



**M**SQUARE



[www.mmbuildtech.com](http://www.mmbuildtech.com)



# UPVC Windows & Doors Solution

M.M.Buildtech Solutions





A Modern Day Architecture that is  
both affordable, aesthetic and durable for  
a Life time.

[www.mmbuildtech.com](http://www.mmbuildtech.com)





M.M. Group of Companies established in 1995 was started by Mr. MadalaiMuthu It has grown to severed the society in different fields by with value engineering and practical utility products .Back at the time when Wooden Windows were highly coveted in the market.

M.M. Buildtech Solutions has indeed come a long, successful and glorious way to be not only considered as the foremost supplier of uPVC Industry in India, But is also looked upon as an Organization of class -Quality-Commitment - Trust. Backed by a rich industry experience, We Believe in innovation through processes and Products and have brought to India various technologies and products over the past 12 years of our journey. In continuation to same philosophy and ethos we bring to you MSQUARE - uPVC Window Profiles and Hardwares .



# WARRANTY CERTIFICATE



We M.M. Buildtech Solutions warrenty our Upvc Window Profiles and Hardwares against manufacturing defect for a minium period of 10 years . Our warrenty will be vaild only if our products are not misused, improperly assembled or damaged in any way .



**M.M.Buildtech Solutions**



# TEST CERTIFICATES



**SGS** TEST REPORT DATE: 09<sup>th</sup> September, 2021  
Report No.: MAN:HL:124808745

MM SULTAN STREET 302, CHENNAI, ANDHRA PRADESH, INDIA  
CONTACT PERSON: J.F. JOSEPH ANTONY  
THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS:  
SAMPLE DESCRIPTION: RAYON  
COUNTRY OF ORIGIN: INDIA  
COUNTRY OF DESTINATION: INDIA  
DATE OF RECEIPT: 09/09/2021  
TEST PERFORMANCE DATE: 09/09/2021

**CONCLUSION**  
Based on the performed tests on submitted sample(s) the result of Cadmium, Lead, Mercury, Hexavalent Chromium, Polychlorinated biphenyls (PCBs), Polycyclic aromatic hydrocarbons (PAHs), Phthalates, DEHP, Para-Terapy phthalate (DEHP), DEHP phthalate (DEHP) and Dibutyltin diisobutyrate (DEHP) (refer to next page).

**TEST REQUESTED**  
Based on the performed tests on submitted sample(s) the result of Cadmium, Lead, Mercury, Hexavalent Chromium, Polychlorinated biphenyls (PCBs), Polycyclic aromatic hydrocarbons (PAHs), Phthalates, DEHP, Para-Terapy phthalate (DEHP), DEHP phthalate (DEHP) and Dibutyltin diisobutyrate (DEHP) (refer to next page).

**TESTS RESULT & METHOD: PLEASE REFER TO NEXT PAGE(S)**

SGS India Pvt. Ltd.  
Per Poo SGS India Pvt. Ltd.  
SANDIP BIVCHANIA (Technical Manager)  
Authorized Signatory/Related Executive at [Feedback.HI.1@sgs.com](mailto:Feedback.HI.1@sgs.com)  
Send your Test Report/Related Enquiries at [Feedback.HI.1@sgs.com](mailto:Feedback.HI.1@sgs.com)

**CPET** TEST REPORT DATE: 09<sup>th</sup> September, 2021  
Report No.: MAN:HL:124808745

No. Sample No. Material Description  
1 M Rayon UNPC PROFILE

**Test Method:**  
(1) With reference to IEC 62221-3:2013, determination of Cadmium by ICP-OES.  
(2) With reference to IEC 62221-4:2013, determination of Lead by ICP-OES.  
(3) With reference to IEC 62221-7:2013, determination of Mercury by ICP-OES.  
(4) With reference to IEC 62221-8:2013, determination of Hexavalent Chromium by ICP-OES.  
(5) With reference to IEC 62221-9:2013, determination of PCBs and PBBs by GC-MS.  
(6) With reference to IEC 62221-10:2013, determination of phthalates by GC-MS.

**ATMY** TEST REPORT  
Report No.: MAN:HL:124808745

**TEST RESULTS:**

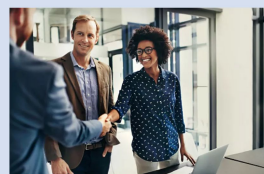
Test Results:	mg/kg	n.f.	50	100
Cadmium (Cd)	mg/kg	n.f.	50	100
Lead (Pb)	mg/kg	n.f.	50	100
Mercury (Hg)	mg/kg	n.f.	50	100
Hexavalent Chromium (Cr(VI))	mg/kg	n.f.	50	100
<b>Sum of PCBs</b>				
Monoaromatics	mg/kg	n.f.	50	100
Di-aromatics	mg/kg	n.f.	50	100
Tetra-aromatics	mg/kg	n.f.	50	100
Hexa-aromatics	mg/kg	n.f.	50	100
Hepta-aromatics	mg/kg	n.f.	50	100
Octa-aromatics	mg/kg	n.f.	50	100
Nona-aromatics	mg/kg	n.f.	50	100
Deca-aromatics	mg/kg	n.f.	50	100
<b>Sum of PBDEs</b>				
Monoaromatic ether	mg/kg	n.f.	50	100
Di-aromatic ether	mg/kg	n.f.	50	100
Tetra-aromatic ether	mg/kg	n.f.	50	100
Hexa-aromatic ether	mg/kg	n.f.	50	100
Hepta-aromatic ether	mg/kg	n.f.	50	100
Octa-aromatic ether	mg/kg	n.f.	50	100
Nona-aromatic ether	mg/kg	n.f.	50	100
Deca-aromatic ether	mg/kg	n.f.	50	100
Copolymer ether	mg/kg	n.f.	50	100
Butyl benzyl phthalate (BBP)	mg/kg	n.f.	100	100
Dibutyltin diisobutyrate (DEHP)	mg/kg	n.f.	100	100
Diisobutyl phthalate (DEHP)	mg/kg	n.f.	100	100

**Notes:**  
(1) The result of Hexavalent Chromium (Cr(VI)) is not Hexavalent Chromium (Cr(VI)) is not great.  
(2) If the Chromium (Cr) content is less than 100 mg/kg, then the Hexavalent Chromium (Cr(VI)) is not present.  
(3) On 1 June 2015, Commission Decision (EU) 2015/2464 requires that the maximum level of lead in toys should be 100 mg/kg.  
(4) The restriction of DEHP, BBP, BPBP, DBP, DEP, and other phthalates in toys is not applicable to toys.  
(5) The restriction of DEHP, BBP, BPBP, DBP, DEP, and other phthalates in toys is not applicable to toys.  
(6) The restriction of DEHP, BBP, BPBP, DBP, DEP, and other phthalates in toys is not applicable to toys.  
(7) Testing has been performed as per test method.



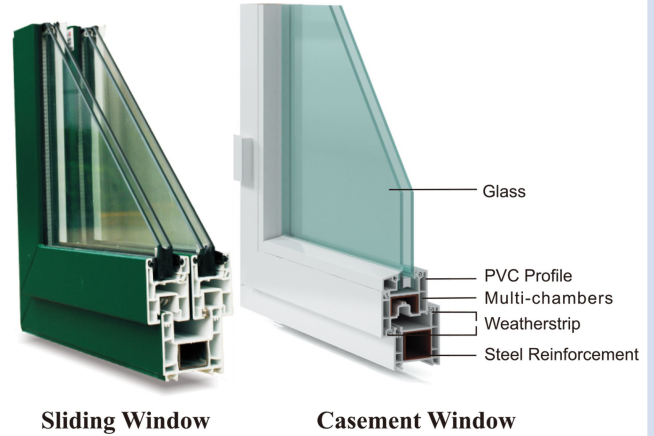
# DO BEST TO WIN THE MARKET

Our decade long wistory of innovation and sustained commitment to develop UPVC Windows ands Doors tp provide customised solutions in windows and door with a country wide presence.



# UPVC WINDOWS AND DOORS PROFILE

MSquare UPVC windows and doors Profile is made of the top quality materials PVC. It is designed and manufactured with strict standards, which assure that it can work under the temperature ranging from  $-50^{\circ}\text{C}$  to  $70^{\circ}\text{C}$ , the welding angle is high tensile strength, the anti-aging is up to 6000h, the lifetime is more than 30 years.



## ADVANTAGES OF UPVC WINDOWS & DOOR PROFILES

 THERMAL INSULATION & ENERGY EFFICIENT

 SOUND INSULATION

 WEATHER RESISTANCE

 FIRE RESISTANCE

 ENVIRONMENTAL FRIENDLY

 WATER TIGHTNESS

 CORROSION RESISTANCE

 MAINTENANCE FREE

 STRENGTH AND SECURITY

 ELECTRICITY INSULATION



# CONTENT



## Casement Series



60 Casement Window Series ----- 01



60 Casement Door Series ----- 04



60 Casement Louver Series ----- 06



Glazing Bead Diagram ----- 08

## Sliding Series



Introduction of 60/88/112 Sliding Series ----- 09



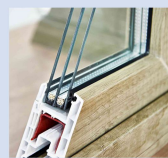
60 Sliding Series ----- 10



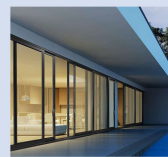
112 Sliding Series ----- 13



88 Sliding Series ----- 14



Glazing Bead Diagram ----- 17



Villa Series ----- 19



Lamination Series ----- 21



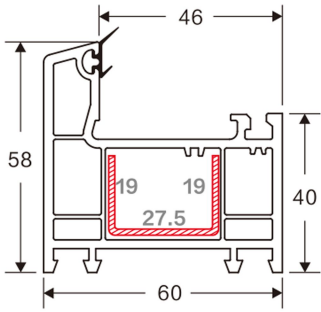


## INTRODUCTION OF 60 CASEMENT SERIES

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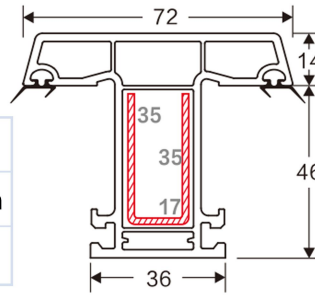
Main profiles are three chamber design, with independent drainage cavity. Profiles can be used in inward casement window & door, outward casement window & door, hung window, shutter window and fixed window, which are applicable for villas, hotels, high- grade residence, business buildings, etc.





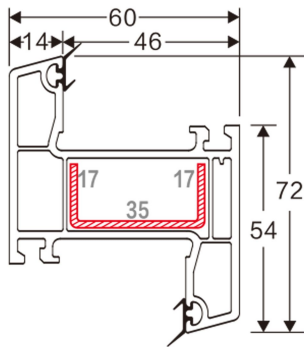
## 60 CASEMENT FRAME

Code No	PC60-1
Weight	1.042 kg/m
Qty. per Bag	6



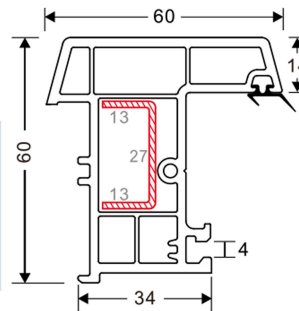
## 60 CASEMENT MULLION

Code No	PC60-3
Weight	1.149 kg/m
Qty. per Bag	6



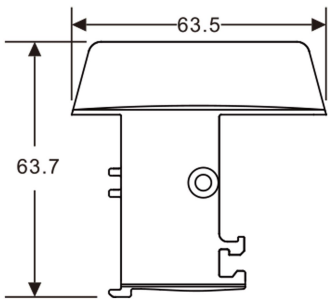
## 60 CASEMENT Z MULLION

Code No	PC60-4
Weight	1.220 kg/m
Qty. per Bag	6



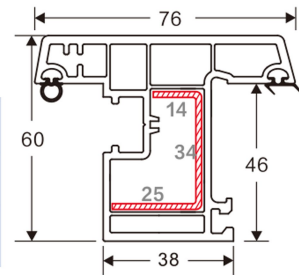
## 60 CASEMENT MOVABLE MULLION

Code No	PC60-5
Weight	1.067 kg/m
Qty. per Bag	6



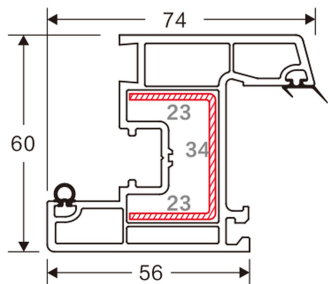
## 60 CASEMENT MOVABLE MULLION COVER

Code No	PC60-5A
Weight	-
Qty. per Bag	-



## 60 CASEMENT OUTWARD SASH

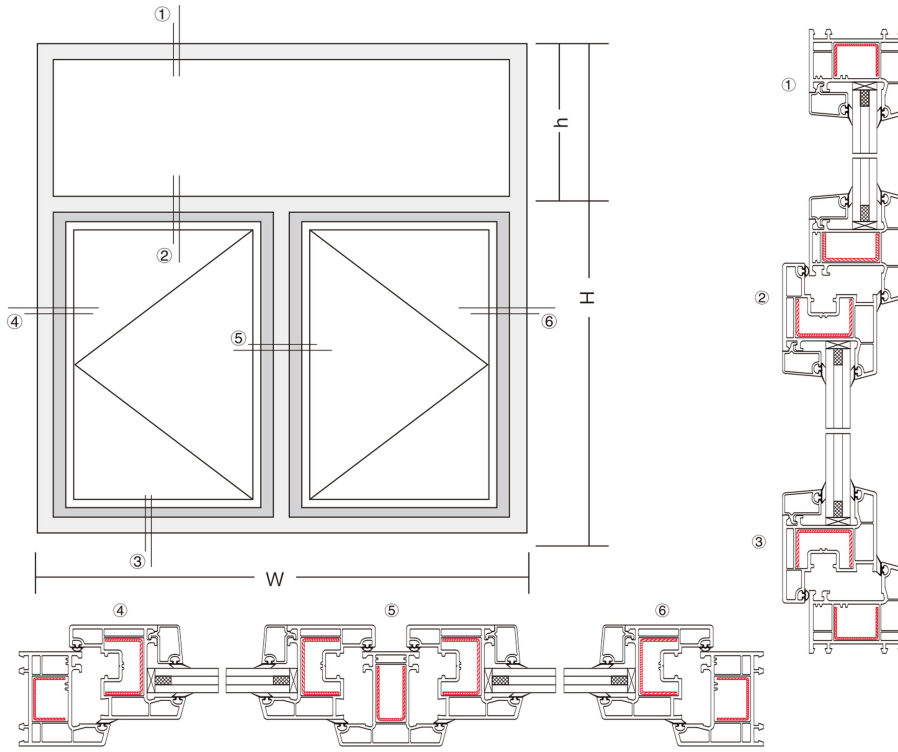
Code No	PC60-6
Weight	1.210 kg/m
Qty. per Bag	6



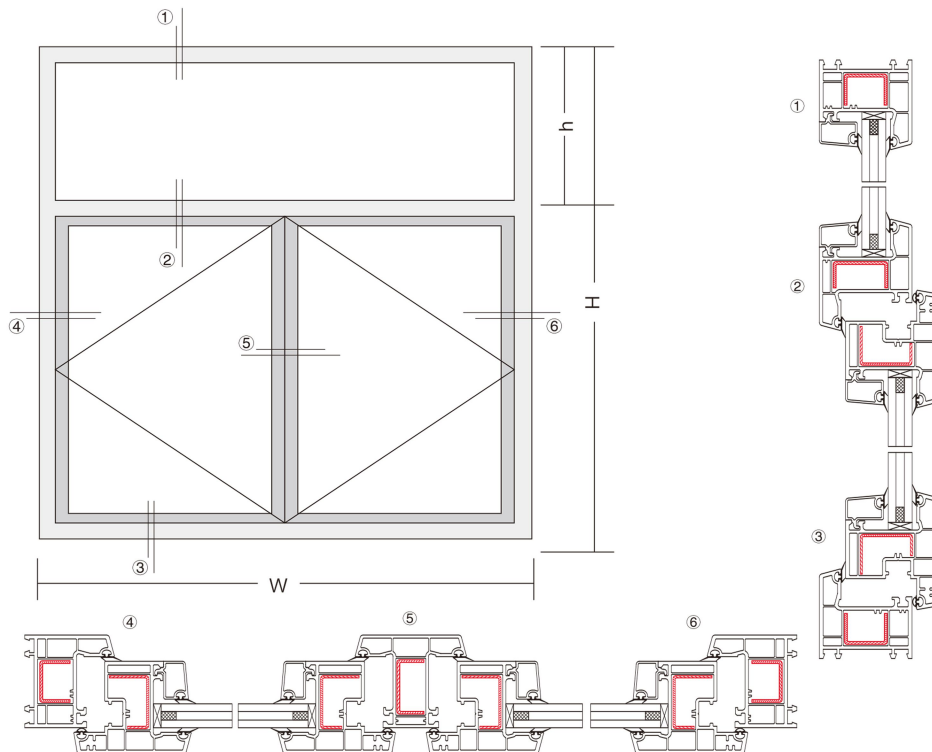
## 60 CASEMENT INWARD SASH

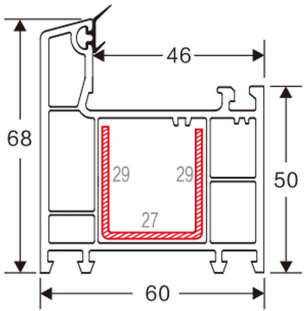
Code No	PC60-7
Weight	1.200 kg/m
Qty. per Bag	6

## 60 CASEMENT INWARD WINDOW ASSEMBLY TECHNICAL DRAWING



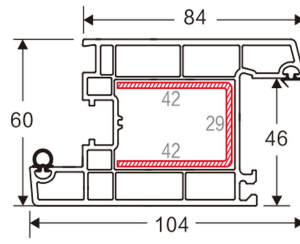
## 60 CASEMENT OUTWARD WINDOW ASSEMBLY TECHNICAL DRAWING





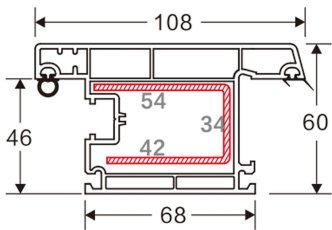
## 60 CASEMENT DOOR FRAME

Code No	PC60-1A
Weight	1.167 kg/m
Qty. per Bag	6



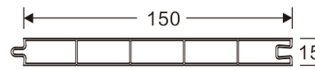
## 60 CASEMENT OUTWARD DOOR SASH

Code No	PM60-1
Weight	1.517 kg/m
Qty. per Bag	4



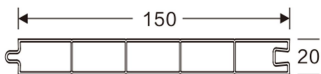
## 60 CASEMENT INWARD DOOR SASH

Code No	PM60-2
Weight	1.65 kg/m
Qty. per Bag	4



## DOOR PANEL - 1 (15MM)

Code No	PM80-4
Weight	0.884 kg/m
Qty. per Bag	10

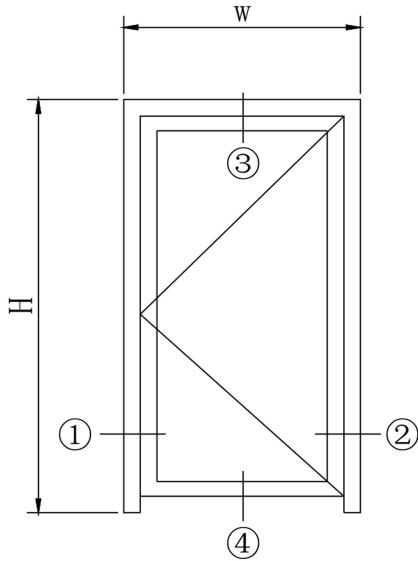


## DOOR PANEL - 2 (20MM)

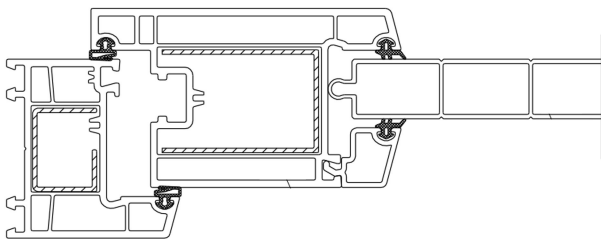
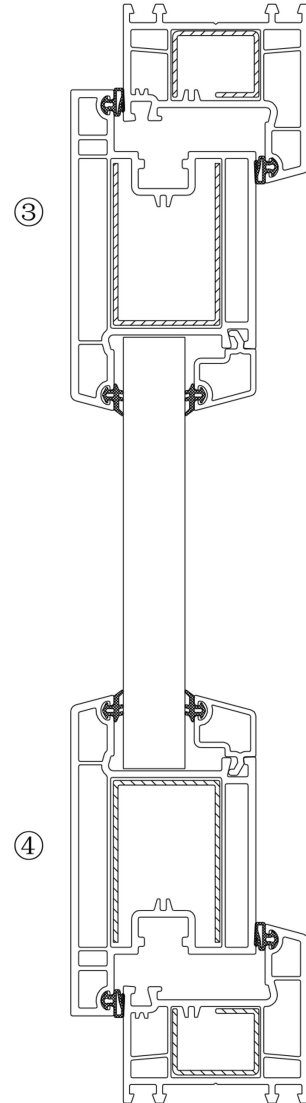
Code No	PM60-3
Weight	0.900 kg/m
Qty. per Bag	8



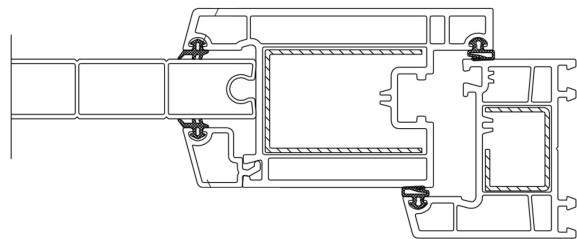
## 60 CASEMENT OUTWARD DOOR ASSEMBLY TECHNICAL DRAWING



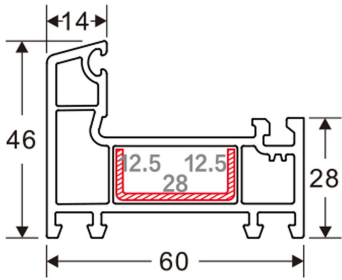
Assembly Drawing of Door Panel



①

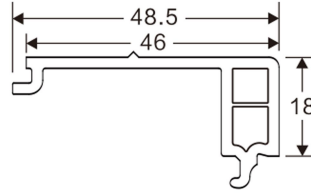


②



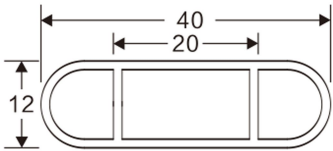
## 60 CASEMENT SMALL FRAME

Code No	PC60-2
Weight	0.850 kg/m
Qty. per Bag	6



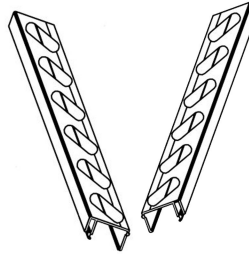
## 60 BLINDS FOR SHUTTER WINDOW

Code No	PM60-4
Weight	0.260 kg/m
Qty. per Bag	20



## 60 BEAD FOR SHUTTER WINDOW

Code No	PM60-5
Weight	0.217 kg/m
Qty. per Bag	20

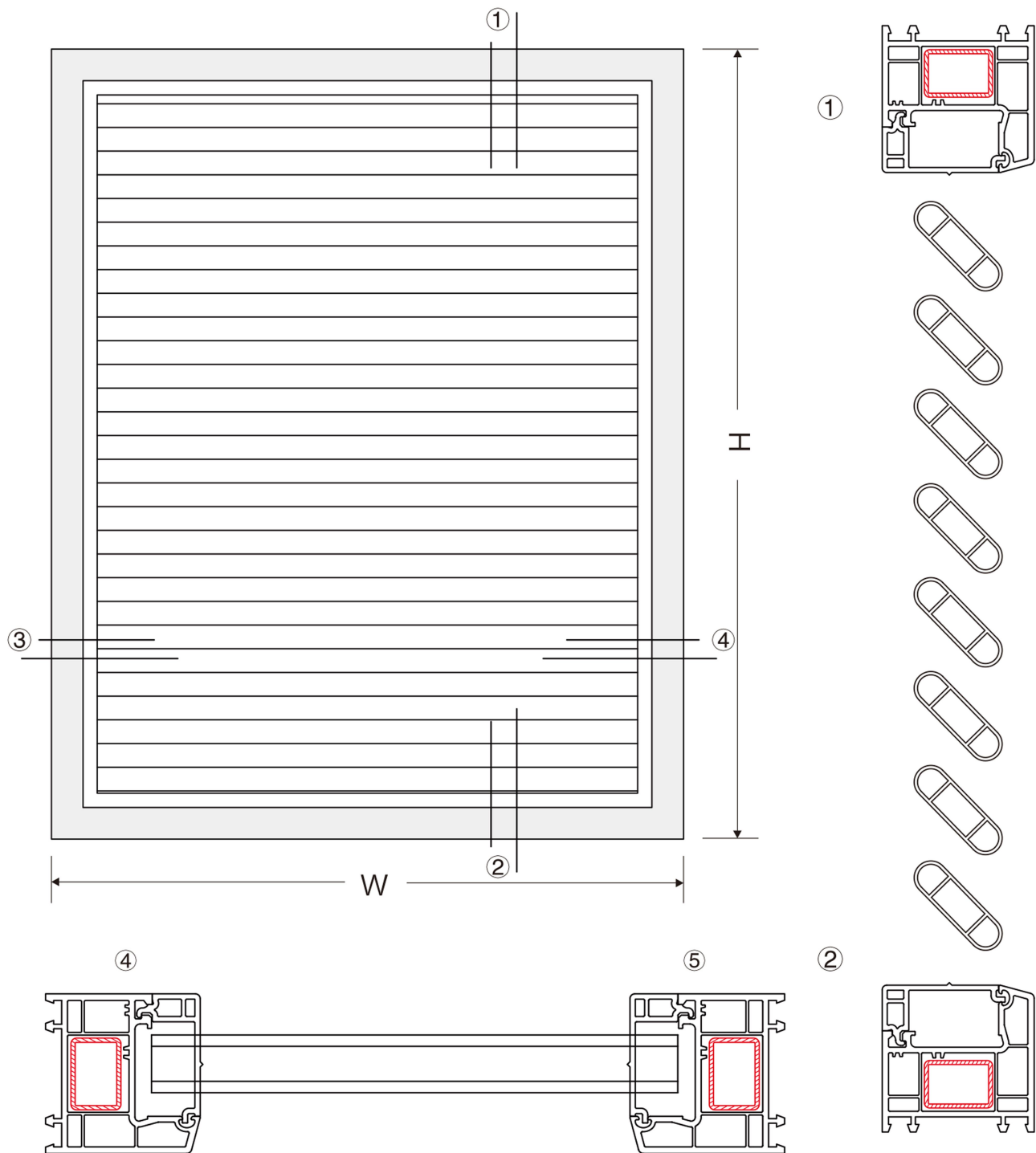


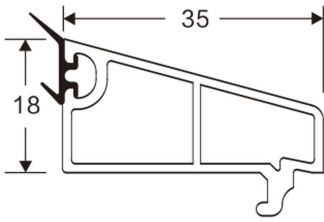
## PUNCHED PROFILE (LEFT + RIGHT)

Code No	4KY + 4KZ
Weight	-
Qty. per Bag	-



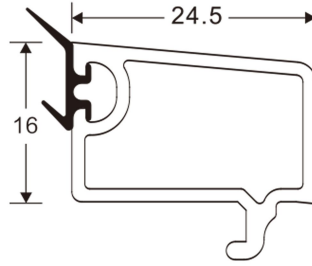
## 60 CASEMENT LOUVER WINDOW ASSEMBLY TECHNICAL DRAWING





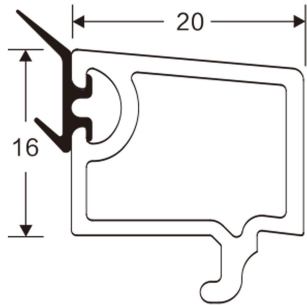
## 60 CASEMENT SINGLE GLAZE BEADING

Code No	PC60-9
Weight	0.317 kg/m
Qty. per Bag	20



## 60 CASEMENT DOUBLE GLAZE BEADING

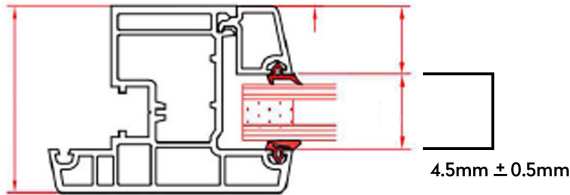
Code No	PC60-10
Weight	0.270 kg/m
Qty. per Bag	20



## 60 CASEMENT DOUBLE GLAZE BEADING

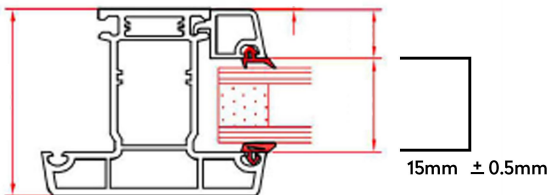
Code No	PC60-11
Weight	0.220 kg/m
Qty. per Bag	30

## 60 CASEMENT GLAZING BEAD TECHNICAL DRAWING



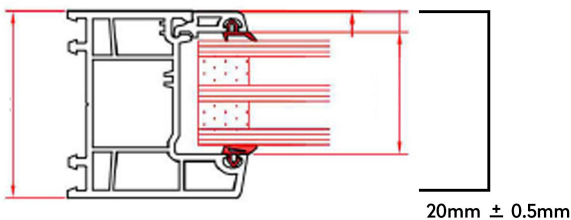
Selecting the suitable gasket seal according to the thickness of the glass.

**Code : PC60-9**



Selecting the suitable gasket seal according to the thickness of the glass.

**Code : PC60-10**



Selecting the suitable gasket seal according to the thickness of the glass.

**Code : PC60-11**

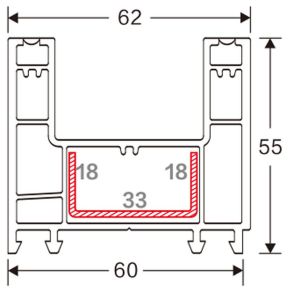


# INTRODUCTION OF 62 SLIDING SERIES

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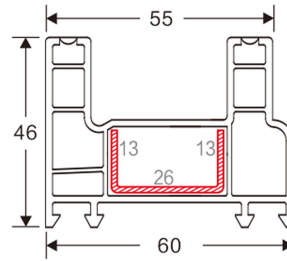
Villas, low-rise residences, indoor partitions, temporary buildings, etc.





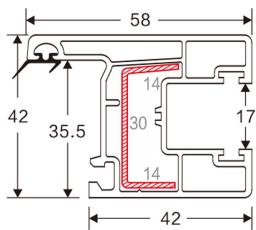
## 60 SLIDING FRAME

Code No	TC60-1
Weight	1.098 kg/m
Qty. per Bag	6



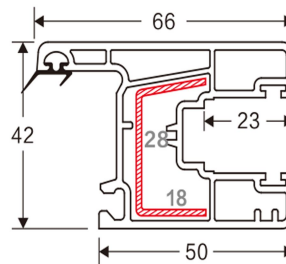
## 60 SLIDING FRAME - ECO

Code No	TC60-1C
Weight	0.834 kg/m
Qty. per Bag	6



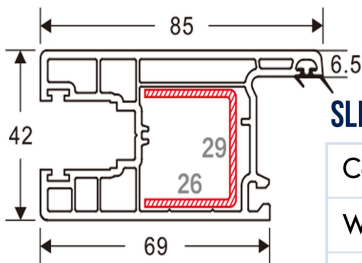
## SMALL SLIDING WINDOW SASH

Code No	TC60-3
Weight	0.840 kg/m
Qty. per Bag	8



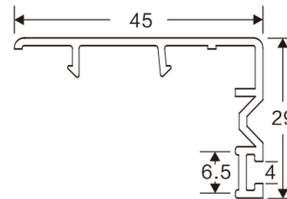
## BIG SLIDING WINDOW SASH

Code No	TC60-4
Weight	1.042 kg/m
Qty. per Bag	8



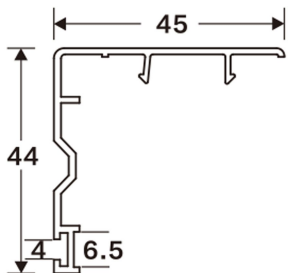
## SLIDING DOOR SASH

Code No	TC60-5
Weight	1.250 kg/m
Qty. per Bag	4



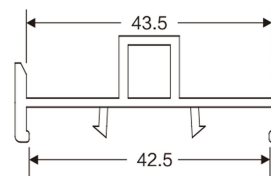
## SLIDING WINDOW INTERLOCK

Code No	TC60-6
Weight	0.227 kg/m
Qty. per Bag	30



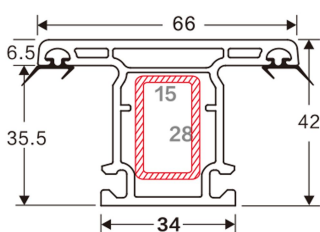
## SLIDING DOOR INTERLOCK

Code No	TC60-18
Weight	0.217 kg/m
Qty. per Bag	20



## SLIDING INLINE ADAPTOR

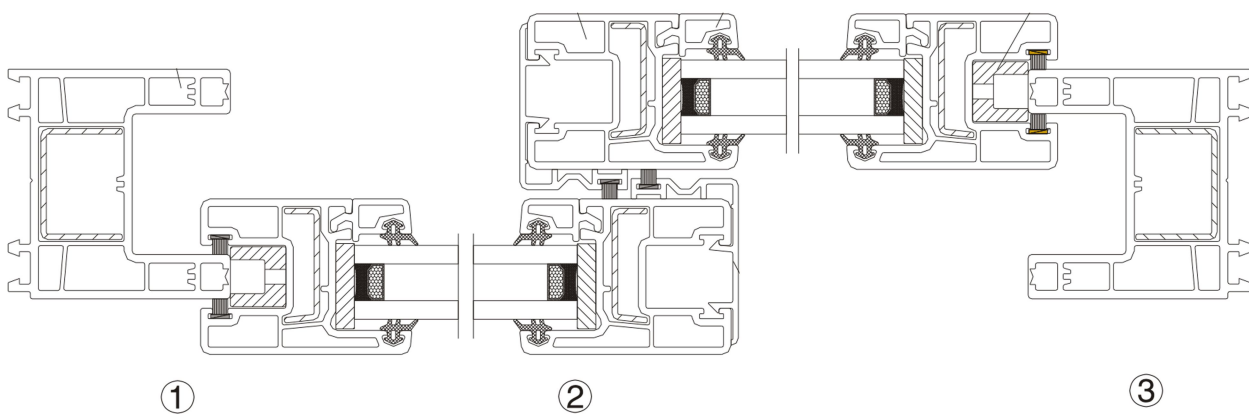
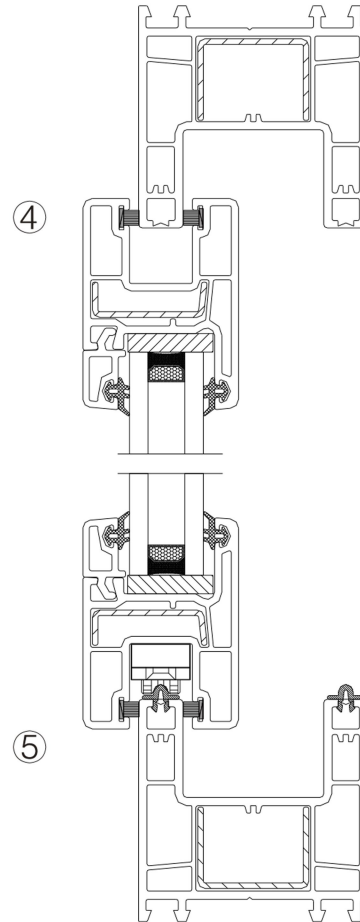
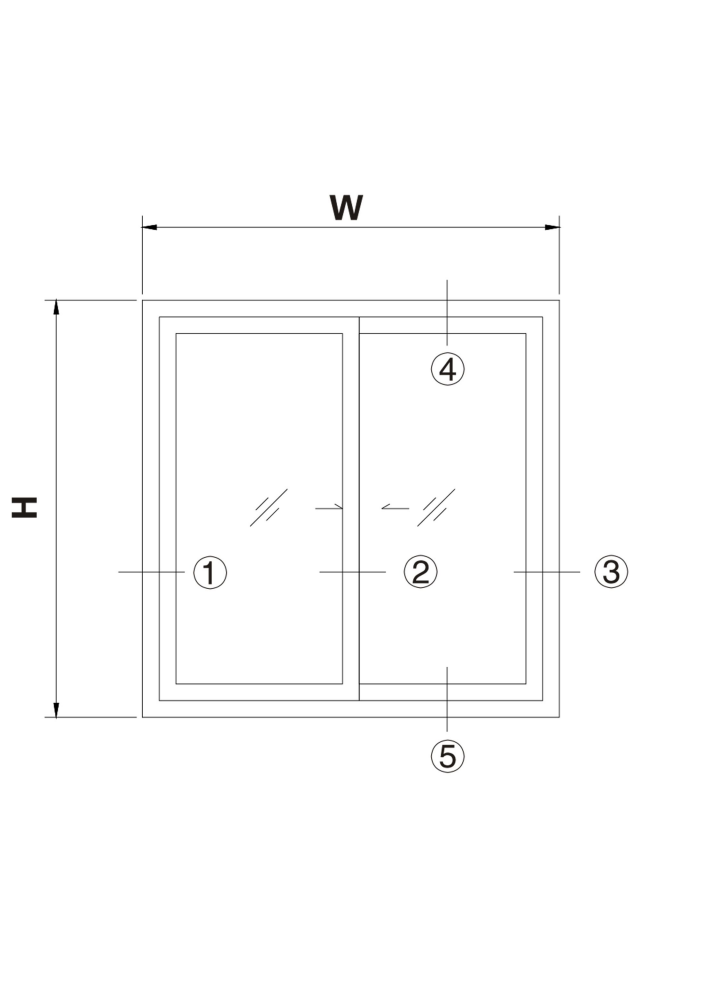
Code No	TC60-7
Weight	0.307 kg/m
Qty. per Bag	20



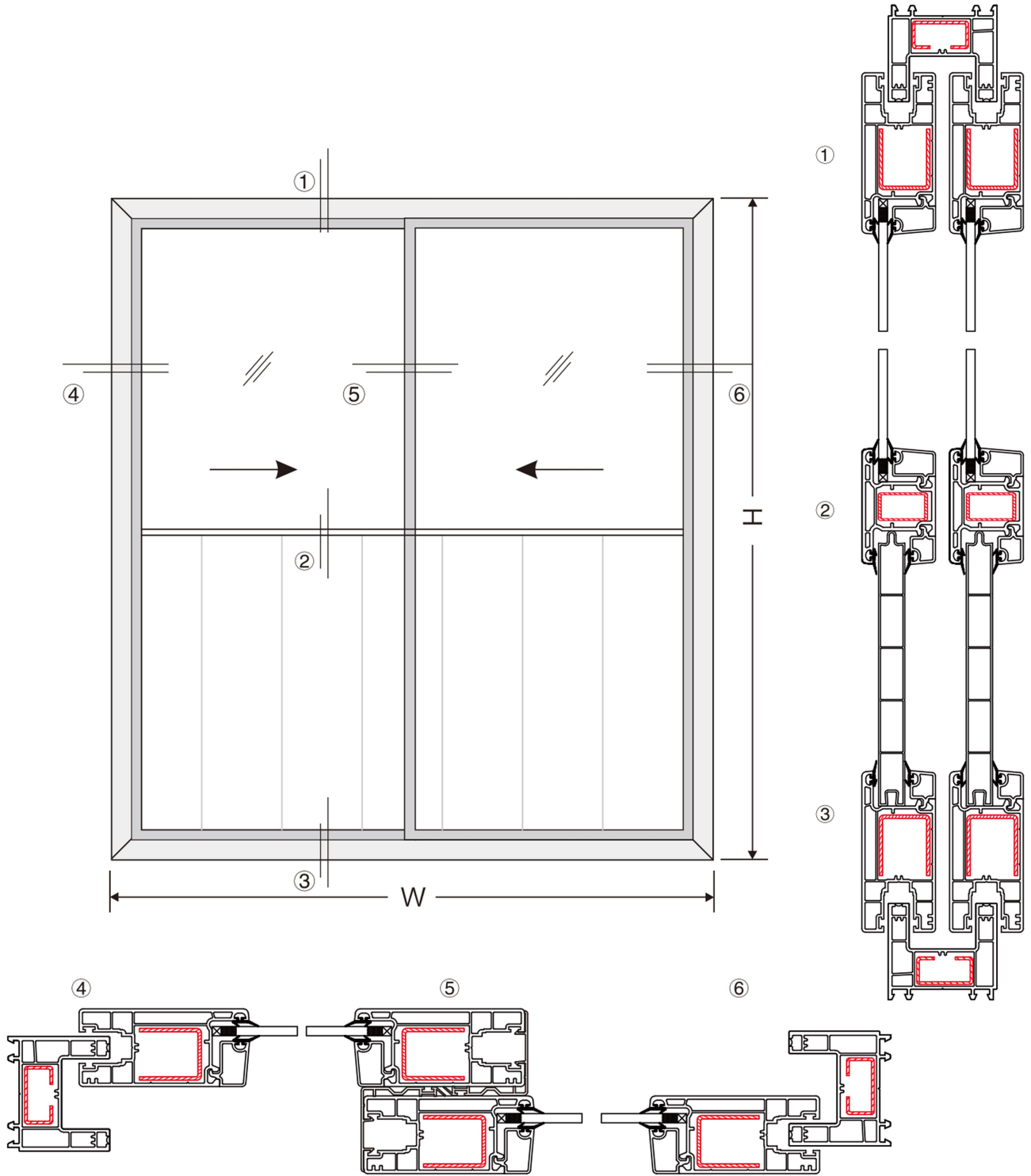
## SLIDING SASH MULLION

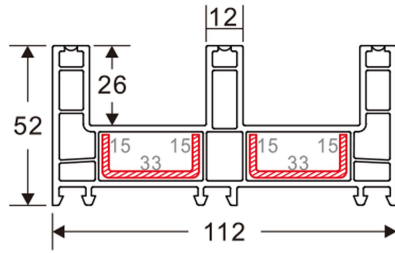
Code No	TC60-12
Weight	0.185 kg/m
Qty. per Bag	8

## 60 SLIDING WINDOW ASSEMBLY TECHNICAL DRAWING



### 60 SLIDING DOOR ASSEMBLY TECHNICAL DRAWING

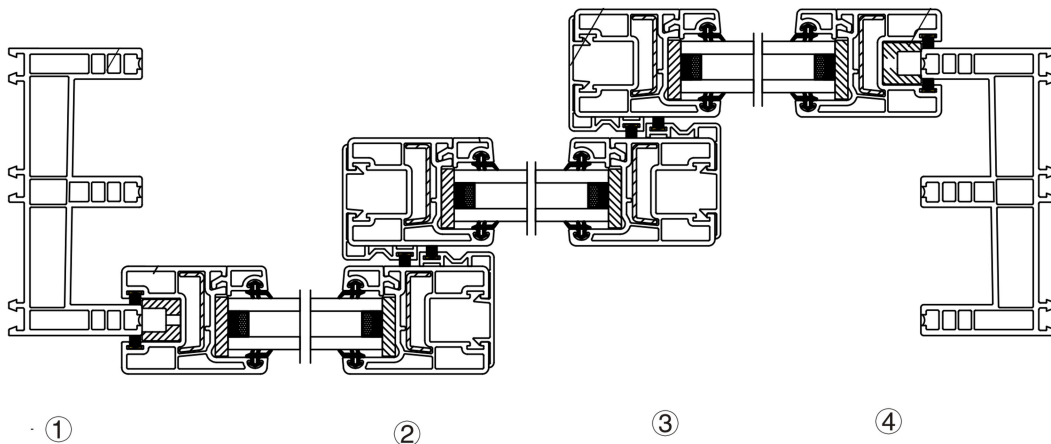
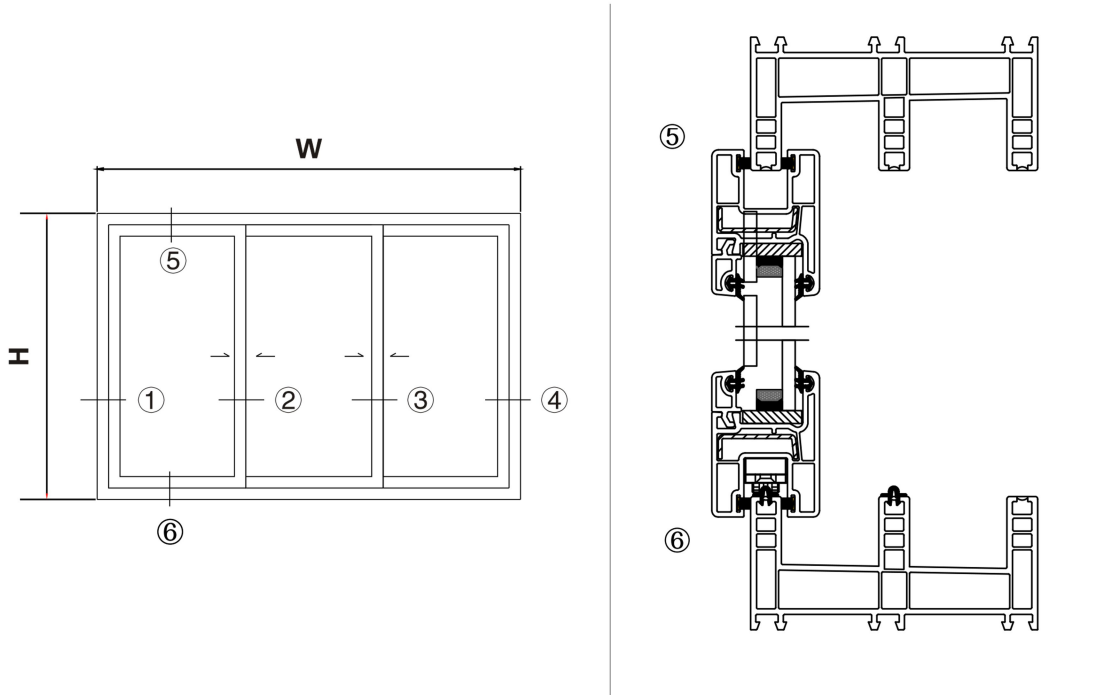




## 112 SLIDING THREE TRACK

Code No	TC60-112
Weight	1.700 kg/m
Qty. per Bag	4

## 112 SLIDING WINDOW ASSEMBLY TECHNICAL DRAWING

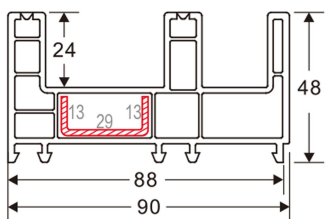


## INTRODUCTION OF 88 SLIDING SERIES

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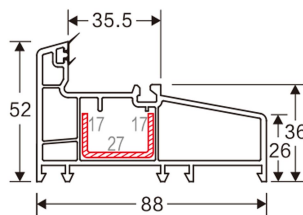
The main profiles of 88 sliding series are designed into four-chamber, and have independent drainage chamber. Its performance can meet relatively high grades in national standards





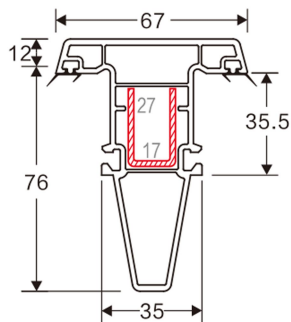
## 88 SLIDING FRAME

Code No	TC88-1
Weight	1.340 kg/m
Qty. per Bag	6



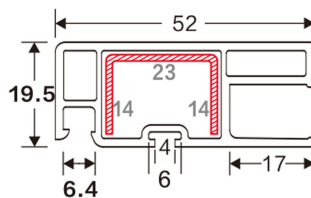
## 88 TRANSOME FRAME

Code No	TC88-2
Weight	1.085 kg/m
Qty. per Bag	6



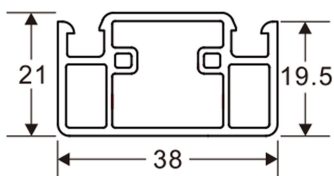
## 88 TRANSOME FRAME MULLION

Code No	TC88-3
Weight	1.125 kg/m
Qty. per Bag	6



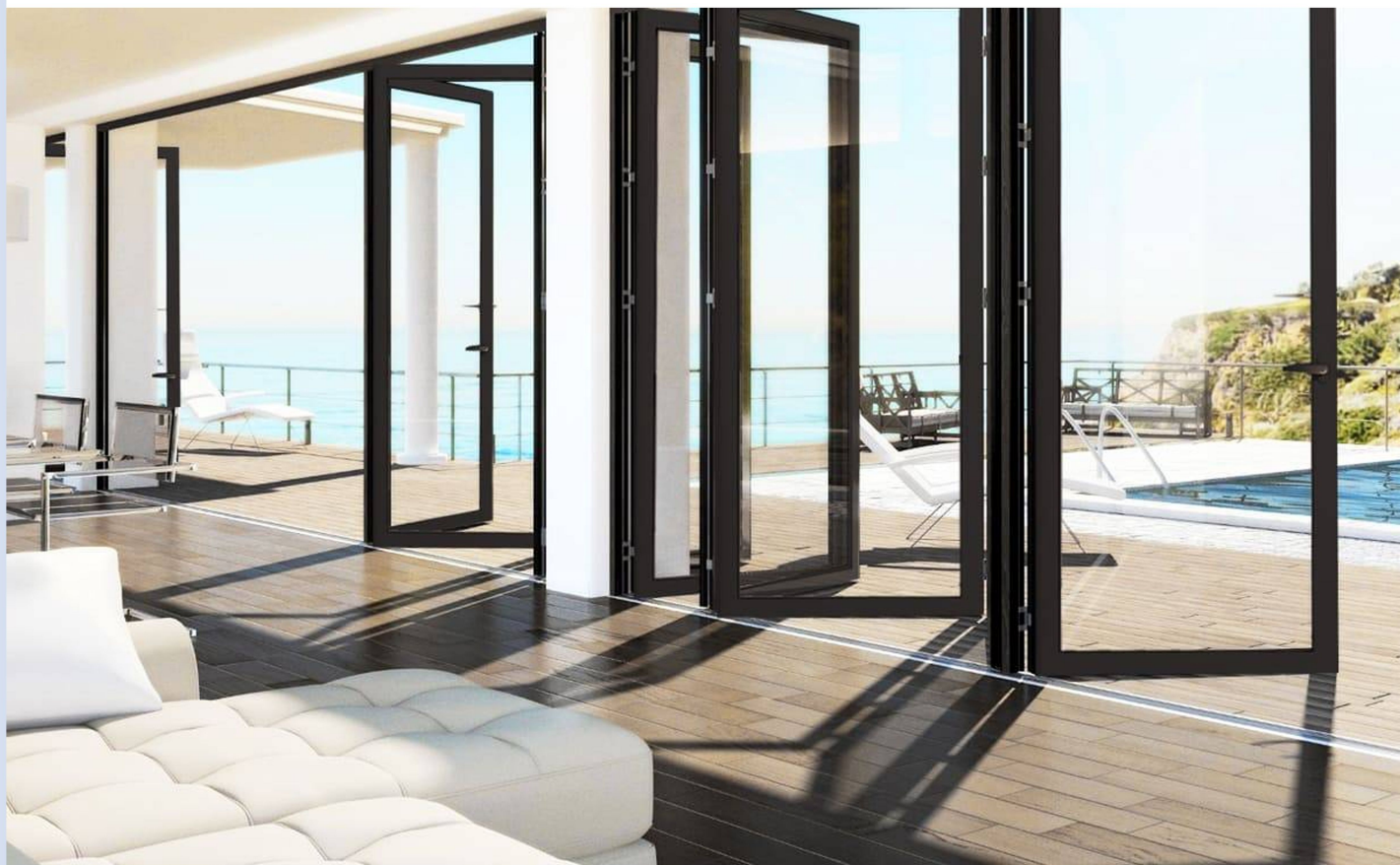
## 88 SLIDING INSECT SCREEN

Code No	TC88-4
Weight	0.492 kg/m
Qty. per Bag	15

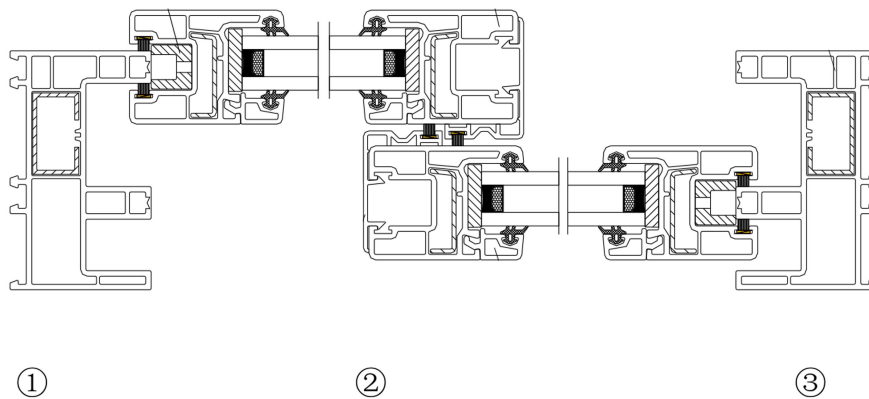
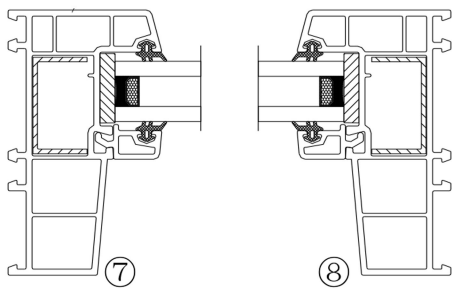
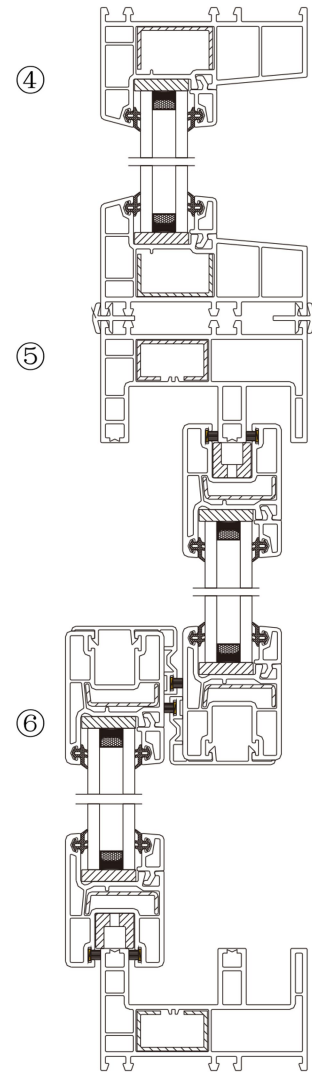
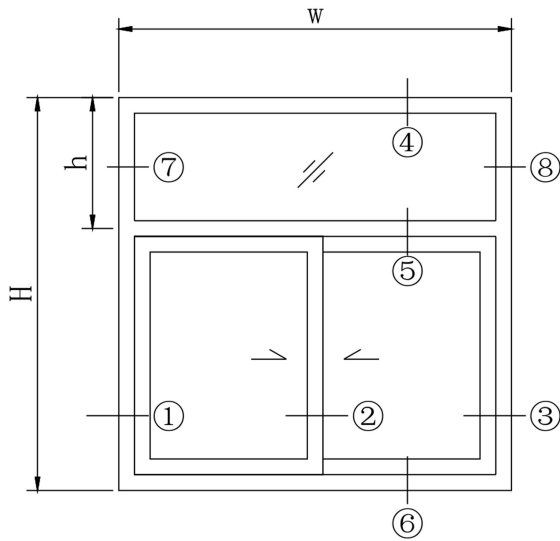


## MESH MULLION

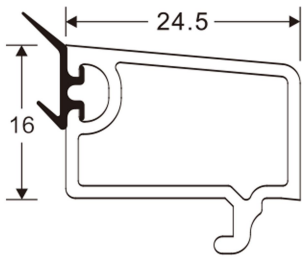
Code No	TC88-6
Weight	0.360 kg/m
Qty. per Bag	15



88 SLIDING WINDOW ASSEMBLY TECHNICAL DRAWING

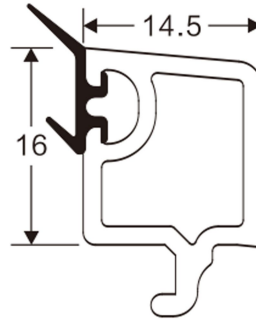






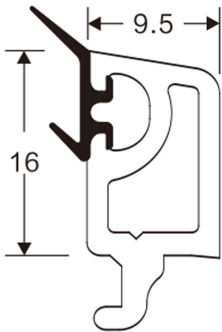
### 60 SLIDING SINGLE GLAZE BEADING

Code No	TC60-8
Weight	0.270 kg/m
Qty. per Bag	20



### 60 SLIDING DOUBLE GLAZE BEADING

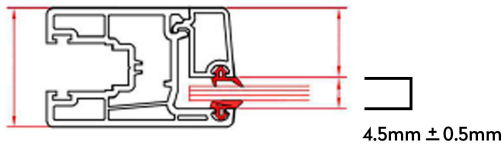
Code No	TC60-9
Weight	0.180 kg/m
Qty. per Bag	30



### 60 SLIDING DOUBLE GLAZE BEADING

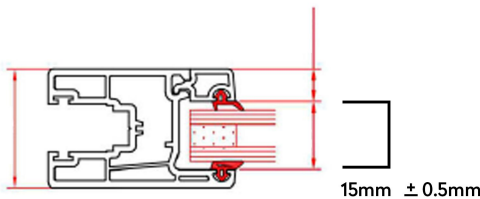
Code No	TC60-10
Weight	0.15 kg/m
Qty. per Bag	30

## 60 CASEMENT GLAZING BEAD TECHNICAL DRAWING



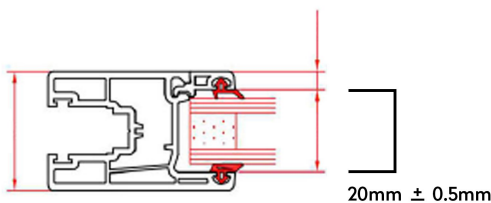
Selecting the suitable gasket seal according to the thickness of the glass.

**Code : TC60-8**



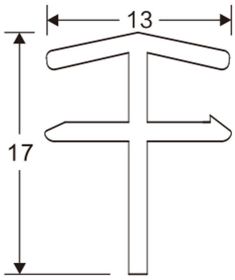
Selecting the suitable gasket seal according to the thickness of the glass.

**Code : TC60-9**



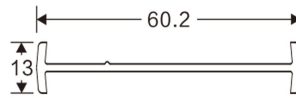
Selecting the suitable gasket seal according to the thickness of the glass.

**Code : TC60-10**



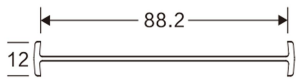
## FRAME CONNECTOR

Code No	AP-01
Weight	0.092 kg/m
Qty. per Bag	50



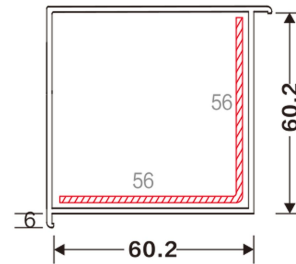
## 60 FRAME CONNECTOR PANEL

Code No	AP-02
Weight	0.200 kg/m
Qty. per Bag	20



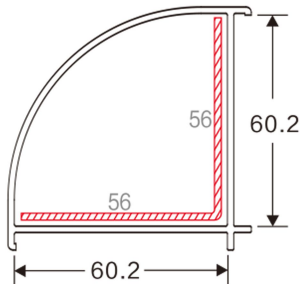
## 88 FRAME CONNECTOR PANEL

Code No	AP-03
Weight	0.300 kg/m
Qty. per Bag	15



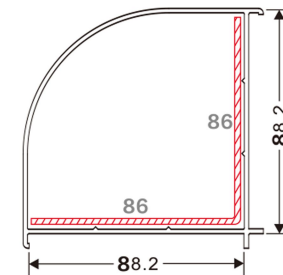
## 60 SQUARE POST PROFILE

Code No	AP-04
Weight	0.71 kg/m
Qty. per Bag	4



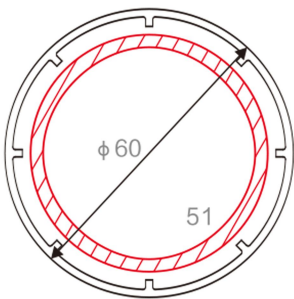
## 60 WINDOW SERIES 90° CORNER

Code No	AP-05
Weight	0.71 kg/m
Qty. per Bag	4



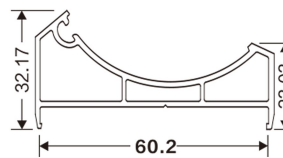
## 88 WINDOW SERIES 90° CORNER

Code No	AP-06
Weight	0.967 kg/m
Qty. per Bag	4



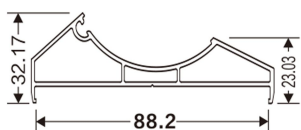
## 60 ROUND PIPE

Code No	AP-07
Weight	0.683 kg/m
Qty. per Bag	4



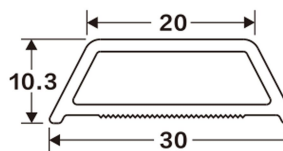
## 60 ANY ANGLE BAY

Code No	AP-08
Weight	0.5 kg/m
Qty. per Bag	8



## 88 ANY ANGLE BAY

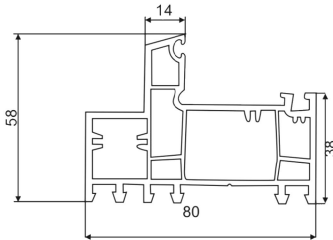
Code No	AP-09
Weight	0.6 kg/m
Qty. per Bag	8



## DECORATION GRID

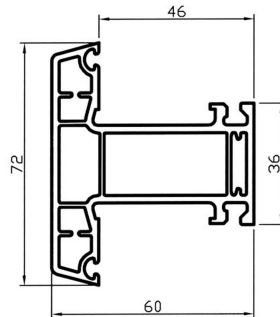
Code No	AP-10
Weight	0.16 kg/m
Qty. per Bag	30

## CASEMENT WINDOWS SERIES



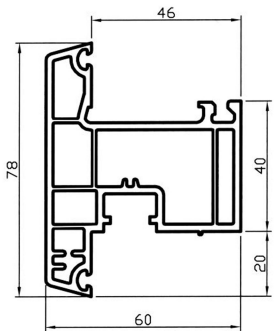
**60 CASEMENT GRILL FRAME**

Code No	GWPC60-21
Weight	1.265 kg/m



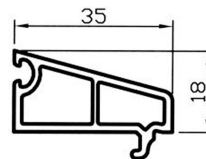
**60 CASEMENT MULLION**

Code No	GWPC60-22
Weight	1.050 kg/m



**60 CASEMENT OUTWARD SASH**

Code No	GWPC60-23
Weight	1.300 kg/m

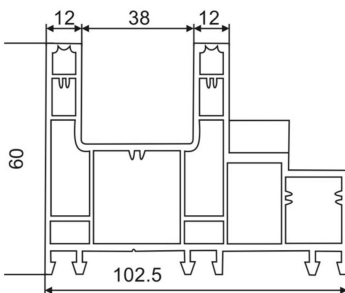


**60 SLIDING SINGLE GLAZE BEADING**

Code No	GWPC60-24
Weight	0.270 kg/m

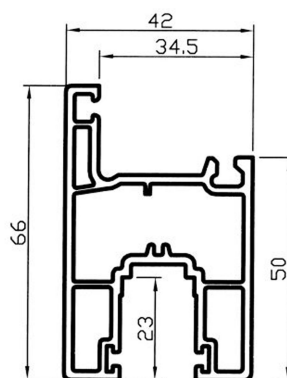
Flat

## SLIDING WINDOW SERIES



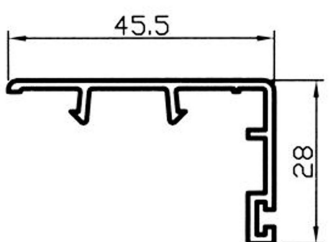
**60 SLIDING GRILL FRAME**

Code No	GWTC60-21
Weight	1.456 kg/m



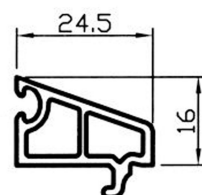
**SLIDING WINDOW SASH**

Code No	GWTC60-22
Weight	0.900 kg/m



**SLIDING WINDOW INTERLOCK**

Code No	GWTC60-23
Weight	0.220 kg/m



**60 SLIDING SINGLE GLAZE BEADING**

Code No	GWTC60-24
Weight	0.210 kg/m



## LAMINATION SERIES

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MSquare Door & Window systems come in a variety of wood finishes to suit a range of interiors and exteriors lending grace beauty to the architectural design. The available attractive wooden shades are:

**Dark Oak**

**Golden Oak**

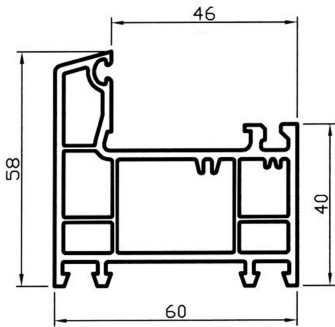
**Walnut**

**Mahogany**

**Black**

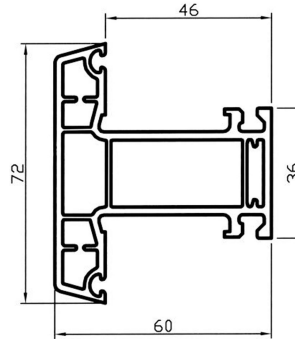


## CASEMENT WINDOW/DOOR SERIES



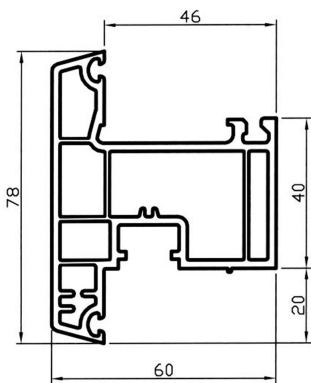
**60 CASEMENT FRAME**

Code No	LMPC60-1
Weight	0.980 kg/m



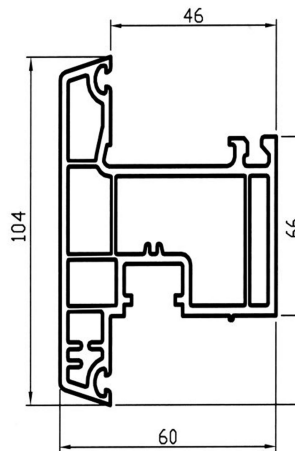
**60 CASEMENT MULLION**

Code No	LMPC60-3
Weight	1.050 kg/m



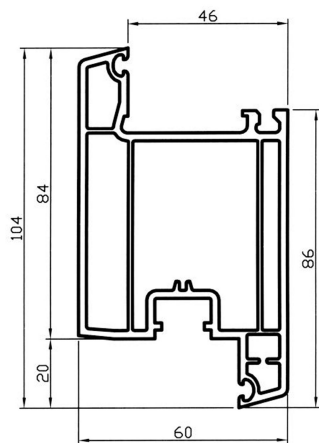
**60 CASEMENT OUTWARD SASH**

Code No	LMPC60-6
Weight	1.300 kg/m



**60 CASEMENT OUTWARD DOOR SASH**

Code No	LMPM60-2
Weight	1.483 kg/m



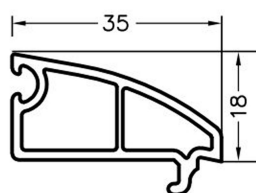
**60 CASEMENT INWARD DOOR SASH**

Code No	LMPM60-1
Weight	1.800 kg/m



**DOOR PANEL - 3 (12MM)**

Code No	LMPM60-3
Weight	0.720 kg/m

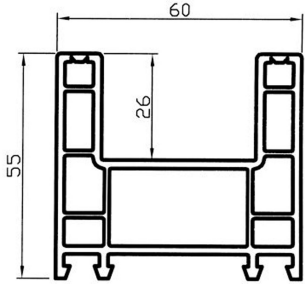


**60 CASEMENT SINGLE GLAZE BEADING**

Code No	LMPC60-9
Weight	0.270 kg/m

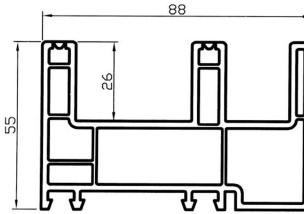
Half Round

## SLIDING WINDOW SERIES



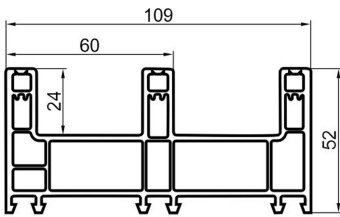
**60 SLIDING FRAME**

Code No	LMTC60-1
Weight	1.000 kg/m



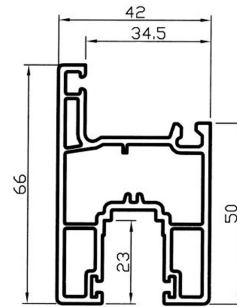
**88 SLIDING FRAME**

Code No	LMTC88-1
Weight	1.380 kg/m



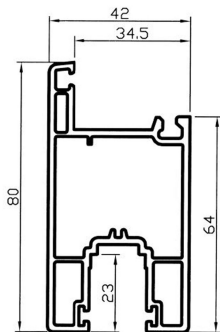
**112 SLIDING THREE TRACK**

Code No	LMTC60-112
Weight	1.720 kg/m



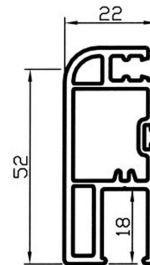
**60 SLIDING WINDOW SASH**

Code No	LMTC60-4
Weight	0.900 kg/m



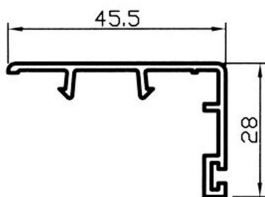
**60 SLIDING DOOR SASH**

Code No	LMTC60-5
Weight	1.060 kg/m



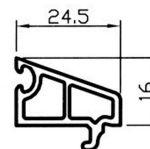
**88 SLIDING INSECT SCREEN**

Code No	LMTC88-4
Weight	0.550 kg/m



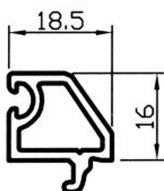
**60 SLIDING WINDOW/DOOR INTERLOCK**

Code No	LMTC60-6
Weight	0.220 kg/m



**60 SLIDING SINGLE GLAZE BEADING**

Code No	LMTC60-8
Weight	0.210 kg/m



**60 SLIDING DOUBLE GLAZE BEADING**

Code No	LMTC60-9
Weight	0.175 kg/m









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