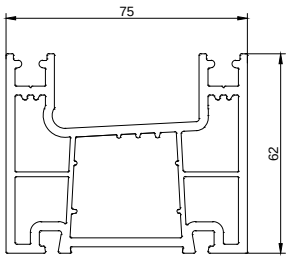
PROFİL LİSTESİ

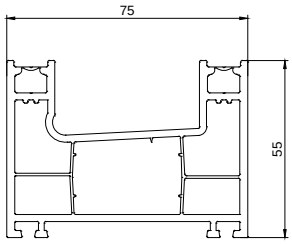
P 232 Sürme Seri Sistemi

Ana ve Yardımcı Profiller

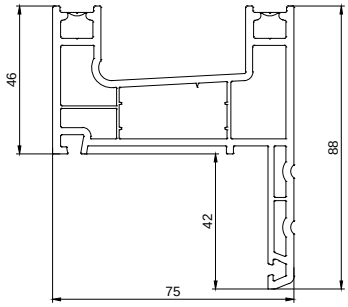
Sürme Kasa Profili (Çift Ray)
21206-01000



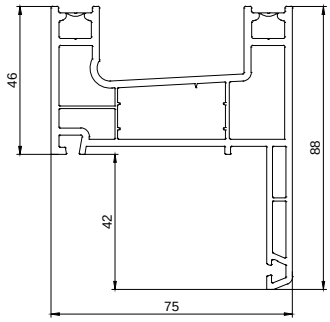
Yeni Sürme Kasa Profili(Çift Ray)
21206-14000



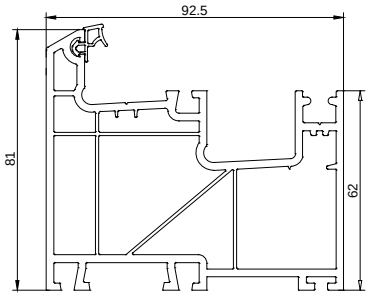
Yeni Sürme Kasa Profili(Dekoratif Pervazlı)



Yeni Sürme Kasa Profili(Düz Pervazlı)



Sürme Kasa Profili (Tek Ray)
21206-12000



Eco Sürme Kasa Profili (Tek Ray)
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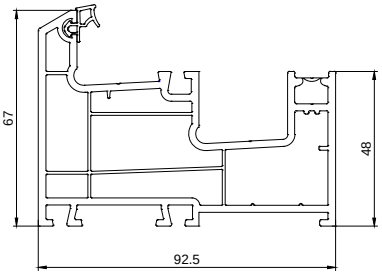
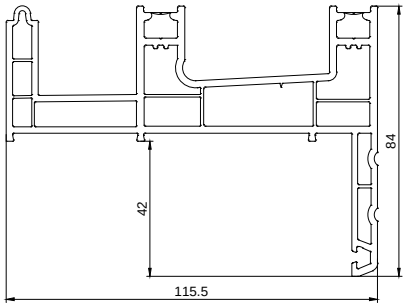
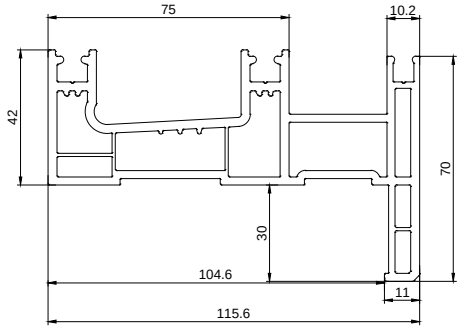


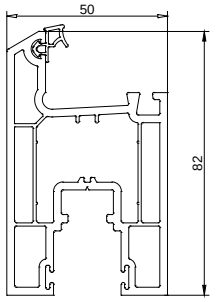
Dış Sineklik Raylı Sürme Kasa Profili



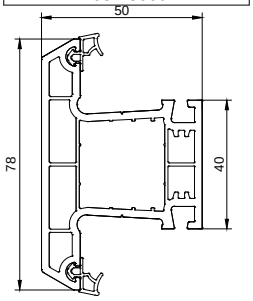
İç Sineklik Raylı Sürme Kasa Profili



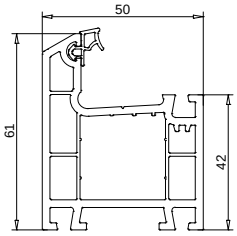
Sürme Kanat Profili
21206-15000



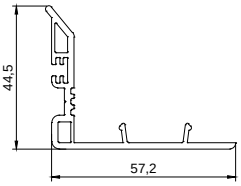
Orta Kayıt Profili
21205-13000



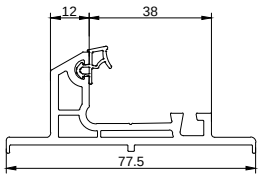
Kasa Profili
21205-11000



Sürme Kanat Arka Kapama
Kod:20107-01100

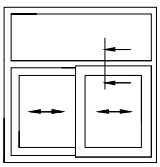


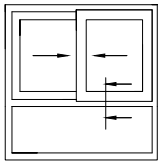
Çift Ray Adaptör Profili
21206-14000

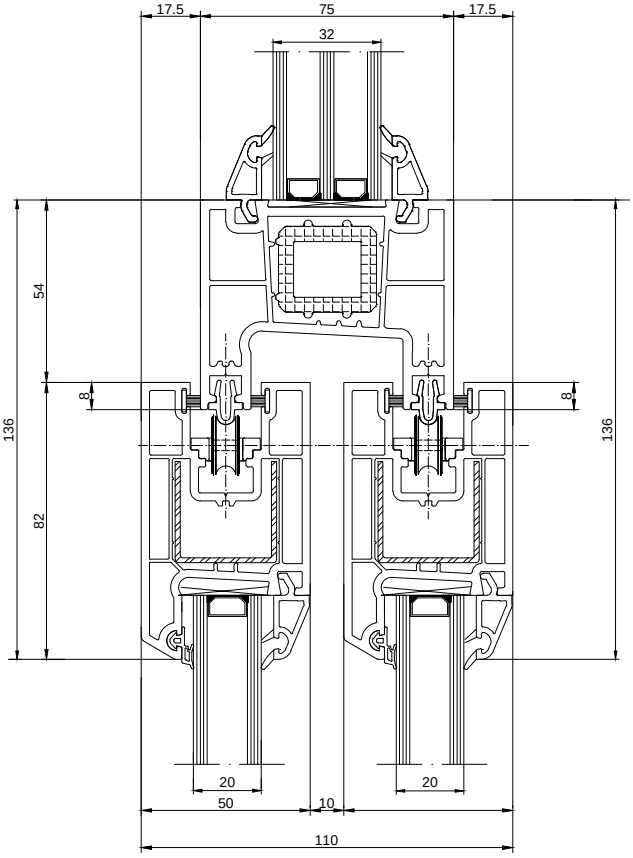


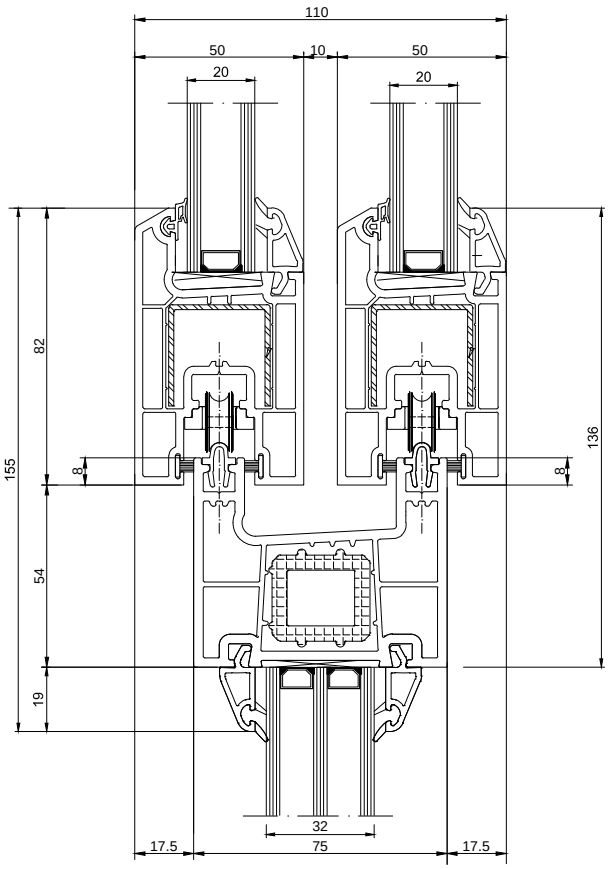
WINTECH®	PVC PROFILES SYSTEM OF (W 232)		232 SILIDING SERİE PROFİLE	
	1/1	THICK PVC	WINTECH	PAGE NO: 1

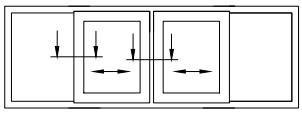
PRODUCTION LINE
PVC PROFILES SYSTEM OF (W 232)

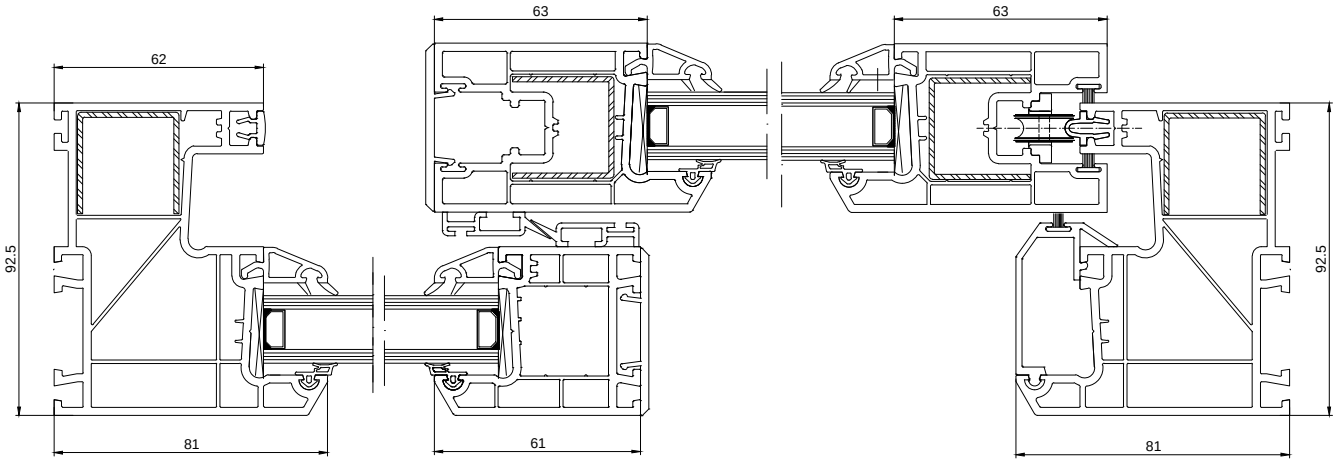






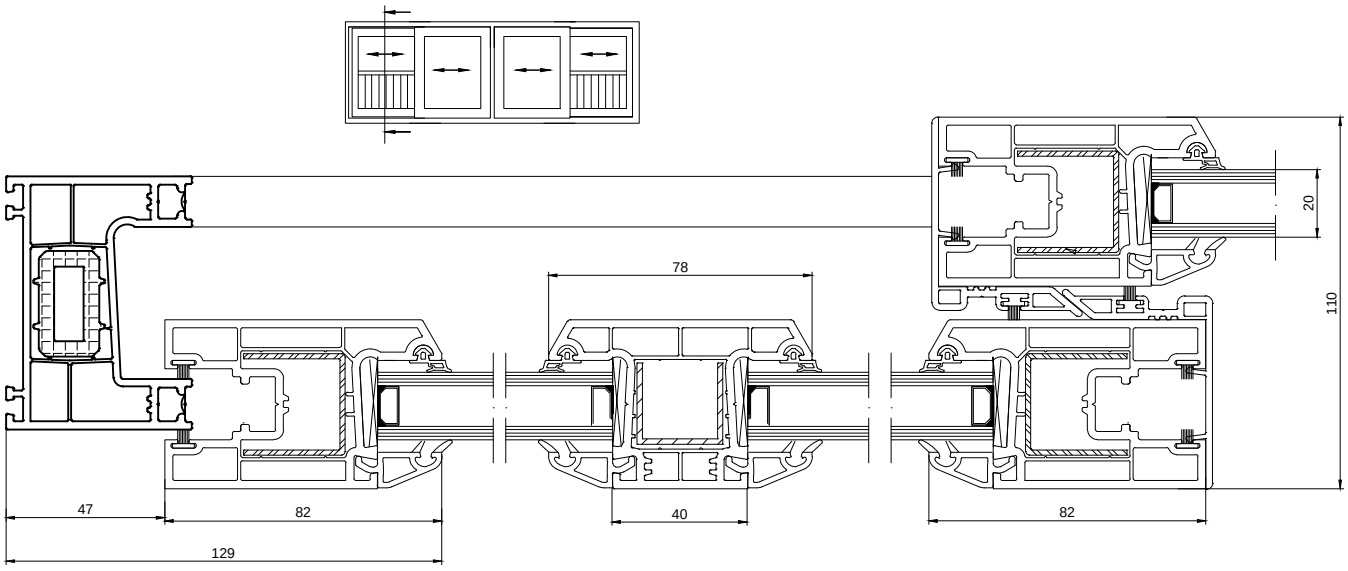


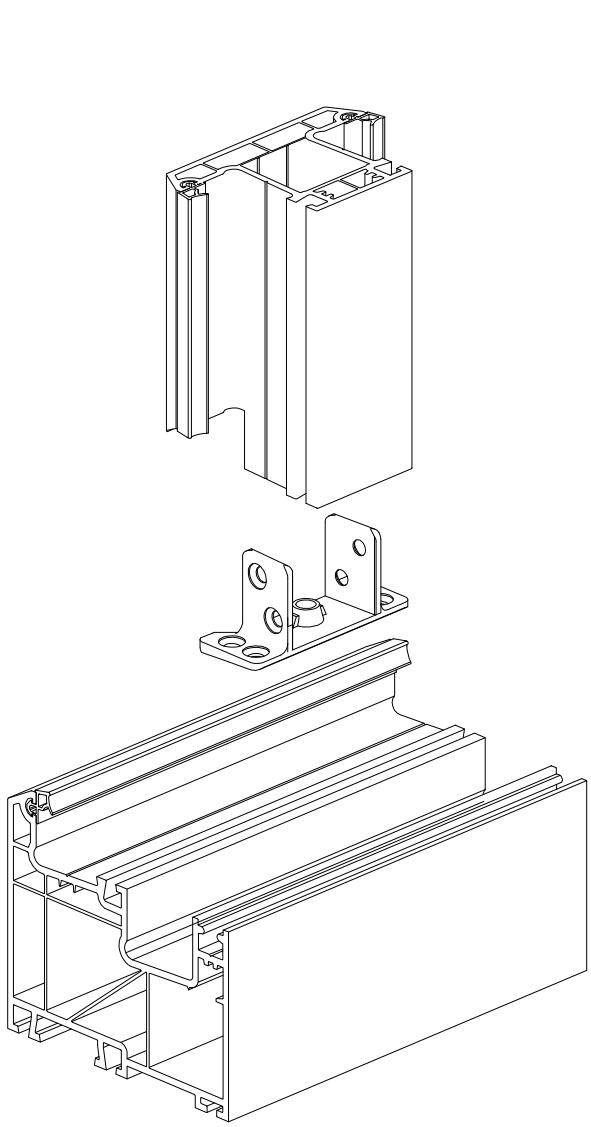


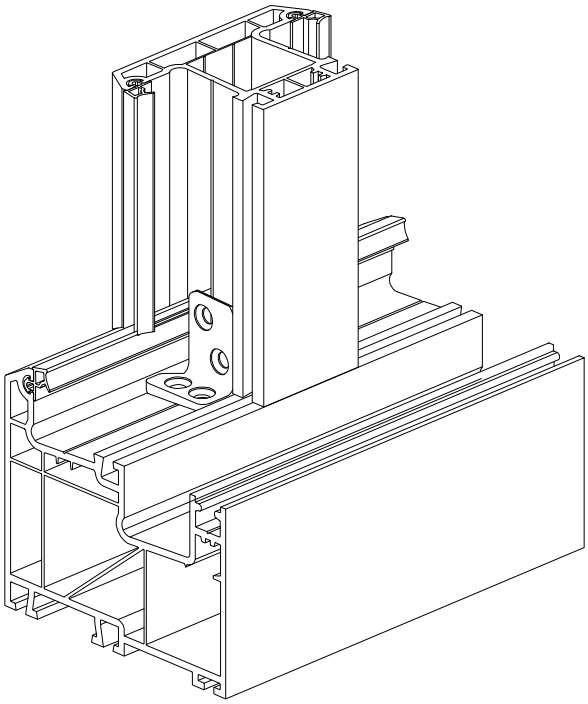


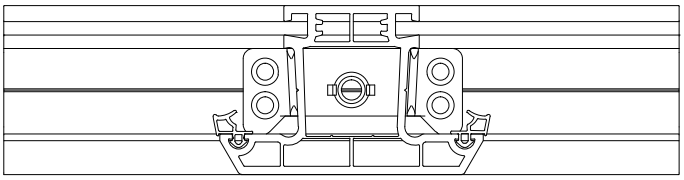
WINTECH®	PVC PROFILES SYSTEM OF (W 232)		232 SILIDING SERİE PROFİLE	
	1/1	THICK PVC	WINTECH	PAGE NO: 10

PRODUCTION LINE
PVC PROFILES SYSTEM OF (W 232)



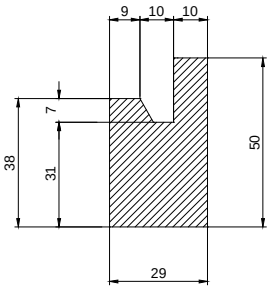




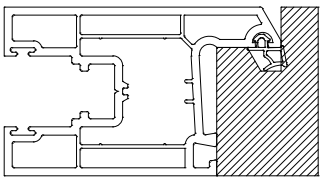


Mullion Fixing Block Montage

WINTECH®	PVC PROFILES SYSTEM OF (W 232)		232 SILIDING SERİE PROFİLE	
	1/1	THICK PVC	WINTECH	PAGE NO: 11

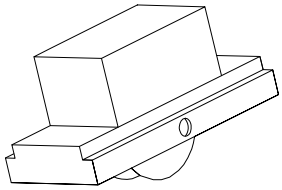


Welding Mould

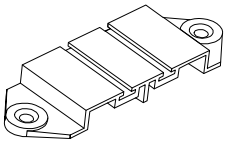


Sliding Sash Welding Mould

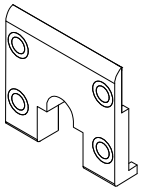
Sliding Roller Brass 34009-16010
Sliding Roller Plastic 34009-16020



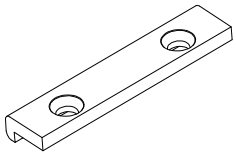
Sealing Bit Double Rail 34009-26010
Sealing Bit Single Rail 34009-26020



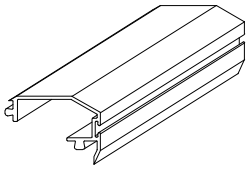
Sliding Sash end bit
34009-46010



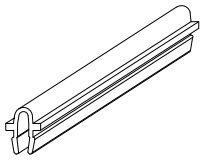
Upper bedding Piece for Sliding Rail
34009-26010



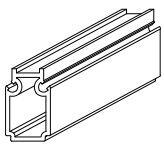
Sliding Frame Glazzing Channel Cover Alm.
34025-13010



Alm.Sliding System Rail Prf.
34025-11020

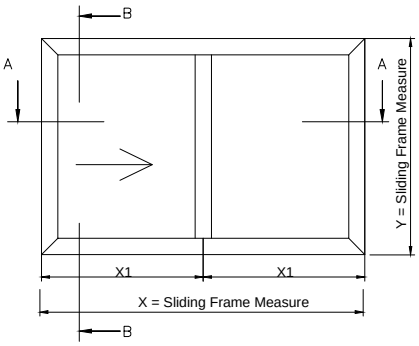


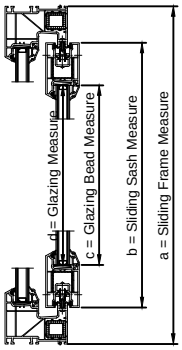
Double Sash Adaptor Prf.Alm.
20107-04000



PRODUCTION LINE
PVC PROFILES SYSTEM OF (W 232)

SLIDING FRAME (SINGLE RAIL)-SLIDING SASH COMBINATION





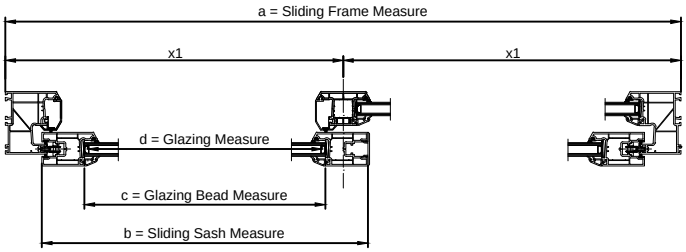
B - B

A - A

Sliding Frame - Sliding Sash	232 Sliding Serie
a	X + 6
b	X1 - 11
c	X1 - 143
d	X1 - 153

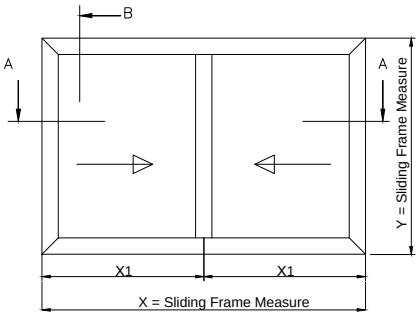
B - B

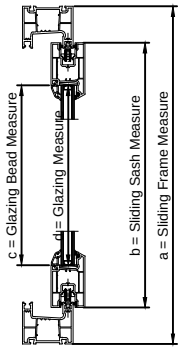
Sliding Frame - Sliding Sash	232 Sliding Serie
a	Y + 6
b	Y - 102
c	Y - 234
d	Y - 244



A - A

SLIDING FRAME (DOUBLE RAIL)-SLIDING SASH COMBINATION





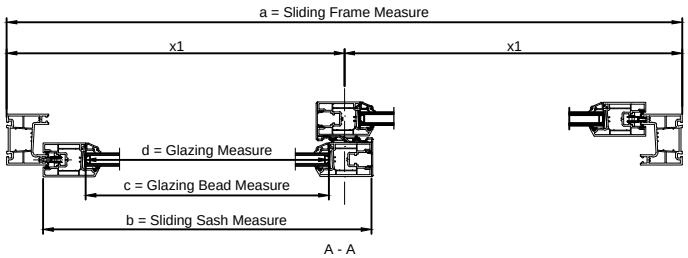
B - B

A - A

Sliding Frame - Sliding Sash	232 Sliding Serie
a	X + 6
b	X1 - 1
c	X1 - 140
d	X1 - 150

B - B

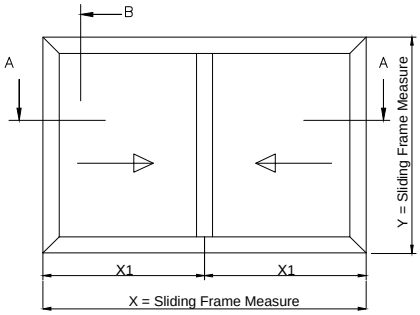
Sliding Frame - Sliding Sash	232 Sliding Serie
a	Y + 6
b	Y - 102
c	Y - 234
d	Y - 244

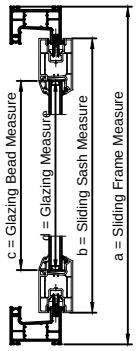


A - A

WINTECH®	PVC PROFILES SYSTEM OF (W 232)		232 SILIDING SERİE PROFİLE	
	1/1	THICK PVC	WINTECH	PAGE NO: 13

ECO SLIDING FRAME (DOUBLE RAIL)-SLIDING SASH COMBINATION





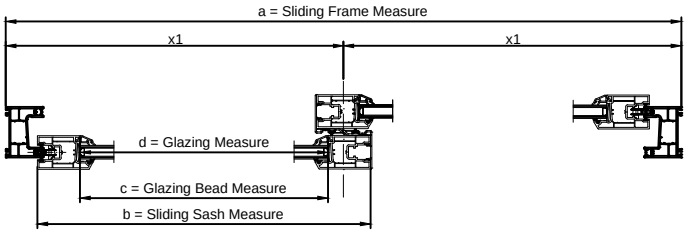
B - B

A - A

Sliding Frame - Sliding Sash	232 Sliding Serie
a	X + 6
b	X1 - 1
c	X1 - 133
d	X1 - 143

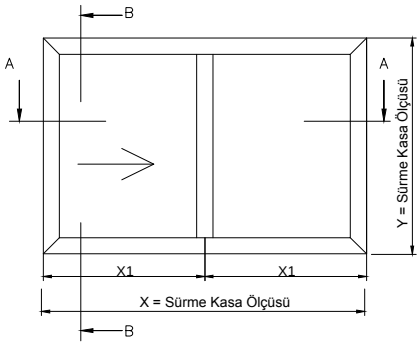
B - B

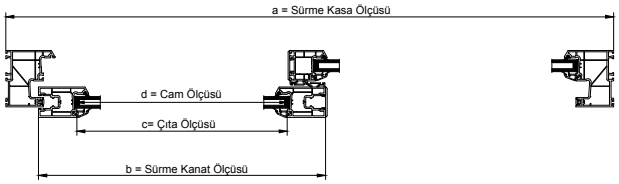
Sliding Frame - Sliding Sash	232 Sliding Serie
a	Y + 6
b	Y - 88
c	Y - 220
d	Y - 230



A - A

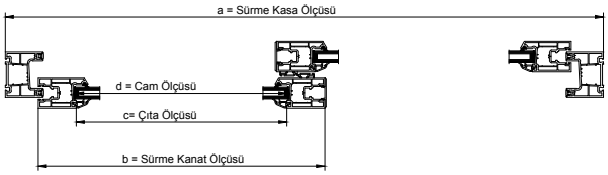
SÜRME KASA (TEK RAY) - SÜRME KANAT KOMBİNASYONU





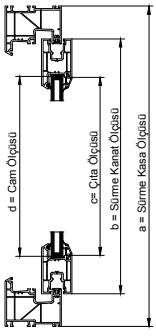
A - A KESİTİ

Sürme Kasa - Sürme Kanat	P 232 SÜRME Serisi
a	X + 6
b	X1 - 19
c	X1 - 151
d	X1 - 161



A - A KESİTİ

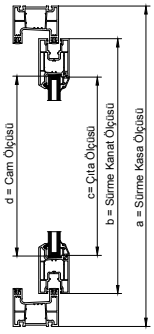
Sürme Kasa - Sürme Kanat	P 232 SÜRME Serisi
a	X + 6
b	X1 - 7
c	X1 - 139
d	X1 - 149



B - B KESİTİ

Sürme Kasa - Sürme Kanat	P 232 SÜRME Serisi
a	Y + 6
b	Y - 102
c	Y - 272
d	Y - 292

Sürme Kasa - Sürme Kanat	P 232 SÜRME Serisi
a	Y + 6
b	Y - 102
c	Y - 272
d	Y - 292



B - B KESİTİ

STATIC CALCULATION

WINTECH
PVC WİNDOW-DOOR -SHUTTER SYTEM

General Information :

According to DIN 18056, the mechanical strength of a joinery whose area is larger than 9m² or whose shorter side is longer than 2 m should be calculated without any exception. There is normally no necessity to carry out this calculation for windows fixed on the wall with short distances. However horizontal, vertical, mullion profiles and unbound fittings should always be calculated.

In DIN 18056 max. deflection for these is given as follows:

For thicknesses whose space of Retaining Point is up to 300 cm, f_{zul} = L / 200 Distance of Space
For thicknesses whose space of Retaining Point is more than 300 cm, f_{zul} = L / 300 Distance of Space

On the occasion that isolation glass is used, values of the manufacturer are used.
But general principle is f_{zul} = L / 300 Distance of Space

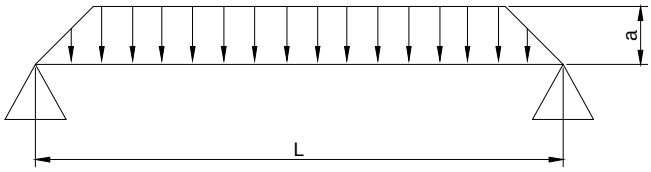
CALCULATION OF WINDOW:

a= Height of Loading cm

L= Distances Between Abutments cm

W= Wind Load : c.q (kN\m)

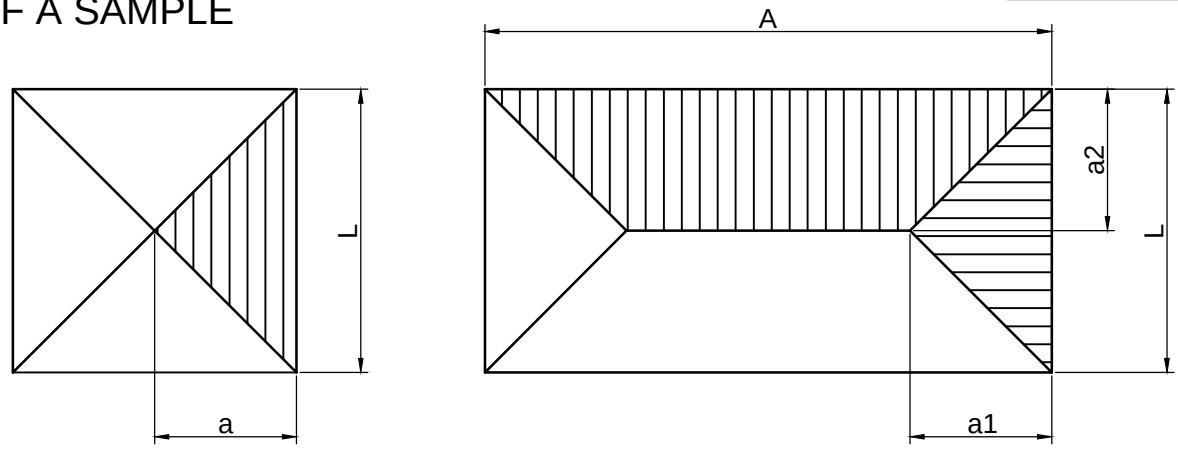
J = Moment of Inertia



c=1.2 *) * For standard buildings

Category of Forcing	Height of Building	Wind Speed (u)	Dynamic Pressure (q)		multiplied with coefficient c=1.2* p=c*q		Factor of Changing
	m	m/s	Kp/m2	KN/m2	Kp/m2	KN/m2	
A	0-8	28,30	50,00	0,50	60,00	0,60	1,00
B	8-20	35,80	80,00	0,80	96,00	0,96	1,60
C	20-100	42,00	110,00	1,10	132,00	1,32	2,20
Special Case	> 100	45,60	130,00	1,30	156,00	1,56	2,60

CALCULATION IS PERFORMED WITH THE HELP OF A SAMPLE

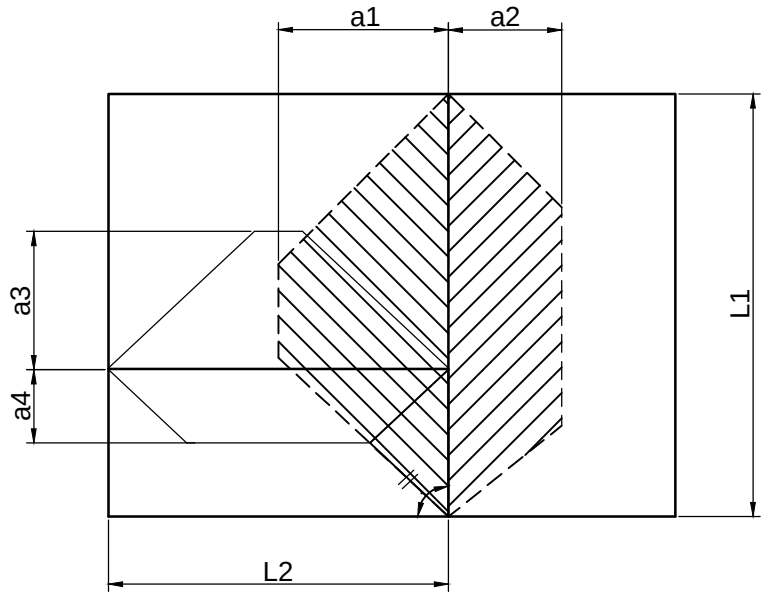


a = Width of Loading
L = Distance between Abutments

Distance between abutments L is length of floating beam, width "a" is calculated by considering the place where joints intersect. 4 loading triangles are obtained on a square.

There are 2 triangles and 2 trapeze loading on a rectangle.

SKETCH OF LOAD DISTRIBUTION ON WINDOW WITH VERTICAL AND MULLION PROFILE



a = Width of Loading (cm)
L = Distance of Abutment (cm)
If the graphic is drawn with scale, "a" is defined as width of loading.

GRAPHICAL LOAD DISTRIBUTION ON A WINDOW WITH VERTICAL AND MULLION PROFILE

The group to which loading belongs, depends on height of building on which the window will be installed.

For an example;
If a building has a height of 18 meters, this loading is included in group B and all the windows are accepted as group B from ground to 18th meter and necessary calculations are performed accordingly.

Modulus of Elasticity = 210.000 N/mm2

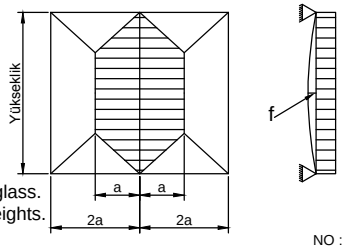
Height of Assembly 0 - 8m
Wind Pressure 60Kp/m2

SELECTION OF CORRECT T PROFILE WITH RESPECT TO WIND PRESSURE

Height of Sash h (cm) \ Width of Sash a (cm)	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
100	0,21	0,29	0,34	0,36															
110	0,28	0,39	0,48	0,52															
120	0,37	0,52	0,64	0,72	0,74														
130	0,47	0,67	0,84	0,95	1,01														
140	0,59	0,85	1,07	1,23	1,34	1,37													
150	0,73	1,06	1,34	1,56	1,72	1,80													
160	0,89	1,30	1,65	1,94	2,16	2,30	2,34												
170	1,07	1,56	2,00	2,38	2,67	2,87	2,97												
180	1,28	1,87	2,40	2,87	3,24	3,52	3,69	3,75											
190	1,50	2,21	2,85	3,42	3,89	4,26	4,51	4,64											
200	1,76	2,58	3,35	4,03	4,61	5,09	5,43	5,64	5,71										
210	2,04	3,00	3,90	4,71	5,42	6,01	6,46	6,77	6,93										
220	2,35	3,46	4,51	5,46	6,31	7,03	7,60	8,02	8,28	8,37									
230	2,68	3,96	5,17	6,29	7,28	8,15	8,86	9,41	9,78	9,97									
240	3,05	4,51	5,90	7,19	8,35	9,38	10,25	10,94	11,44	11,75	11,85								
250	3,60	5,32	6,97	8,51	9,92	11,17	12,25	13,13	13,81	14,27	14,50								
260	4,21	6,24	8,18	10,01	11,69	13,20	14,52	15,63	16,52	17,16	17,55	17,68							
270	4,90	7,27	9,54	11,69	13,68	15,49	17,09	18,46	19,59	20,44	21,02	21,32							
280	5,67	8,42	11,06	13,57	15,91	18,06	19,98	21,65	23,05	24,16	24,96	25,45	25,61						
290	6,53	9,70	12,76	15,67	18,41	20,93	23,21	25,22	26,93	28,33	29,40	30,12	30,48						
300	7,48	11,12	14,64	18,01	21,18	24,12	26,80	29,19	31,27	33,00	34,37	36,36	35,96	36,16					
310	8,53	12,69	16,72	20,59	24,25	27,66	30,79	33,62	36,09	38,20	39,92	41,23	42,11	42,55					
320	9,69	14,42	19,02	23,44	27,63	31,57	35,21	38,51	41,44	43,98	46,09	47,76	48,96	49,69	49,93				
330	10,97	16,33	21,54	26,57	31,36	35,88	40,07	43,90	47,34	50,36	52,92	56,00	56,58	57,64	58,17				
340	12,36	18,41	24,31	30,01	36,45	40,60	45,41	49,83	53,84	57,39	60,45	62,99	65,00	66,45	67,32	67,61			
350	13,88	20,69	27,33	33,76	39,92	45,77	51,26	56,34	60,97	65,11	68,73	71,80	74,29	76,17	77,44	78,08			

Category of Forcing	Height of Building m	Wind Speed (u) m/s	Dynamic Pressure (q) Kp/m2	Dynamic Pressure (q) KN/m2	c=1,2 *) * For standard buildings multiplied with coefficient c=1,2* p=c*q Kp/m2	c=1,2 *) * For standard buildings multiplied with coefficient c=1,2* p=c*q KN/m2	Factor of Changing
A	0-8	28,30	50,00	0,50	60,00	0,60	1,00
B	8-20	35,80	80,00	0,80	96,00	0,96	1,60
C	20-100	42,00	110,00	1,10	132,00	1,32	2,20
Special Case	> 100	45,60	130,00	1,30	156,00	1,56	2,60

This moment of inertia chart is for double-glazed systems.
f=H/300 <0,8 cm (Maximum permissiable deviation)
Consult glass firms to determine type and features of the glass.
Thickness of the glass alters for different distances and heights.



Modulus of Elasticity = 210.000 N/mm2

Height of Assembly 8 - 20m

Wind Pressure 96Kp/m2

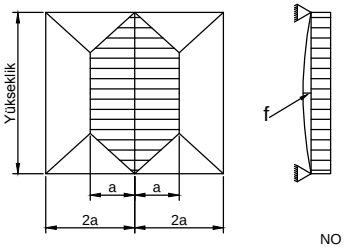
SELECTION OF CORRECT T PROFILE WITH RESPECT TO WIND PRESSURE

Height of Sash h (cm) \ Width of Sash a (cm)	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
100	0,33	0,46	0,54	0,57															
110	0,45	0,63	0,76	0,83															
120	0,59	0,84	1,02	1,14	1,18														
130	0,76	1,08	1,34	1,52	1,62														
140	0,95	1,36	1,71	1,98	2,14	2,20													
150	1,17	1,69	2,14	2,50	2,75	2,88													
160	1,43	2,07	2,64	3,11	3,46	3,67	3,74												
170	1,72	2,50	3,21	3,80	4,27	4,59	4,75												
180	2,04	2,99	3,84	4,58	5,19	5,63	5,91	6,00											
190	2,41	3,53	4,56	5,46	6,22	6,81	7,22	7,42											
200	2,81	4,13	5,35	6,45	7,38	8,14	8,69	9,03	9,14										
210	3,28	4,80	6,24	7,54	8,67	9,61	10,34	10,83	11,08										
220	3,75	5,54	7,21	8,74	10,09	11,24	12,16	12,84	13,25	13,39									
230	4,29	6,34	8,28	10,06	11,66	13,04	14,18	15,06	15,65	15,95									
240	4,88	7,22	9,44	11,50	13,37	15,01	16,39	17,50	18,30	18,79	18,96								
250	5,75	8,52	11,15	13,62	15,87	17,87	19,60	21,02	22,10	22,83	23,21								
260	6,74	9,98	13,09	16,01	18,70	21,12	23,24	25,02	26,43	27,46	28,08	28,29							
270	7,84	11,63	15,27	18,70	21,89	24,78	27,35	29,54	31,34	32,71	33,64	34,11							
280	9,07	13,47	17,70	21,71	25,46	28,89	31,96	34,64	36,88	38,65	39,94	40,72	40,98						
290	10,45	15,52	20,41	25,08	29,45	33,48	37,13	40,35	43,09	45,33	47,03	48,18	48,76						
300	11,97	17,79	23,43	28,81	33,88	38,59	42,88	46,71	50,03	52,80	54,99	56,58	57,54	57,88					
310	13,66	20,31	26,76	32,94	38,79	44,26	49,27	53,78	57,75	61,13	63,87	65,96	67,37	68,08					
320	15,51	23,08	30,43	37,50	44,22	50,51	56,33	61,61	66,30	70,36	73,74	76,41	78,34	79,50	79,89				
330	17,54	26,12	34,47	42,51	50,18	57,40	64,11	70,24	75,75	80,57	84,67	88,00	90,52	92,22	93,07				
340	19,78	29,46	38,90	48,01	56,72	64,96	72,65	79,74	86,14	91,82	96,72	100,79	104,00	106,31	107,71	108,18			
350	22,21	33,10	43,73	54,02	63,88	73,24	82,01	90,14	97,55	104,18	109,97	114,88	118,86	121,88	123,91	124,92			

c=1.2 *) * For standard buildings

Category of Forcing	Height of Building	Wind Speed (u)	Dynamic Pressure (q)		multiplied with coefficient c=1.2* p=c*q		Factor of Changing
	m	m/s	Kp/m2	KN/m2	Kp/m2	KN/m2	
A	0-8	28,30	50,00	0,50	60,00	0,60	1,00
B	8-20	35,80	80,00	0,80	96,00	0,96	1,60
C	20-100	42,00	110,00	1,10	132,00	1,32	2,20
Special Case	> 100	45,60	130,00	1,30	156,00	1,56	2,60

This moment of inertia chart is for double-glazed systems.
f=H/300 <0,8 cm (Maximum permissiable deviation)
Consult glass firms to determine type and features of the glass.
Thickness of the glass alters for different distances and heights.



Modulus of Elasticity = 210.000 N/mm2

Height of Assembly 20 - 100m
Wind Pressure 132Kp/m2

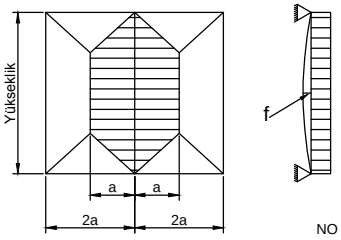
SELECTION OF CORRECT T PROFILE WITH RESPECT TO WIND PRESSURE

Height of Sash h (cm) \ Width of Sash a (cm)	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
100	0,46	0,63	0,75	0,79															
110	0,62	0,87	1,05	1,14															
120	0,81	1,15	1,41	1,57	1,63														
130	1,04	1,48	1,84	2,10	2,23														
140	1,30	1,88	2,35	2,72	2,94	3,02													
150	1,61	2,33	2,95	3,44	3,78	3,96													
160	1,96	2,85	3,63	4,27	4,75	5,05	5,15												
170	2,36	3,44	4,41	5,23	5,87	6,31	6,53												
180	2,81	4,11	5,28	6,30	7,13	7,74	8,12	8,25											
190	3,31	4,85	6,27	7,51	8,56	9,37	9,92	10,20											
200	3,87	5,68	7,36	8,86	10,15	11,19	11,95	12,41	12,57										
210	4,48	6,60	8,58	10,36	11,92	13,21	14,21	14,89	15,24										
220	5,16	7,61	9,91	12,01	13,88	15,46	16,72	17,65	18,22	18,41									
230	5,90	8,72	11,38	13,83	16,03	17,93	19,50	20,70	21,52	21,94									
240	6,71	9,93	12,98	15,81	18,38	20,64	22,54	24,06	25,17	25,84	26,07								
250	7,91	11,71	15,34	18,72	21,82	24,58	26,95	28,90	30,39	31,40	31,91								
260	9,26	13,73	18,00	22,01	25,71	29,04	31,95	34,40	36,34	37,75	38,61	38,90							
270	10,78	15,99	20,99	25,71	30,10	34,08	37,60	40,62	43,09	44,98	46,25	46,90							
280	12,47	18,52	24,34	29,86	35,01	39,73	43,95	47,63	50,70	53,15	54,91	55,98	56,34						
290	14,36	21,34	28,07	34,48	40,49	46,04	51,05	55,47	59,25	62,33	64,67	66,25	67,05						
300	16,46	24,46	32,21	39,61	46,59	53,06	58,97	64,23	66,79	72,60	75,61	77,79	79,11	79,55					
310	18,77	27,92	36,79	45,30	53,34	60,85	67,75	73,95	79,41	84,05	87,83	90,70	92,63	93,60					
320	21,32	31,73	41,84	51,56	60,80	69,45	77,45	84,72	91,17	96,75	101,40	105,06	107,71	109,31	109,85				
330	24,12	35,92	47,40	58,46	69,00	78,93	88,15	96,59	104,16	110,79	116,42	120,99	124,47	126,80	127,97				
340	27,19	40,51	53,48	66,01	77,99	89,32	99,90	109,64	118,45	126,26	132,99	138,59	143,00	146,18	148,10	148,75			
350	30,54	45,62	60,13	74,28	87,83	100,70	112,77	123,94	134,13	143,24	151,21	157,96	163,43	167,58	170,37	171,77			

c=1,2 *) * For standard buildings

Category of Forcing	Height of Building m	Wind Speed (u) m/s	Dynamic Pressure (q) Kp/m2	Dynamic Pressure (q) KN/m2	multiplied with coefficient c=1,2* p=c*q Kp/m2	multiplied with coefficient c=1,2* p=c*q KN/m2	Factor of Changing
A	0-8	28,30	50,00	0,50	60,00	0,60	1,00
B	8-20	35,80	80,00	0,80	96,00	0,96	1,60
C	20-100	42,00	110,00	1,10	132,00	1,32	2,20
Special Case	> 100	45,60	130,00	1,30	156,00	1,56	2,60

This moment of inertia chart is for double-glass system.
f=H/300 <0,8 cm (Maximum permissiable deviation)
Consult glass firms to determine type and features of the glass.
Thickness of the glass alters for different distances and heights.

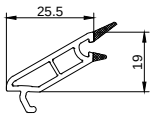


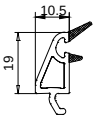
PROFİL LİSTESİ

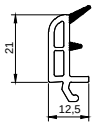
P 232 Sürme Seri Sistemi

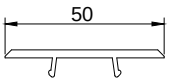
Ana ve Yardımcı Profiller

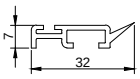
Tek Cam Çıtası (4 mm)	Çift Cam Çıtası (20mm)	Isı Cam Çıtası (24mm)	Kanat Kapama Profili	Kanat Ara Bindirme
20101-03100	20101-03000	20101-01300	20107-01000	20107-03000



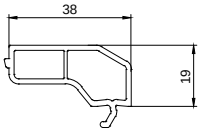


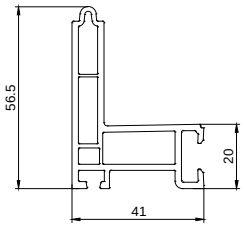


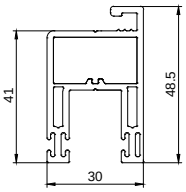


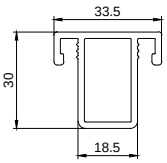


PVC Sürme Kasa Cam Yuvası Kapağı	Sineklik Ray Profili	Screen Sliding Sash Profile	Screen Mullion Profile
		21408-05000	21408-03000

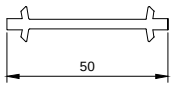


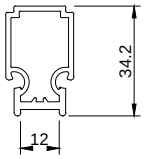


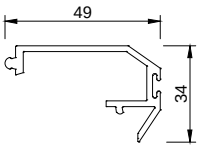




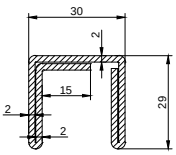
Bağ Profili	Kasa Kanal Kapama	Alüminyum Sürme Ray	Alm. Sürme Kilitleme Adaptör Profili	Alm. Sürme Kasa Cam Yuvası Kapağı
20107-02000	20107-02000	34025-11020	34025-12010	34025-13010



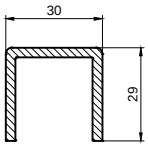




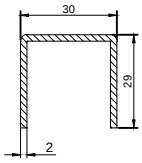
Sliding System Frame - Sash Reinforcement Profiles



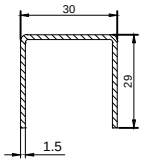
2mm lik Ix = 4,0 cm4
Iy = 2,38 cm4



3mm lik Ix = 3,50 cm4
Iy= 2,06 cm4

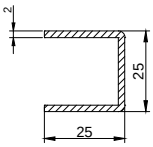


2mm lik Ix = 2,53 cm4
Iy= 1,45 cm4



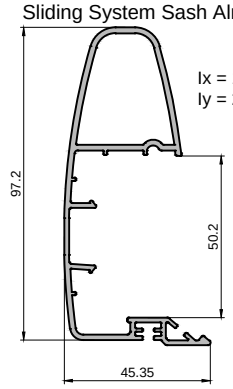
1,5mm lik Ix = 1,9 cm4
Iy= 1,1 cm4

Mullion Reinforcement Profiles-Sliding System

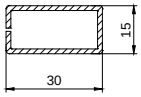


2mm lik Ix = 1,45 cm4
Iy = 0,9 cm4

Sliding System Sash Alm. Cover Profile

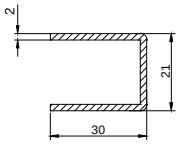


Ix = 16,5 cm4
Iy = 2,58 cm4

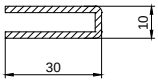


Sliding System Eco Frame
Reinforcement Profiles

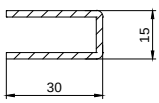
Sliding System New Frame
Reinforcement Profiles



2mm lik Ix = 1,56 cm4
Iy= 1,46 cm4



Sinekikli Pervazlı Kasa Destek Sacı



Eko Yeni Sürme Kasa Profilleri destek sacı

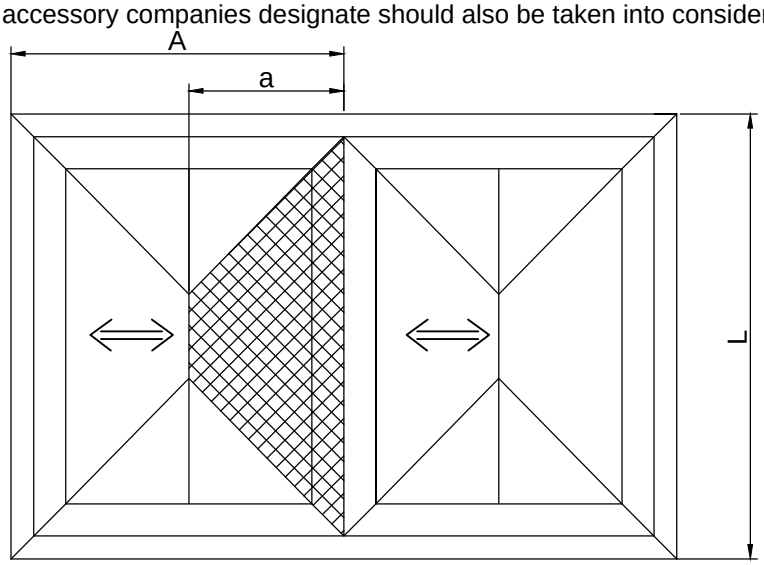
WINTECH®	PVC PROFILES SYSTEM OF (W 232)		232 SILIDING SERİE PROFİLE	
	1/1	THICK PVC	WINTECH	PAGE NO: 2

STATIC CALCULATION

The durability and strength of the window against wind depends on the profile of PVC window and moment of inertia values (Ix,Iy) of galvanized reinforcement that is embedded into the window. The basic function of the reinforcements which are used for window and door joineries made of unplasticized PVC is to provide required mechanical strength which enables PVC window and door joineries to perform their required functions. Shape and wall thickness of reinforcement that is used, enables to determine maximum joinery measurements which are also related with the height of place where the window will be placed and the wind force.

General Principles:

Maximum outside dimension of the sash is demonstrated on graphics.
Required maximum field is given as m².
Weight of glass/panel is accepted as 25 kg/m² while maximum measurements are estimated.
These measurements are valid for white frames.
Limitations that accessory companies designate should also be taken into consideration.

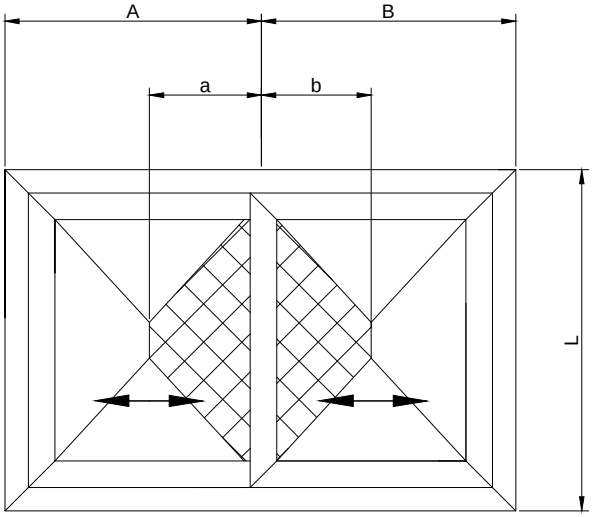


$Ix = \frac{W^4 L.a}{1920.E.f}(25\text{-}40\left(\frac{a}{L}\right)^2 + 16\left(\frac{a}{L}\right)^4)$
Ix = Required Moment of Inertia (cm)
W = Wind Load (N/mm²)
E = Modulus of Elasticity (E_{PVC} = 2600 N/mm2 / $E_{Destek\ Saci}$ = 210.000N/mm²)
f = Allowable Deflection (L / 300) cm
a = Width of Loading (cm)
L = Space of Abutment (cm)

0 - 8 m	60 kp/m²	600 Pa	0,0006 N/mm²
8 - 20 m	96 kp/m²	960 Pa	0,00096 N/mm²
20 - 100 m	132 kp/m²	1320 Pa	0,00132 N/mm²
> 100 m	156 kp/m²	1560 Pa	0,00156 N/mm²

1 kp/m² = 10 Pa

232 SERIAL
STATIC CALCULATION
EXAMPLE:



Window's Height L = ...200....cm

A = ...100....cm

B = ...100....cm

a = ...50....cm

b = ...50....cm

Building's Height h = ...8....m

Wind Pressure q=....50....kp/m2

Constant Multiplier c = 1,2

Wind Load w= q*c =....50x1,2=60....kp/m2 = 0,0060 kp/cm2

Allowed Deflection L/300 f= ....200/300=0,67....cm

Elasticity Module E= 2,1.10^{6}kp/cm2

Ix = Required Moment of inertia (cm) $Ix_1=\frac{W\,L^4.a}{1920.E.f}\left(25-40\left(\frac{a}{L}\right)^2+16\left(\frac{a}{L}\right)^4\right)$

$Ix_2=\frac{W\,L^4.b}{1920.E.f}\left(25-40\left(\frac{b}{L}\right)^2+16\left(\frac{b}{L}\right)^4\right)$

Note: Window System "12/20-9"

232 SERIAL
STATIC CALCULATION
EXAMPLE:

$$Ix_1=\frac{0{,}0060*200^4*50}{1920*2100000*0{,}67}\left(25-40\left(\frac{50}{200}\right)^2+16\left(\frac{50}{200}\right)^4\right)=4{,}01\ cm^4$$

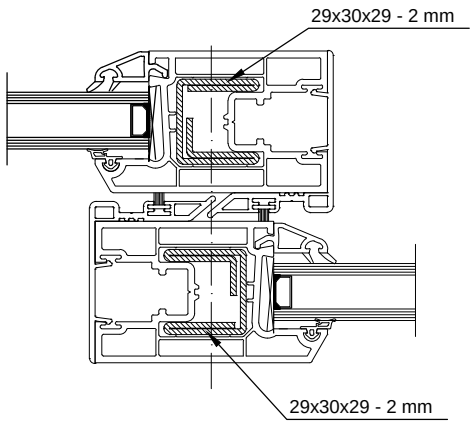
$$Ix_2=\frac{0{,}0060*200^4*50}{1920*2100000*0{,}67}\left(25-40\left(\frac{50}{200}\right)^2+16\left(\frac{50}{200}\right)^4\right)=4{,}01\ cm^4$$

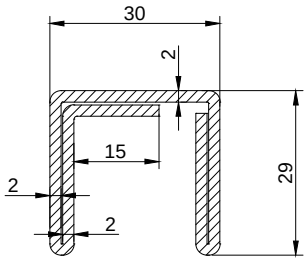
180 cm height and 50 cm widht are taken as maximum values in the table

Total $Ix = Ix_1 + Ix_2 = 4{,}01+4{,}01 = 8{,}02\ cm^4$

Total in the table $Ix = Ix_1 + Ix_2 = 4{,}03+4{,}03 = 8{,}06 cm^4$

With this calculation, the table's accuracy was examined.





We got a sash system + mullion + sash

Sash reinforcement profile Ix = 29x30x29 - 2mm = $4{,}03\ cm^4$

Sash reinforcement profile Ix = 29x30x29 - 2mm = $4{,}03\ cm^4$

Total in the systemi Ix= $4{,}03+4{,}03 = 8{,}06\ cm^4$

Total Ix of the used reinforcement profiles > the required Ix

$8{,}06\ cm^4 > 8{,}02\ cm^4$ with their reinforcement profiles a window work could be made in this measurement

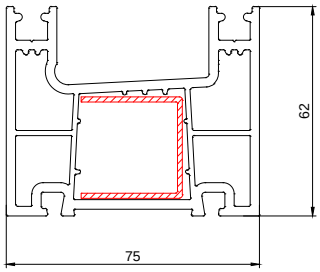
Note: Window System "12/20-9"

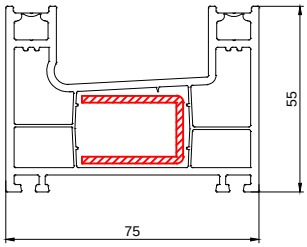
TABLE OF WIND PRESSURE

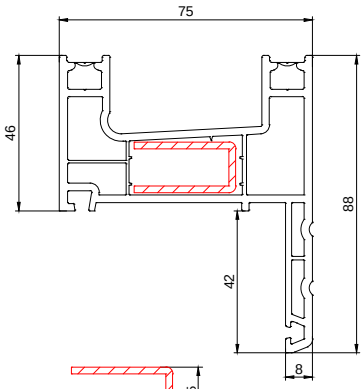
Pa	m/sec	Km/h	mm H_2O	MPH	Psf
75	11,18	40,25	7,65	25,01	1,56
100	12,91	46,48	10,20	28,88	2,08
150	15,81	56,92	15,30	35,36	3,13
200	18,26	65,73	20,40	40,84	4,17
250	20,41	73,48	25,50	45,88	5,22
300	22,36	80,50	30,60	50,02	6,26
400	25,82	92,95	40,80	57,75	8,35
500	28,87	103,92	51,00	64,57	10,44
600	31,62	113,84	61,20	70,73	12,53
700	34,16	122,69	71,40	76,23	14,62
800	36,51	131,45	81,60	81,67	16,71
900	38,73	139,43	91,80	86,63	18,80
1000	40,82	146,97	102,00	91,32	20,89
1100	42,82	154,14	112,20	95,77	22,97
1200	44,72	161,00	122,40	100,04	25,06
1300	46,55	167,57	132,60	104,12	27,15
1400	48,30	173,90	142,80	108,05	29,24
1500	50,00	180,00	153,00	111,84	31,33
1600	51,64	185,90	163,20	115,51	33,42
1700	53,23	191,62	173,40	119,06	35,51
1800	54,77	197,18	183,60	122,52	37,60
1900	56,27	202,58	193,80	125,87	39,69
2000	57,74	207,85	204,00	129,15	41,78
2100	59,16	212,98	214,20	132,33	43,86
2200	60,55	218,00	224,40	135,45	45,95
2300	61,91	222,90	234,60	138,50	48,04
2400	63,25	227,68	244,80	141,47	50,13
2500	64,55	232,38	255,00	144,39	52,22
3000	70,71	254,56	306,00	158,17	62,67
4000	81,65	293,94	408,00	182,64	83,56
5000	91,29	328,63	510,00	204,20	104,45
6000	100,00	360,00	612,00	223,69	125,34

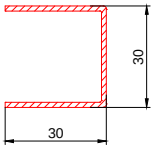
Note: Window System "12/20-9"

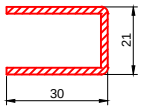
PRODUCTION LINE
PVC PROFILES SYSTEM OF (W 232)

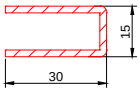


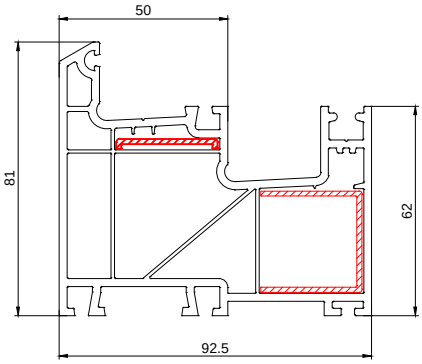


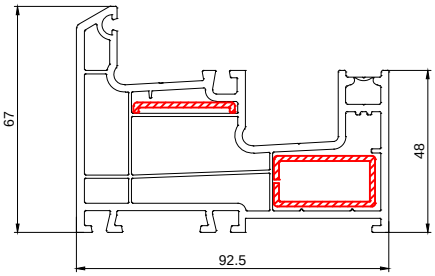


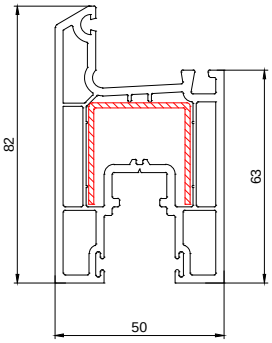


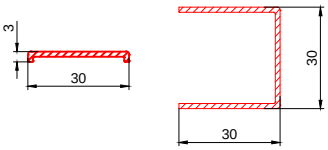


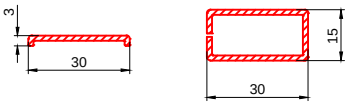


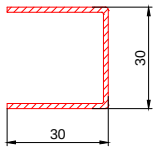


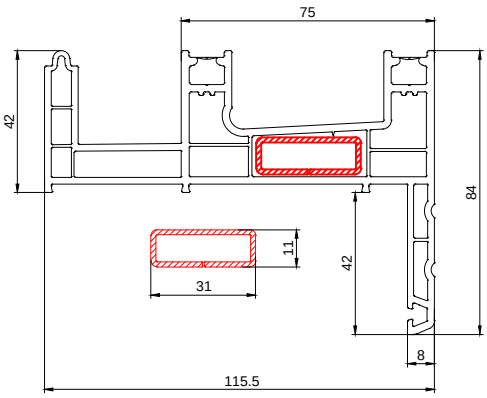


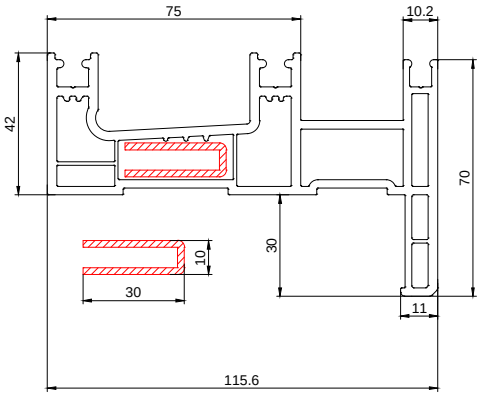


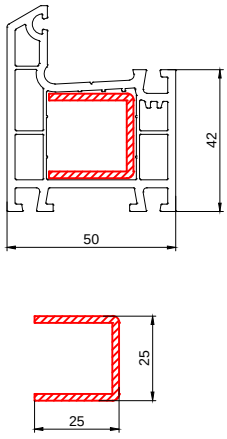






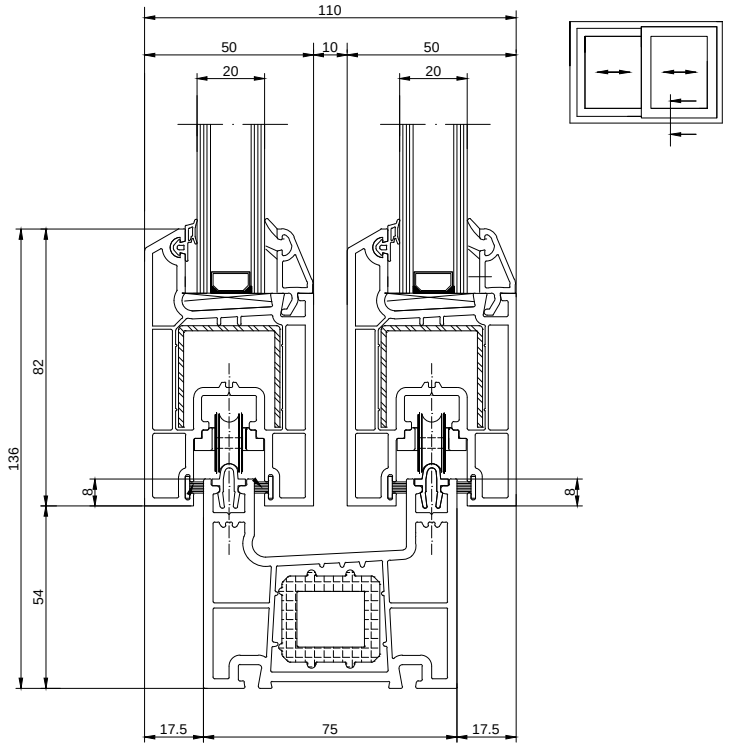


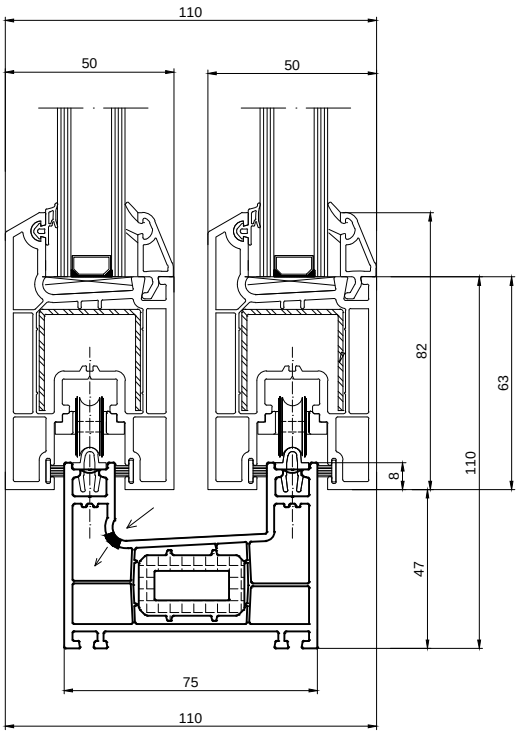


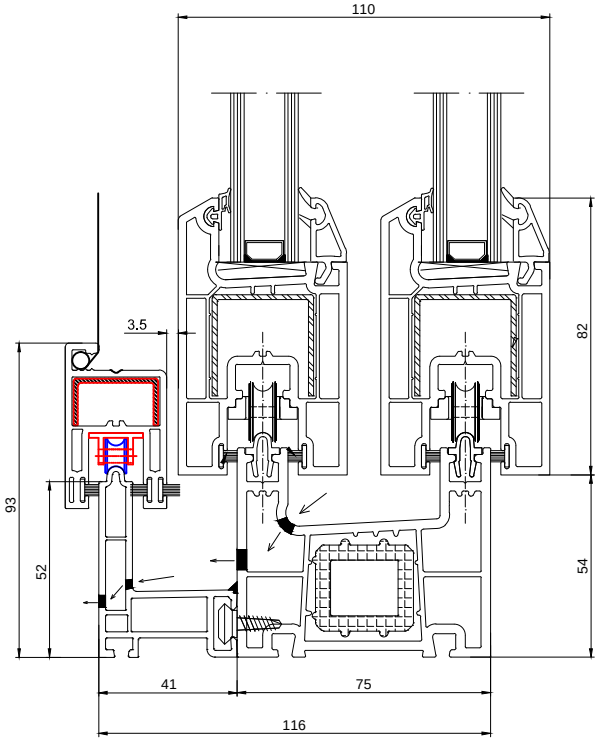


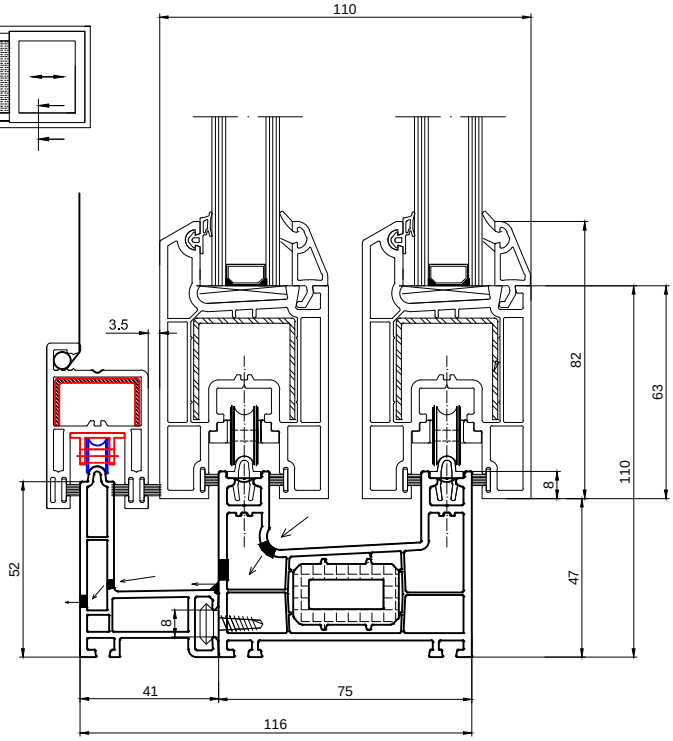
WINTECH®	PVC PROFILES SYSTEM OF (W 232)		232 SILIDING SERİE PROFİLE	
	1/1	THICK PVC	WINTECH	PAGE NO: 3

PRODUCTION LINE
PVC PROFILES SYSTEM OF (W 232)



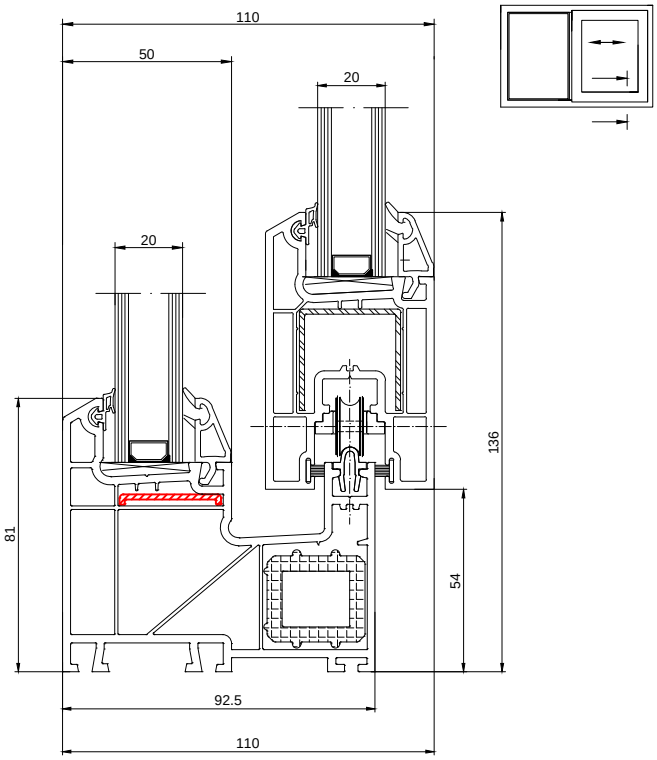


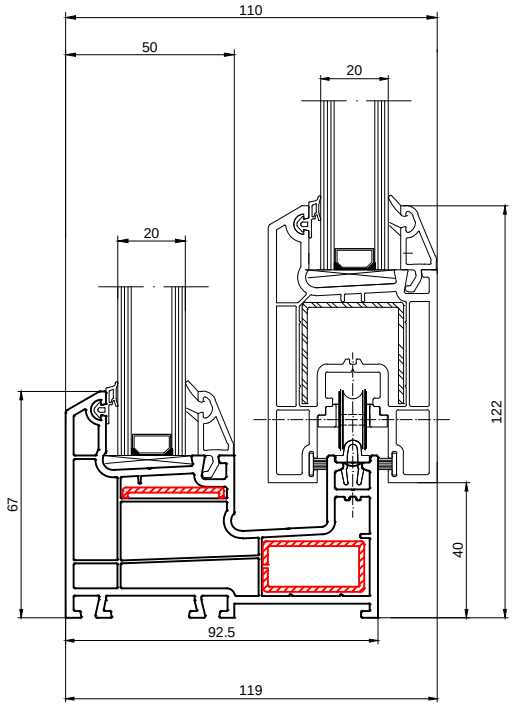


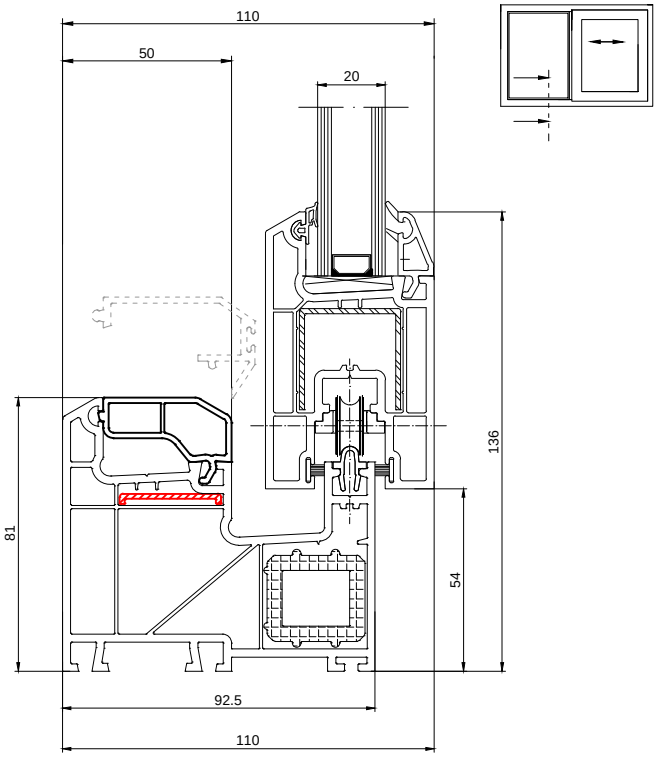


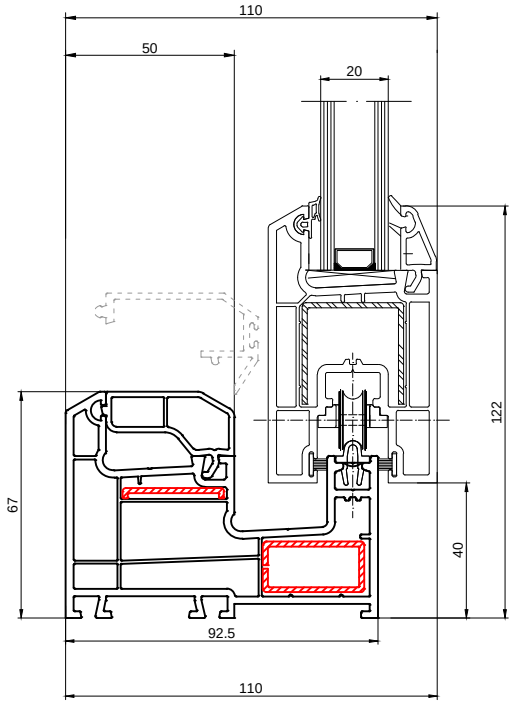
WINTECH®	PVC PROFILES SYSTEM OF (W 232)	232 SILIDING SERİE PROFİLE		
1/1	THICK PVC	WINTECH	PAGE	NO: 4

PRODUCTION LINE
PVC PROFILES SYSTEM OF (W 232)



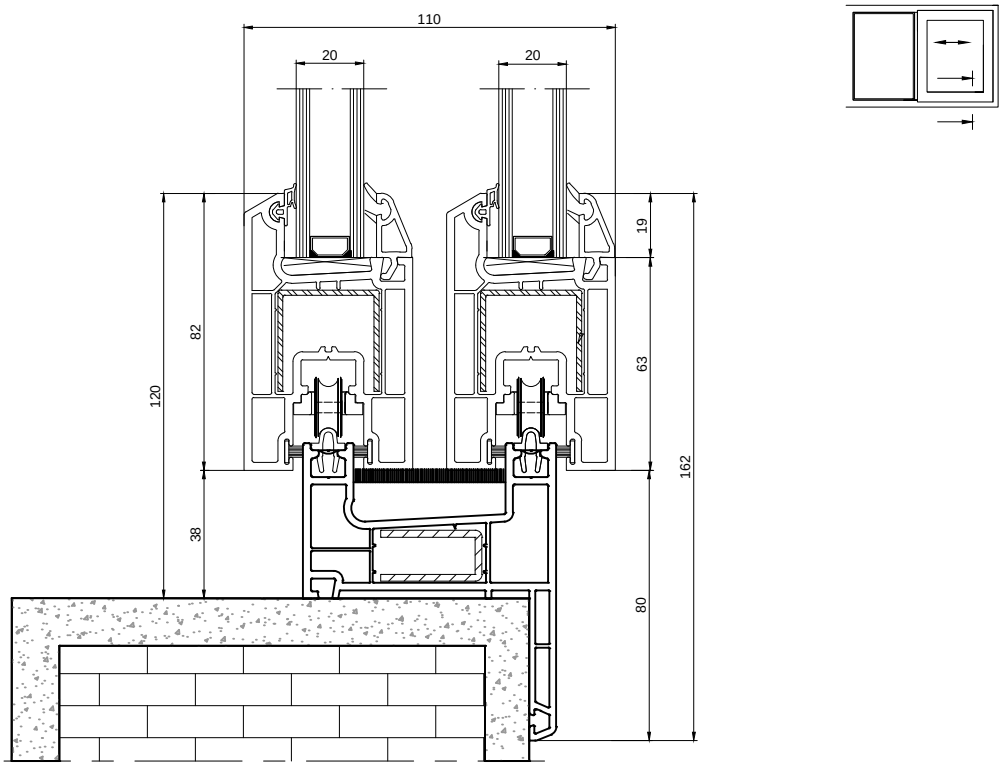


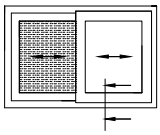


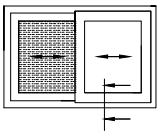


WINTECH®	PVC PROFILES SYSTEM OF (W 232)	232 SILIDING SERİE PROFİLE		
	1/1	THICK PVC	WINTECH	PAGE NO: 5

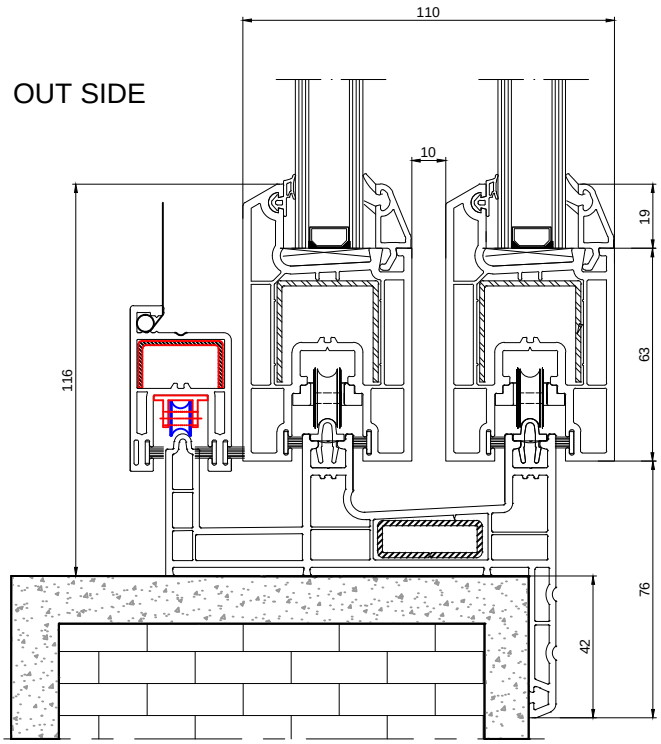
PRODUCTION LINE
PVC PROFILES SYSTEM OF (W 232)



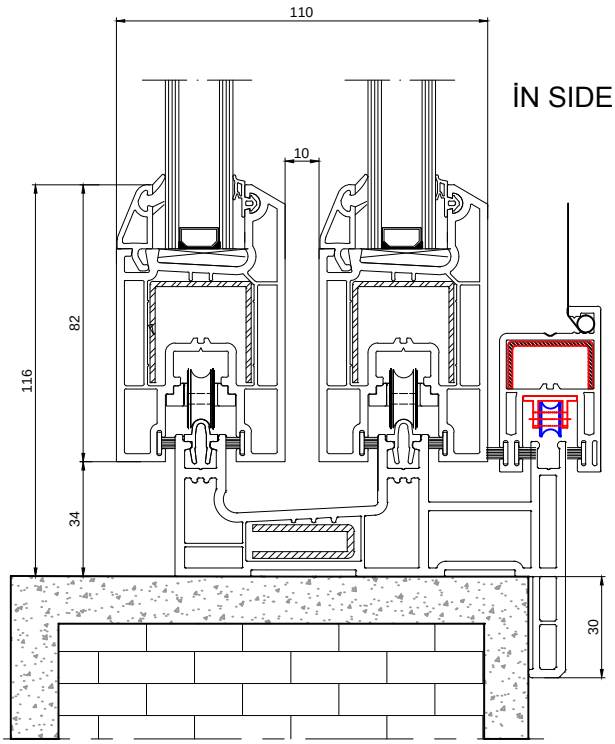




OUT SIDE

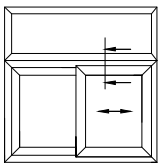


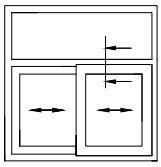
İN SIDE

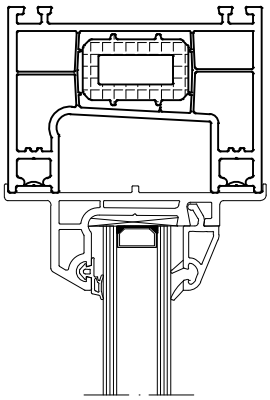


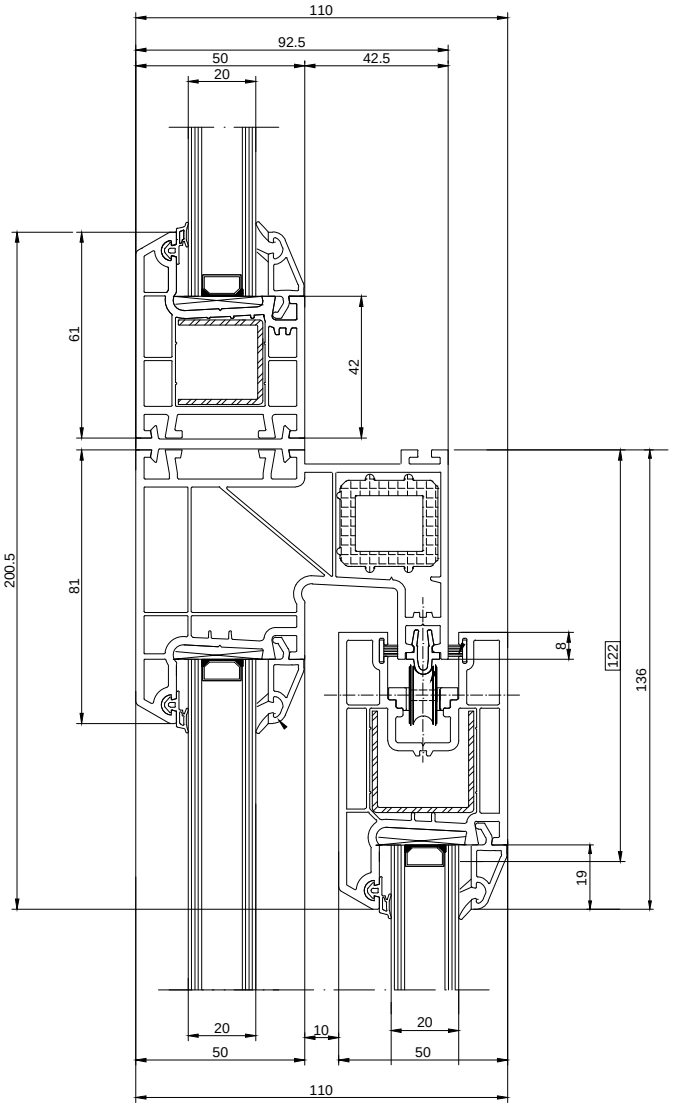
WINTECH®	PVC PROFILES SYSTEM OF (W 232)	232 SILIDING SERİE PROFİLE		
1/1	THICK PVC	WINTECH	PAGE	NO: 6

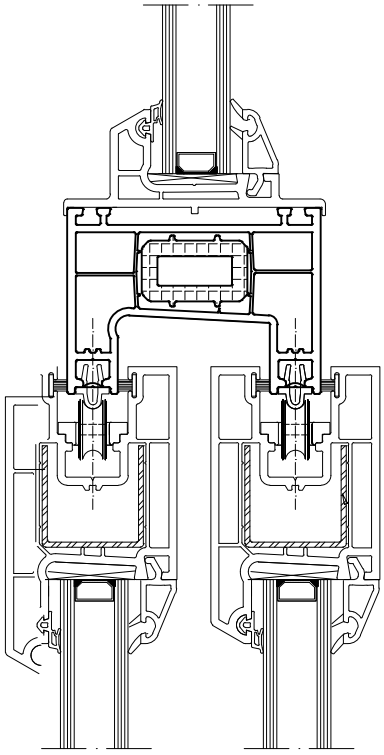
PRODUCTION LINE
PVC PROFILES SYSTEM OF (W 232)

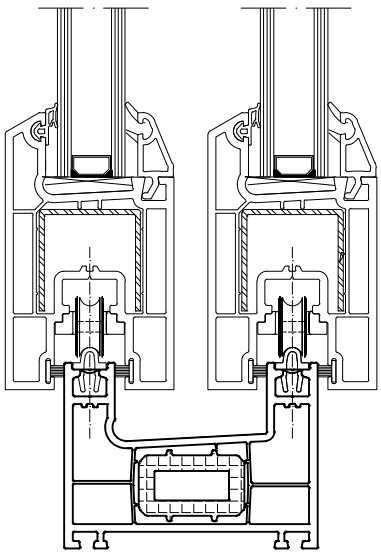






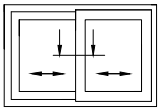


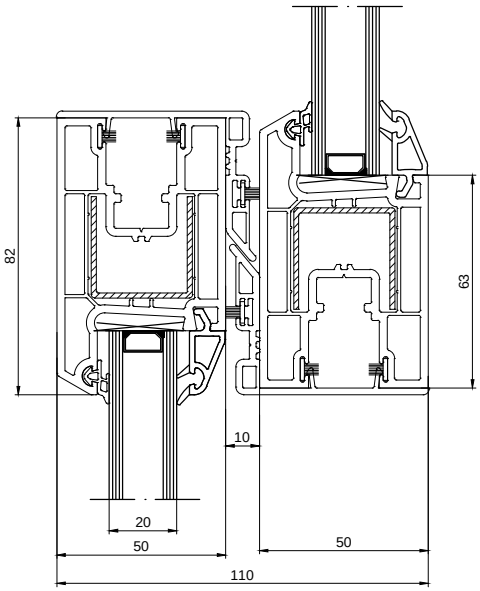


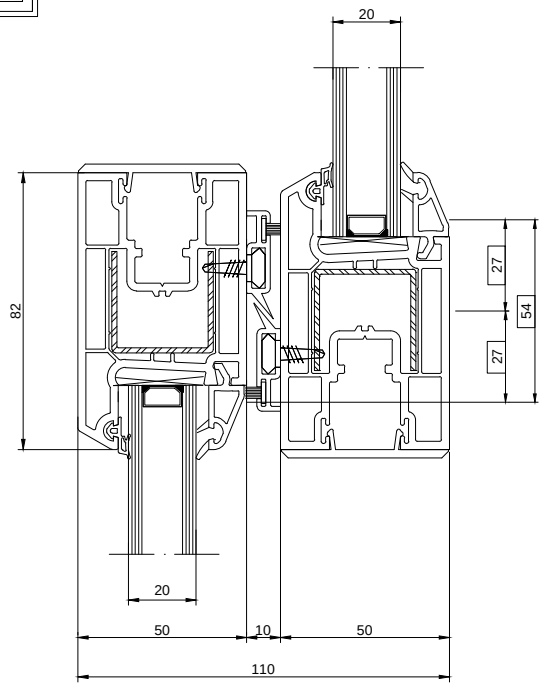


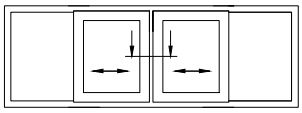
WINTECH®	PVC PROFILES SYSTEM OF (W 232)	232 SILIDING SERİE PROFİLE		
1/1	THICK PVC	WINTECH	PAGE	NO: 7

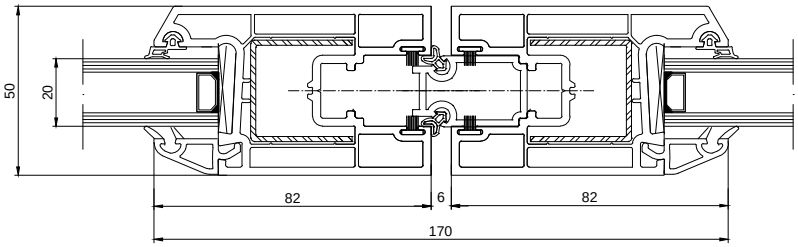
PRODUCTION LINE
PVC PROFILES SYSTEM OF (W 232)

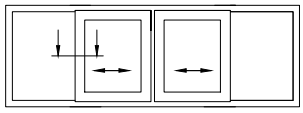


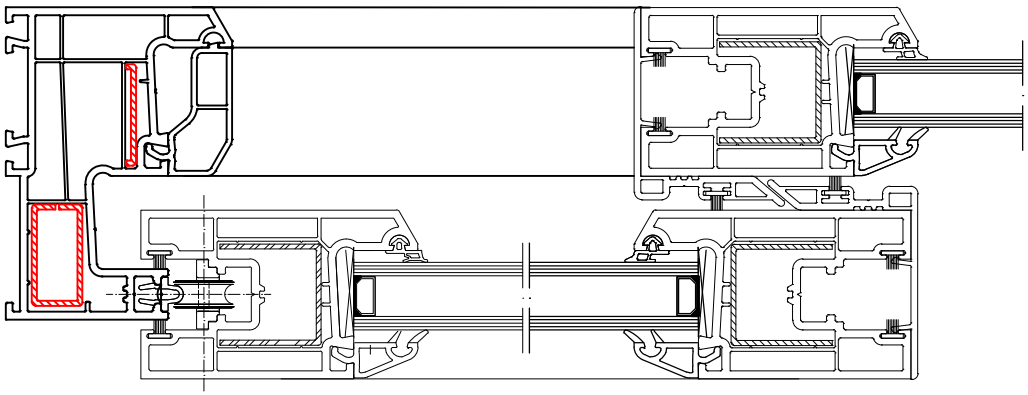




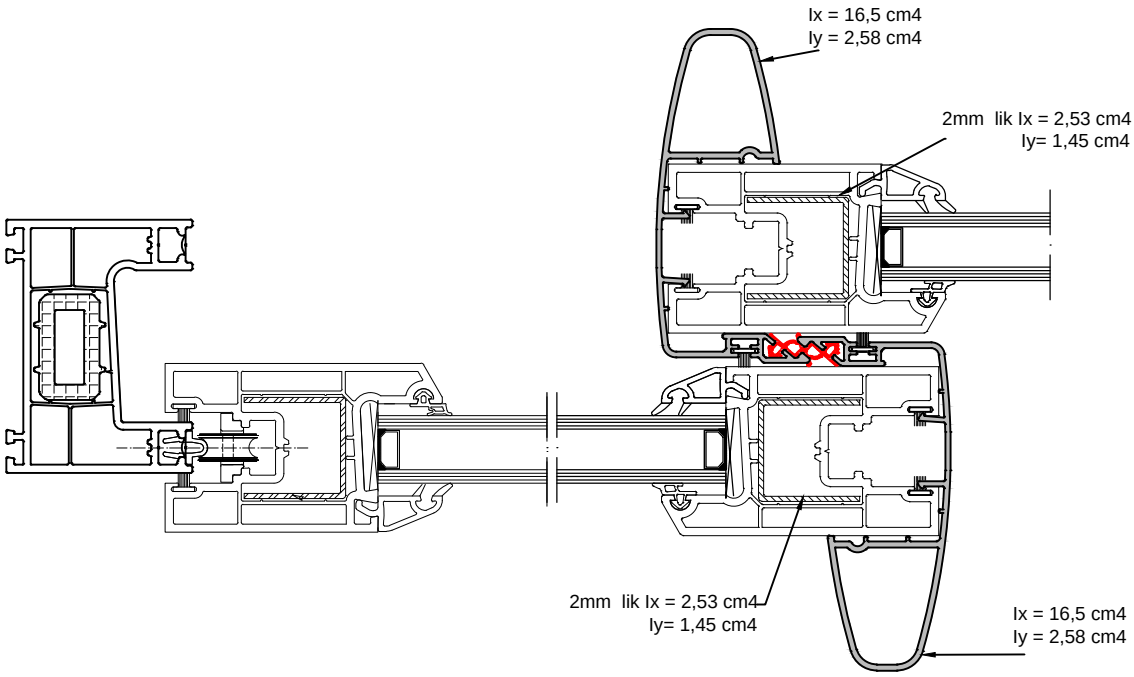








WINTECH®	PVC PROFILES SYSTEM OF (W 232)	232 SILIDING SERİE PROFİLE		
	1/1	THICK PVC	WINTECH	PAGE NO: 8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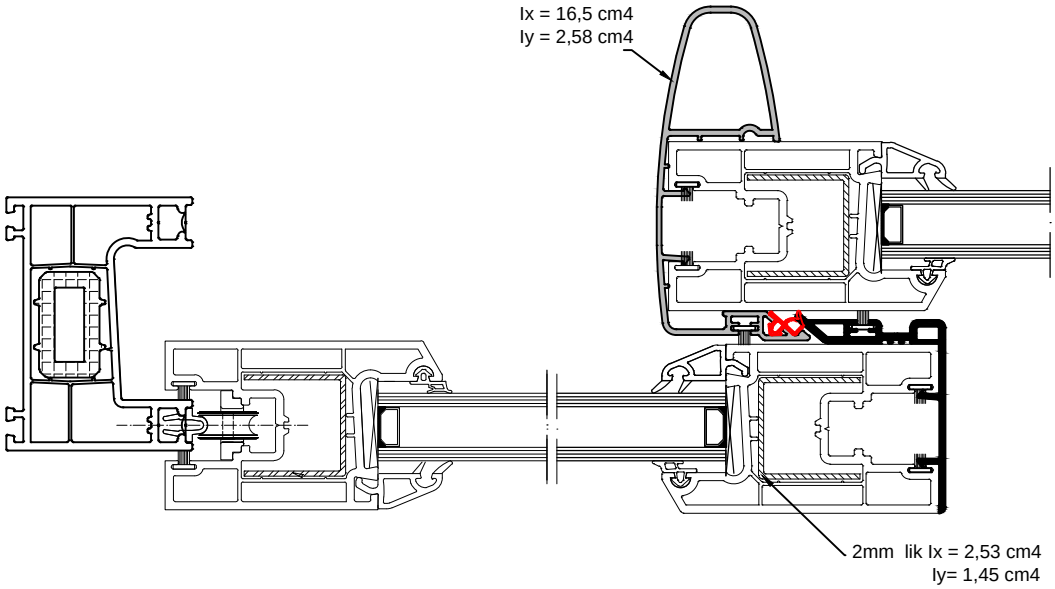
Iy = 2,58 cm4
2mm lik Ix = 2,53 cm4
Iy= 1,45 cm4
2mm lik Ix = 2,53 cm4
Iy= 1,45 cm4
Ix = 16,5 cm4
Iy = 2,58 cm4


Ix = 16,5 cm4
Iy = 2,58 cm4
2mm lik Ix = 2,53 cm4
Iy= 1,45 cm4