



VAN ACHT
GLASS & ALUMINIUM

2014

Glazing Regulations

Installation of glass panes will be inspected in accordance with SANS 10400-Part N:2012 Edition 3.1

1. EXTERNAL VERTICAL GLAZING- STRUCTURES NOT EXCEEDING 10M IN HEIGHT

Vertical Glazing supported all round							
	Maximum Pane size in sq.m						
Nominal Glass Thickness (mm)	3	4	5	6	8	10	12
Monolithic Annealed Glass	0.75	1.5	2.1	3.2	4.6	6.0	6.0
Patterned Annealed & Wired Glass	-	0.75	1.2	1.9	2.6	3.4	-
Laminated Annealed Safety Glass	-	-	-	2.9	4.3	5.7	5.7
Toughened Safety Glass	-	1.9	3.0	4.5	8.0	8.0	8.0

Vertical Glazing -Two opposite sides supported							
	Maximum Span between support in mm						
Nominal Glass Thickness (mm)	3	4	5	6	8	10	12
Monolithic Annealed Glass	-	0.4	0.5	0.6	0.85	1.0	1.3
Patterned Annealed & Wired Glass	-	0.25	0.3	0.35	0.5	0.6	-
Laminated Annealed Safety Glass	-	-	-	0.55	0.8	0.95	1.2
Toughened Safety Glass	-	0.55	0.7	0.85	1.15	1.3	1.8

2. INTERNAL VERTICAL GLAZING

Vertical Glazing supported all round							
	Maximum Pane size in sq.m						
Nominal Glass Thickness (mm)	3	4	5	6	8	10	12
Monolithic Annealed Glass	0.75	1.5	2.1	3.2	4.6	6.0	6.0
Patterned Annealed & Wired Glass	-	0.75	1.2	1.9	2.6	3.4	-
Laminated Annealed Safety Glass	-	-	-	4.1	6.0	7.2	7.2
Toughened Safety Glass	-	3.0	4.2	6.4	9.2	9.2	9.2

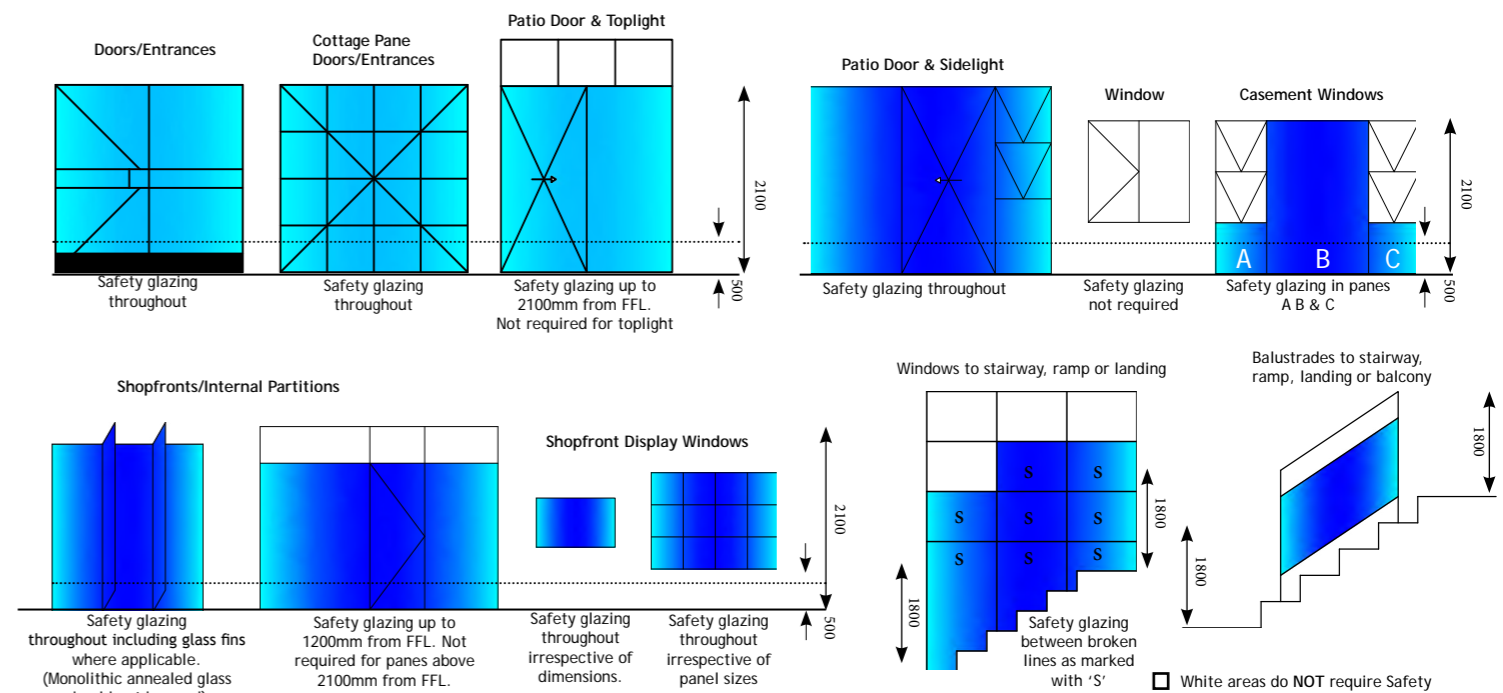
Vertical Glazing -Two opposite sides supported							
	Maximum Pane size in sq.m						
Nominal Glass Thickness (mm)	3	4	5	6	8	10	12
Monolithic Annealed Glass	-	0.65	0.8	0.95	1.3	1.55	2.0
Patterned Annealed & Wired Glass	-	0.4	0.48	0.57	0.78	0.9	-
Laminated annealed Safety Glass	-	-	-	0.9	1.25	1.5	1.95
Toughened Safety Glass	-	0.9	1.1	1.3	1.75	2.0	2.7

SANS 10400-N:2012 Edition 3.1 requires glazing (framing and glazing materials) to comply with all the requirements of SANS 613 in respect of wind and impact loads, water penetration and air leakage. Upon completion of project provide appropriate Performance Test Certificate confirming compliance with all requirements of SANS 613.



- 1.1 SAFETY GLAZING (Obtain SAGGA Certificate of Conformance confirming compliance).
- 1.2 The performance of safety glazing material shall be in accordance with the requirements of SANS 1263-1 and the individual panes of safety glazing material shall be permanently marked by the installer in such a manner that the markings are visible after installation.
- 1.3 Safety glazing materials that comply with SANS 1263-1 shall be used where.
 - a) doors and sidelights form part of any entrance up to 2100mm from finished floor level;
 - b) a window has a sill height of less than 500mm from the floor or extreme ground level;
 - c) a window has a sill height of less than 800mm from the floor or external ground level without any permanent barrier that prevents persons from coming into contact with the glass panel, and is so placed that persons are likely, on normal traffic routes, to move directly towards such window.

NOTE: A barrier could be any feature i.e. a heavy bar across a window or a flower box placed in front of the window, that will provide a physical or visual barrier between the glass and person.
 - d) a bath enclosure or shower cubicle is glazed, or where glazing occurs immediately above and within a distance of 1800mm horizontally or vertically from a bath or shower.
 - e) glazing is used in any shop front display window within 2100mm from finished floor level;
 - f) glazing is used in any wall or balustrade to (immediately adjacent to) a stairway, ramp, landing, pathway, patio, veranda or balcony;
 - g) glazing is used within 1800mm of the pitch line of a stairway or the surface of a ramp, landing, pathway, patio, veranda or balcony;
 - h) glazing applications are sloped or horizontal;
 - i) a mirror is installed as facing to a cupboard door less than 800mm above the floor level and there is no solid backing.
 - j) glazing is used around areas such as swimming pools and ice rinks; and
 - k) glazing is used in internal partitions, within 2100mm of floor level.
- 1.4 All glazing for occupancy or building classification is A3 (places of instruction), E1 (place of detention), E2 (hospital), E3 (other institutional (residential buildings) and H2 (dormitory), where such is associated with a building of occupancy classification A3, E1, E2 or E3 (see SANS 10400-A) shall be safety glazing material that complies with requirements of SANS 1263-1.
- 1.5 Glass in balustrades shall be toughened safety glass unless rigidly supported on all sides. Glazing material in balustrades is subject to impact and line loads determined in accordance within the requirements of SANS 10160-2.
- 1.6 Glass in horizontal or sloping applications shall be laminated safety glass or toughened safety glass. Toughened safety glass shall only be used where the individual panes are framed on all sides.
- 1.7 Wired glass having two-edge support may be used in vertical glazing sawtooth roofs.
- 1.8 The thickness and maximum panel dimensions of frameless bath and shower enclosures shall be as given in table below.



General

Glazing installations not covered by or deviating from the items above such as, but not limited to, external glazing in structures in excess of 10m in height, overhead or sloped glazing, glass flooring, three and one edge supported glass, toughened glass assemblies and entrances, glass for balustrading supported by clamps etc. must be signed off and approved in writing by Competent Person (Glazing) or Structures. The SAGGA Certificate of Conformance does NOT cover water penetration, air leakage and wind load capacity and framing.

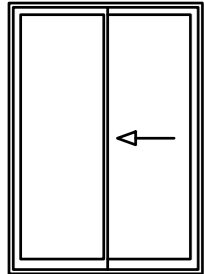
Sliding Doors

Sliding Door Options

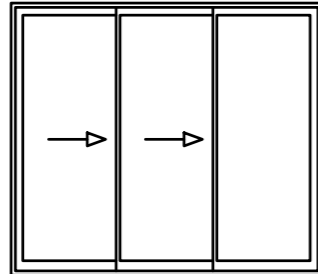
SLIDING DOOR RANGES

- PATIO** ECONOMY RANGE. YOUR NORMAL STANDARD SLIDING DOOR
- 700 SERIES** GOOD VALUE FOR MONEY. BEEN ON THE MARKET FOR A LONG TIME
- ROUGE** NEW RANGE BY CREALCO. SLIDER FOR THE FUTURE
- PALACE** FLAGSHIP SLIDING DOOR. LOTS OF OPTIONS AVAILABLE

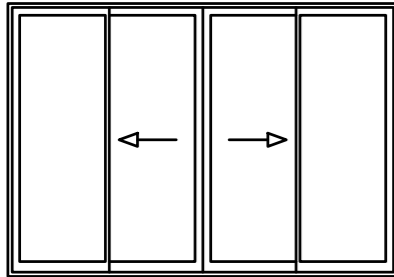
SINGLE SLIDING (OX / XO)



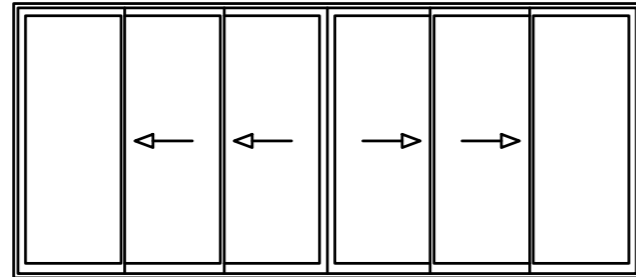
TRIPLE SLIDING (OXX / XXO)



DOUBLE SLIDING (OXXO)



DOUBLE TRIPLE SLIDING (OXXXXO)



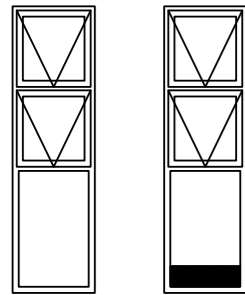
PLEASE NOTE
ACTUAL SIZE =
WIDTH & HEIGHT
MINUS 10MM

	2100 MM HIGH				2400 MM HIGH		2700 MM HIGH	
	WIDTH	PATIO	700S	ROUGE	PALACE	PATIO	PALACE	PALACE
SINGLE SLIDING OX / XO	1500	X	X	X	X	X	X	X
	1800	X	X	X	X	X	X	X
	2100	X	X	X	X	X	X	X
	2400	X	X	X	X	X	X	X
	3000	X	X	X	X		X	X
TRIPLE SLIDING (OXX / XXO)	3300	X	X	X	X		X	X
	4200	X	X	X	X		X	X
DOUBLE SLIDING (OXXO)	3000	X	X	X	X	X	X	X
	3600	X	X	X	X	X	X	X
	4200	X	X	X	X	X	X	X
TRIPLE CO SLIDING (OXXXXO)	4800	X	X	X	X		X	X
	6000	X	X	X	X		X	X

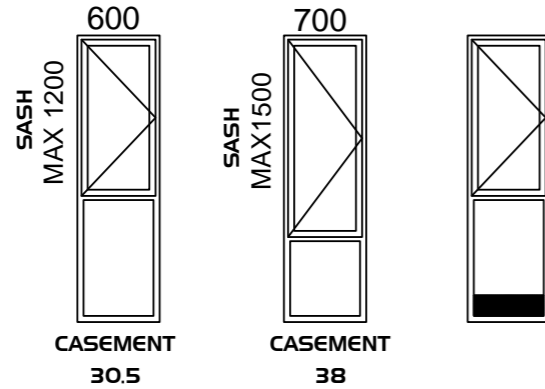
		PATIO	700 SERIES	ROUGE	PALACE
SIZES	STANDARD	X	X	X	X
	CUSTOM MADE		X	X	X
HEIGHTS	2100 MM	X	X	X	X
	2400 MM	X			X
	2700 MM				X
SECTIONS	STANDARD	X	X	X	X
	DIFF OPTIONS				X
COLOURS	BRONZE	X	X	X	X
	CHARCOAL	X	X	X	X
	NATURAL	X	X	X	X
	WHITE	X	X	X	X
	OTHER		X	X	X
LEAF STILES	FULL GLASS (G1)	X	X	X	X
	TWO GLASS (G2)				X
GLASS	CLEAR TSG 5MM	X			
	CLEAR TSG LOW-E	X			
	CLEAR 6.38		X	X	X
	COLOURS 6.38		X	X	X
	CLEAR 6.38 LOW-E		X	X	X
	DOUBLE GLAZING				X
SLIDING	SINGLE	X	X	X	X
	DOUBLE	X	X	X	X
	TRIPLE	X	X	X	X
	MULTI				X
SIDELIGHTS	STANDARD WIDTH	X	X	X	X
	CUSTOM MADE		X	X	X
ASSEMBLY	KIT FORM	X	X		
	CUSTOM MADE		X	X	X
SILL HEIGHTS	INSIDE	29	36	38	50
	OUTSIDE	8	10	8	15
SILL WIDTH	OX	72	70	62	116
	OXX	104	105	88	171
	OXXO	72	70	62	116
	OXXXXO	104	105	88	171

Sliding Door Sidelights and Toplights

SIDE LIGHT - TOP HUNG



SIDE LIGHT - SIDE HUNG



TOP HUNG SLIDING DOOR SIDELIGHT SIZES

		WIDTH	HEIGHT	HEIGHT
PATIO	ONLY THESE SIZES AVAILABLE ONLY AVAILABLE IN TOP HUNG			
700 S	CUSTOM SIZES AVAILABLE	300	2100	2400
ROUGE	CUSTOM SIZES AVAILABLE	600	2100	2400
PALACE	CUSTOM SIZES AVAILABLE	900	2100	2400

PLEASE NOTE - ACTUAL SIZE = WIDTH & HEIGHT MINUS 10MM

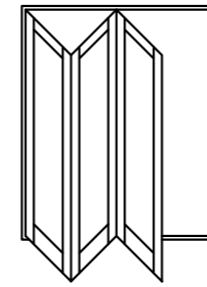
SLIDING DOOR TOPLIGHTS

When adding toplights to a sliding door it will change the design and enertia's toplights need a support (steel beam or lintle) if the width is > 2400mm. Please ask your consultant to custom design your sliding door when adding toplights

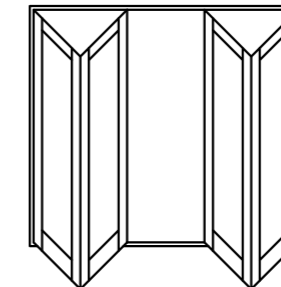


Vista Sliding Folding Doors

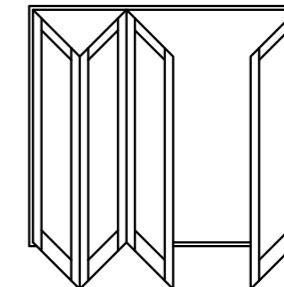
3 LEAF (L-R / R-L)



4 LEAF (CENTRE OPENING-CO)

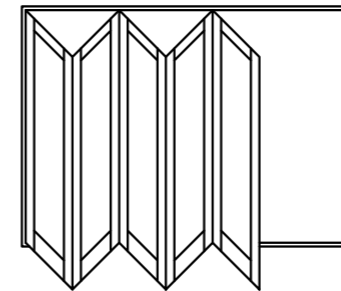


4 LEAF (L-R / R-L)

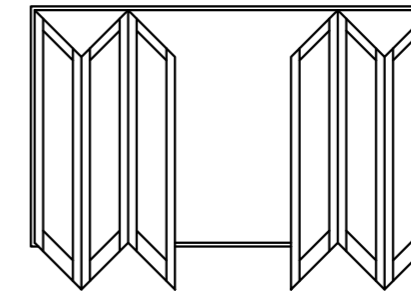


G2 DOORS WITH MIDRAIL AVAILABLE

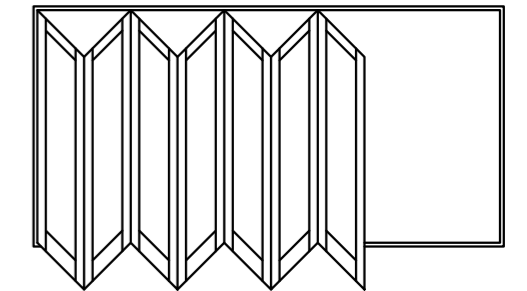
5 LEAF (L-R / R-L)



6 LEAF (CENTRE OPENING-CO)



7 LEAF (L-R / R-L)



2100 MM HIGH VISTA FOLD MATRIX

DOOR STILE WIDTH - 60MM

WIDTH	DOOR LEAF QTY				
	3	4	5	6	7
1800	LR / RL	CO			
2400	LR / RL	CO			
3000		CO/LR		CO	
3600		LR/RL	LR/RL	CO	
4200			LR/RL	CO	
4500			LR/RL		
5100				CO	
6000					LR/RL

2400 MM HIGH VISTA FOLD MATRIX

DOOR STILE WIDTH - 90MM

WIDTH	DOOR LEAF QTY				
	3	4	5	6	7
1800	LR / RL	CO			
2400	LR / RL	CO			
3000		LR/RL		CO	
3600			LR/RL	CO	
4200			LR/RL	CO	
4500			LR/RL		
5100				CO	
6000					LR/RL

STANDARD COLOURS

BRONZE, CHARCOAL, NATURAL, WHITE

SPECIAL COLOURS

AVAILABLE ON REQUEST-CUSTOM MADE

GLASS OPTIONS

ALL SAFETY LAMINATES IN 6.38 MM INCLUDE LOW-E
ALL TYPES OF DOUBLE GLAZING UP TO 23MM

CUSTOM SIZES

AVAILABLE

DOOR STILES

60MM OR 90MM

SILL OPTIONS

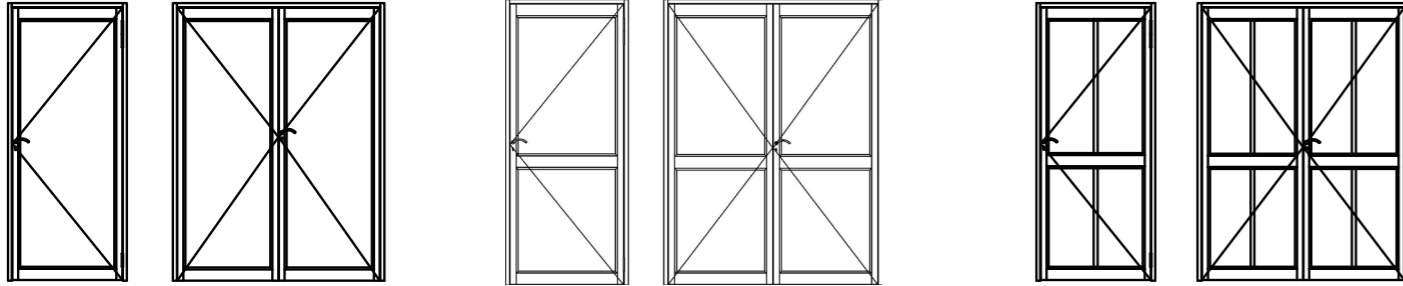
STANDARD, E TRACK, T TRACK

Hinged Doors - Pivot Doors - Sidelights

G1 DOOR

G2 DOOR

G4 DOOR



DOOR SIZES INCLUDING FRAME

	WIDTH	HEIGHT	HEIGHT	HEIGHT
SINGLE DOOR	900	2100	2400	2600
	1000	2100	2400	2600
PIVOT DOOR	1200	2100	2400	2600
DOUBLE DOOR	1600	2100	2400	
	1800	2100	2400	

PLEASE NOTE - ACTUAL SIZE = WIDTH & HEIGHT MINUS 10MM

PLEASE NOTE

STANDARD DOOR STYLE WIDTH IS 60MM FOR 2100MM HIGH DOORS
DOOR STILE WIDTH OF 90MM IS AVAILABLE ON REQUEST

SILL OPTIONS- WITH OR WITHOUT SILL

PLEASE SPECIFY IF YOU NEED THE DOOR TO OPEN INWARDS OR
OUTWARDS

PLEASE SPECIFY IF THE HANDLE MUST BE ON THE LEFT OR RIGHT
WHEN STANDING OUTSIDE



Top Hung Windows

Top Hung Windows

290	590	890	1190	1490	1790	1790	2090	2090	2390	2390
PT63	PT93	PT123L/R	PT153L/R	PT183L/R	PTT183	PTT183	PT213L/R	PTT213	PT243L/R	PTT243
590	590	590	590	590	590	590	590	590	590	590
PT66	PT93	PT126L/R	PT156L/R	PT186L/R	PTT186	PTT186	PT216L/R	PTT216	PT246L/R	PTT246
890	890	890	890	890	890	890	890	890	890	890
PT69	PT99	PT129L/R	PT159L/R	PT189L/R	PTT189	PTT189	PT219L/R	PTT219	PT249L/R	PTT249
1190	1190	1190	1190	1190	1190	1190	1190	1190	1190	1190
PT612	PT912	PT1212L/R	PT1512L/R	PT1812L/R	PTT1812	PTT1812	PT2112L/R	PTT2112	PT2412L/R	PTT2412
1190	1190	1190	1190	1190	1190	1190	1190	1190	1190	1190
PTT612	PTT912	PTT1212L/R	PTT1512L/R	PTT1812L/R	P4T1812	P4T1812	PTT2112L/R	P4T2112	PTT2412L/R	P4T2412
1490	1490	1490	1490	1490	1490	1490	1490	1490	1490	1490
PTT615	PTT915	PTT1215L/R	PTT1515L/R	PTT1815L/R	P4T1815	P4T1815	PTT2115L/R	P4T2115	PTT2415L/R	P4T2415
1790	1790	1790	1790	1790	1790	1790	1790	1790	1790	1790
PTT618	PTT918	PTT1218L/R	PTT1518L/R	PTT1818L/R	P4T1818	P4T1818	PTT2118L/R	P4T2118	PTT2418L/R	P4T2418
2090	2090									
PTT621	PTT921									

TOP HUNG WINDOWS AVAILABLE IN:

CASEMENT 30.5 - SINGLE GLAZING

CASEMENT 38 - SINGLE & DOUBLE GLAZING

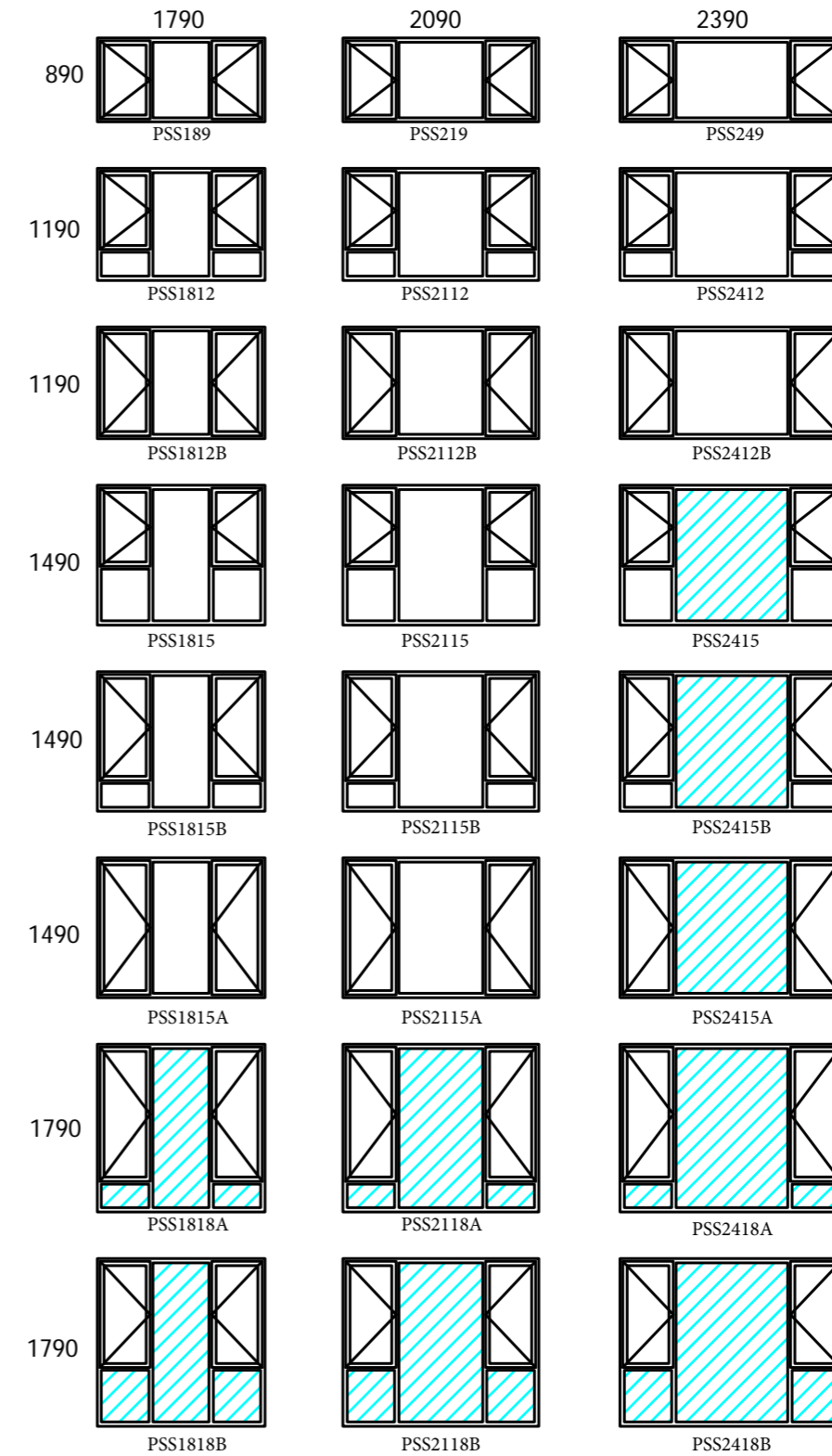
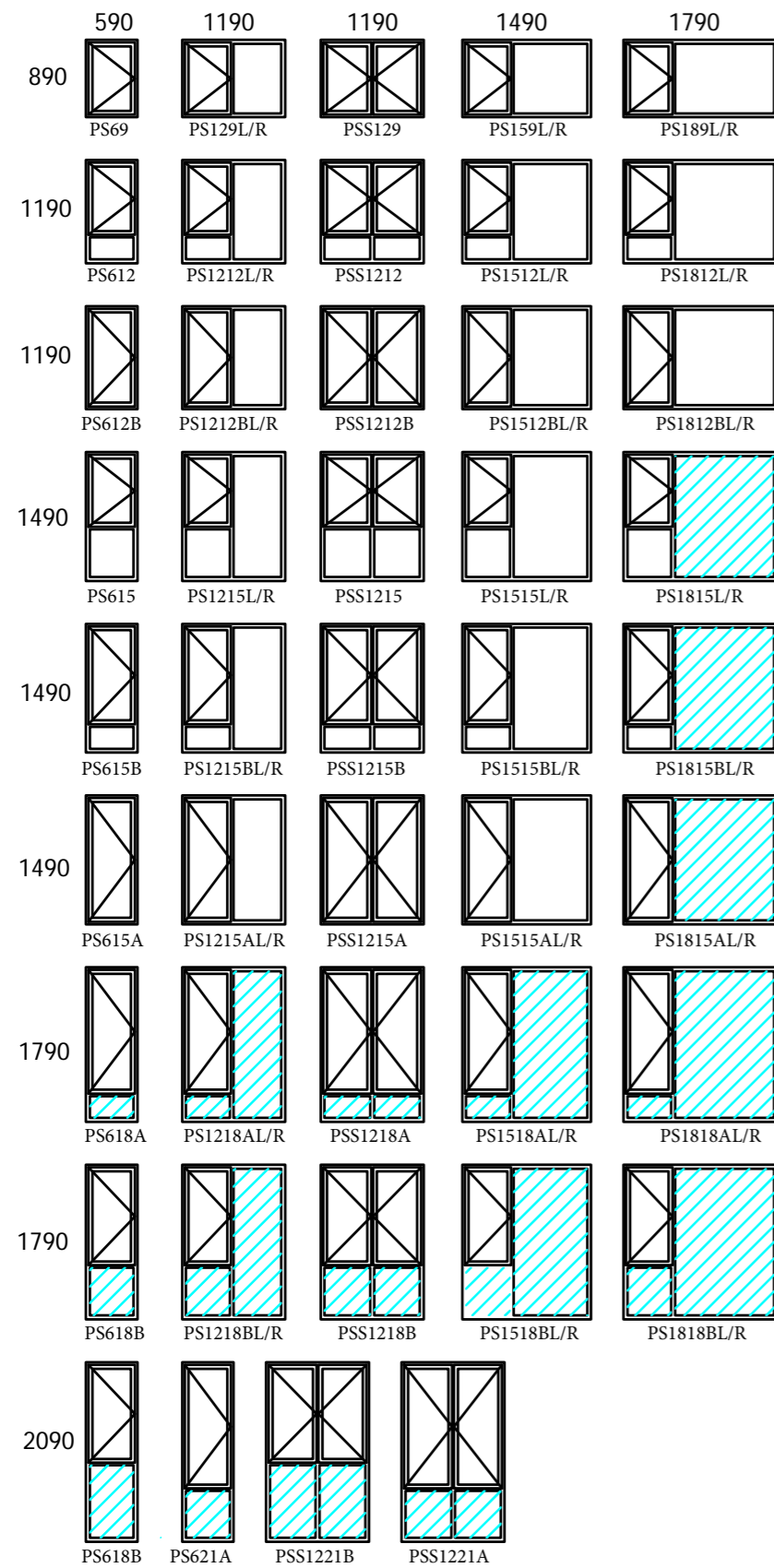
CUSTOM MADE WINDOWS AVAILABLE:

CASEMENT 30.5 - MAX SASH SIZE: 1000 MM WIDE X 750 MM HIGH

CASEMENT 38 - MAX SASH SIZE: 1500 MM WIDE X 1200 MM HIGH

Sidehung Windows

Sidehung Windows



SIDE HUNG WINDOWS AVAILABLE IN:

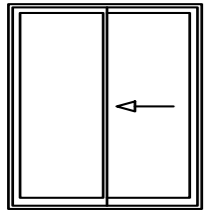
- CASEMENT 30.5 - SINGLE GLAZING
- CASEMENT 38 - SINGLE & DOUBLE GLAZING

CUSTOM MADE WINDOWS AVAILABLE:

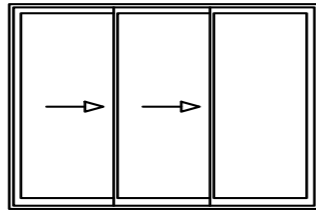
- CASEMENT 30.5 - MAX SASH SIZE: 600 MM WIDE X 1200 MM HIGH
- CASEMENT 38 - MAX SASH SIZE: 700 MM WIDE X 1500MM HIGH

Sliding and Stacking Windows

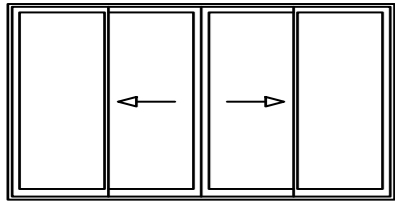
SINGLE SLIDING (0X /0X)



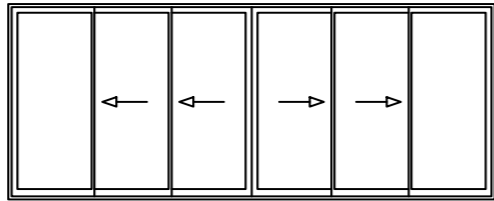
TRIPLE SLIDING (0XX /XX0)



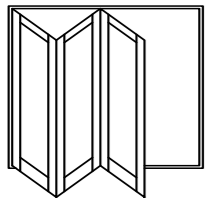
DOUBLE SLIDING (0XX0)



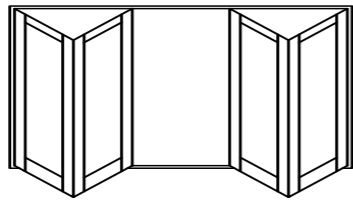
DOUBLE TRIPLE SLIDING (0XXXX0)



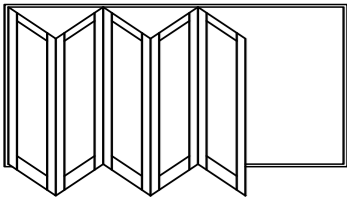
3 LEAF (L-R / R-L)



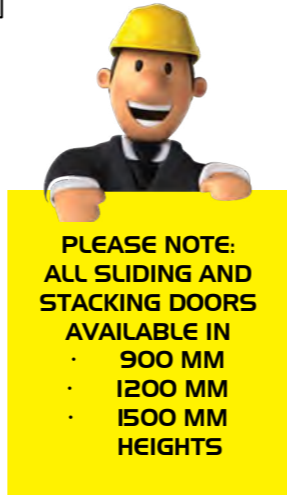
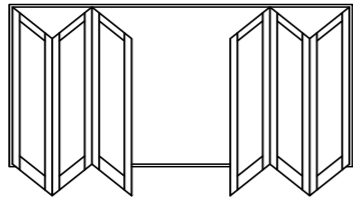
4 LEAF (CENTRE OPENING) -CO



5 LEAF (L-R / R-L)

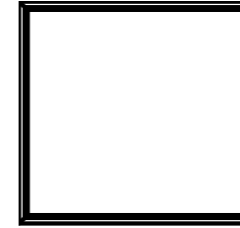


6 LEAF (CENTRE OPENING) - CO

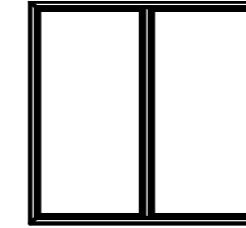


Fixed (Picture) Windows

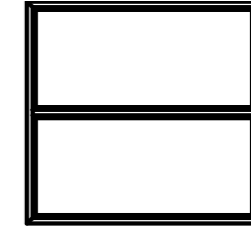
G1 FIX



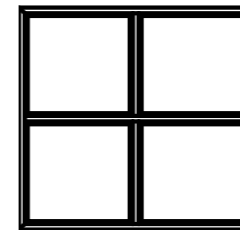
G2V FIX



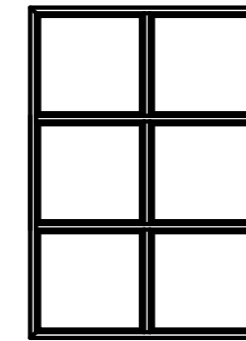
G2H FIX



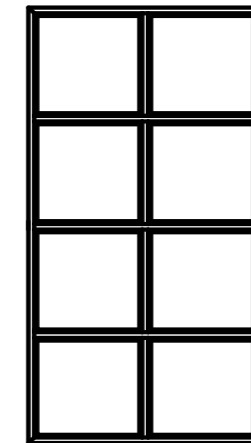
G4 FIX



G6 FIX



G8 FIX



STANDARD SLIDING DOOR SIZES

	SIZE		SECTIONS	
	WIDTH	HEIGHT	CASE 30.5	CLIP 44
G1 FIX	600	600	X	X
	600	2100		X
	900	900	X	X
	900	2100		X
	1200	1200	X	X
G2 FIX	1200	1200	X	X
	1500	1500	X	X
G4 FIX	1200	1200	X	X
	1600	1600	X	X
	1800	1800	X	X
G6 FIX	1200	1800	X	X
	1600	2400	X	X
G8 FIX	1600	3200		X

PLEASE NOTE :
KICK PLATES
AVAILABLE FOR
2100MM HIGH FIXES
ACTUAL SIZE:
WIDTH & HEIGHT
MINUS 10MM

SLIDING WINDOW OPTIONS				
	WIDTH	ELITE	700 S	PALACE
SINGLE SLIDING (0X / X0)	1500	X	X	X
	1800	X	X	X
	2100	X	X	X
	2400	X	X	X
TRIPLE SLIDING (0XX / XX0)	2400	X	X	X
	3000	X	X	X
DOUBLE SLIDING (0XX0)	3000	X	X	X
	3600	X	X	X
TRIPLE CO SLIDING (0XXXX0)	4200	X	X	X
	4500	X	X	X

STACKING WINDOW OPTIONS				
WIDTH	WINDOW LEAF QTY			
	3	4	5	6
1500	LR / RL			
1800	LR / RL			
2100	LR / RL	CO		
2400			LR/RL	
3000			LR/RL	CO
3600			LR/RL	
4200			LR/RL	CO
4500				CO

Awnings



	WIDTH	DEPTH	CLEAR	BRONZE
PVC BRACKET GREY OR BLACK	800	600	R600	R650
	1000	800	R980.00	R990.00
	1200	800	R1040.00	R1080.00
	1200	1000	R1480.00	R1580.00
	1500	1000	R1580.00	R1680.00
	1200	1200	R1880.00	R1980.00
	1500	1200	R2080.00	R2180.00
ALUM GREY	1000	1000	R1780.00	R1980.00
	1200	1000	R1880.00	R2080.00
	1500	1000	R1980.00	R2180.00

**INSTALLATION
FIRST AWNING
R450.00**

**SECOND AWNING
R250.00**

**DISCOUNT
10% ON SECOND +
AWNING WHEN
CONNECTED**

***All prices include VAT**



Frameless Showers

Dimensions for flat frameless glass shower enclosure		
Toughened safety glass thickness - mm	Maximum panel size - m	
	Doors and panels supporting doors	Fixed panels
6	1.6	2.1
8	2.0	3.3
10	2.2	4.0
Note: This table does not apply to curved glass		



GLASS PRINTING



GLAZING

EVA LAMINATING

GLASS INSERTS

ART GLASS

Key properties of EVA Film

Blocking of UV rays up to 99%

Water resistant - will not delaminate in high moisture areas

Encapsulation of wide variety materials

Low haze and yellow index

High impact resistance

Good sound insulation

Products

Switchable Glass (Privacy Glass)

Safety Glass

Toughened laminate - Balustrades & Fins

Normal safety lam

Safety mirrors

Multi Lam - Glass floor or glass steps

Encapsulation of multitude materials

Paper, photographs, wood veneer

PET printed films

Silk and fabrics

Polycarbonates and acrylics

- **New and repair Glazing**
- **Frameless Showers**
- **Aluminium Windows**
- **EVA Laminating**
- **Double Glazing**
- **Sandblasting**
- **Safety Mirrors**
- **Glass Printing**
- **Art Glass**
- **Awnings**

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