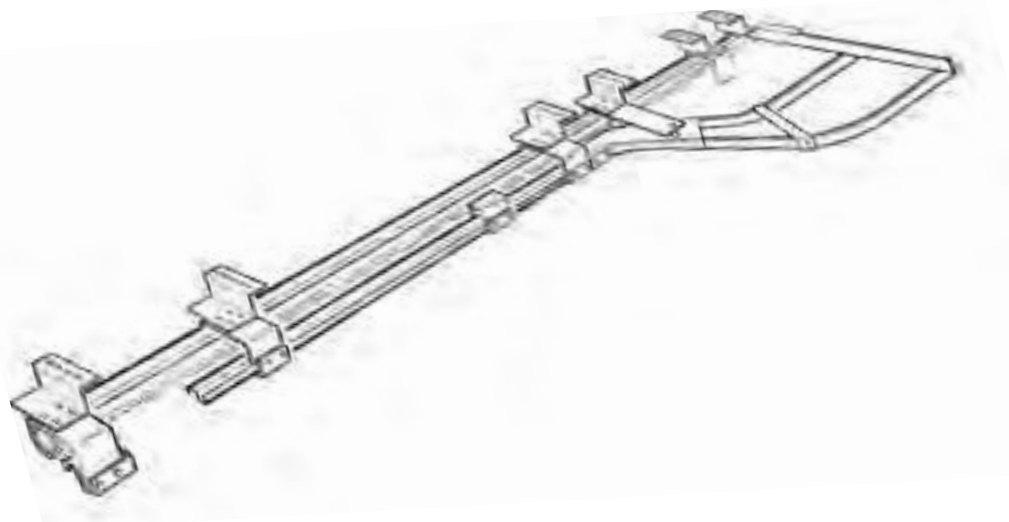


FIG 43

GROUND TRACKS

The ground tracks consists of a galvanized steel profile to build in the floor.

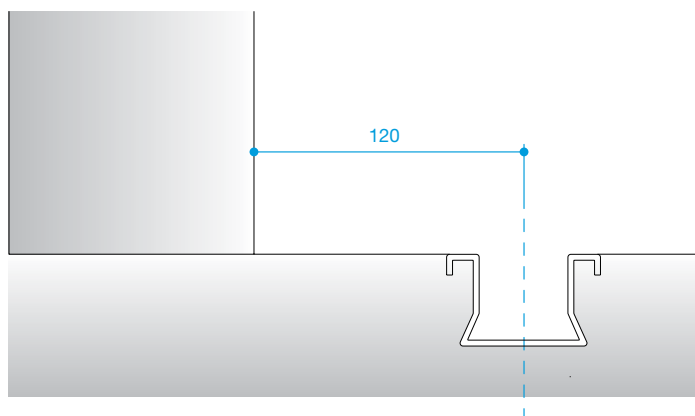


FIG 44

GROUND TRACKS

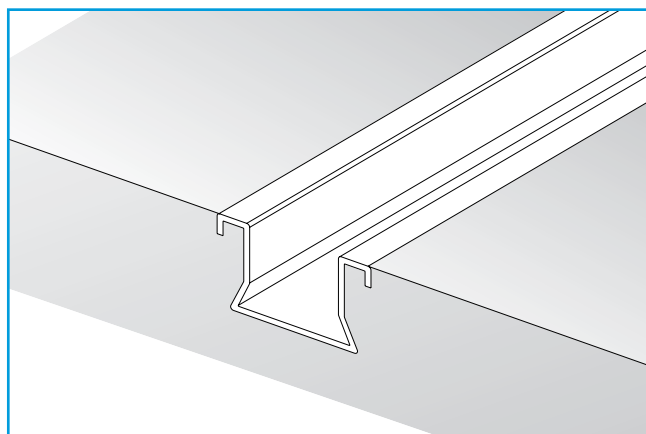
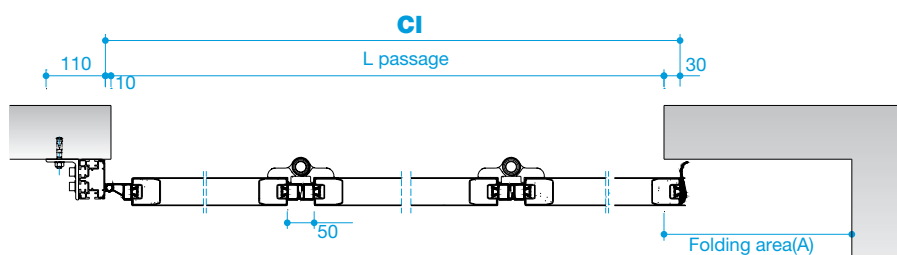


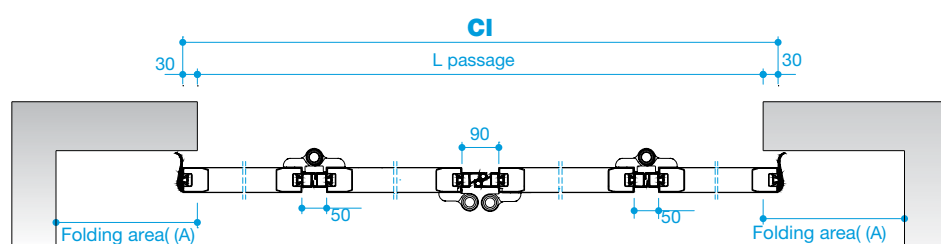
FIG 45

FIG 46



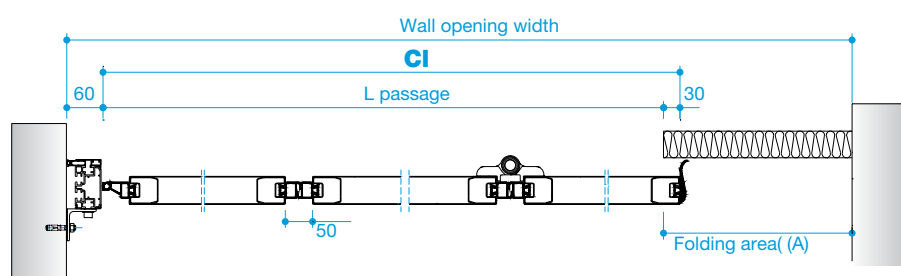
WALL FACED ASSEMBLY HORIZONTAL SECTION WITH SINGLE FOLDING

FIG 47



WALL FACED ASSEMBLY HORIZONTAL SECTION WITH DOUBLE FOLDING

FIG 48

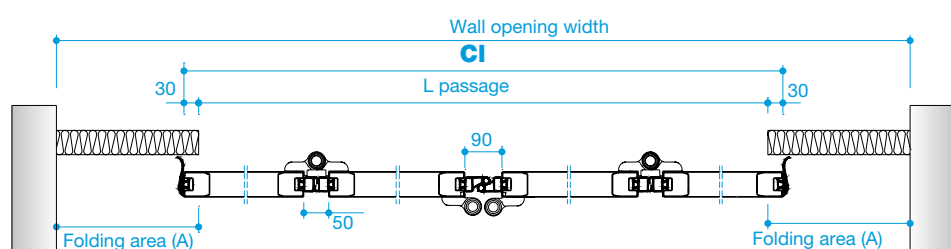


ASSEMBLY WITHIN WALL OPENING HORIZONTAL SECTION WITH SINGLE FOLDING

CI = commercial length

In assemblies within doorway real sizes are reduced by 20 mm in width and by 10 mm in height to make up in case of uneven ceilings or walls.

FIG 49



ASSEMBLY WITHIN WALL OPENING HORIZONTAL SECTION WITH DOUBLE FOLDING

VERTICAL SECTION
(WALL FACED ANCHORING)

FIG 50

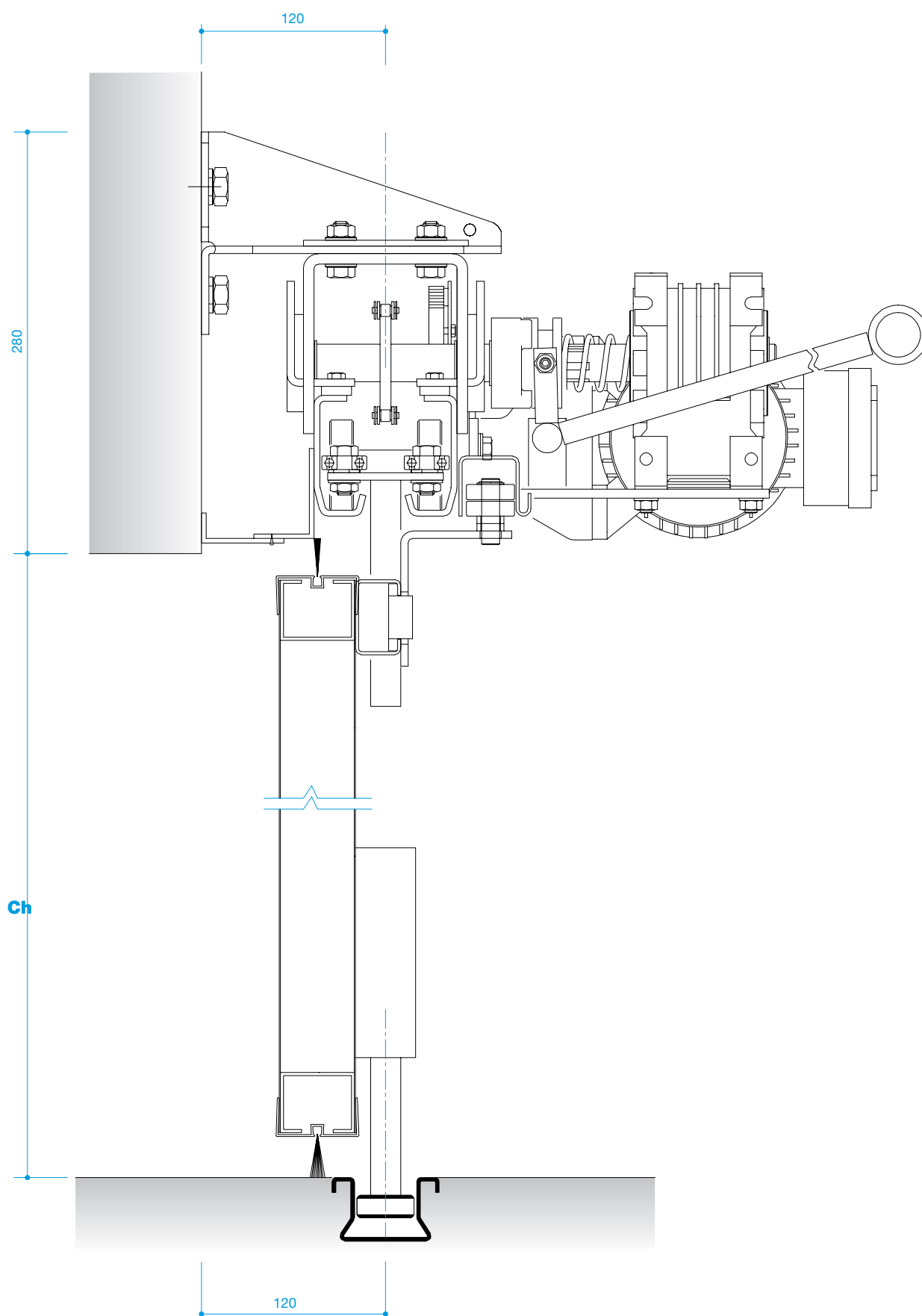
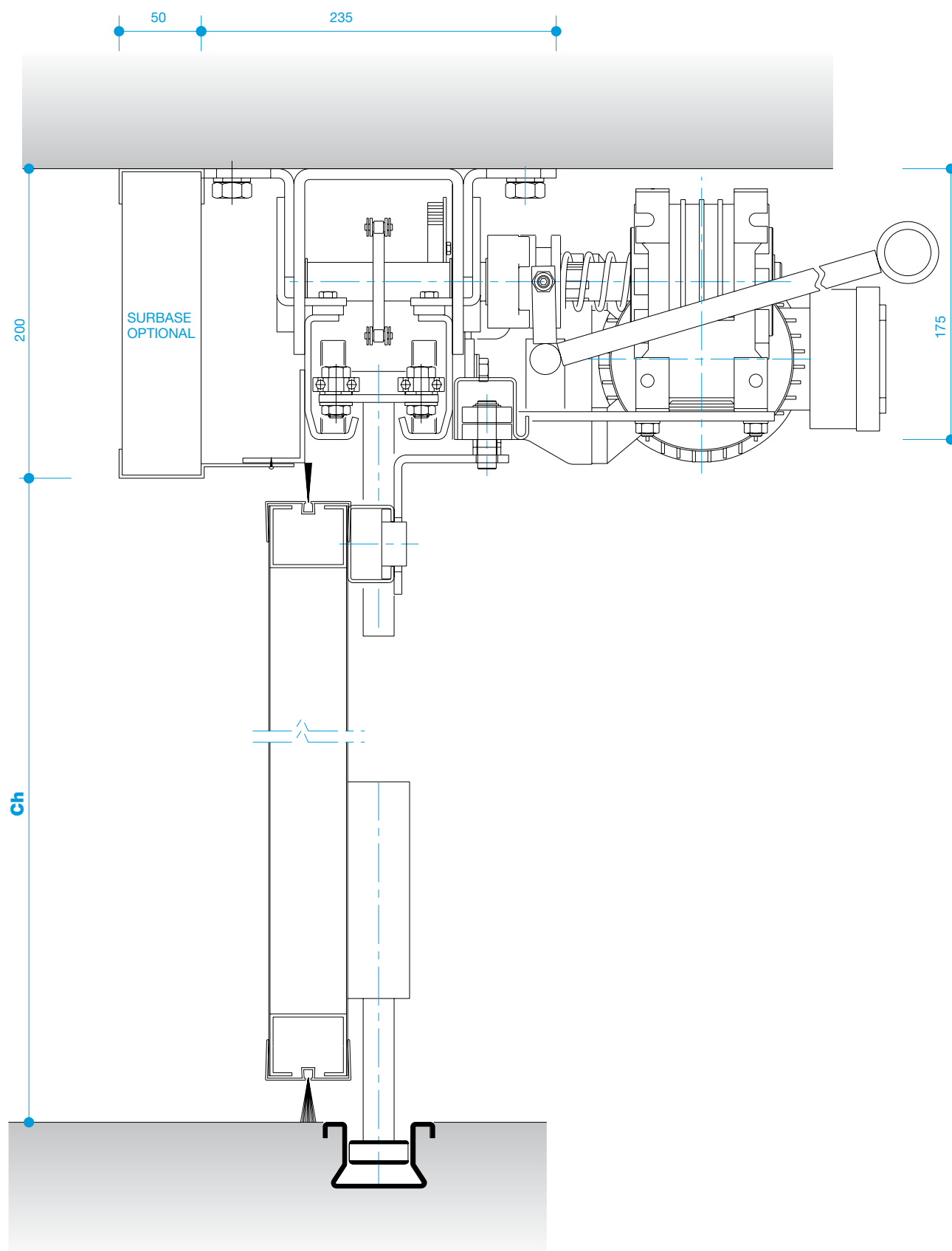


FIG 51

VERTICAL SECTION
(ANCHORING TO THE CEILING)

WICKET DOOR

Folding door KPL SG can have a wicket door with lock and internal/external handle.

The door consists of black painted aluminium profiles (Ral 9005) and in case of a drive unit it has a safety micro switch which prevents movements if the door isn't completely closed.

SIZES

X = 600 mm by Panel width > 950 mm

X = 700 mm by Panel width > 1050 mm

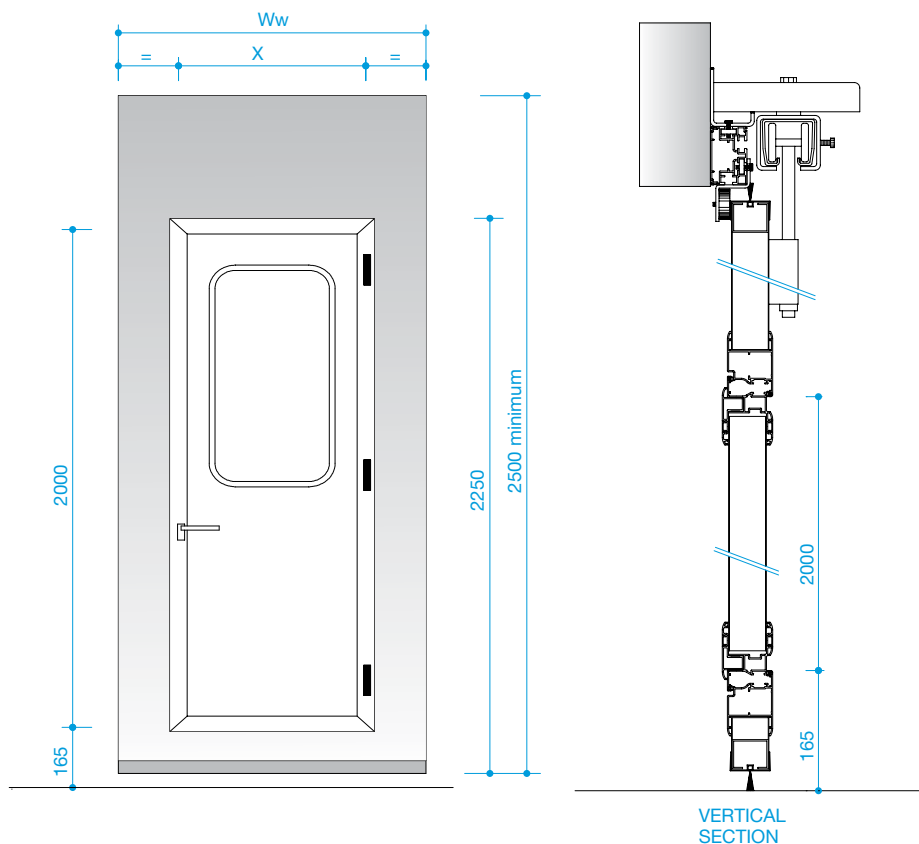
X = 800 mm by Panel width > 1150 mm

X = 900 mm by Panel width > 1250 mm

LIST OF WINDOWS WHICH CAN BE INSTALLED

WICKET DOOR	WINDOW		
	300x600	450x650	Ø 450
600	■		
700	■	■	■
800	■	■	■
900	■	■	■

FIG 52



WICKET DOOR POSITIONING

FIG 53

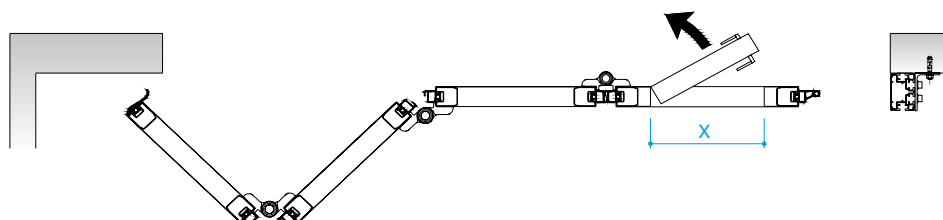
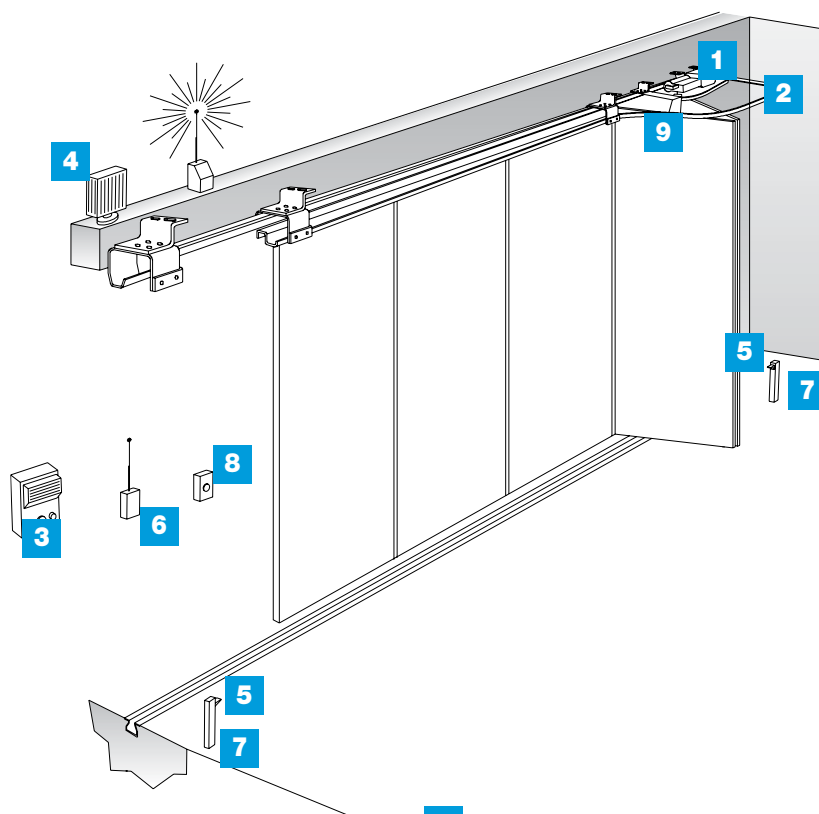


FIG 54



- | | |
|--|------------------------------|
| 1 MOTOR REDUCER | 6 RADIO CONTROL |
| 2 SPACE FOR GATHERING THE FOLDS | 7 PHOTOCELL TOWERS |
| 3 ELECTRONIC EQUIPMENT | 8 KEY SELECTOR |
| 4 FLASHER | 9 MOTOR UNLOCK SYSTEM |
| 5 COUPLE OF PHOTOCELLS | |

FIG 55

MOTOR REDUCER CHARACTERISTICS	M/R-2000	T/FR-2000
Motor	230V (+10% -10%) 50Hz	400V (+10% -10%) 50Hz
Power	0,3 kW	0,37 kW
Capacitor	20 µF	
Max door weight	2000 kg *	2000 kg *
Couple supplied	40 Nm	40 Nm
Door speed	6,2 m/min	6,2 m/min
Operating temperature	-15 +60 °C	-15 +60 °C
Working frequency	S1 - 100%	S1 - 100%
Protection level	IP 30	IP 30
Control panel	DEC-SM	DEC-ST
Safety	Electronic clutch+ Reverser	Mechanical clutch



MOTORIZATION

Automatic doors the motor reducer is assembled inside the track.

Supply consists of:

- N°1 electromechanical nonreversible motor reducer with REVERSER system and travel stop already assembled and provided with cables 230V-50Hz
- Control panel

Upon request you can have the following options:

- Two-way and four-way radio controls
- Aluminium photocell towers
- Key selector
- Safety micro for lever bolt
- Safety micro for pedestrian door
- Yellow flasher 230V
- External couple of photocells

* NOTE

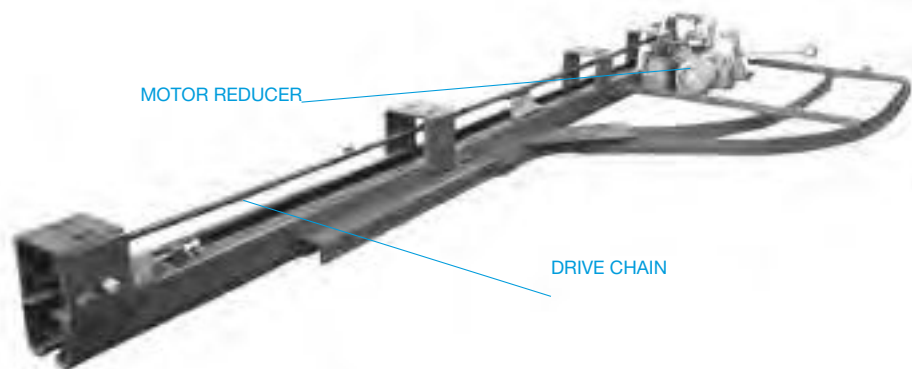
For weight you may consider 22 Kg/m2.

For doors with different characteristics from the one described other motors can be installed

**OVERHEAD TRACK WITH
MOTORIZATION**

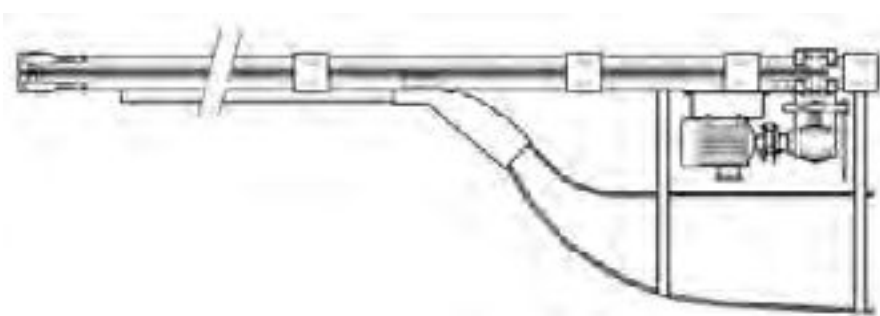
MOTORIZATION

FIG 56



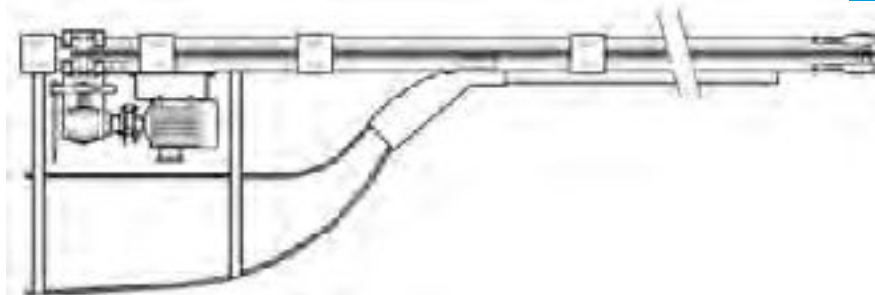
**SIDE PARTING LINE WITH SPACE FOR
GATHERING THE FOLDS ON THE RIGHT**

FIG 57



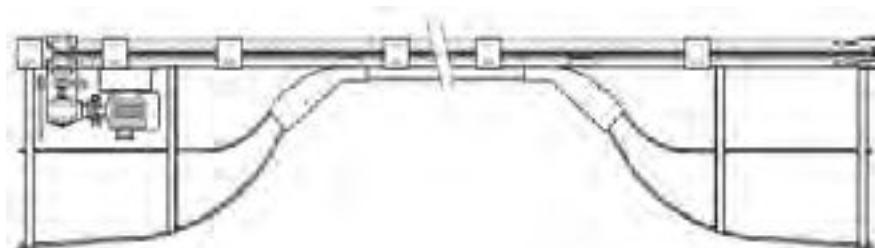
**SIDE PARTING LINE WITH SPACE FOR
GATHERING THE FOLDS ON THE LEFT**

FIG 58



CENTRAL PARTING LINE

FIG 59

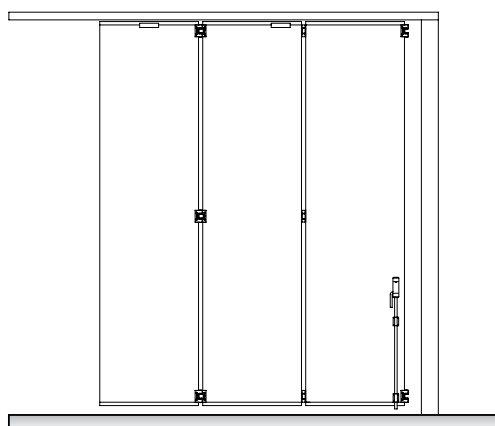


CENTRAL PARTING LINE

FIG 60



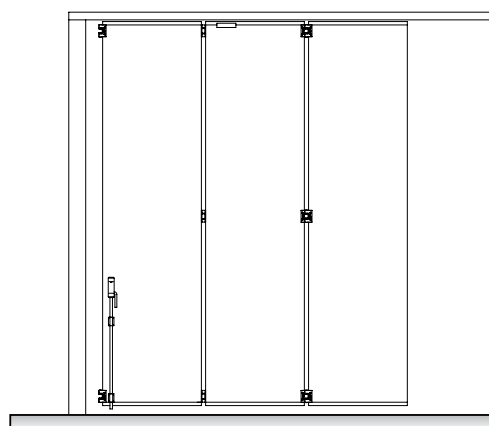
DRAWING 1



Assembly: INTERNAL/EXTERNAL

Type: 3 LEFT PANELS

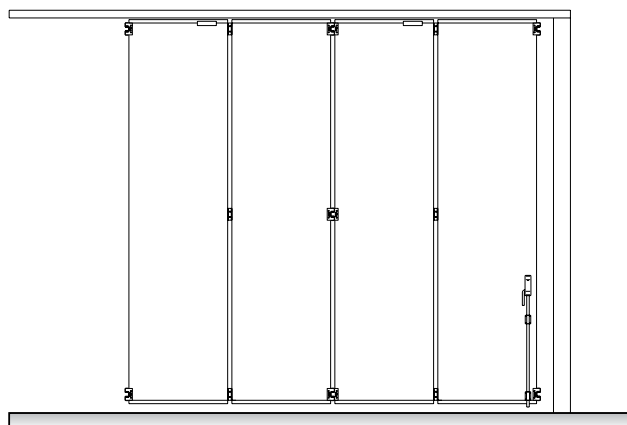
DRAWING 2



Assembly: INTERNAL/EXTERNAL

Type: 3 RIGHT PANELS

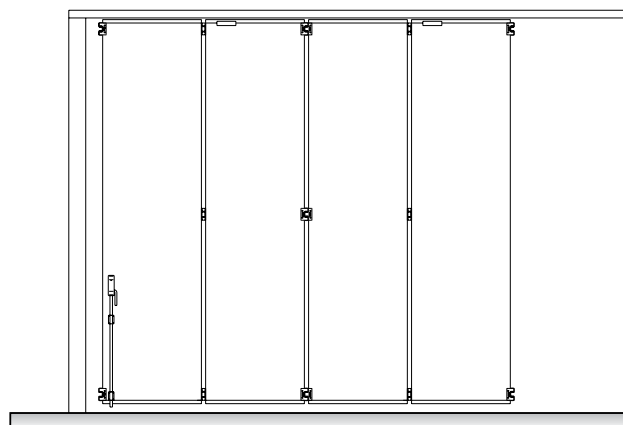
DRAWING 3



Assembly: INTERNAL/EXTERNAL

Type: 4 LEFT PANELS

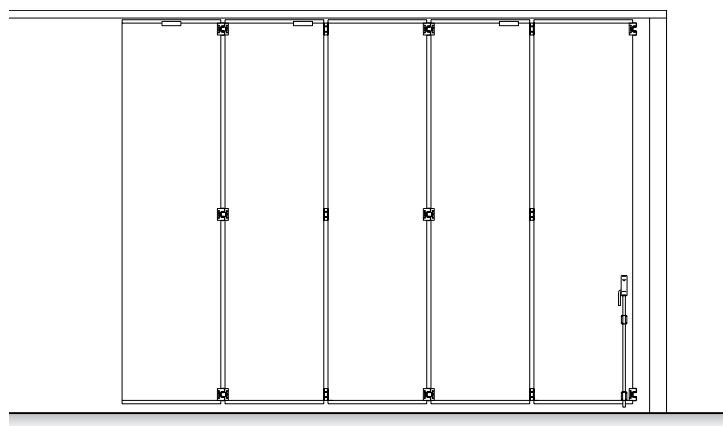
DRAWING 4



Assembly: INTERNAL/EXTERNAL

Type: 4 RIGHT PANELS

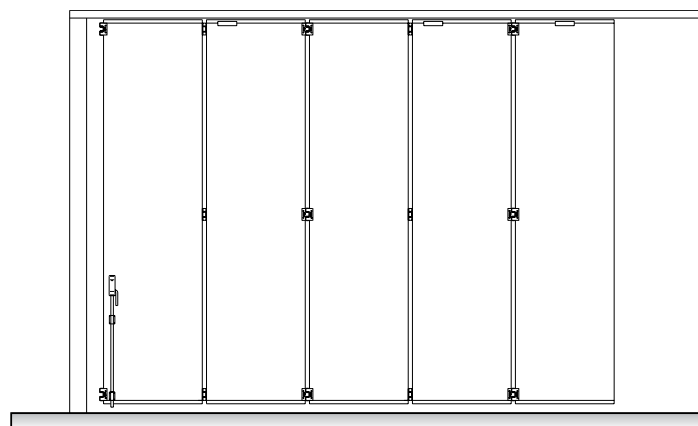
DRAWING 5



Assembly: INTERNAL/EXTERNAL

Type: 5 LEFT PANELS

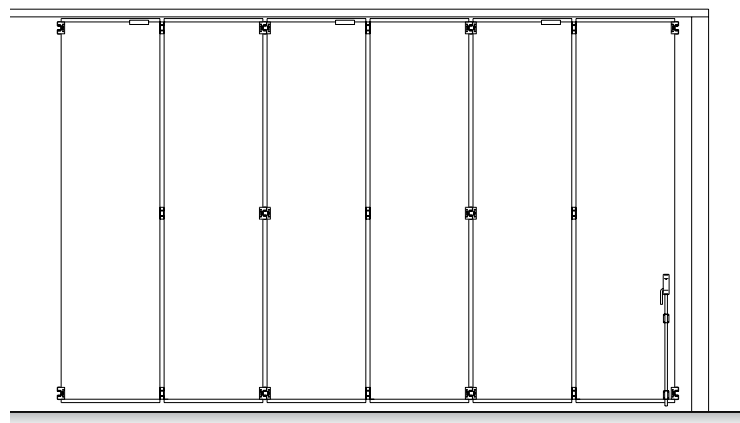
DRAWING 6



Assembly: INTERNAL/EXTERNAL

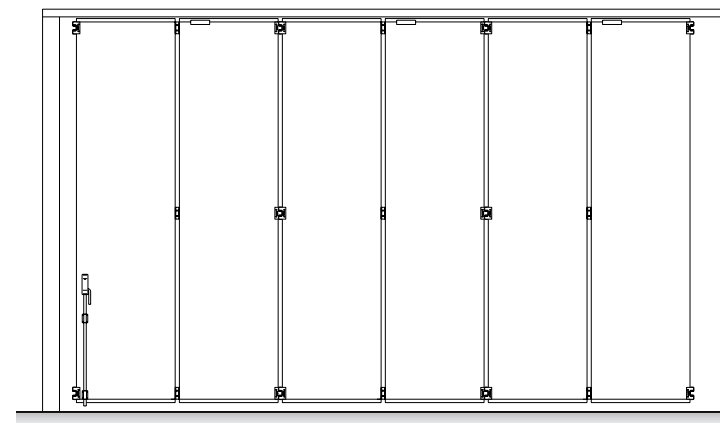
Type: 5 RIGHT PANELS

DRAWING 7



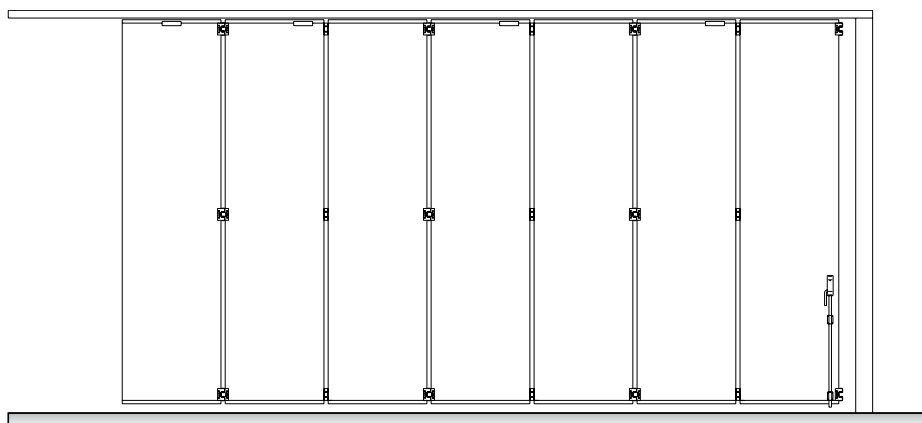
Assembly: INTERNAL/EXTERNAL
Type: 6 LEFT PANELS

DRAWING 8



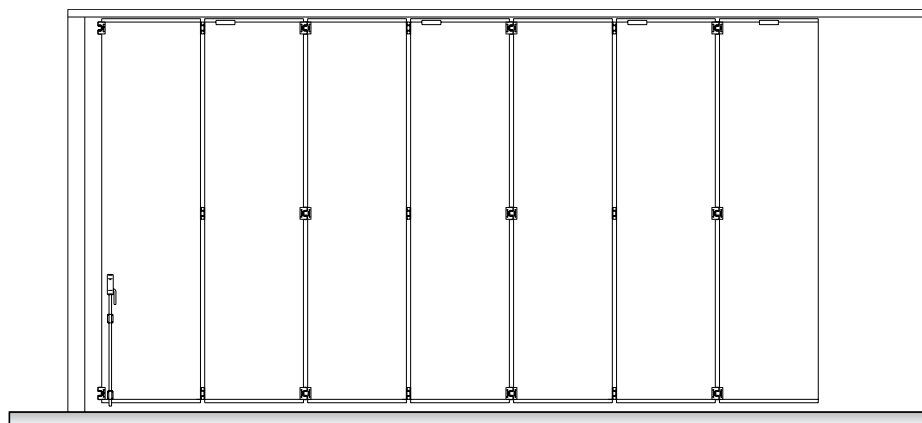
Assembly: INTERNAL/EXTERNAL
Type: 6 RIGHT PANELS

DRAWING 9



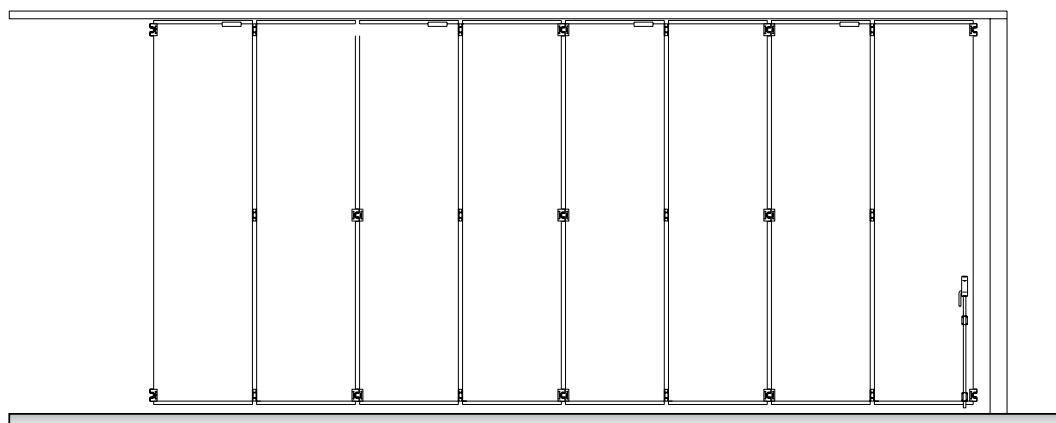
Assembly: INTERNAL/EXTERNAL
Type: 7 LEFT PANELS

DRAWING 10



Assembly: INTERNAL/EXTERNAL
Type: 7 RIGHT PANELS

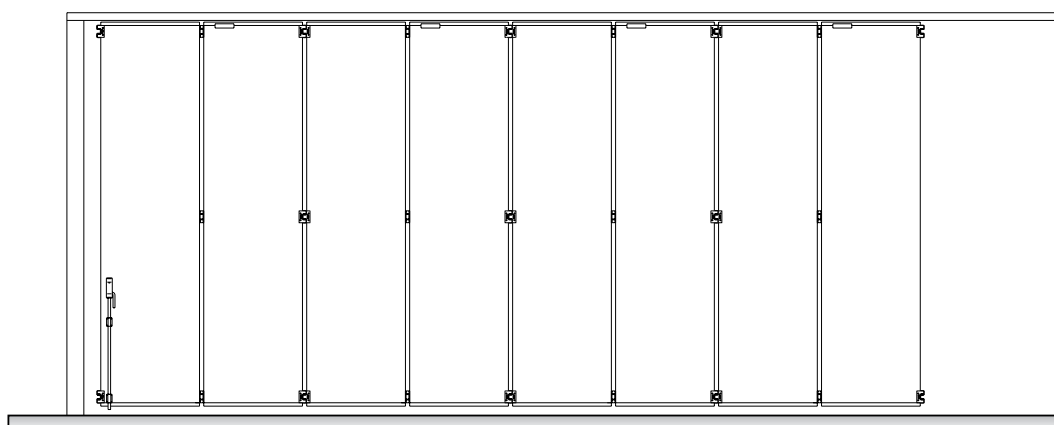
DRAWING 11



Assembly: INTERNAL/EXTERNAL

Type: 8 LEFT PANELS

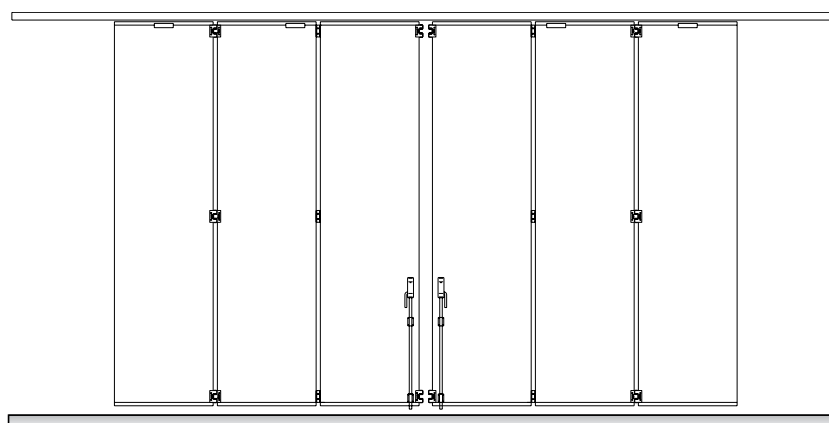
DRAWING 12



Assembly: INTERNAL/EXTERNAL

Type: 8 RIGHT PANELS

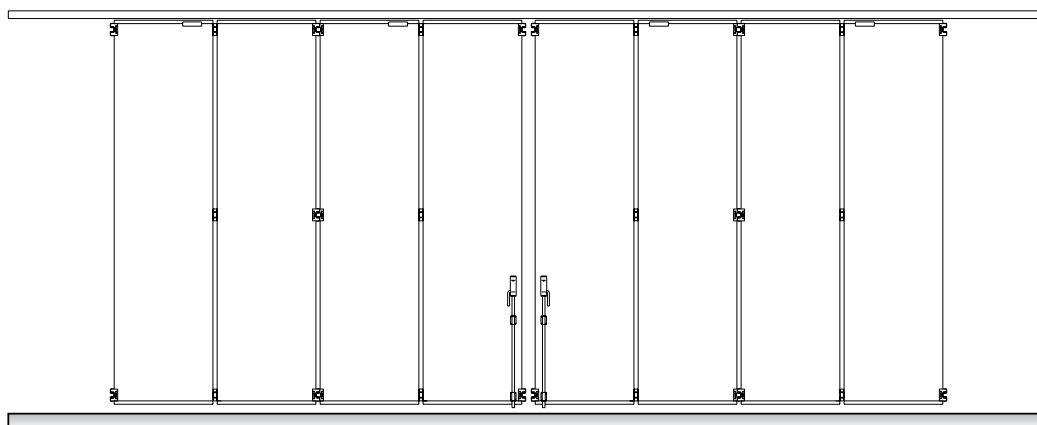
DRAWING 13



Assembly: INTERNAL/EXTERNAL

Type: 3 LEFT PANELS + 3 RIGHT

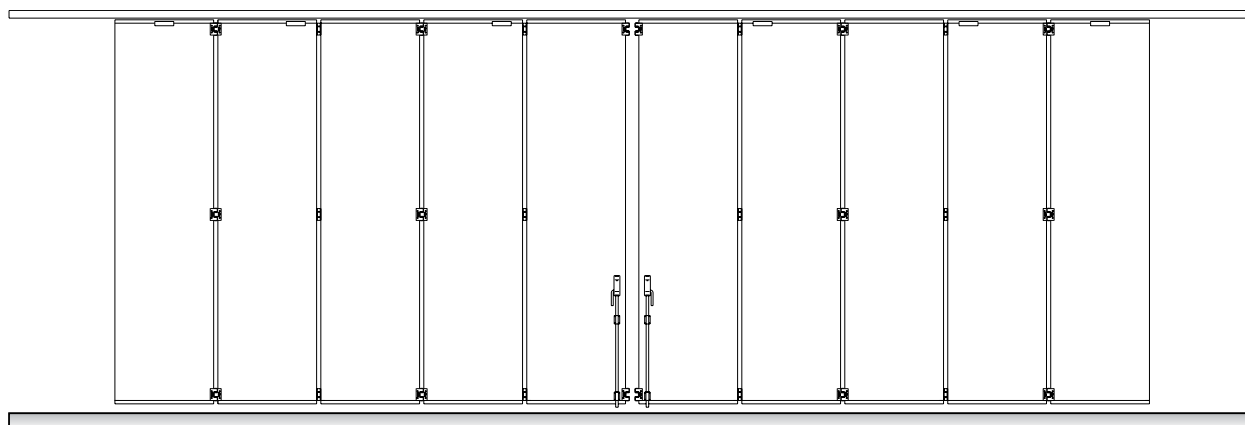
DRAWING 14



Assembly: INTERNAL/EXTERNAL

Type: 4 LEFT PANELS + 4 RIGHT

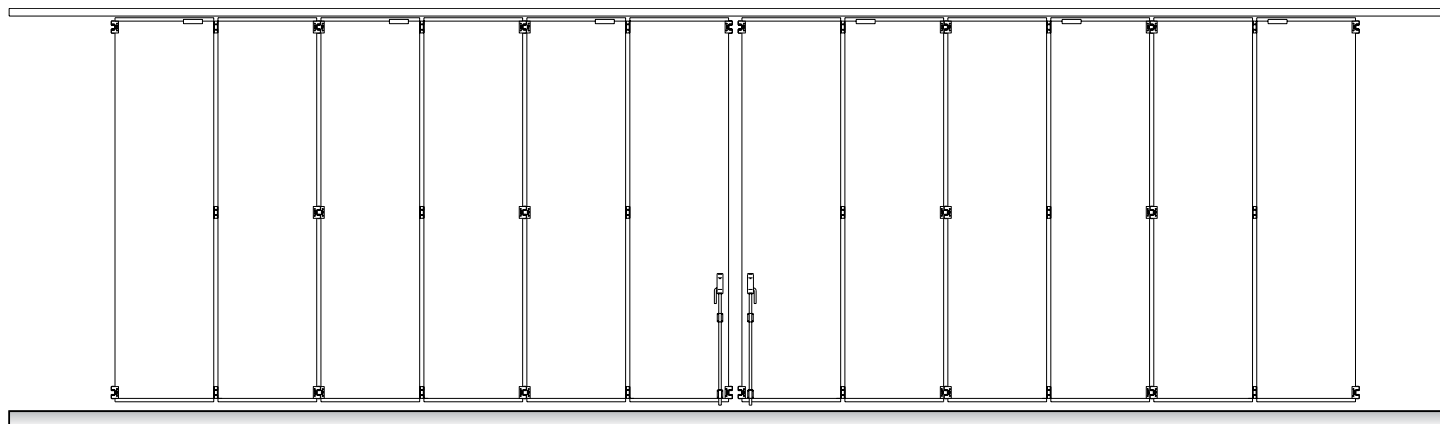
DRAWING 15



Assembly: INTERNAL/EXTERNAL

Type: 5 LEFT PANELS + 5 RIGHT

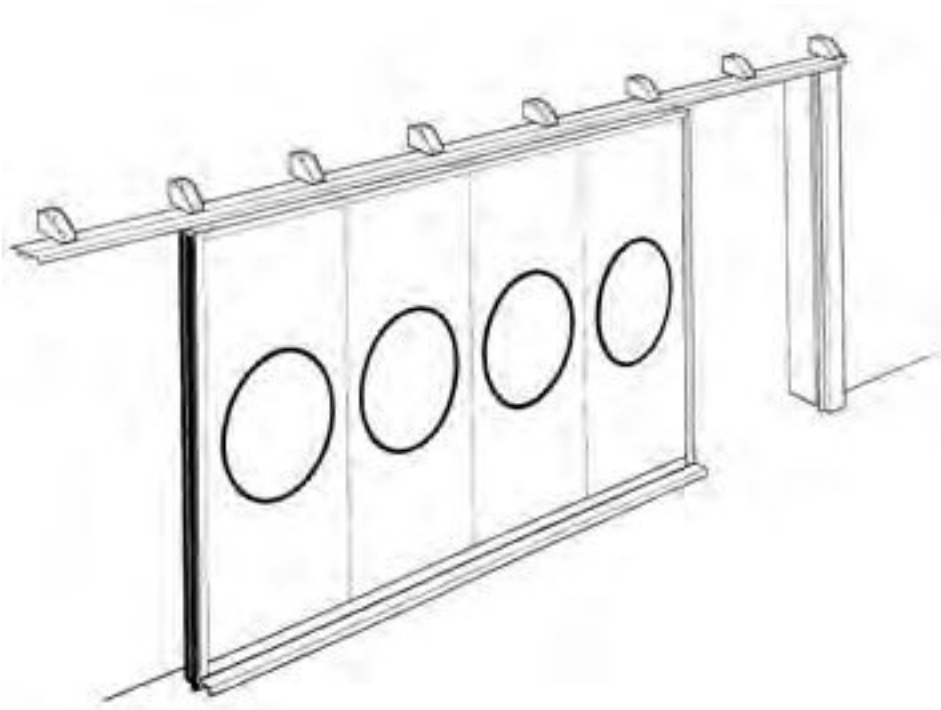
DRAWING 16



Assembly: INTERNAL/EXTERNAL

Type: 6 LEFT PANELS + 6 RIGHT

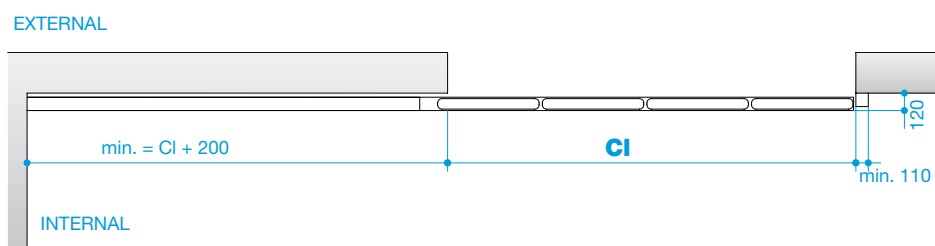
FIG 61



SLIDING DOOR KPA

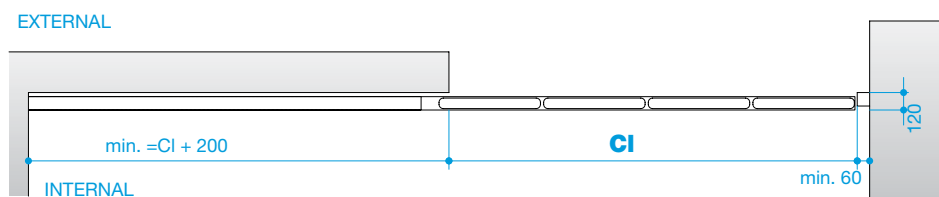
Sliding door with or without ground tracks hinged to the side jambs.

FIG 62



WALL FACED APPLICATION

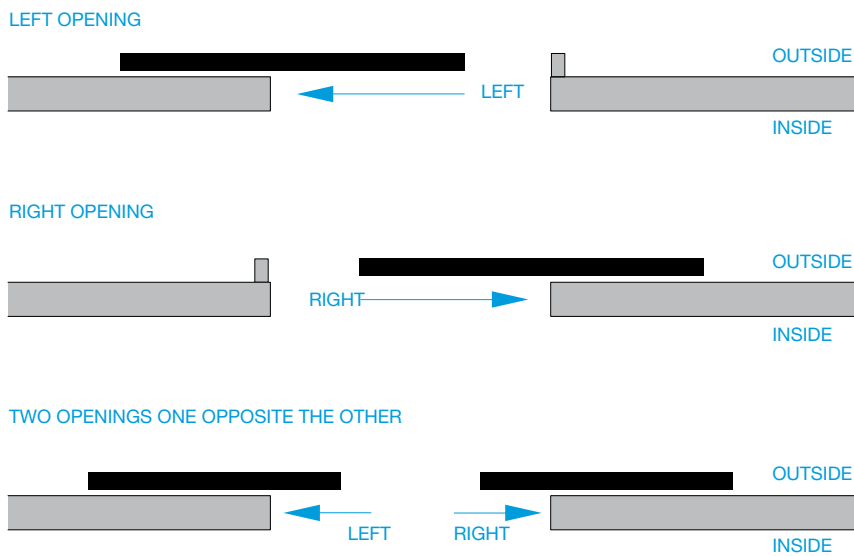
FIG 63



APPLICATION DOORSTOP JAMB WITHIN WALL OPENING

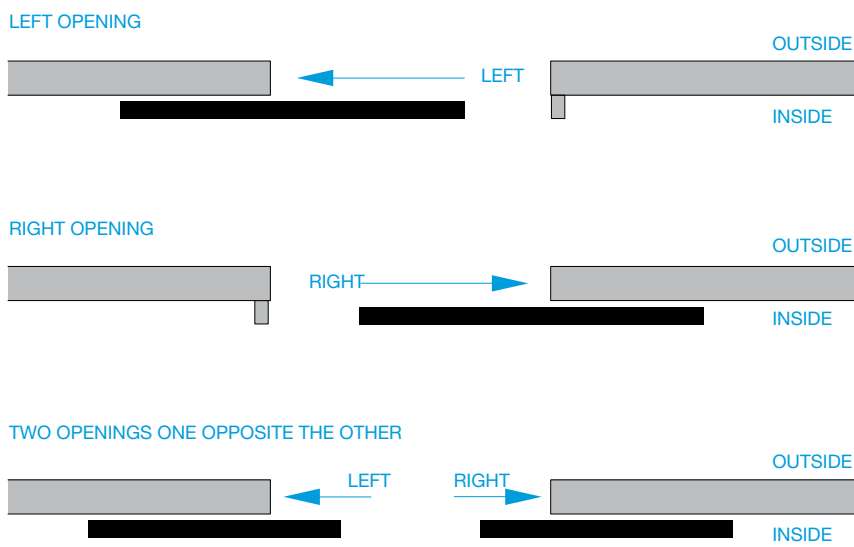
PANELS	Commercial length			Commercial height
	Minimum	MAX RAL 9002	MAX RAL SEMISTANDARD	
1+0	550	1380	1170	6000
2+0	1150	2810	2390	6000
3+0	1750	4240	3610	6000
4+0	2350	5670	4830	6000
5+0	2950	7100	6050	6000
6+0	3500	8480	7220	6000
1+1	1080	2740	2320	6000
2+2	2280	5600	4760	6000
3+3	3480	8460	7200	6000
4+4	4580	11220	9540	6000
5+5	5780	14080	11980	6000
6+6	6980	16940	14420	6000

FIG 65



EXTERNAL ASSEMBLY

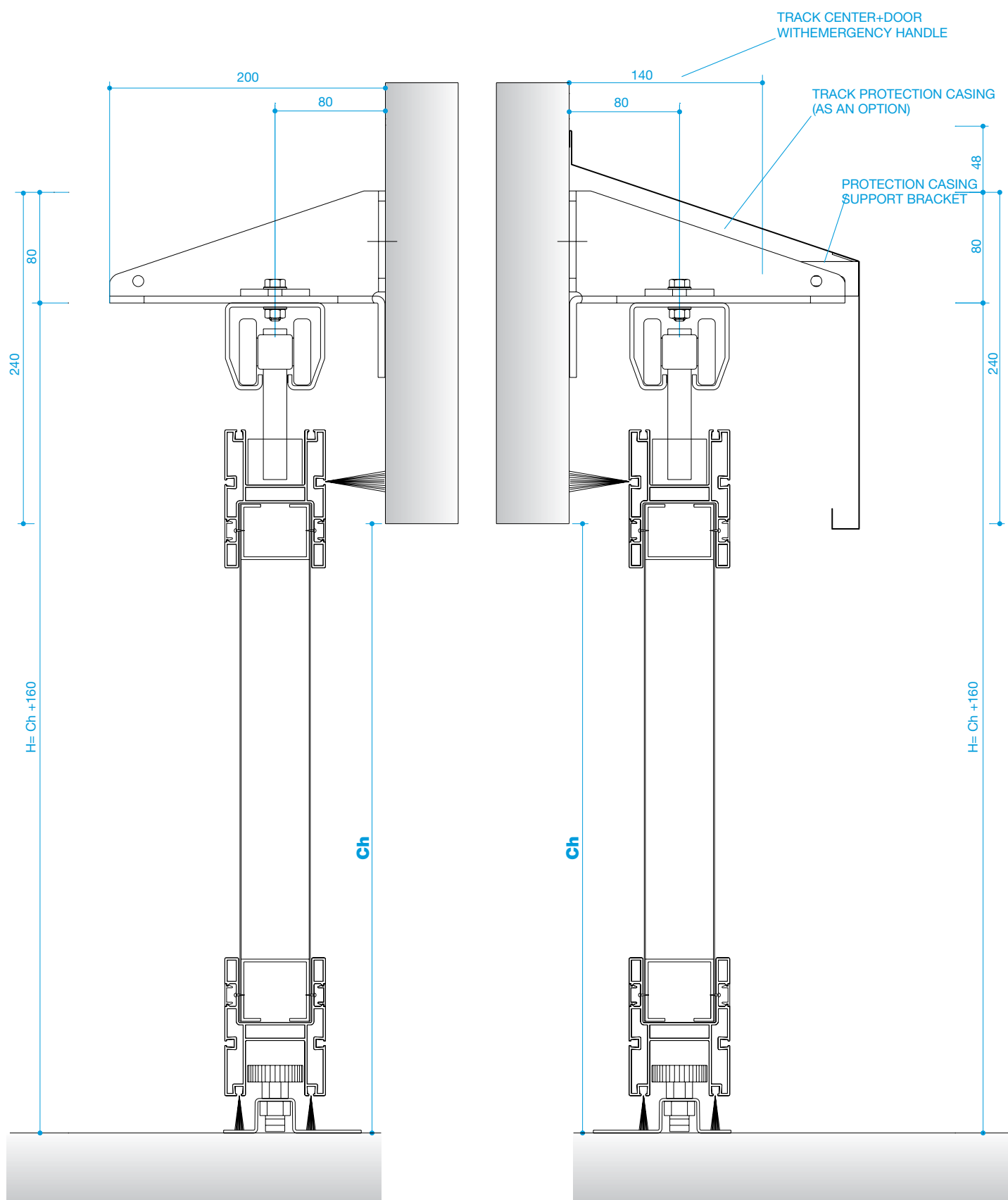
FIG 66



INTERNAL ASSEMBLY

VERTICAL SECTION OF SLIDING DOOR
MODEL KPASGS

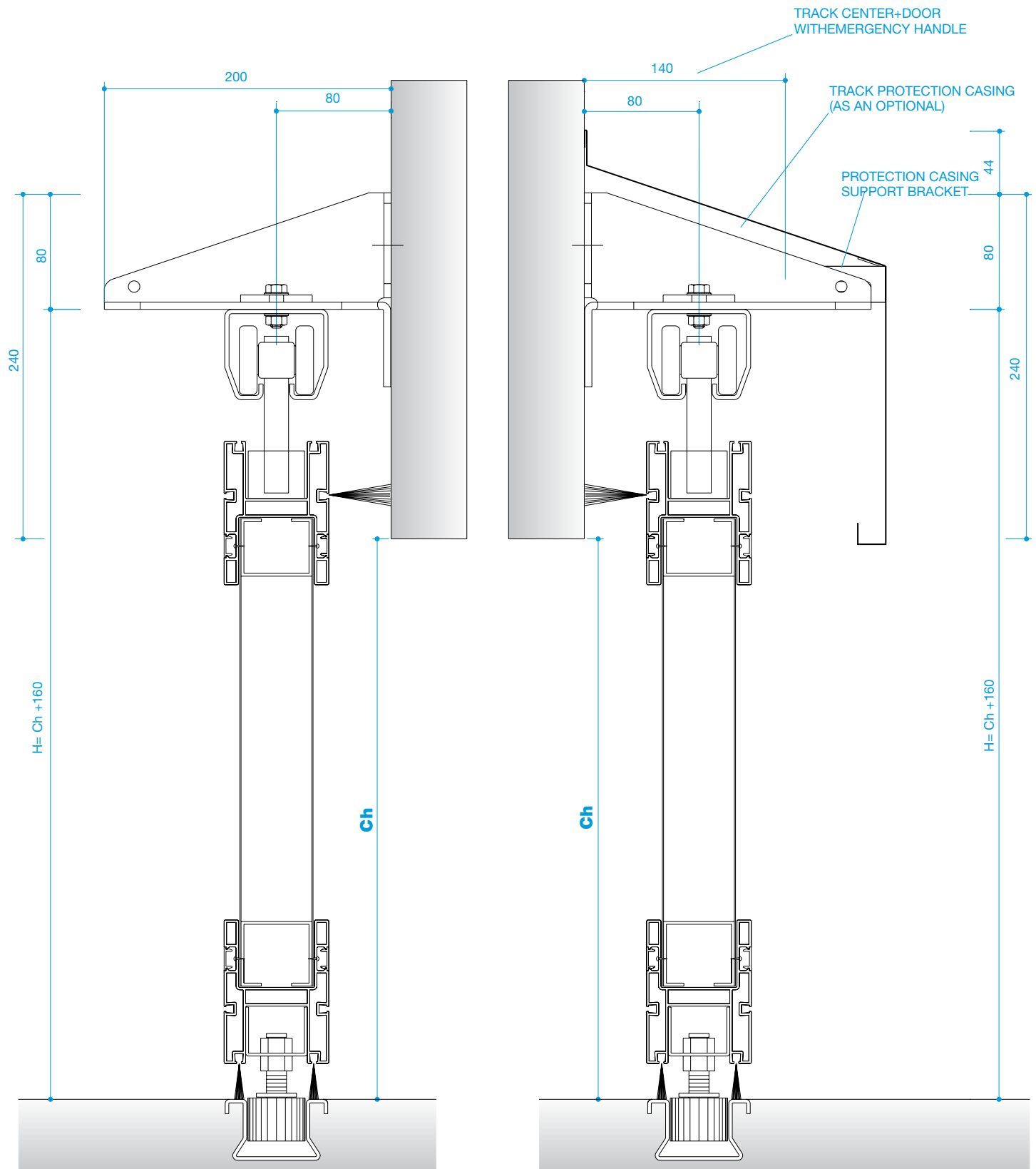
FIG 67



INTERNAL APPLICATION

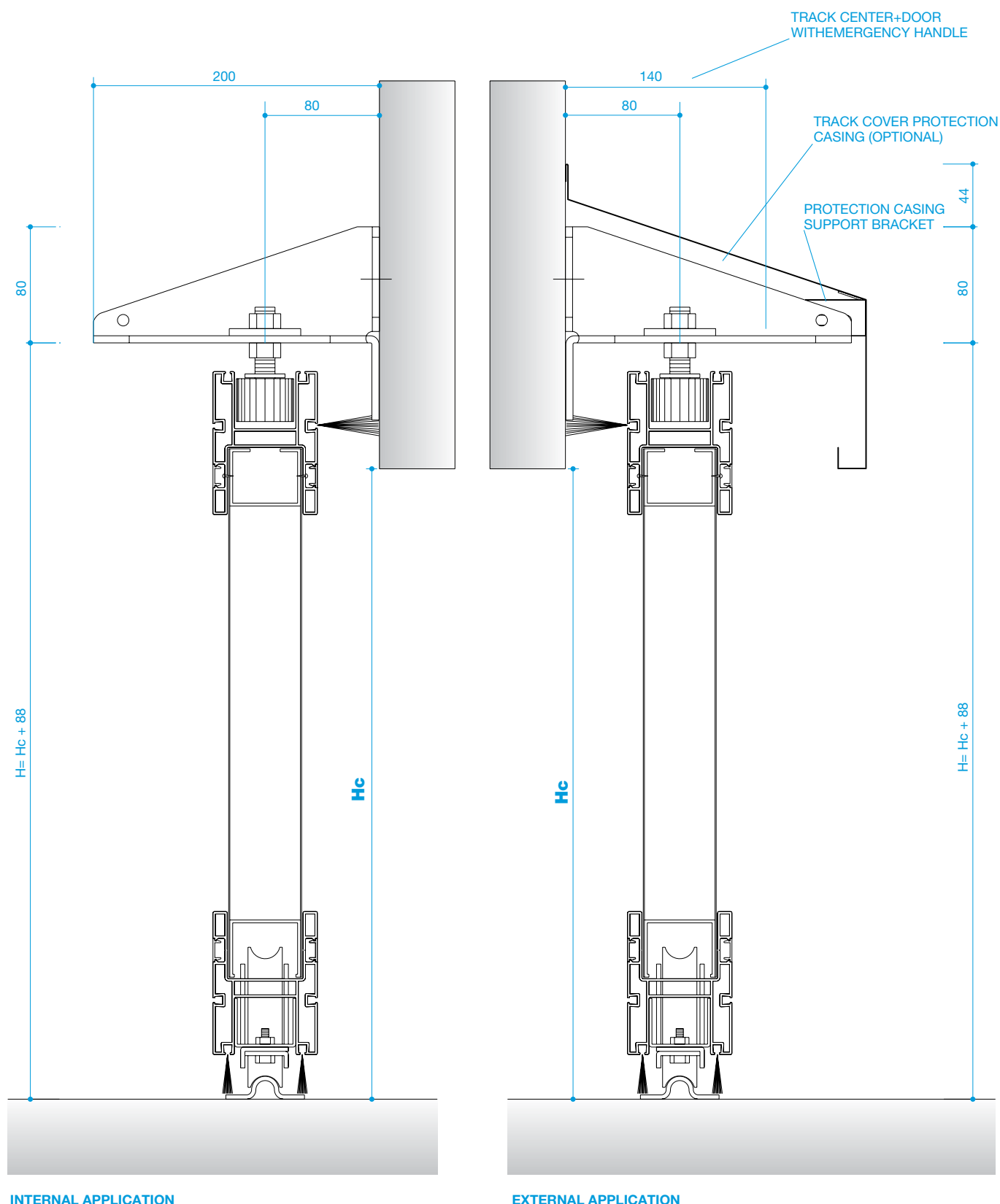
EXTERNAL APPLICATION

FIG 68

VERTICAL SECTION OF SLIDING DOOR
MODEL KPASGST

INTERNAL APPLICATION

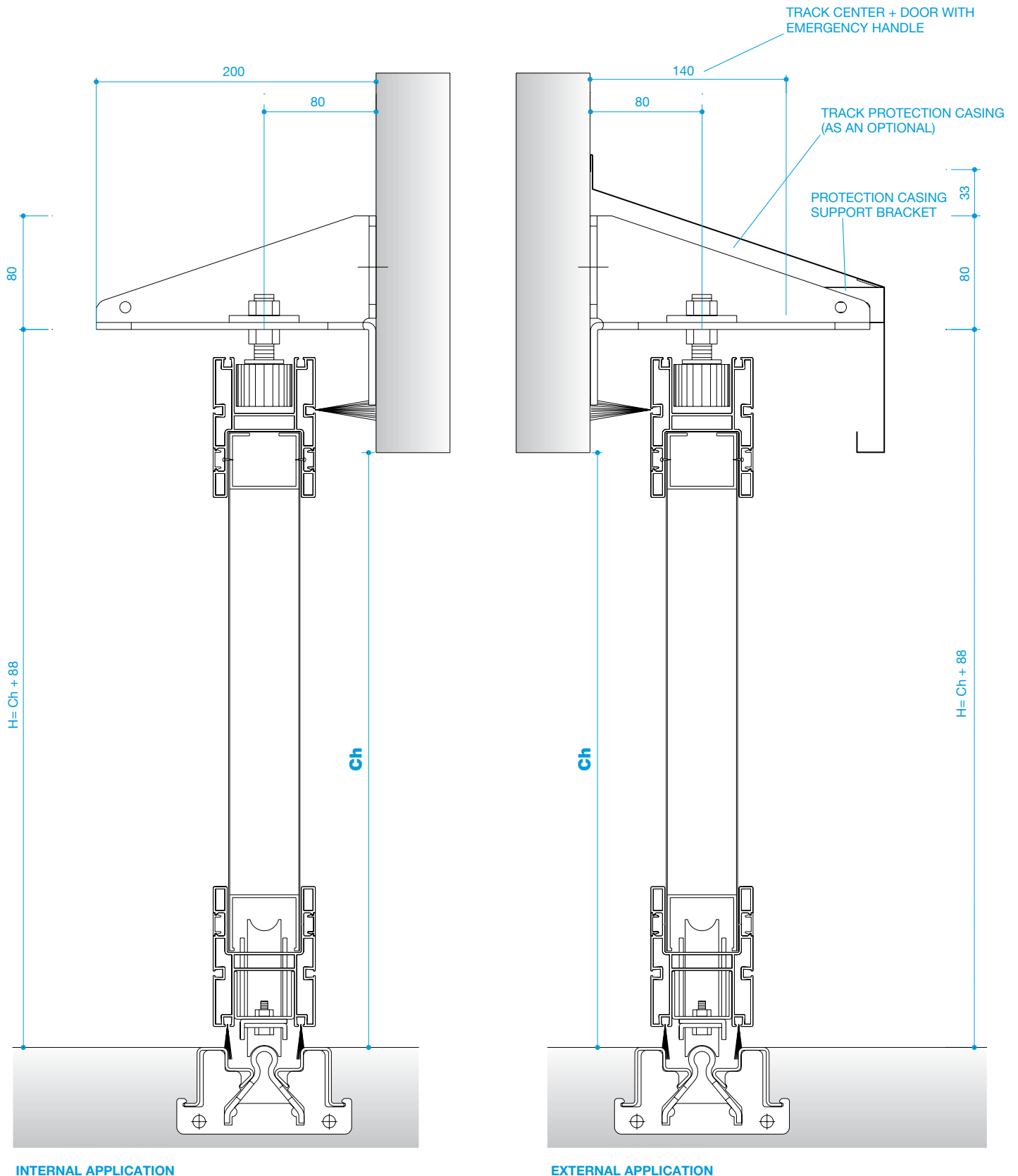
EXTERNAL APPLICATION



INTERNAL APPLICATION

EXTERNAL APPLICATION

FIG 70

VERTICAL SECTION SLIDING DOOR
MODEL KPASGSII

WICKET DOORS

Sliding door KPA can have a wicket door with lock and internal/external handle.

The doors consist of black painted aluminium profiles (Ral 9005) and, in case of a motor it has safety micro switch which prevents movements if the door isn't completely closed.

SIZES

X = 600 mm by Panel width > 950 mm

X = 700 mm by Panel width > 1050 mm

X = 800 mm by Panel width > 1150 mm

X = 900 mm by Panel width > 1250 mm

LIST OF WINDOWS WHICH CAN BE INSTALLED

WICKET DOOR	WINDOW		
	300x600	450x650	Ø 450
600	■		
700	■	■	■
800	■	■	■
900	■	■	■

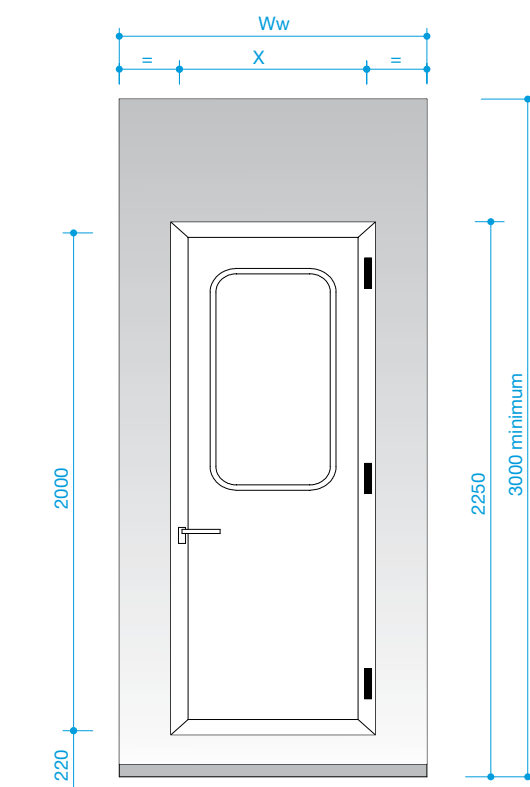
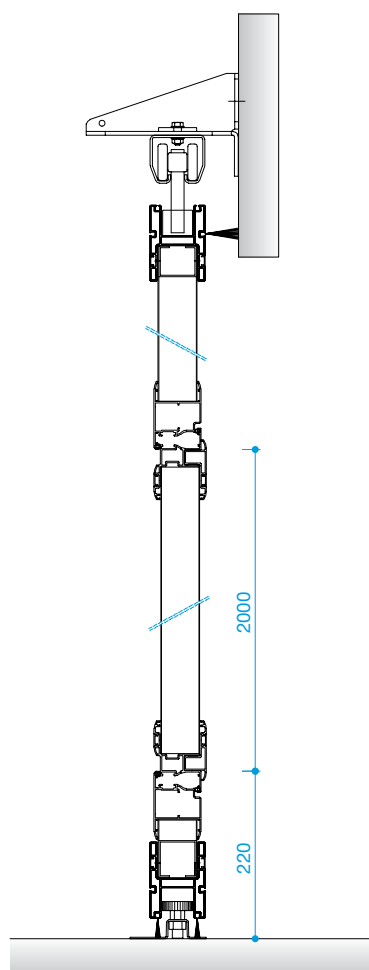
WICKET DOOR VERTICAL SECTION**FIG 71****FIG 72**

FIG 73



MOTOR REDUCER CHARACTERISTICS	740	741
Power supply	230 Vac 50 (60) Hz	
Power absorbed	350 W	500 W
Current absorbed	1,5 A	2,2 A
Drive and thrust force	45 daN	65 daN
Motor spin speed	1400 g/min	
Motor winding thermo-protection	140°C	
Reduction ratio	1:25	
Max panel weight	500 kg*	900 kg*
Sliding speed	12 m/min (pinion Z16)	
Functioning environment temperature	-20°C ÷ +55°C	
Protection level	IP 44	
Dimensions (L x P x H) in mm	295x225x325 (pinion included)	

FIG 74

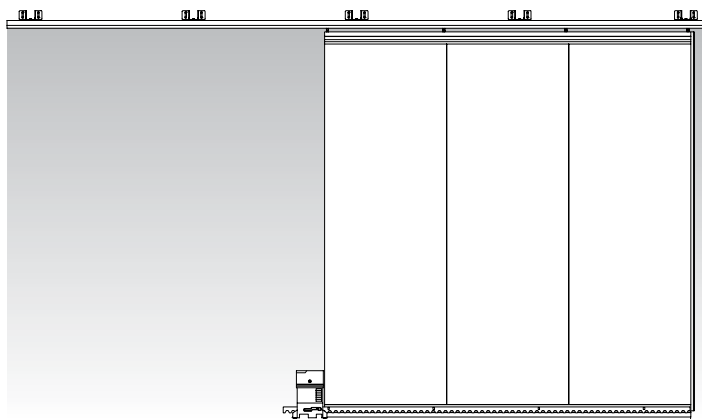
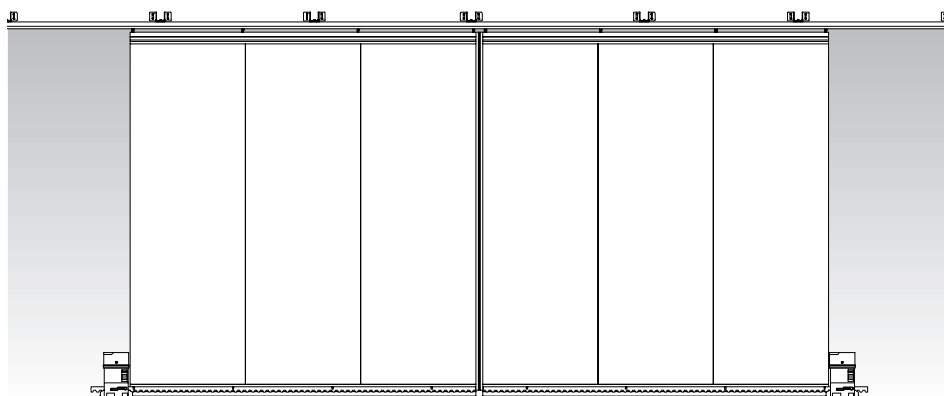


FIG 75



RACK DRIVE

* NOTE

For calculations of weight consider 22 Kg/mq.
For doors with different characteristics other types of motors are available.

MOTORIZED SLIDING DOOR WITH LEFT PARTING LINE.

MOTORIZED SLIDING DOOR WITH CENTRAL PARTING LINE

CHAIN DRIVE MOTOR

FIG 76



MOTOR REDUCER CHARACTERISTICS	M/R-2000	T/FR-2000
Motor	230V (+10% -10%) 50Hz	400V (+10% -10%) 50Hz
Power	0,3 kW	0,37 kW
Capacitor	20 µF	
Max door weight	2000 kg *	2000 kg *
Couple supplied	40 Nm	40 Nm
Door speed	6,2 m/min	6,2 m/min
Operating temperature	-15 +60 °C	-15 +60 °C
Working frequency	S1 - 100%	S1 - 100%
Protection Level	IP 30	IP 30
Control panel	DEC-SM	DEC-ST
Safety	Electronic clutch+ Reverser	Mechanical clutch

OPTIONAL ACCESSORIES FOR ALL TYPES OF MOTORS

FIG 77



ELECTRIC CONTROL PANEL



SAFETY PHOTO CELLS

RADIO TRANSMITTER: OPENING/SHUTTING
REMOTE CONTROL

SWITCH



SAFETY FLASHER



OPEN/CLOSE/STOP BUTTONS

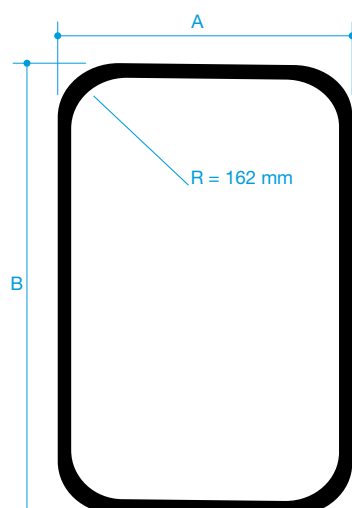


SAFETY SENSOR KIT



METAL DETECTOR

FIG 78

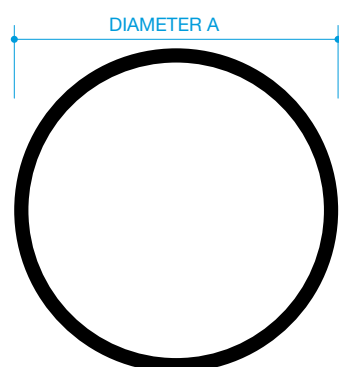


Commercial sizes	
A (mm)	B (mm)
750	1200
750	750
550	900
550	550
450	650
300	600

RECTANGULAR VISION PANELS

Vision panels with rubber EPDM profiles with rounded edges and Visarm transparent glass 4+4.

FIG 79

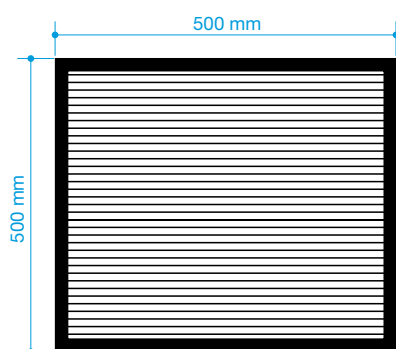


Commercial sizes	
Diam. A (mm)	
550	
450	

ROUND VISION PANELS

Vision panels with rubber EPDM profiles with Visarm transparent glass 4+4.

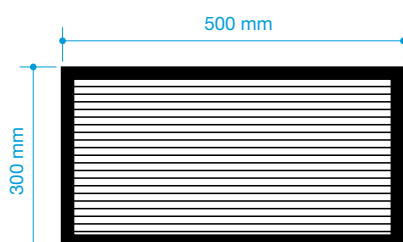
FIG 80



Aeration surface 1280 cmq

AERATION LOUVERS BIG SIZE

FIG 81

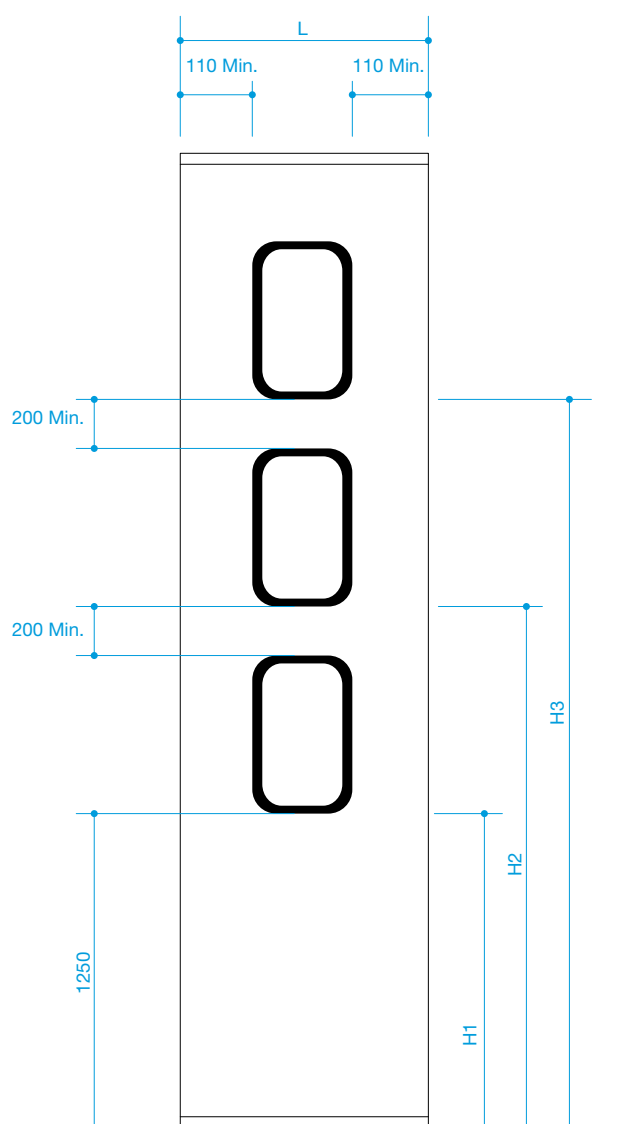


Aeration surface 695 cmq

AERATION LOUVER SMALL SIZE

MINIMUM SPACES TO KEEP WHEN INSERTING VISION PANELS AND LOUVERS

FIG 82



LOCK BOLT WITH KEY OPENING FROM EITHER INSIDE OR OUTSIDE

FIG 83





LOOKING AHEAD



Quality Management System
UNI EN ISO 9001:2008 Certified
Factory Production Control
UNI EN ISO 1090
Applicable standard
UNI EN 13241-1
UNI EN 16005
UNI EN 1398
UNI EN 3834-2



CERTIFICAZIONI CERTIFICATIONS

Kopron attraverso le certificazioni di qualità offre un'ulteriore garanzia sull'efficacia e l'efficienza dei propri prodotti.

Through certifications Kopron offer a further guarantee on efficiency and quality of their products.



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