



"A complete system for uPVC & Aluminium Windows and Doors"

uPVC Profiles | Aluminium Profiles | Hardware & Gaskets







# About Us

ENMAKK, a distinguished name in the realm of Doors and Windows industry, stands as a proud member of the revered Makhijani Group, a pioneering force with over three decades of expertise inPVC and various other polymers. With a stellar track record, we annually distribute over 4 lakh tonnes of polymers, making us the trusted choice for businesses across the nation. Our expertise lies in offering a wide range of high-quality commodity polymers and engineering polymers, catering to diverse industrial needs. At Makhijani Group, we blend precision with innovation, ensuring top-notch quality and unmatched reliability in every transaction. Partner with us to experience seamless polymer solutions, delivered with unmatched professionalism and integrity.

Specializing in the manufacturing of uPVC window profiles, ENMAKK excels in delivering top-tier products that redefine durability, aesthetics, and performance. With a latest state of the art extrusion facility coming up in Delhi-NCR, ENMAKK aims to create new benchmarks in the doors and windows industry.

Committed to comprehensive solutions, ENMAKK goes beyond uPVC Systems, offering a diverse range that includes avant-garde aluminium window profiles and hardware. The brands prowess extends to providing complete aluminium and uPVC systems, providing customers with a seamless amalgamation of elegance and functionality. This highlights ENMAKK's dedication to excellence, endorsing the brand's commitment to innovation and superiorquality.

ENMAKK isn't just a brand; it's a promise of innovation, a testament to precision, and a gateway to elevated living spaces. With a legacy rooted in expertise and an eye fixed firmly on the future, ENMAKK is your definitive partner for window solutions that seamlessly merge aesthetics, functionality, and endurance, thereby truly "Bharat ka Vishwasniya"







## PROUDLY ASSOCIATED WITH















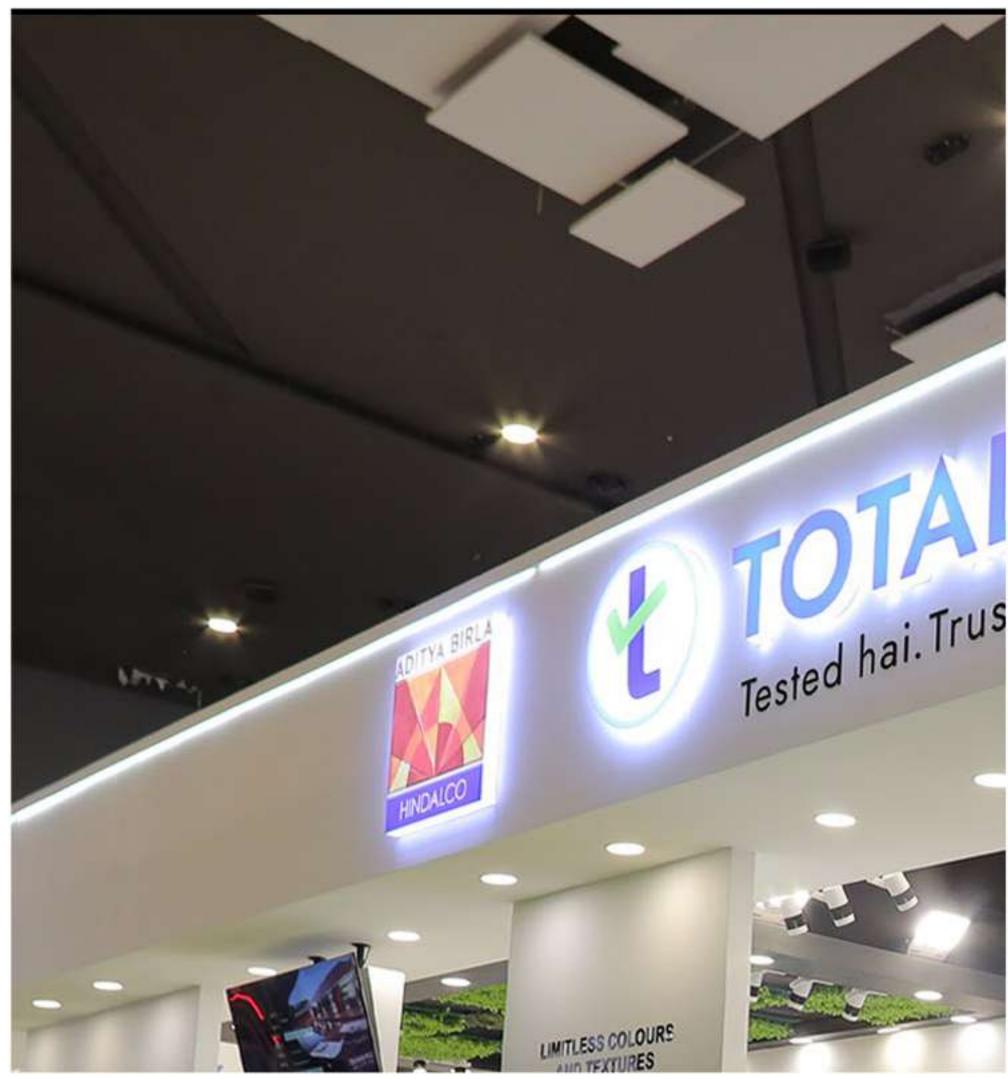






# Matecia' 2023 MATECIA























# Matecia' 2023 MATECIA



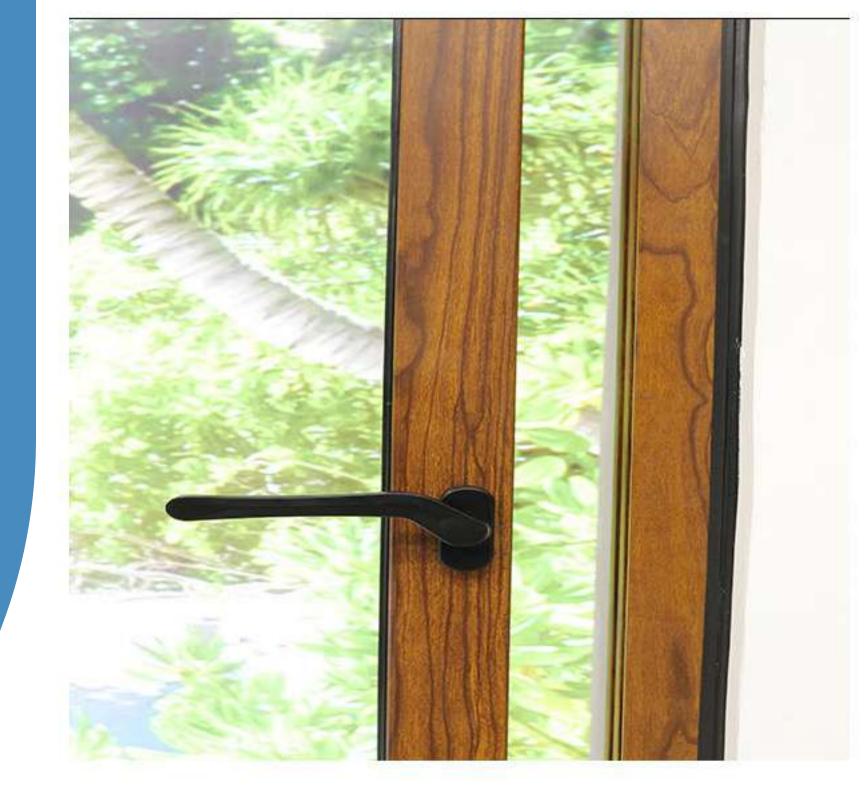




**ENMAKK at Matecia** exhibition 2023 showcased the innovative Totalis systems by Aditya Birla Group's Hindalco















01

## ENGINEERED EXTRUSION

profiles designed for strength, insulation, and durability.



02

## HARDWARE COMPATIBILITY

Handles, hinges, locks, and rollers designed to fit perfectly and function smoothly.



03

## GASKETS & SEALS

Specialized weather seals ensuring air-tightness and water-tightness for energy efficiency.





04

## REINFORCEMENT

Steel reinforcements within the profiles for structural strength and proper wind load-bearing capacity.



05

## FASTENERS & SCREWS

Optimum screws and fasteners are chosen in the sytem design to ensure strong assembly and a longer life.





06

## FUNCTIONALITY & PERFORMANCE

The entire system is tested for wind resistance, water drainage, soundproofing, and thermal efficiency.



07

## HIGH-QUALITY MATERIALS

prevent warping, corrosion, or degradation over time, making the system long-lasting and maintenance-free.





# Test Certificates



### ATMY ANALYTICAL LABS PVT.LTD.

info@atmylabs.com, www.atmylabs.com

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Page 1 of 4



### ATMY ANALYTICAL LABS PVT.LTD.

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### TEST REPORT

Report No.: 2401020185 Date: 10-01-2024

Issued To:

M/s BHARAT POLYZONE PVT. LTD. PLOT NO. - 722, 1ST FLOOR, INDUSTRIAL PARK, BLK-E, DSIDC,

NARELA, DELHI - 110040

Sample Description Sample Received Date

UPVC PROFILE SAMPLE, BRAND ENMAKK : 02-01-2024

Sample Drawn By

Client

Specification

**Test Requested Test Method** 

RoHS 2.0 (Pb,Cd,Hg,Cr6,PBB,PBDE,Phthalates)

Test Result

Refer to Attached Pages. Refer to Attached Pages.

### SAMPLE PICTURE



## TEST REPORT

Page 2 of 4 Date: 10-01-2024 Report No.: 2401020185

I. Chemical

TEST PARAMETER	TEST METHOD	MDL (mg/kg)	RESULTS (mg/kg)	LIMIT (mg/kg)
Lead (as Pb) (CAS No. 7439-92-1)	IEC 62321-5:2013,	1.0	56.0	Max 1000.0
Cadmium (as Cd) (CAS No. 7440-43-09)	IEC 62321-5:2013,	1.0	ND	Max 100.0
Mercury (as Hg) (CAS No. 7439-97-6)	IEC 62321-4:2013	2.0	ND	Max 1000.0
Hexa Chromium (as Cr+6) (CAS No. 10588-01-9)	IEC 62321-7-2:2017	1.0	ND	Max 1000.0
Sum of PBBs (Mono to Deca)				Max 1000.0
Monobromobiphenyl (CAS No. 92-52-4)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	
Dibromobiphenyl (CAS No. 92-86-4)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	
Tribromobiphenyl (CAS No. 59080-34-1)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	
Tetrabromobiphenyl (CAS No. 40088-45-7)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	
Pentabromobiphenyl (CAS No. 56307-79-0)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	
Hexabromobiphenyl (CAS No. 59080-40-9)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	
Heptabromobiphenyl (CAS No. 35194-78-6)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	
Octabromobiphenyl (CAS No. 6188-13-9)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	
Nonabromobiphenyl (CAS No. 27753-52-2)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	
Decabromobiphenyl (CAS No. 13654-09-6)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	

BIS, DGQA & Various Govt. Approved Laboratory ISO 9001 : 2015, ISO 14001:2015 & OHSAS 18001:2007 Certified Laboratory Terms & Conditions: 1. Sample will not be retained more than one month for chemical and three month for mechanical unless specified instructed. 2. Samples analysis conducted on as received basis and followed by customer description, unless specified otherwise. 3. The laboratory will not be liable for sample destroy/damage during testing, unless instructed otherwise. 4. Any Complaints matter about this report should be communicated in written, within 7 days of issue of this report. 5. The result listed refer only to the tested samples and applicable parameters as described by customer. Endorsement of product is neither inferred nor implies. 6. Total liability of our laboratory is limited to the invoiced amount only. 7. This report cannot be used as and evidence in a court of law without the written approval of the laboratory.



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MSF 5.10.01

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 Testing Research Innovation



Page 3 of 4 Report No.: 2401020185 Date: 10-01-2024

TEST PARAMETER	TEST METHOD	MDL (mg/kg)	RESULTS (mg/kg)	LIMIT (mg/kg)
Sum of PBDEs (Mono to Deca)				Max 1000.0
Monobromodiphenyl ether (CAS No. 101-55-3)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	
Dibromodiphenyl ether (CAS No. 205047-7)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	
Tribromodiphenyl ether (CAS No. 49690-94-0)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	
Tetrabromodiphenyl ether (CAS No. 40088-47-9)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	
Pentabromodiphenyl ether (CAS No. 32534-81-9)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	
Hexabromodiphenyl ether (CAS No. 36483-60-0)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	
Heptabromodiphenyl ether (CAS No. 68928-80-3)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	
Octabromodiphenyl ether (CAS No. 32536-52-0)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	
Nonabromodiphenyl ether (CAS No. 63936-56-1)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	
Decabromodiphenyl ether (CAS No. 1163-19-5)	IEC 62321-6:2015 test performed by GC-MS	5.0	ND	



(CAS No. 84-69-5)

Report No.: 2401020185

## TEST REPORT

Page 4 of 4 Date: 10-01-2024

TEST PARAMETER	TEST METHOD	(mg/kg)	RESULTS (mg/kg)	LIMIT (mg/kg)
Phthalates				
Di-ethylhexlphthalate (DEHP) (CAS No. 117-81-7)	IEC 62321-8:2017 test performed by GC-MS	30.0	ND	Max 1000.0
Benzylbutylphthalate (BBP) (CAS No. 85-68-7)	IEC 62321-8:2017 test performed by GC-MS	30.0	ND	Max 1000.0
Dibutylphthalate (DBP) (CAS No. 84-74-2)	IEC 62321-8:2017 test performed by GC-MS	30.0	ND	Max 1000.0
Di-isobutylphthalate (DIBP)	IEC 62321-8:2017 test	30.0	ND	Max 1000.0

performed by GC-MS

The maximum permissible limits are quoted from the European Parliament and Council Directive 2005/84/EC(amending

Directive 2015/863 amending annex. II to Directive 2011/65/EU). MDL = Method detection limits

N.D.= Not detected at the detection limits. mg/kg = ppm (parts per million); 0.1wt% = 1000ppm

Lead content more than 85% in its alloys (Tin-Lead solder alloys) are exempted as per directives 2002/95/EC, Annexure





**Authorised Signatory** 



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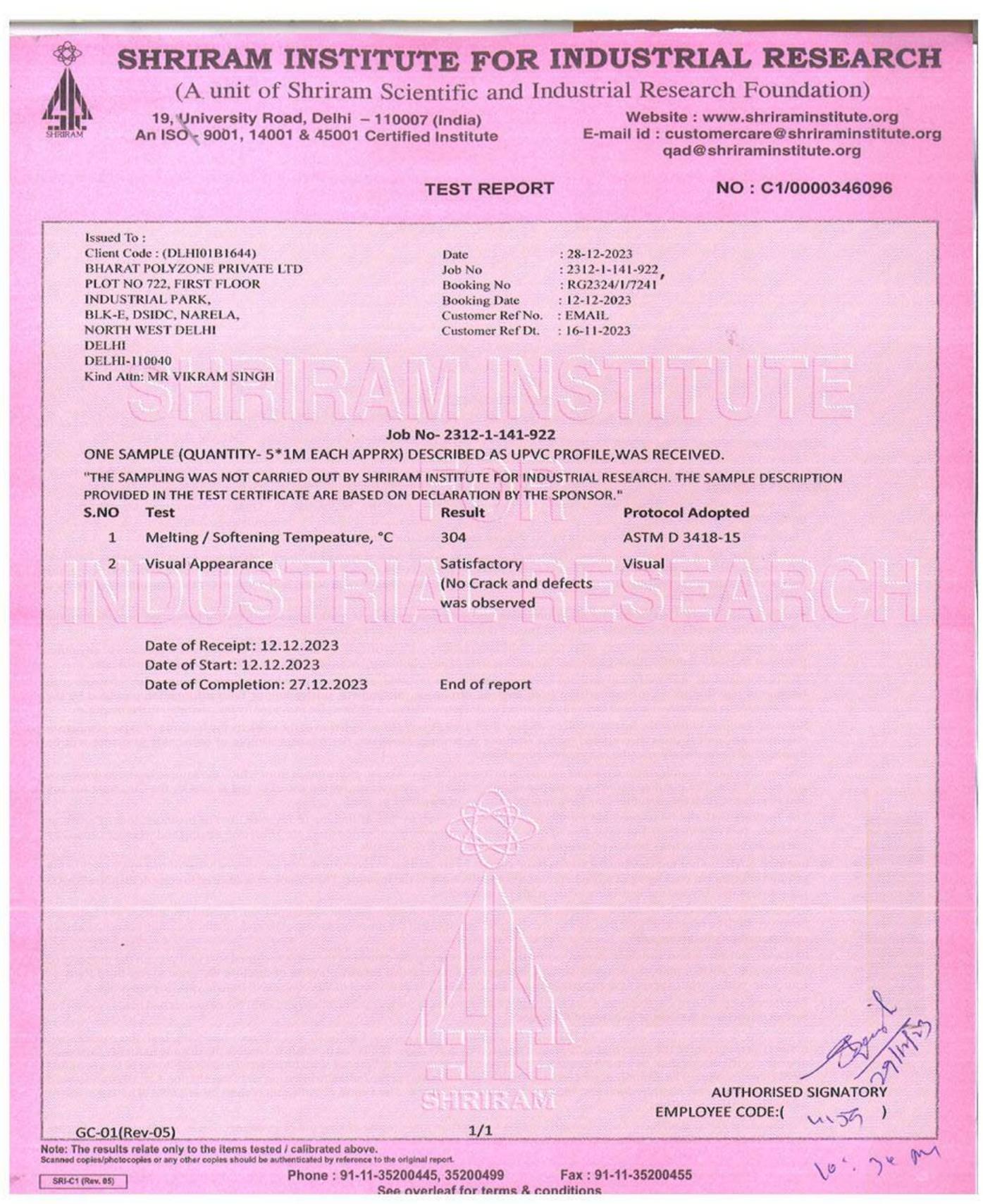
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Issued				Million Capture
	Code : (DLHI01B1644) AT POLYZONE PRIVATE LTD	Date Job No	: 28-12-2023	
PLOT	NO 722, FIRST FLOOR	Booking No	: 2312-1-141-921 : RG2324/1/7241*	Hac MRA
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S.NO	Test	Result		Adopted
1	Fire Spread Test (Flammability),mm/min	The flame front reach 25mm ref	does not ASTM D	635-18
		mark		
\2	Tensile Strength, MPa	47	ASTM D	538-14
3_	Elongation at Break, %	149	ASTM D	538-14
4	Density,g/cc	1.51	ASTM D 7	792-20
5	Izod Impact Strength,J/m	1415	ASTM D 2	
6	Limiting Oxygen Index, %	44	ASTM D 2	
7	Thermal Conductivity, W/m.k	0.2174	ISO 22007	
8	Water Absorption , % by mass	0.02	ASTM D 5	
9	Tensile Modulus (Elaslicity), MPa	934	ASTM D 6	
10	Heat Reversion, %	0.7	IS 4985:20	
	(at 150 °C for 60 mins)	(The section)	13 4363.20	
11	Hardness, Shore D	80	ASTM D 2	240-20
12	Dimensions Tolerance,mm		SOP/PR/O	2
	a) Length	1157		
	b) Width	60		
	Date of Receipt: 12.12.2023			
	Date of Start: 12.12.2023			
	Date of Completion: 27.12.2023	End of report		
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TEST REPORT Page 2 of 3 Report No.: 2401020184 Date: 10-01-2024 I. Mechanical RESISTANCE TO IMPACT FALLING MASS Test performed on: 02-01-2024 to 10-01-2024 Test Method: BS EN 12608 **Test Method Test Parameter** Unit Result BS EN 12608 Resistance to impact by falling mass No cracks observed \*\* (at 1500mm height, weight 1kg and temp. -10°C)



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TEST REPORT

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Page 3 of 3 Report No.: 2401020184 Date: 10-01-2024 I. Mechanical Test performed on: 02-01-2024 to 10-01-2024 WEATHERBILITY RESISTANCE TEST Test Method: EN 513, DIN EN 12608-1 WEATHRABILITY RESISTANCE TEST **Test Condition:** 100 hrs. Duration Light source Xenon arc Filter Terrestrial daylight simulation Rising Wavelength 300-400 nm 60 ±2 W/m<sup>2</sup> Irradiance Water Spray Cycle 6 min water spray, 114 min dry cycle **Black Standard Temperature** 63 ±3 °C White Standard Temperature 45-50 °C Relativity Humidity 55 ±5 % Observation :- Visual no colour discoloration, no shape deformation, no cracking and no abnormality observed. -----End of Report-----





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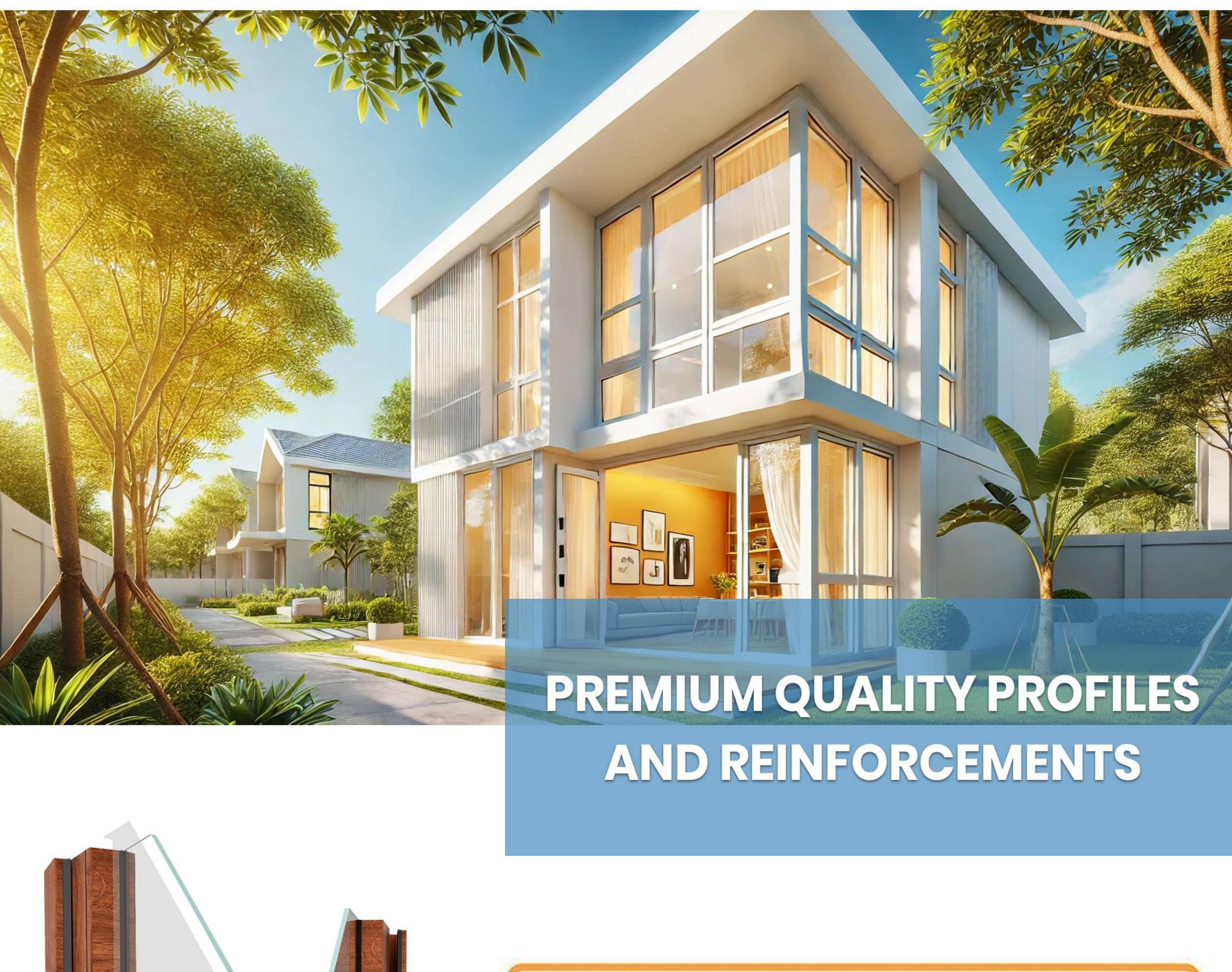
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Terms & Conditions:





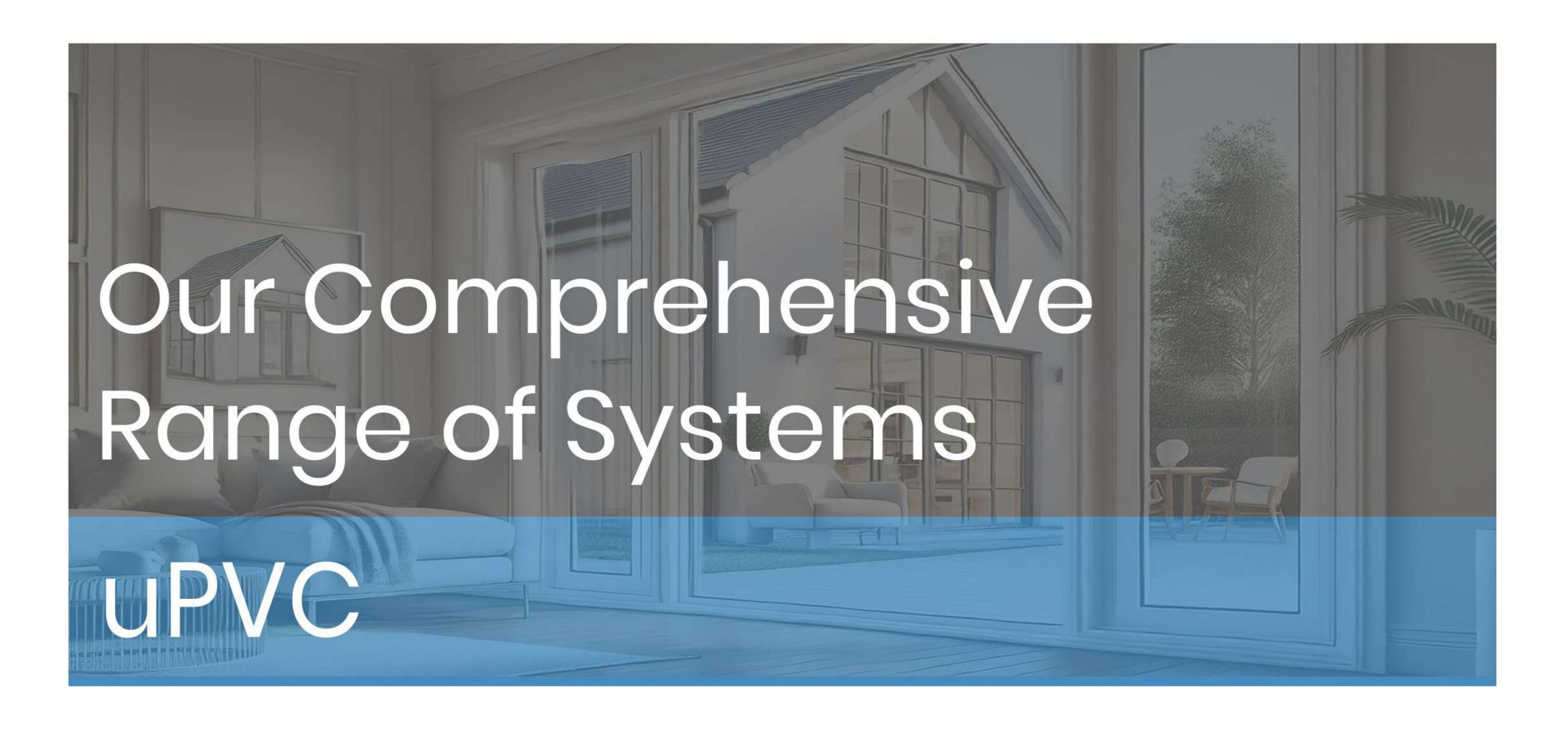


High quality profile composition optimised for drastic indian weather conditions with upto 7PHR titanium.

02

High quality galvanised steel reinforcements upto 1.5mm thickness, ensuring high wind load bearing capacity as well as high screw holding capacity, ensuring perfect hardware fitment and longevity in functionality











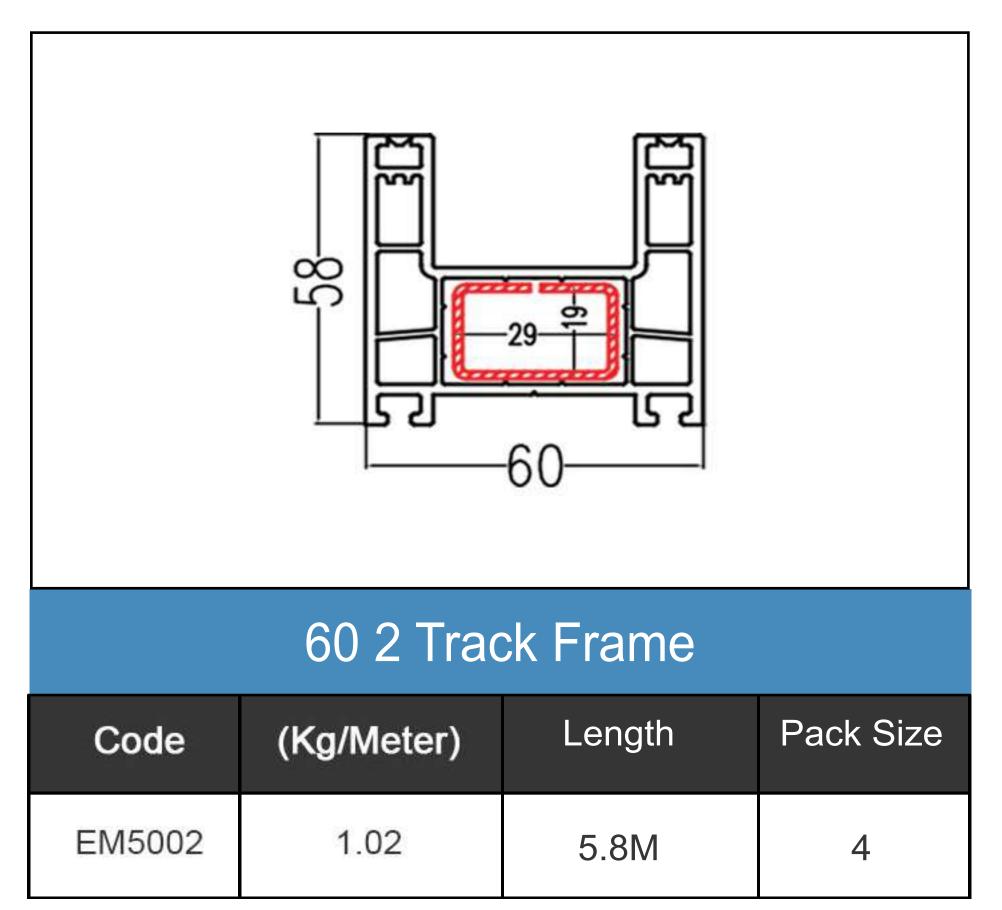


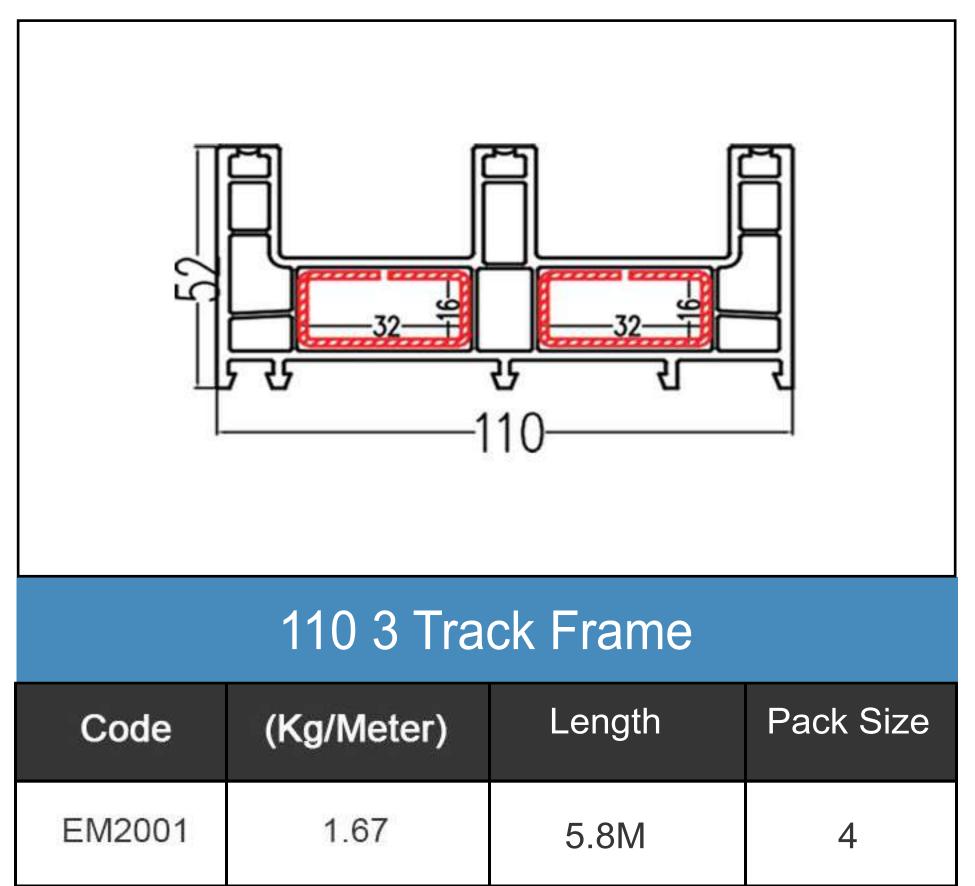


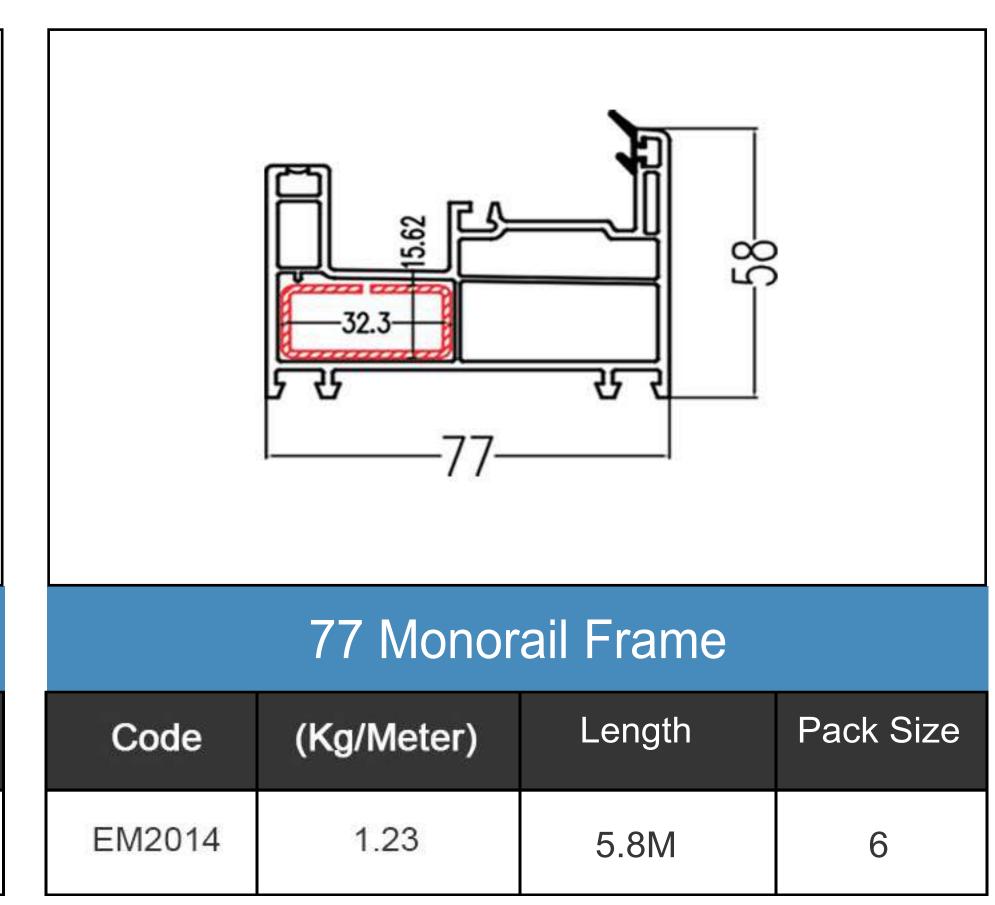


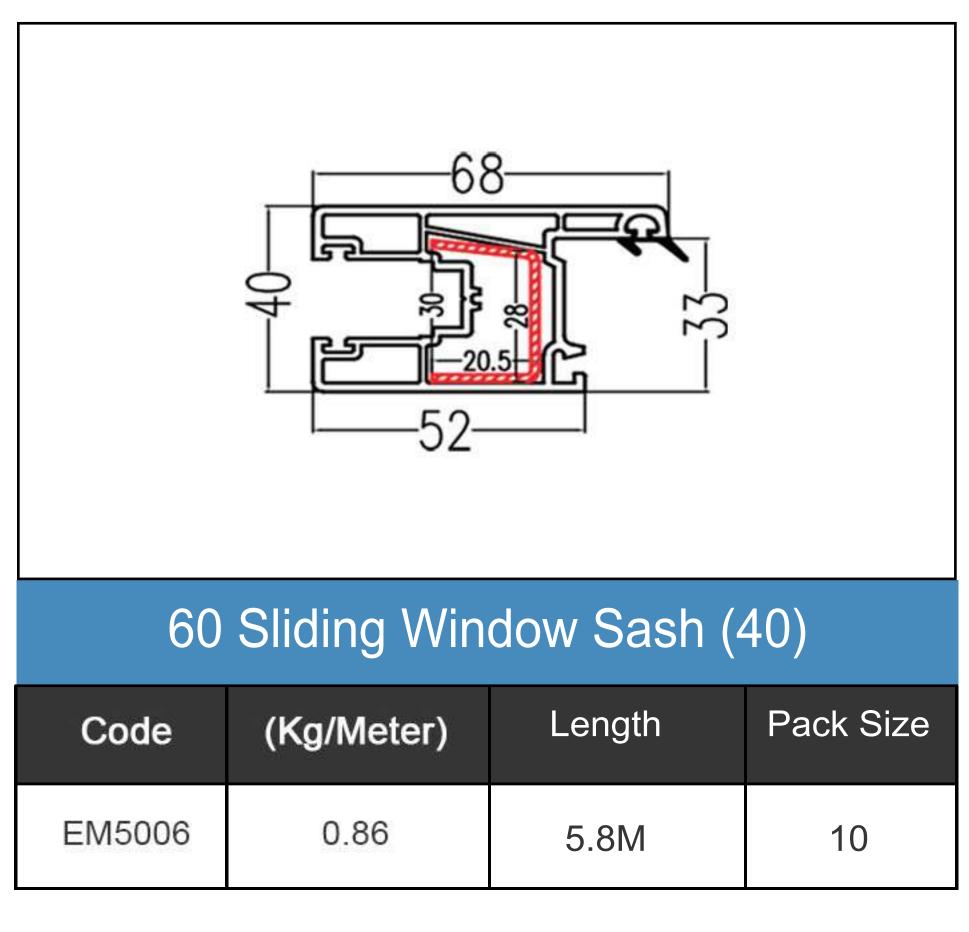


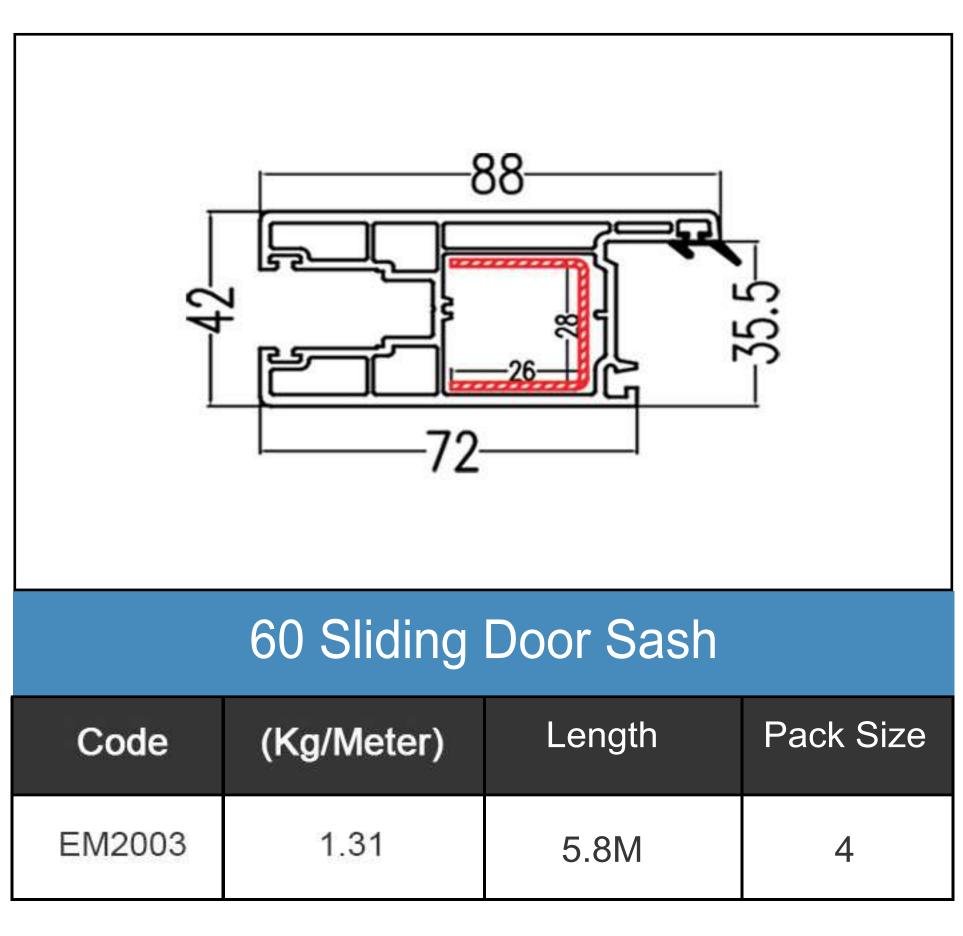
# 60 Sliding Series

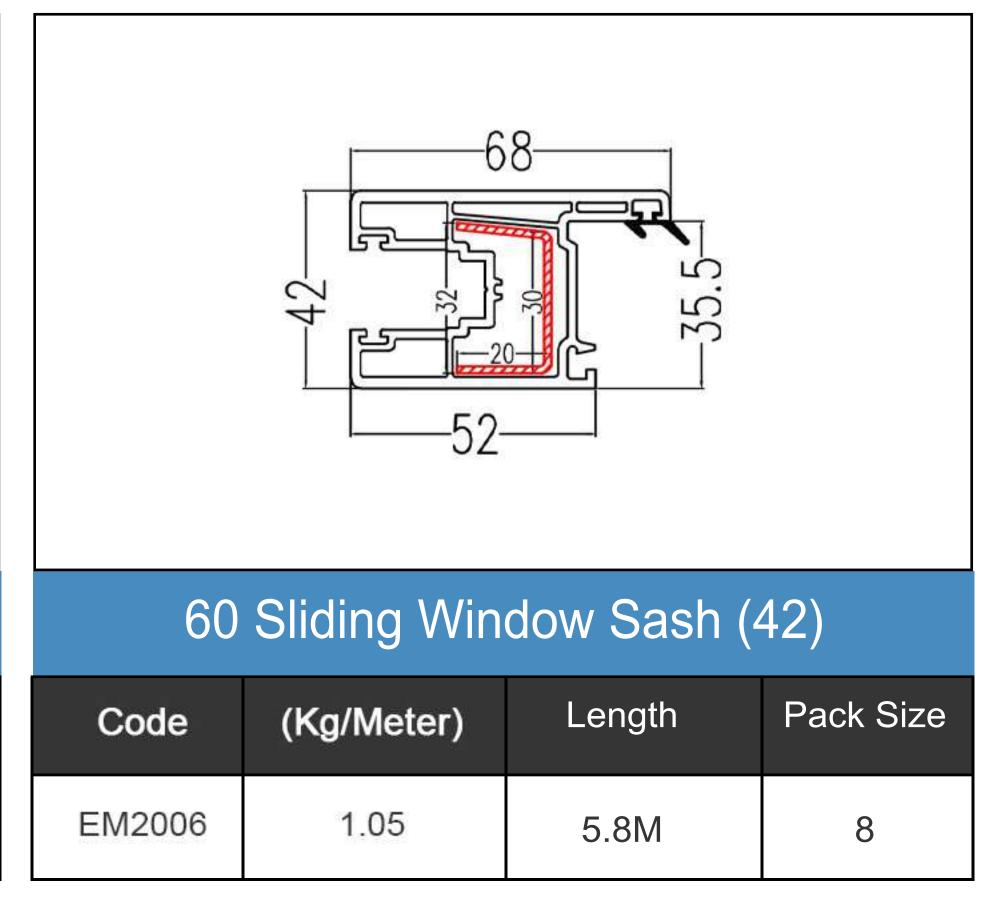


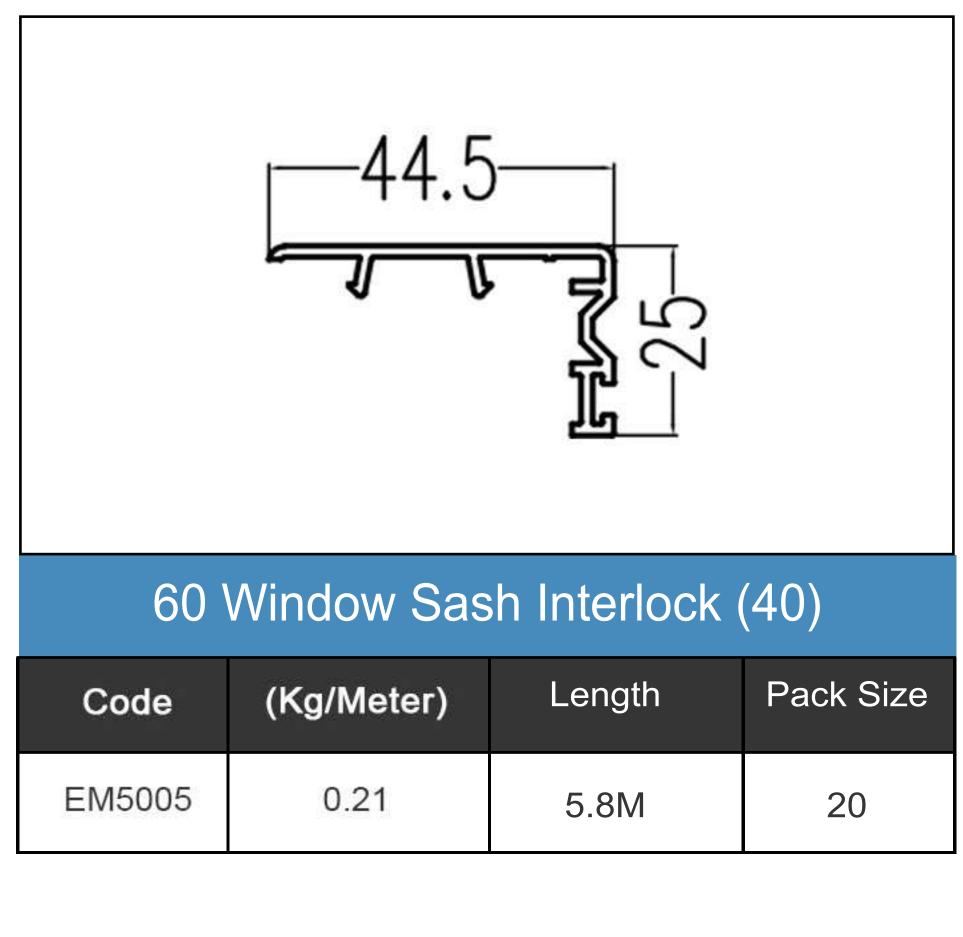


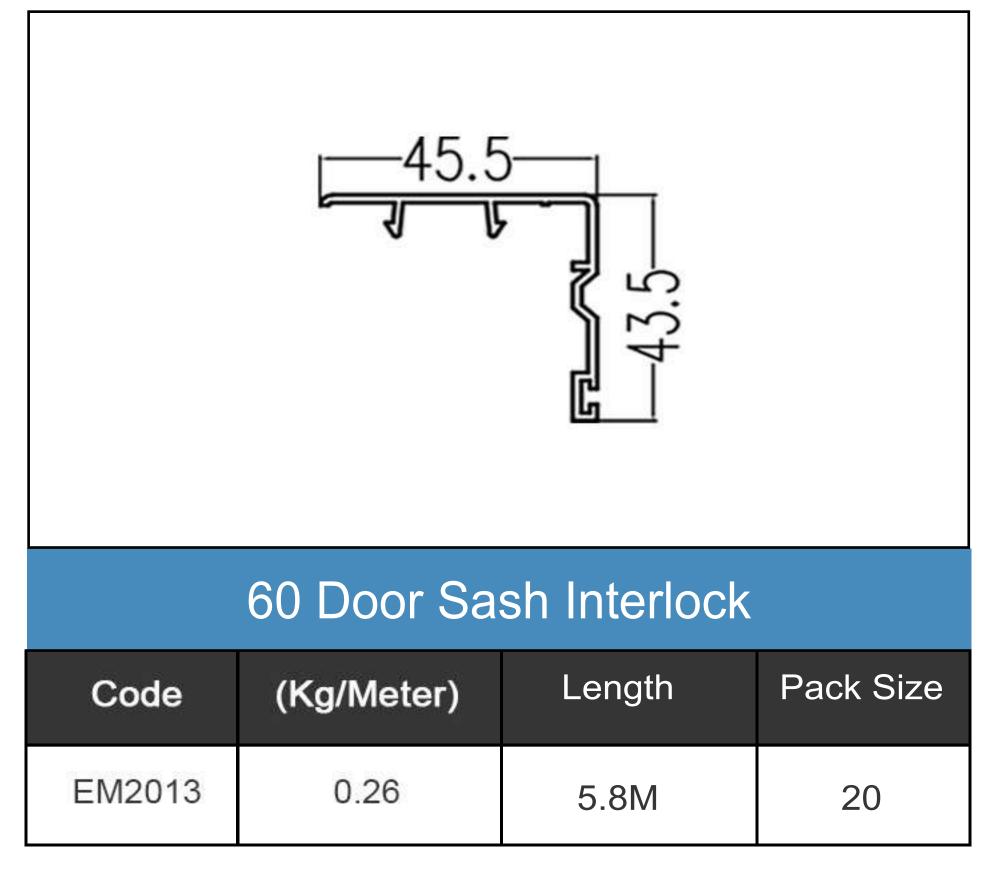


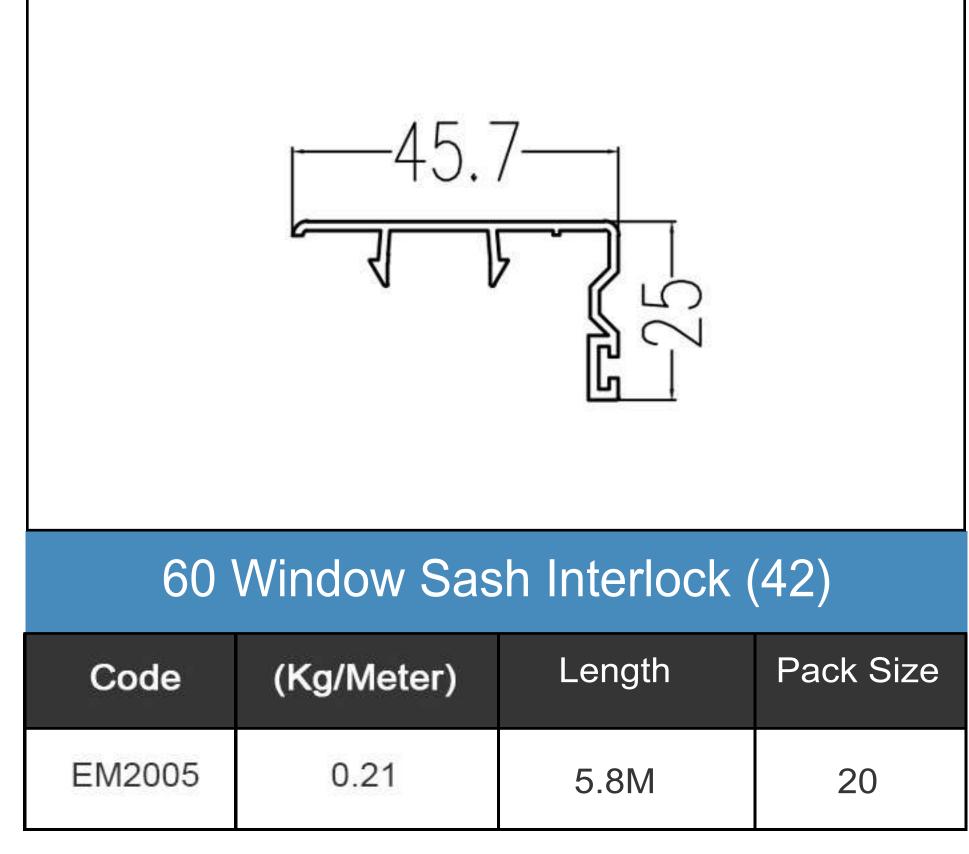


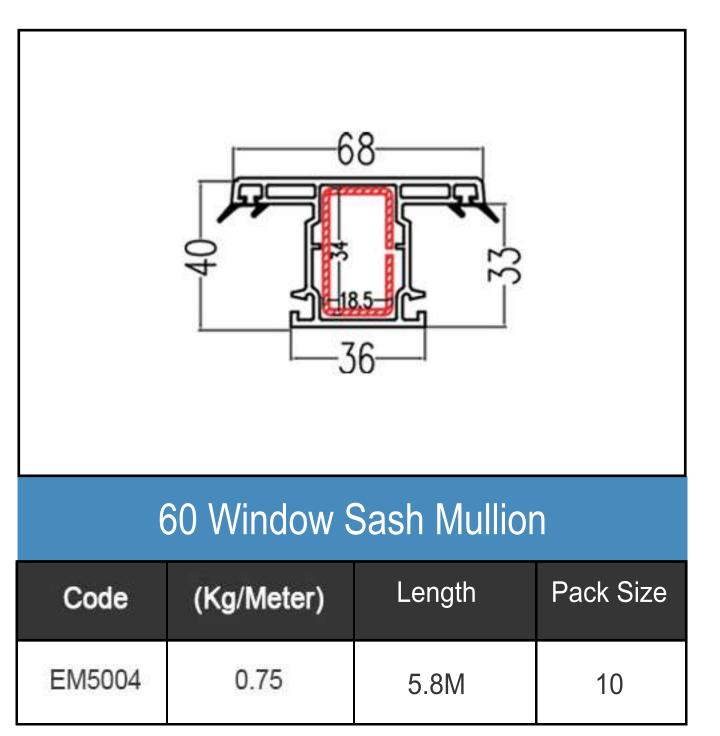


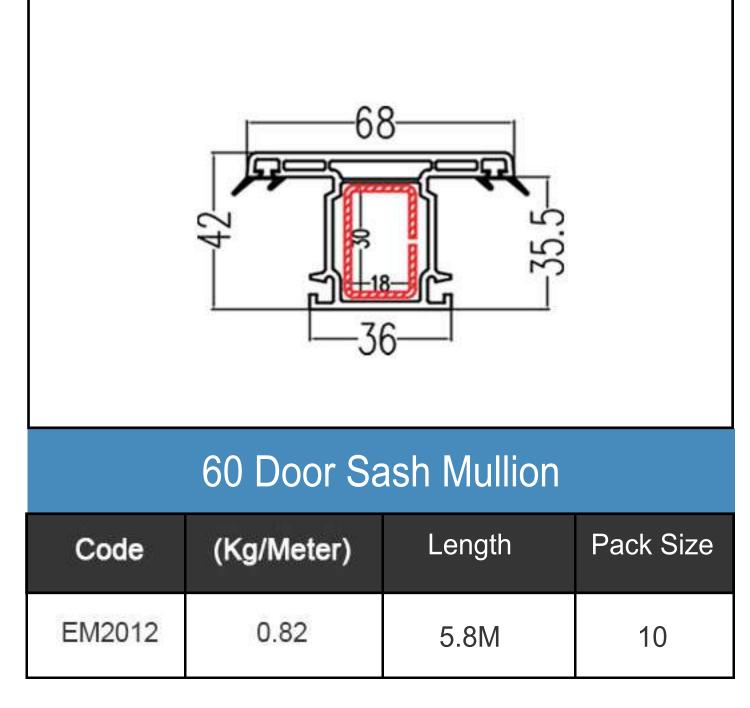


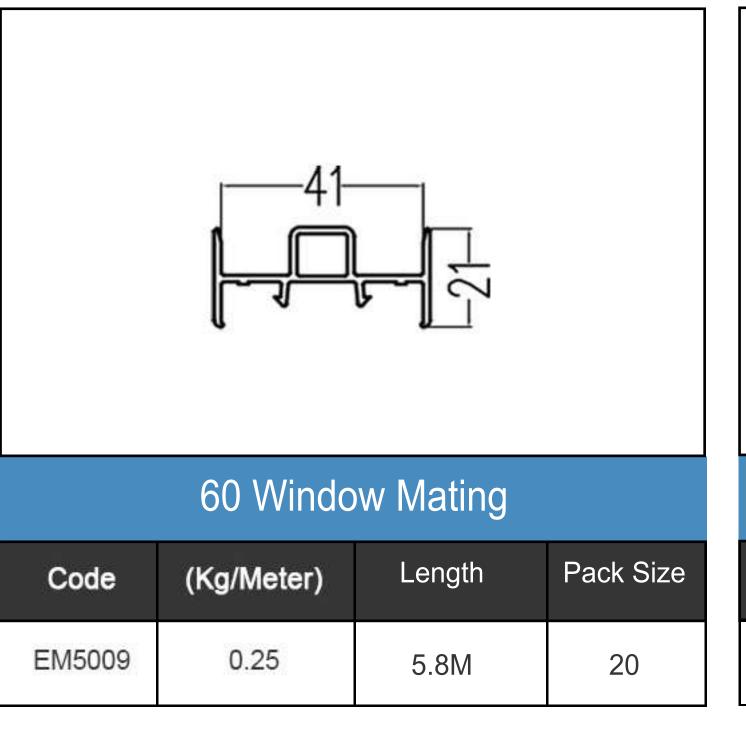


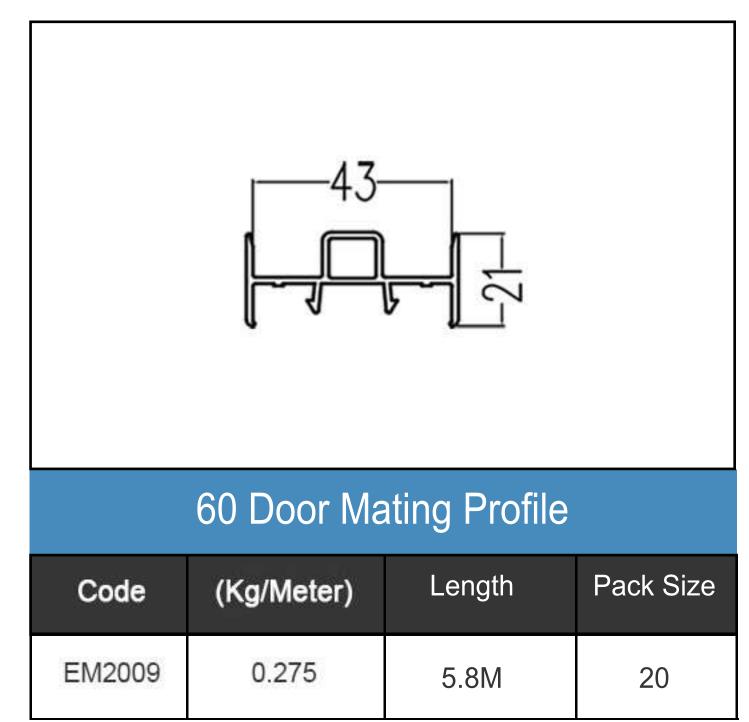






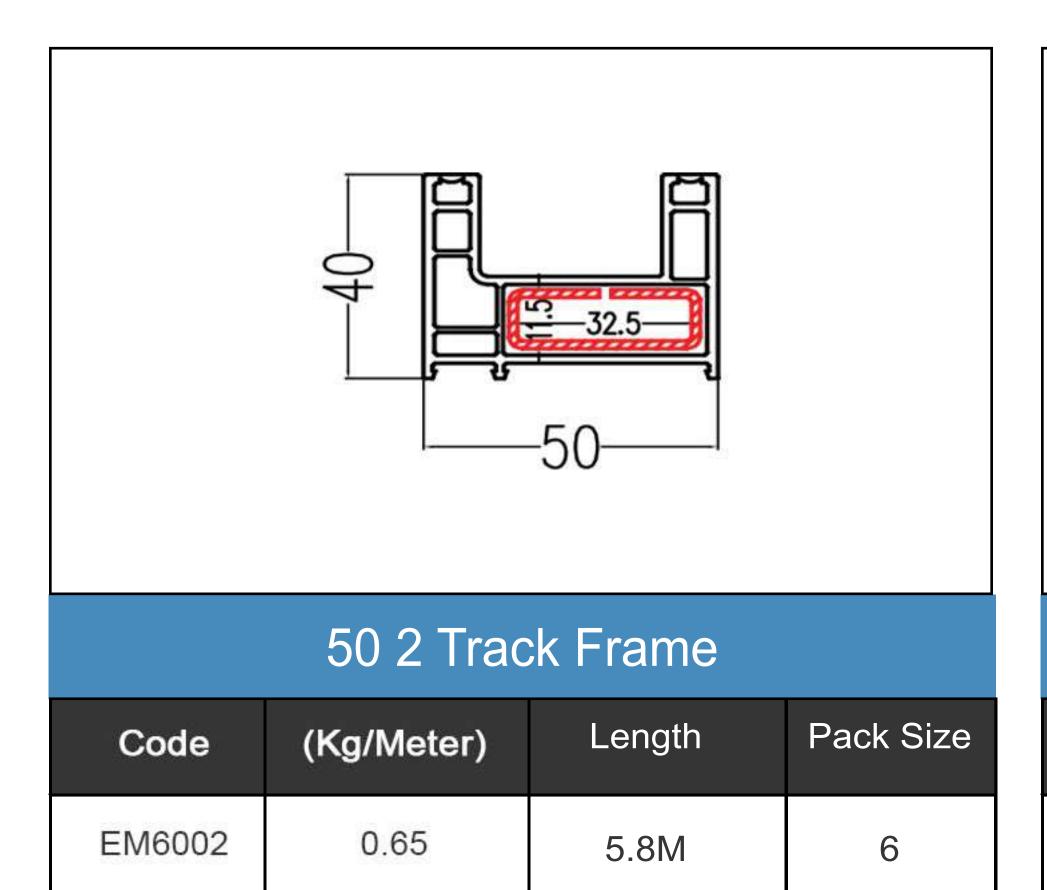


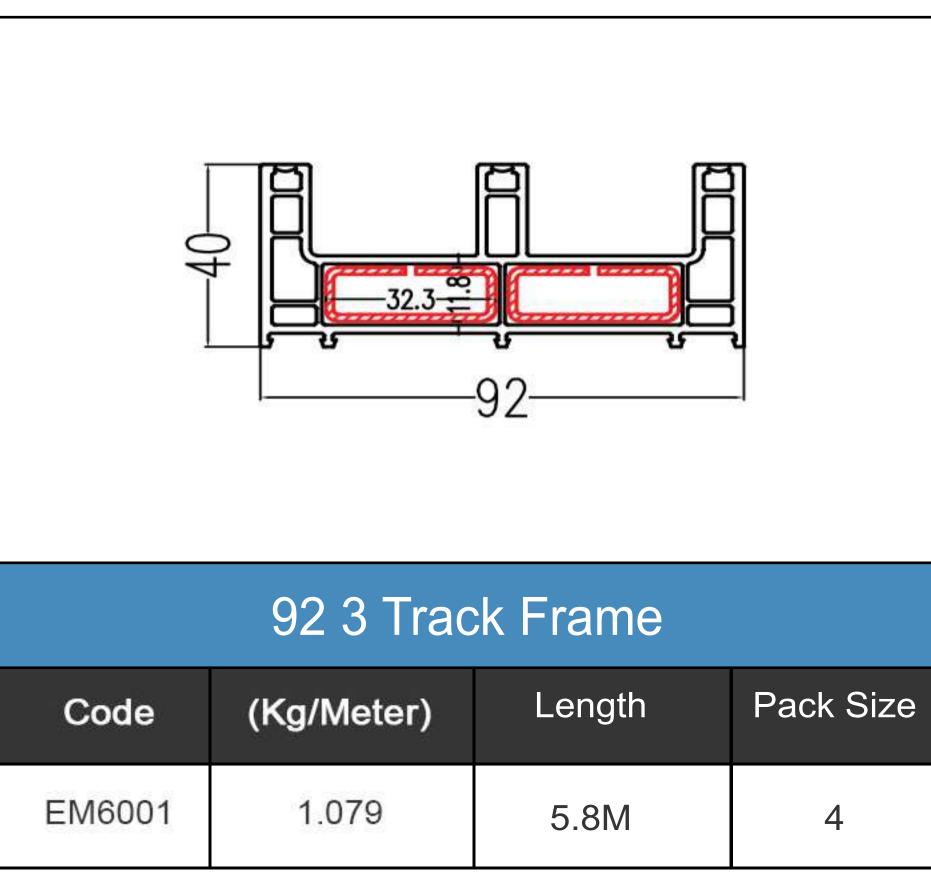


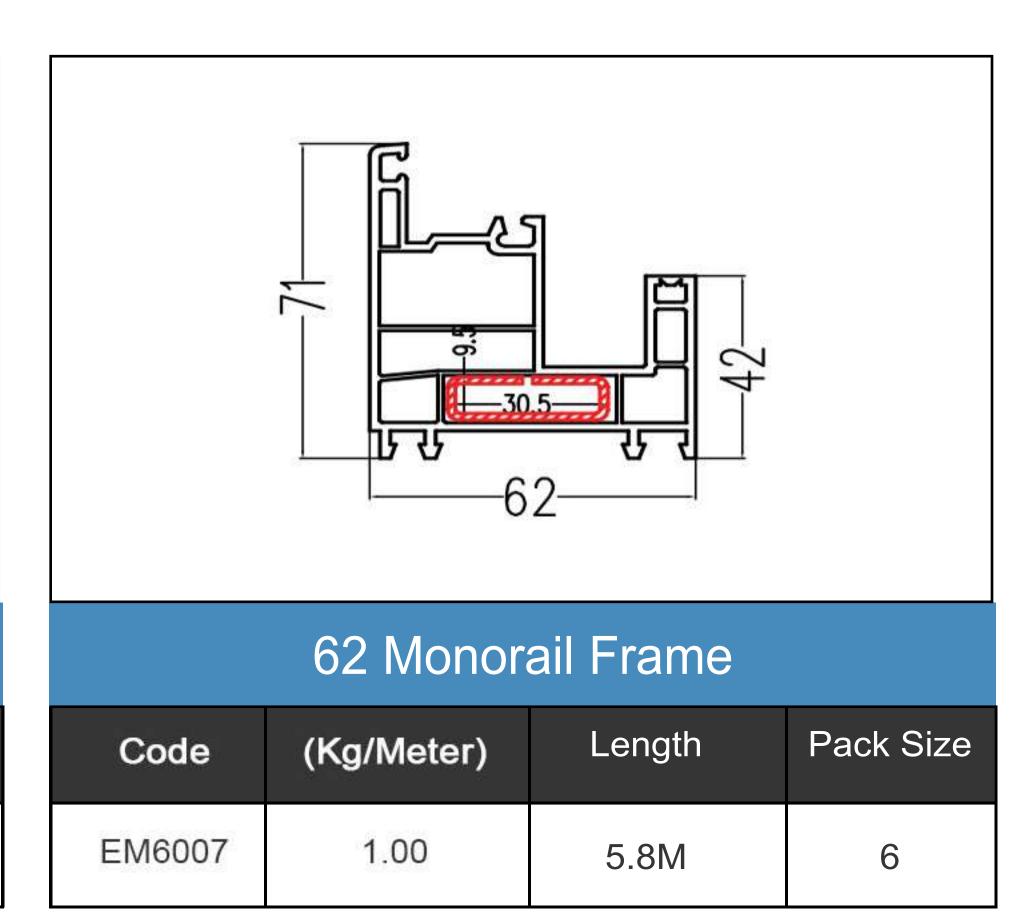


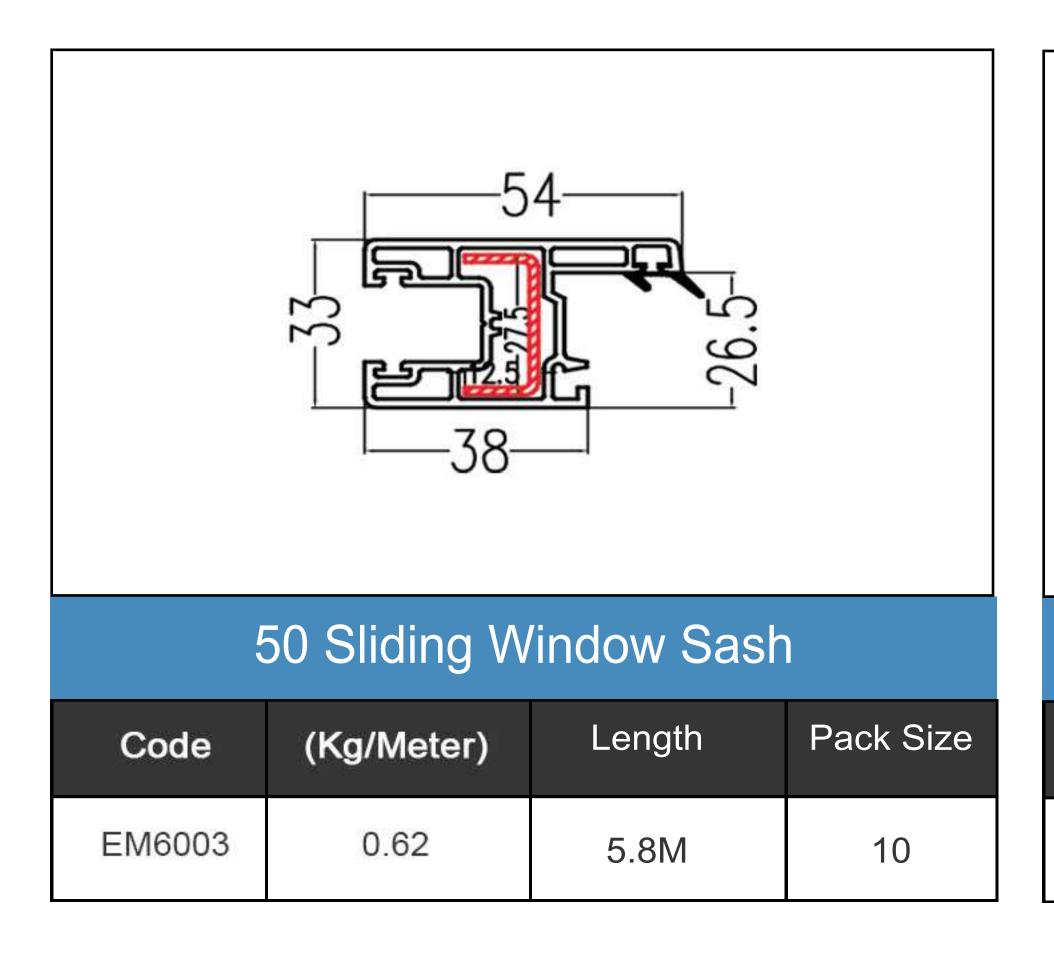


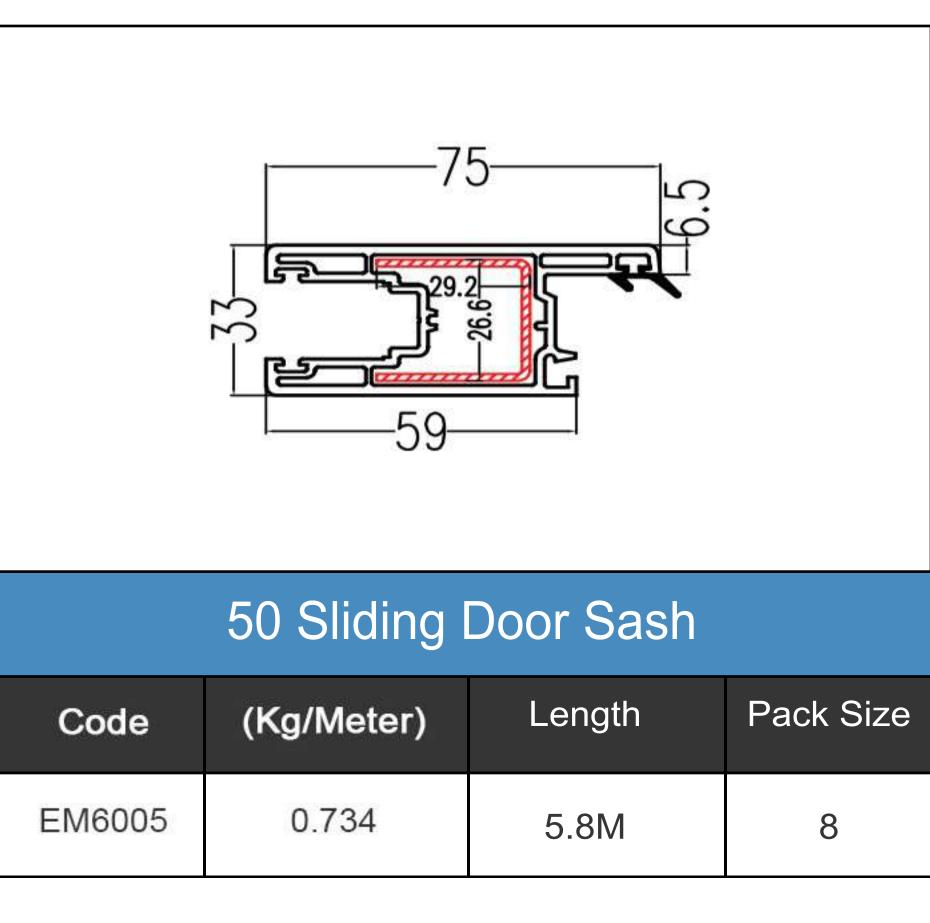
# 50 Sliding Series

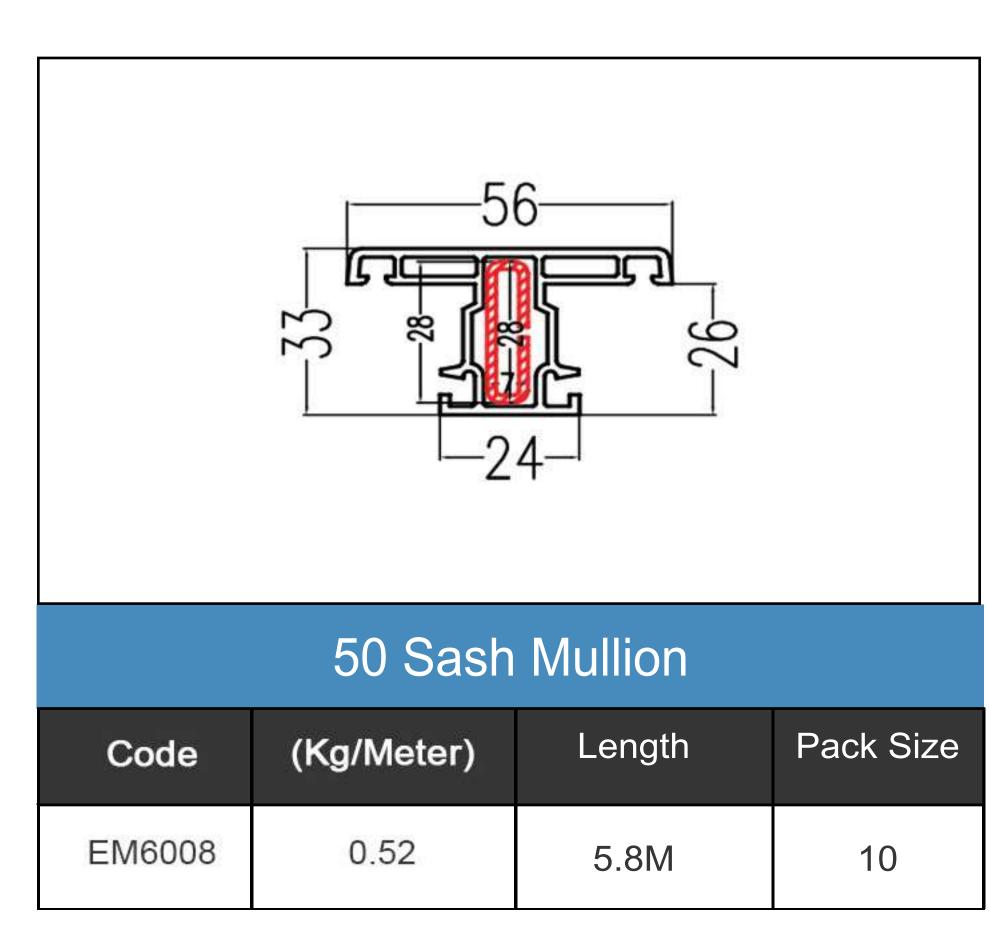


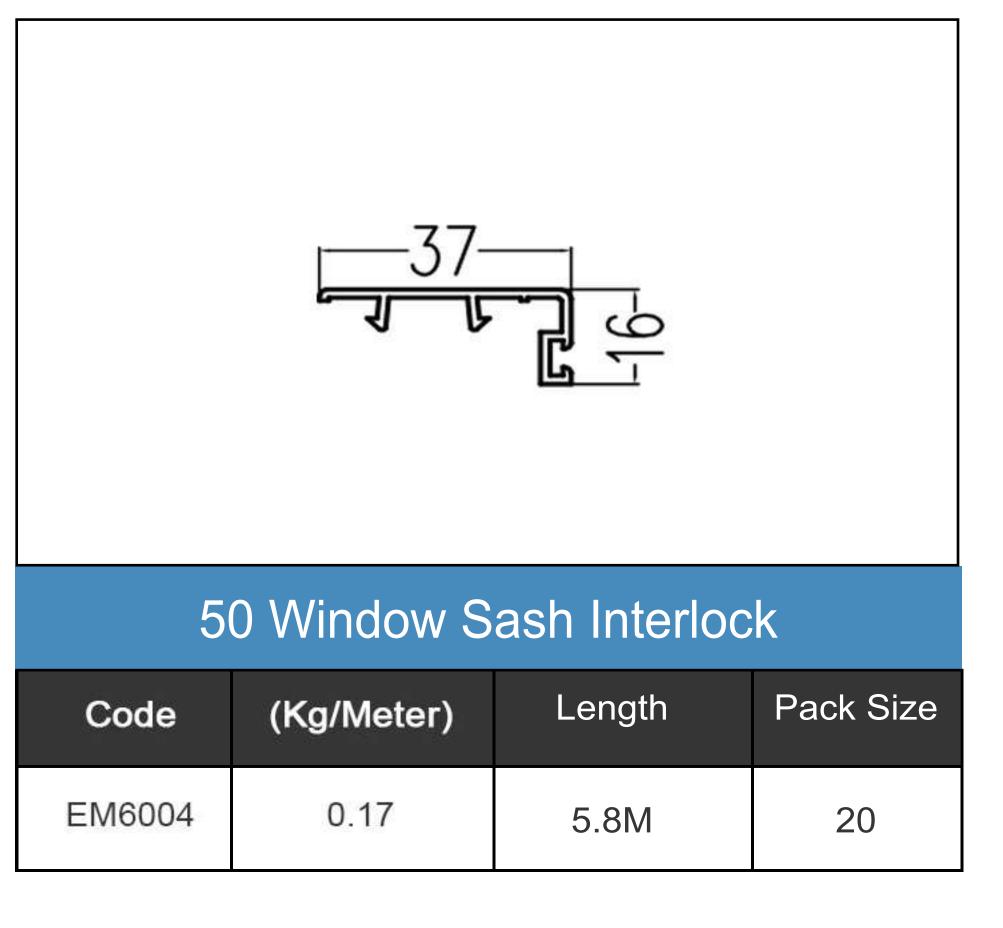


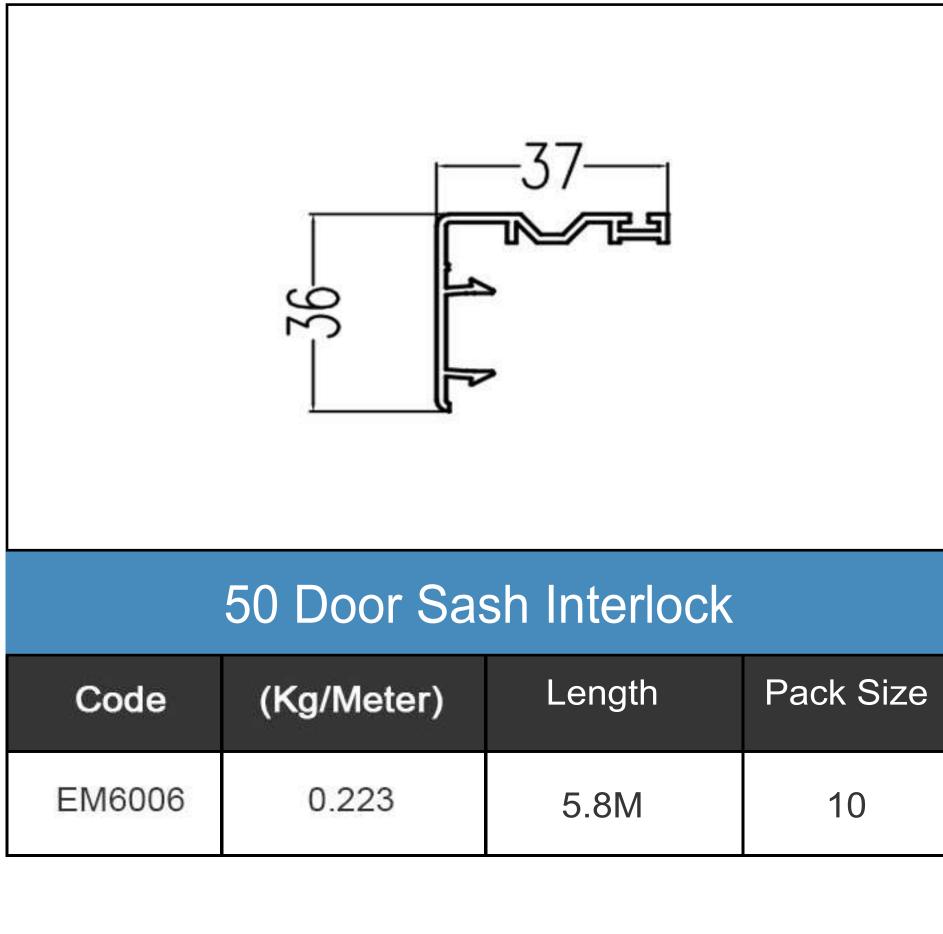


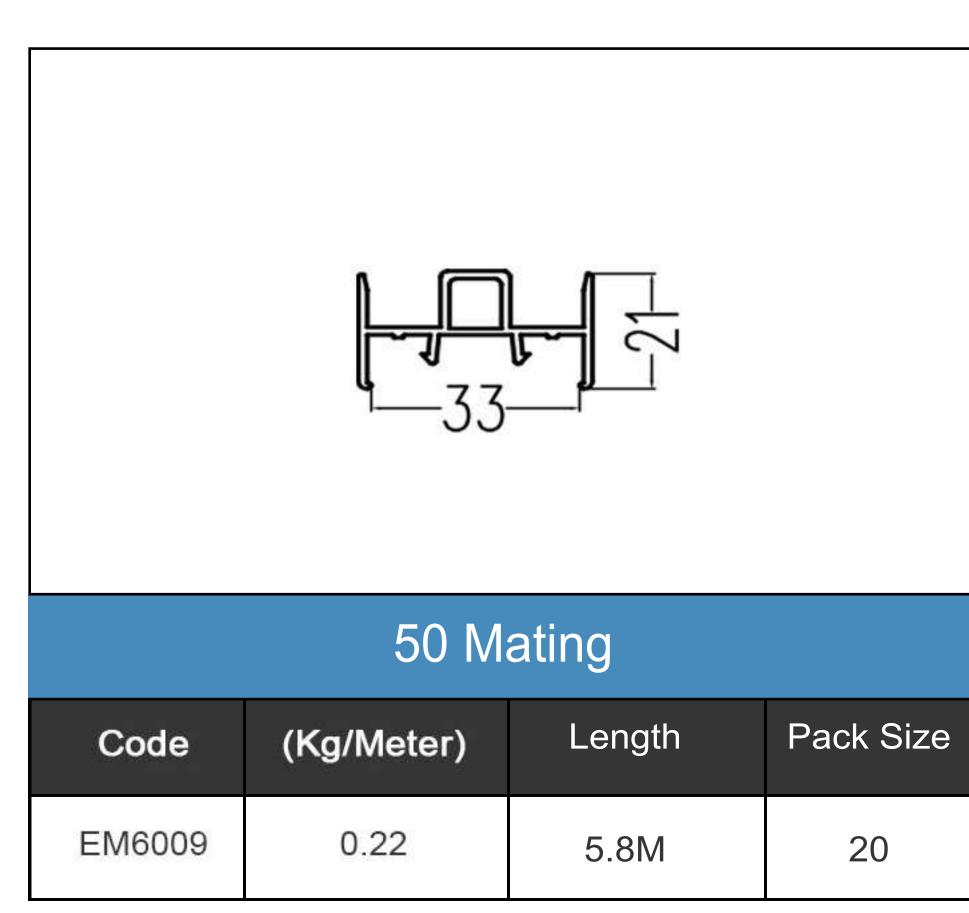






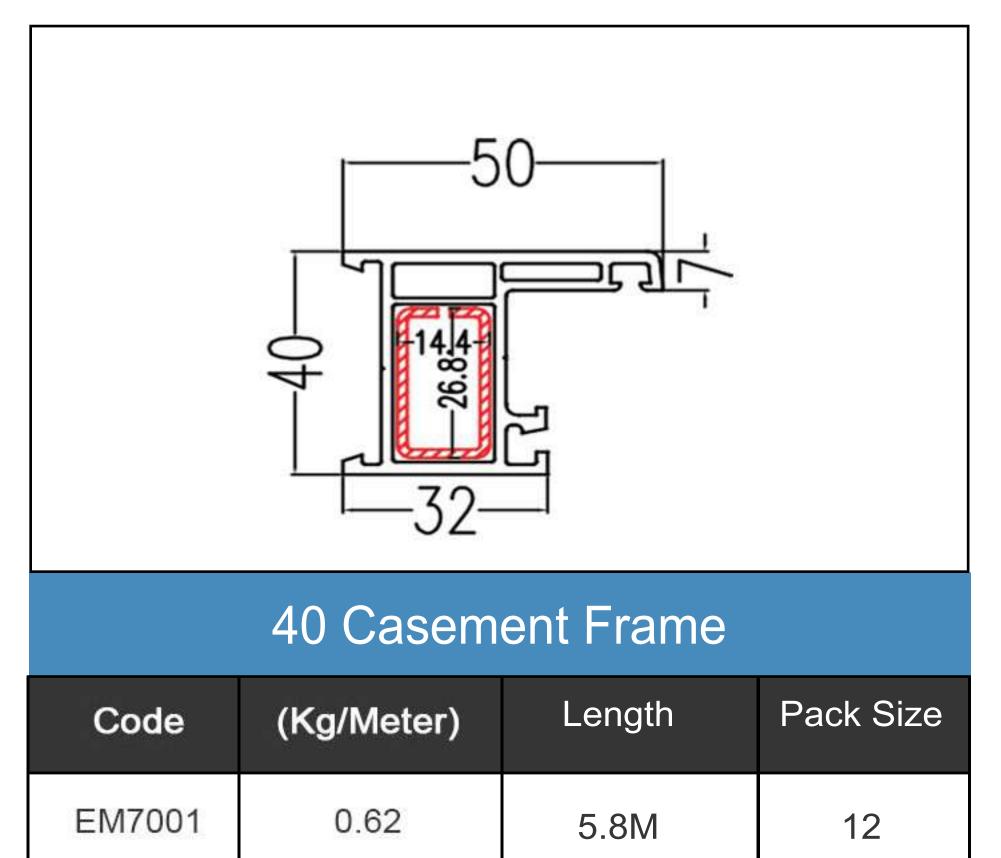


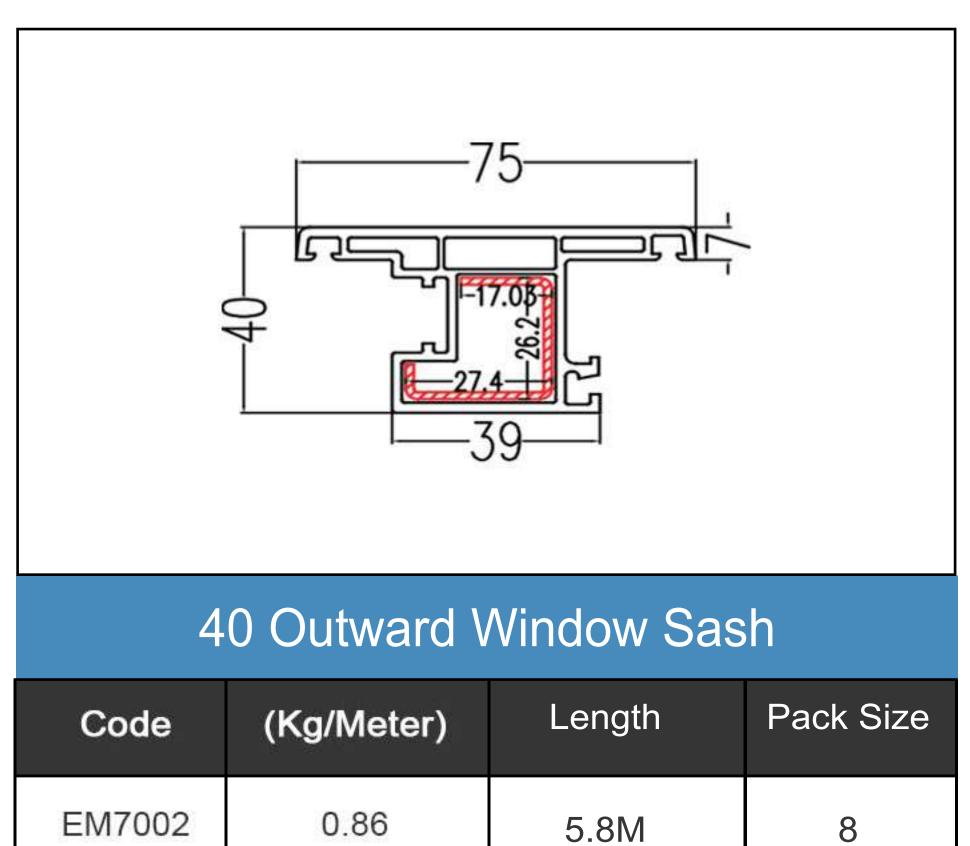


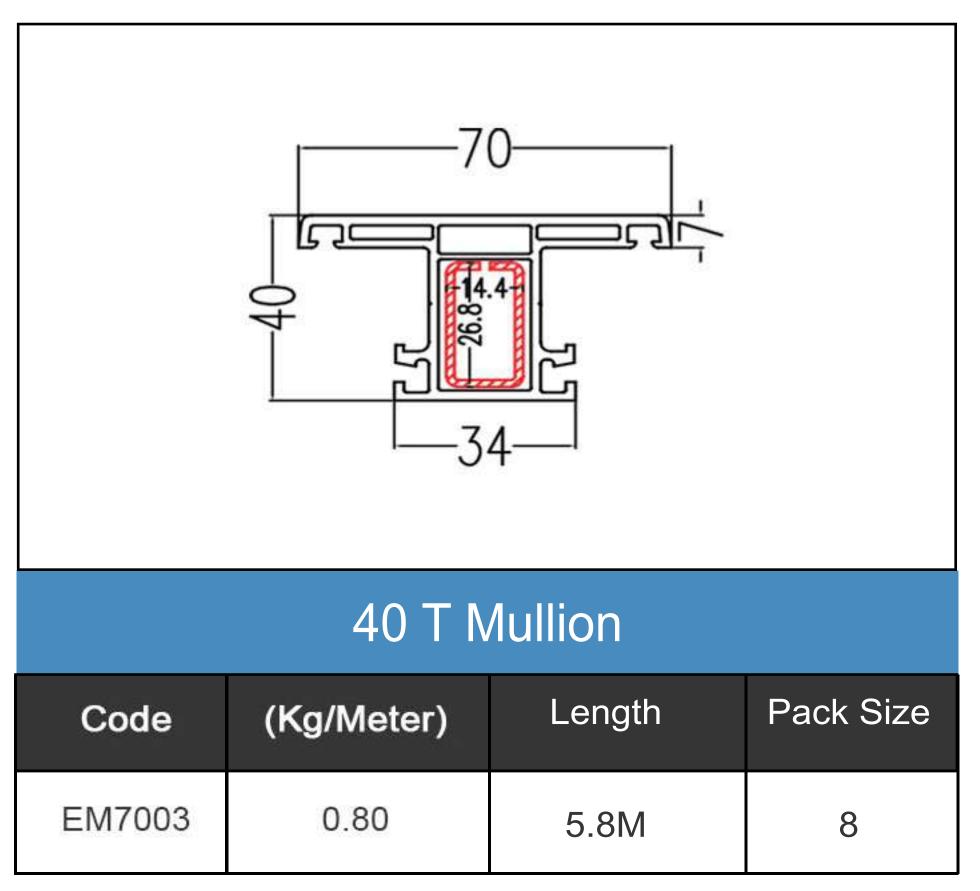


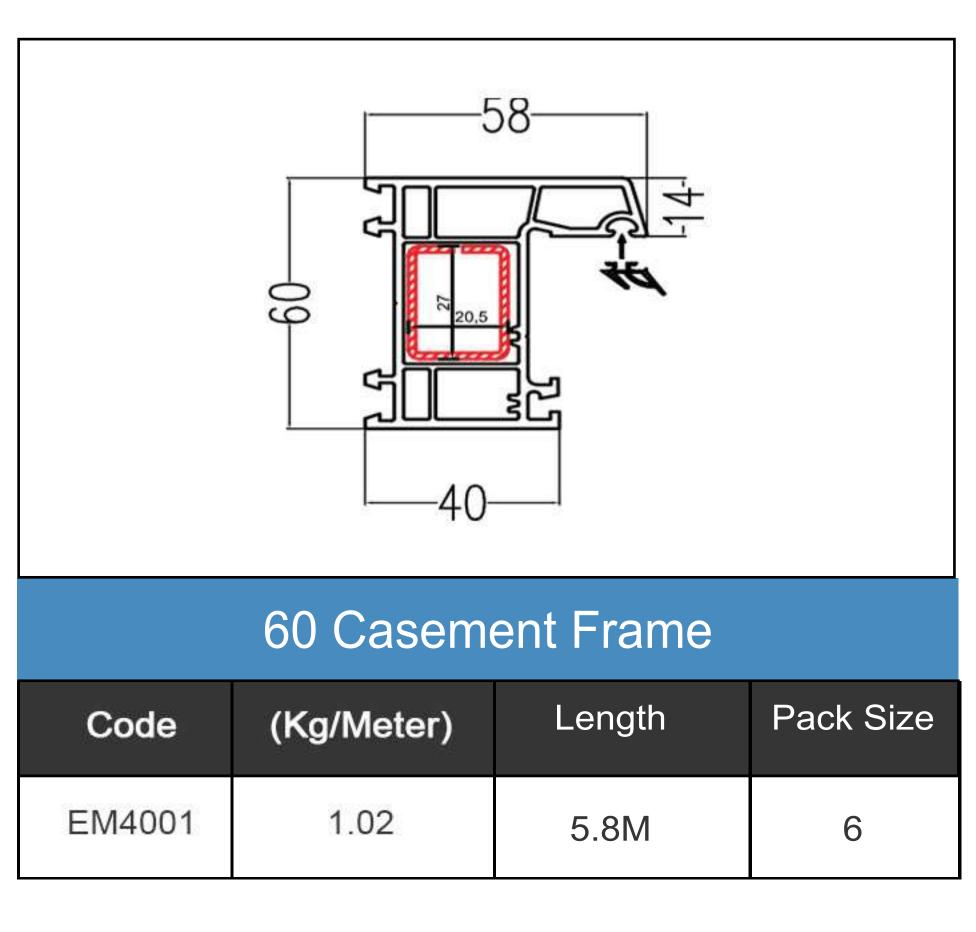


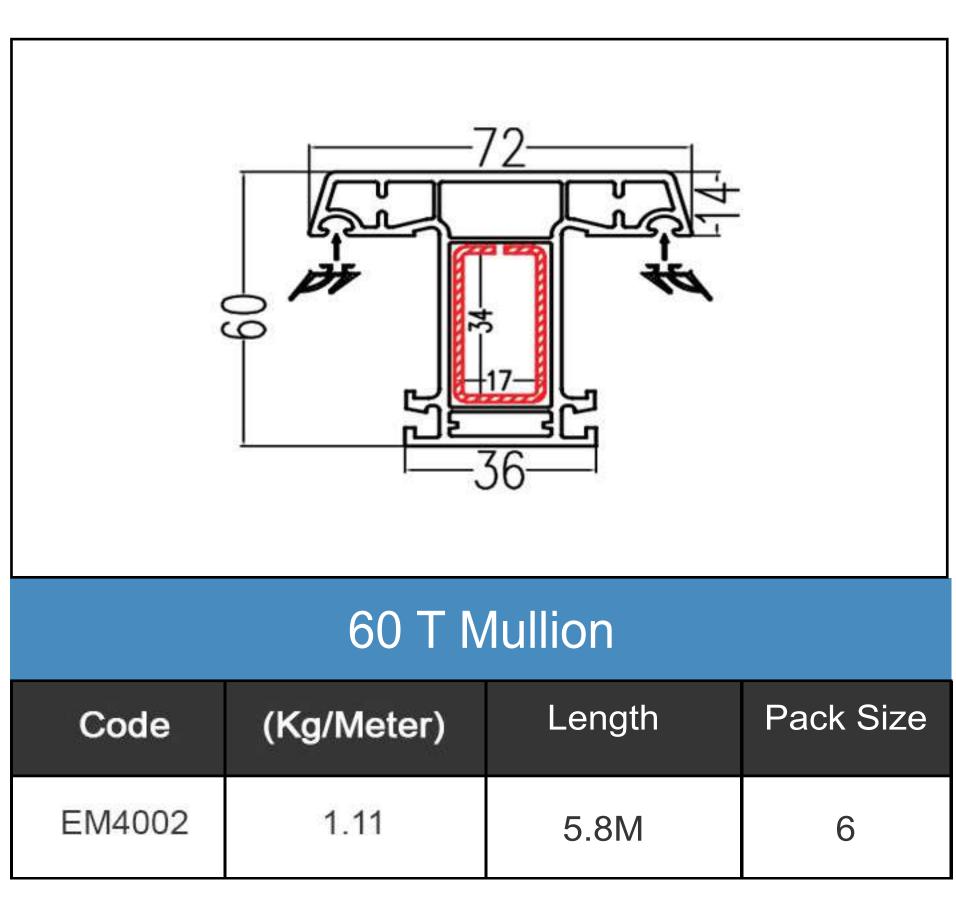
## 60 & 40 CASEMENT SERIES

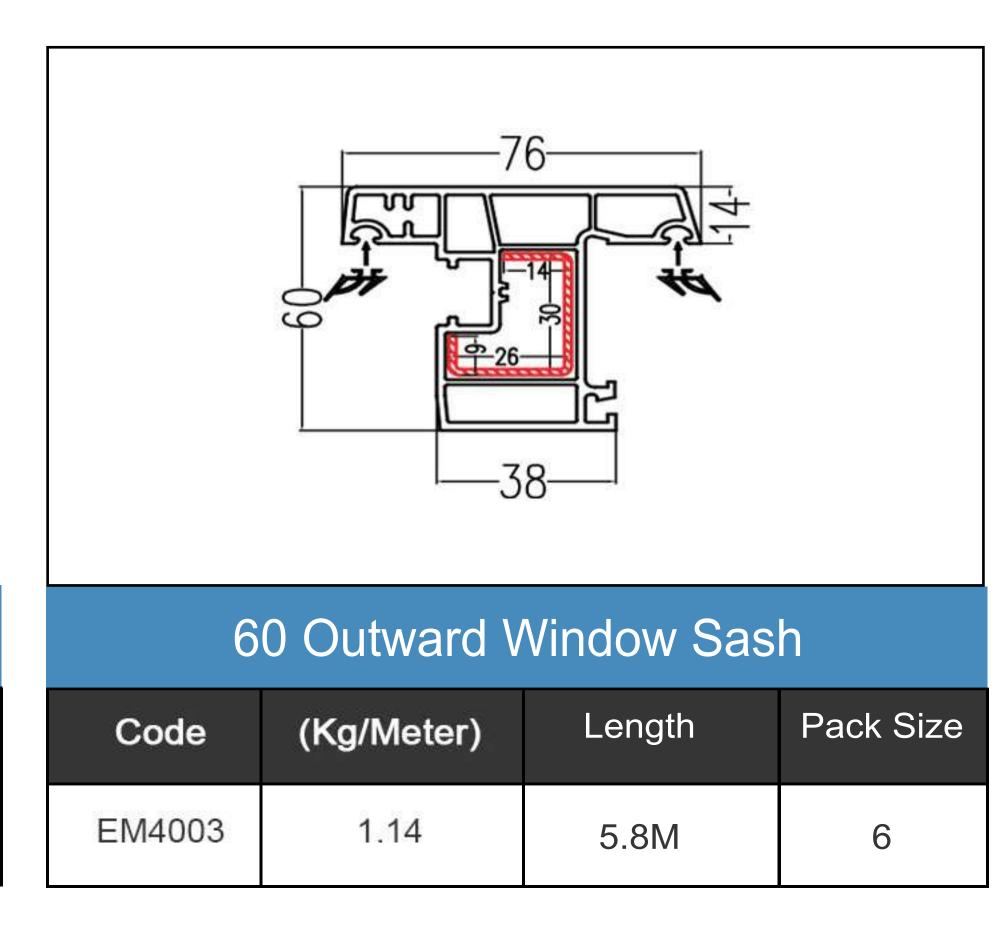


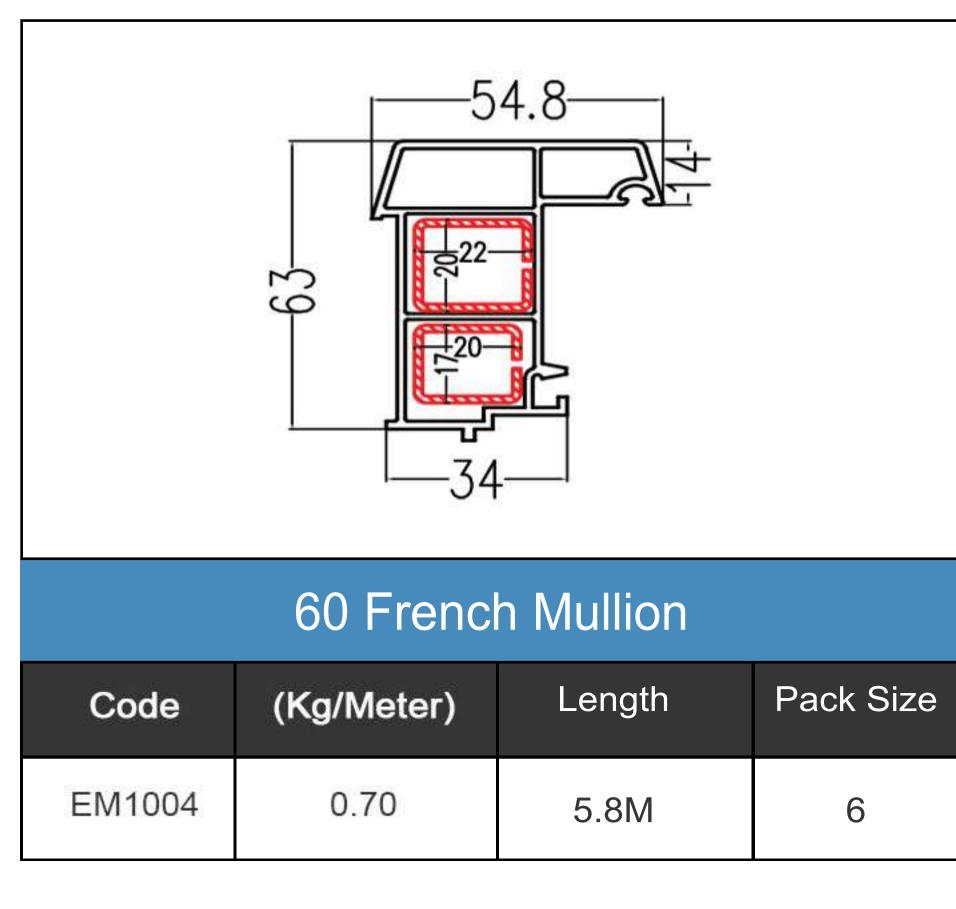


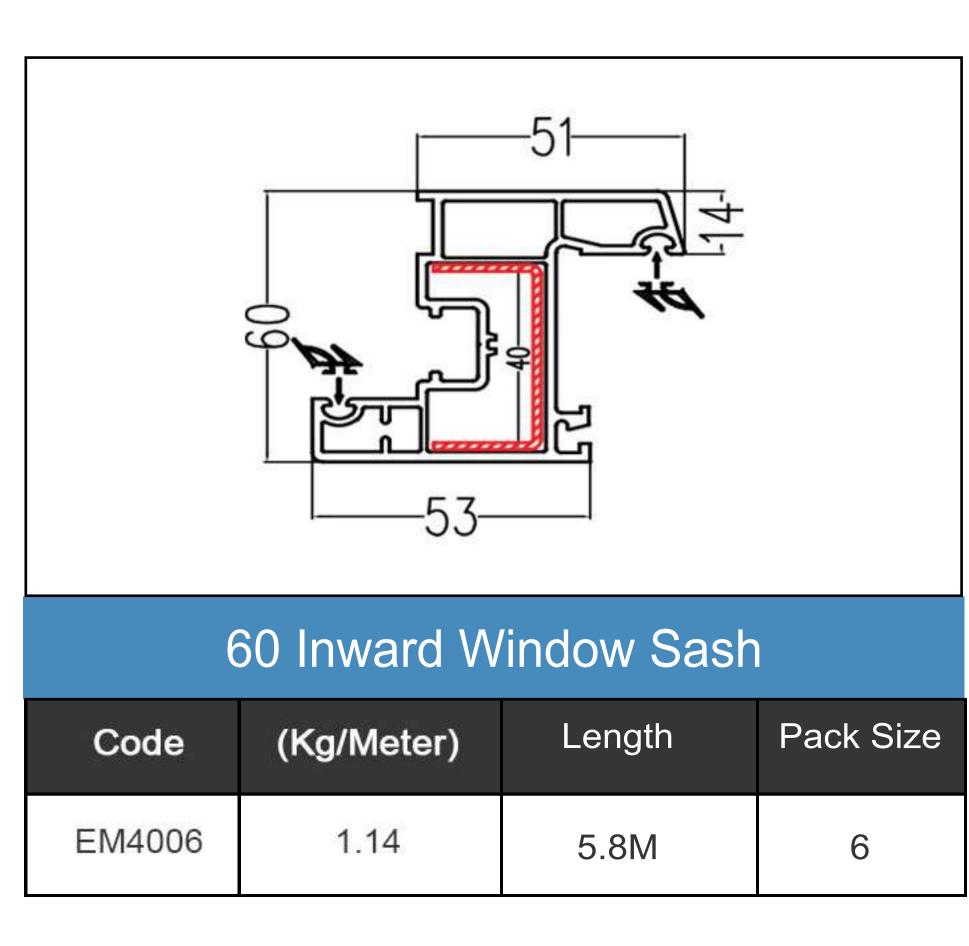


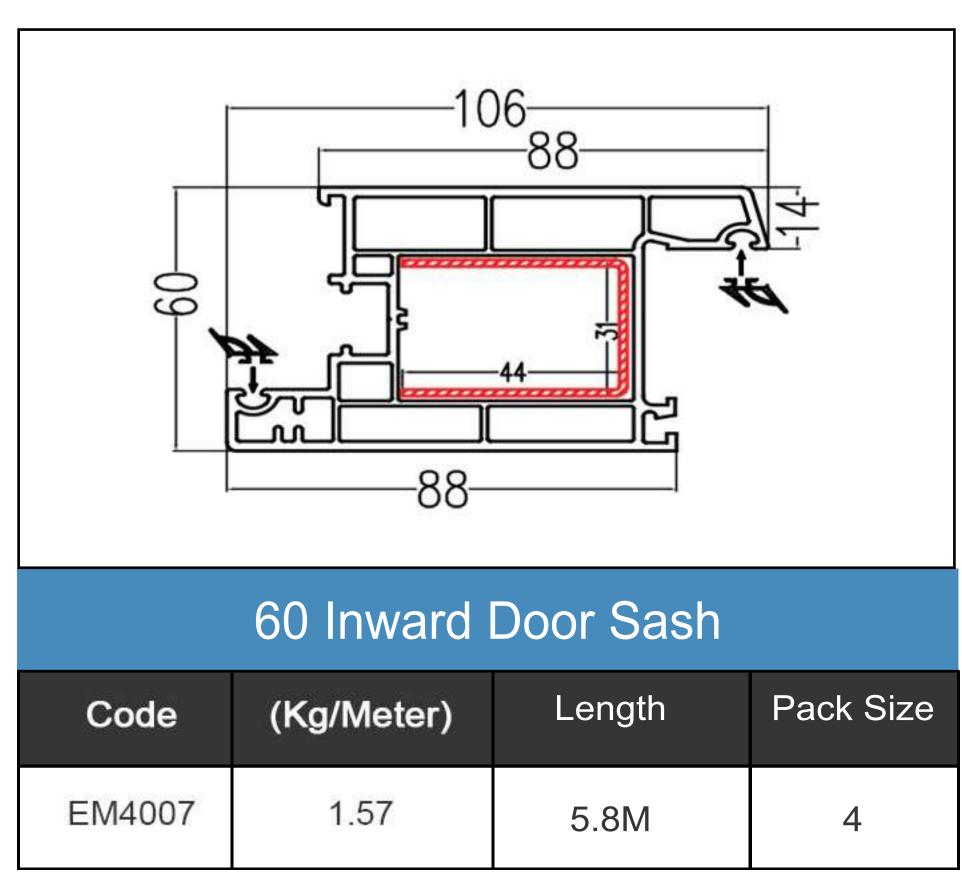


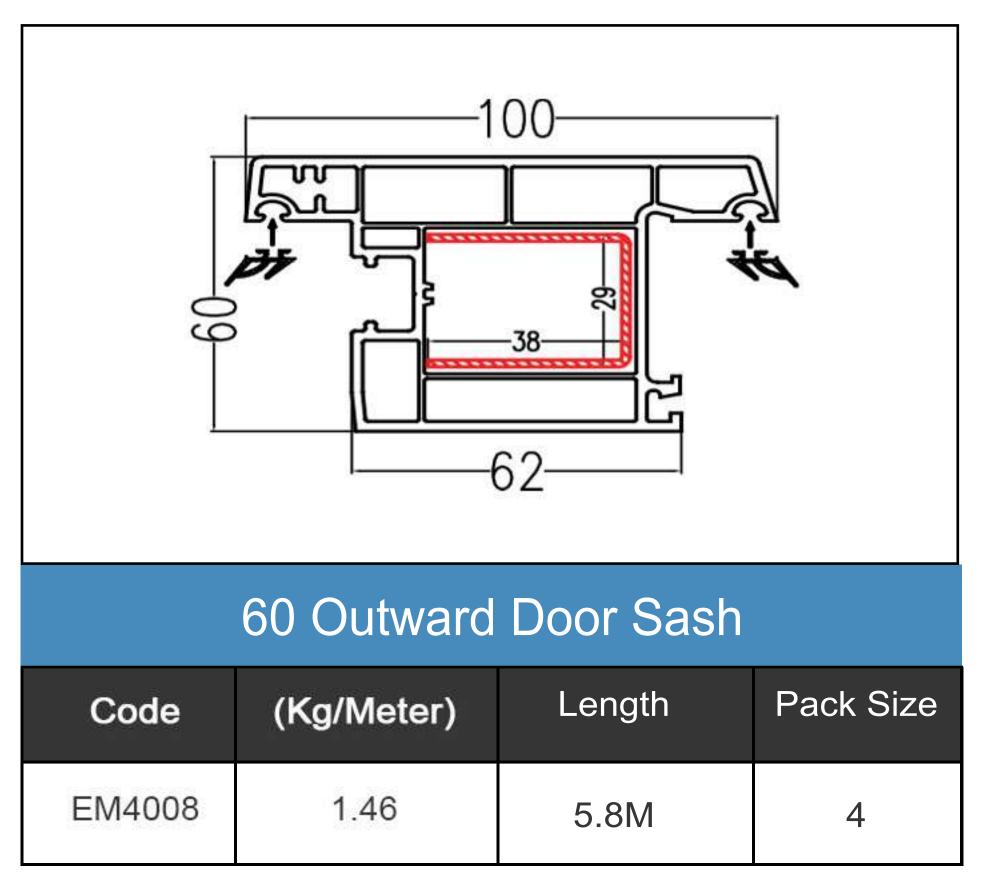


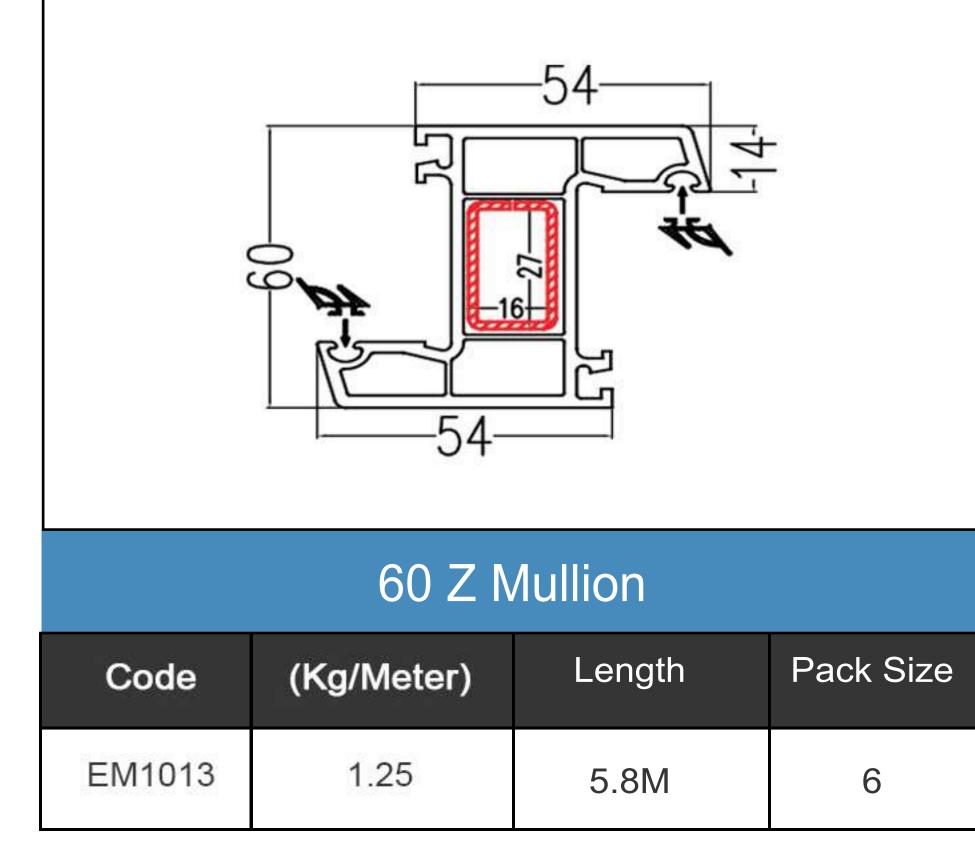






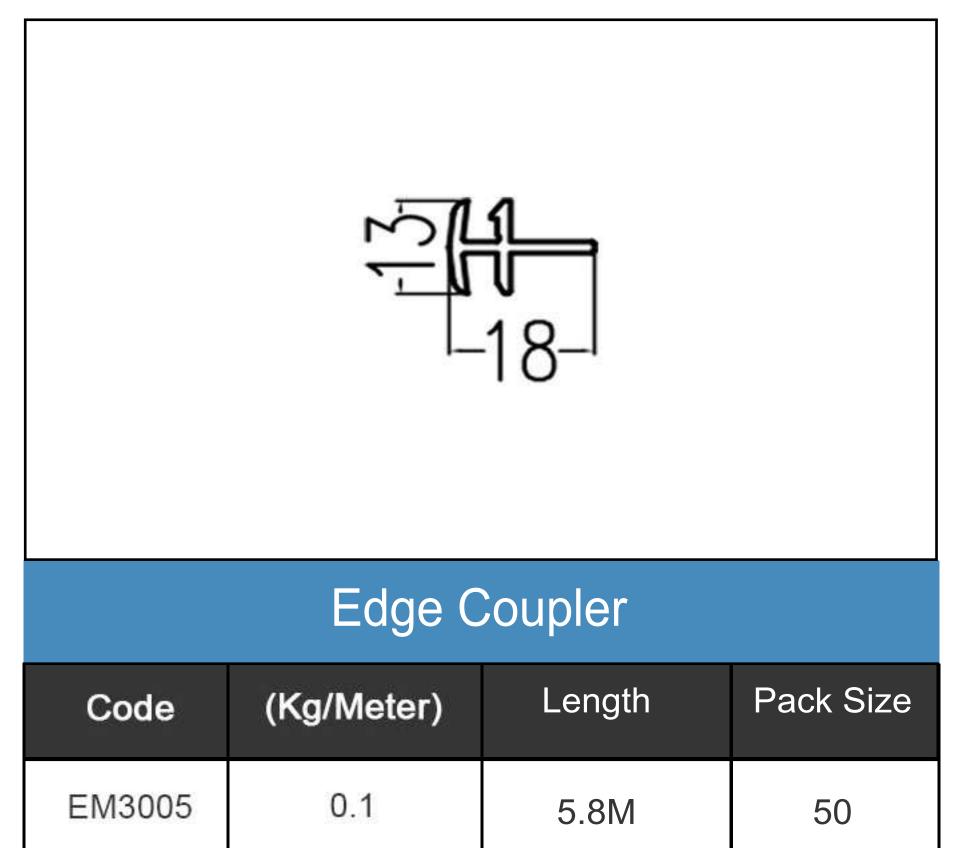


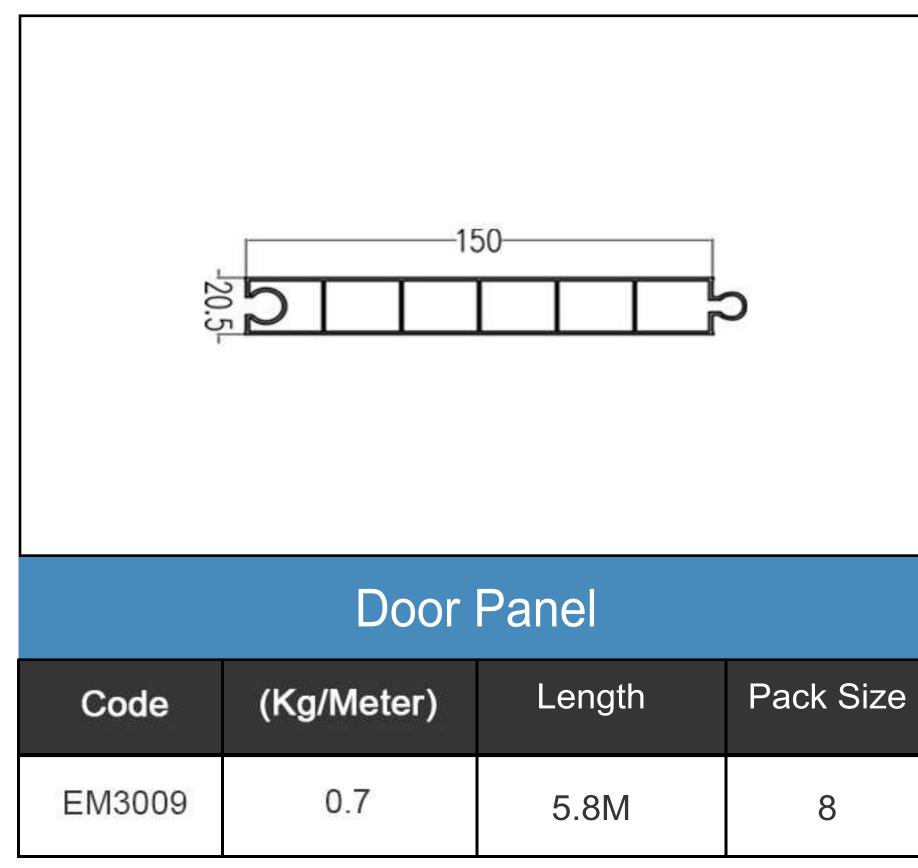


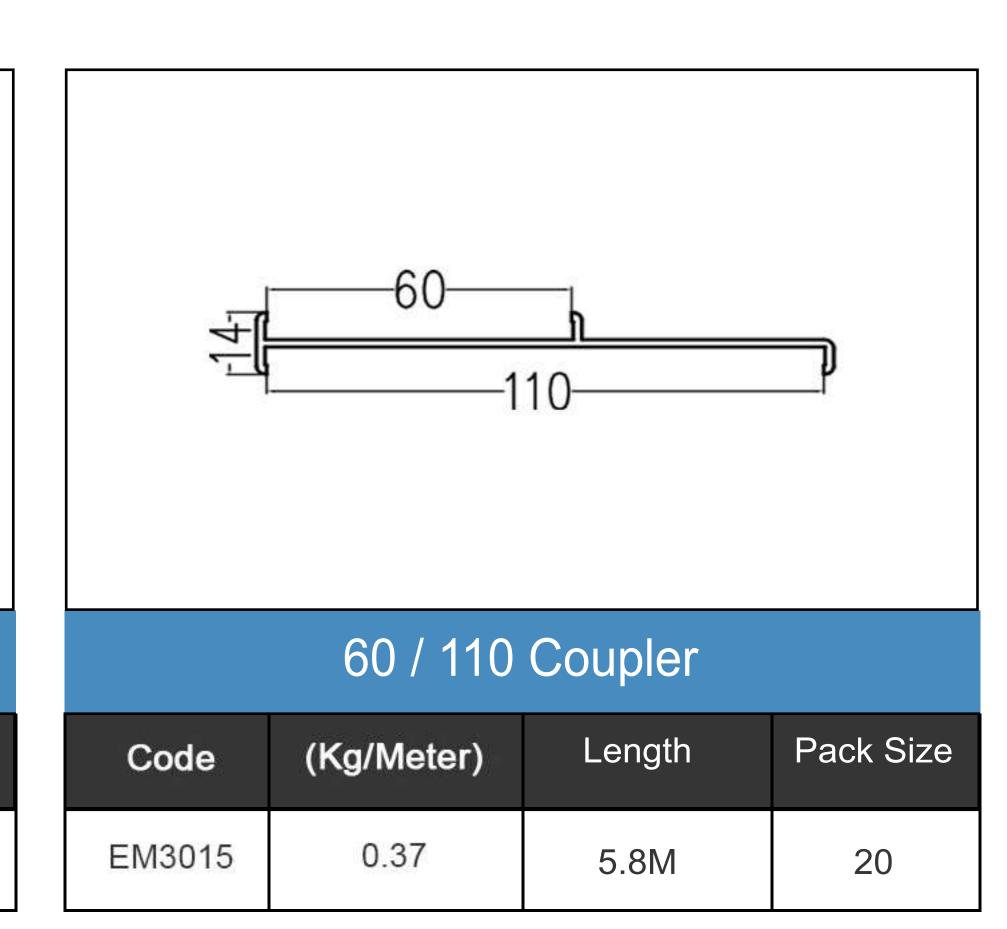


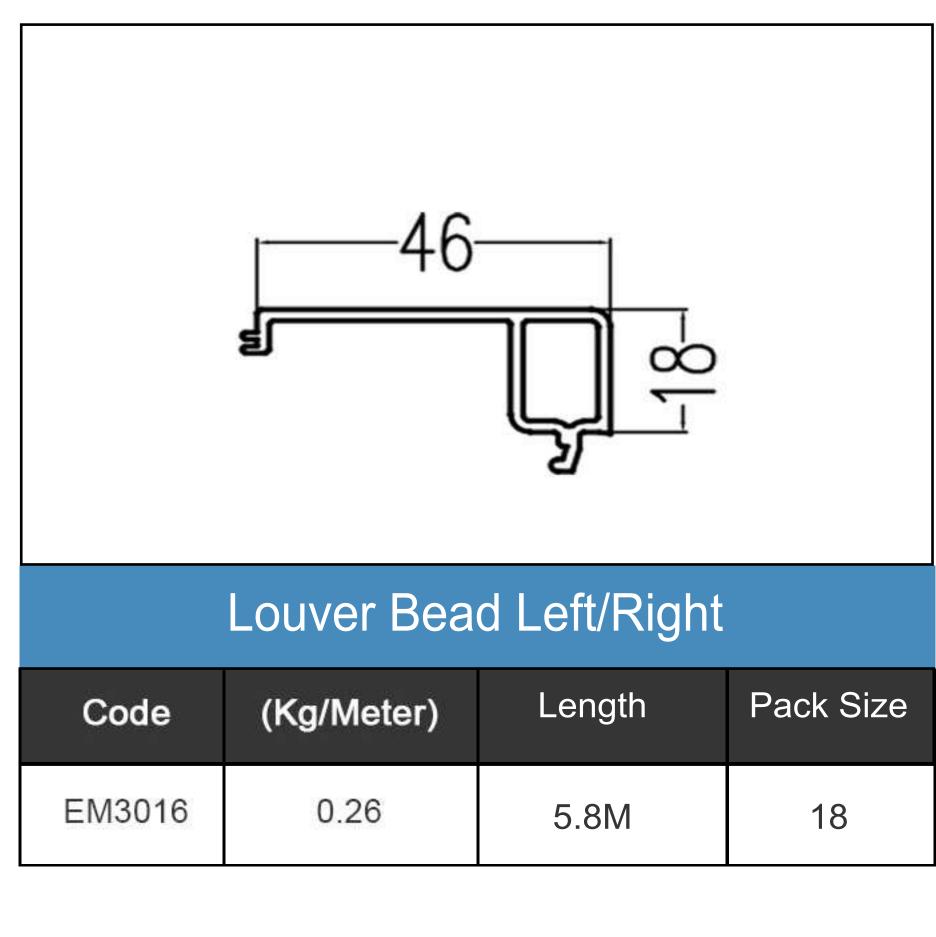


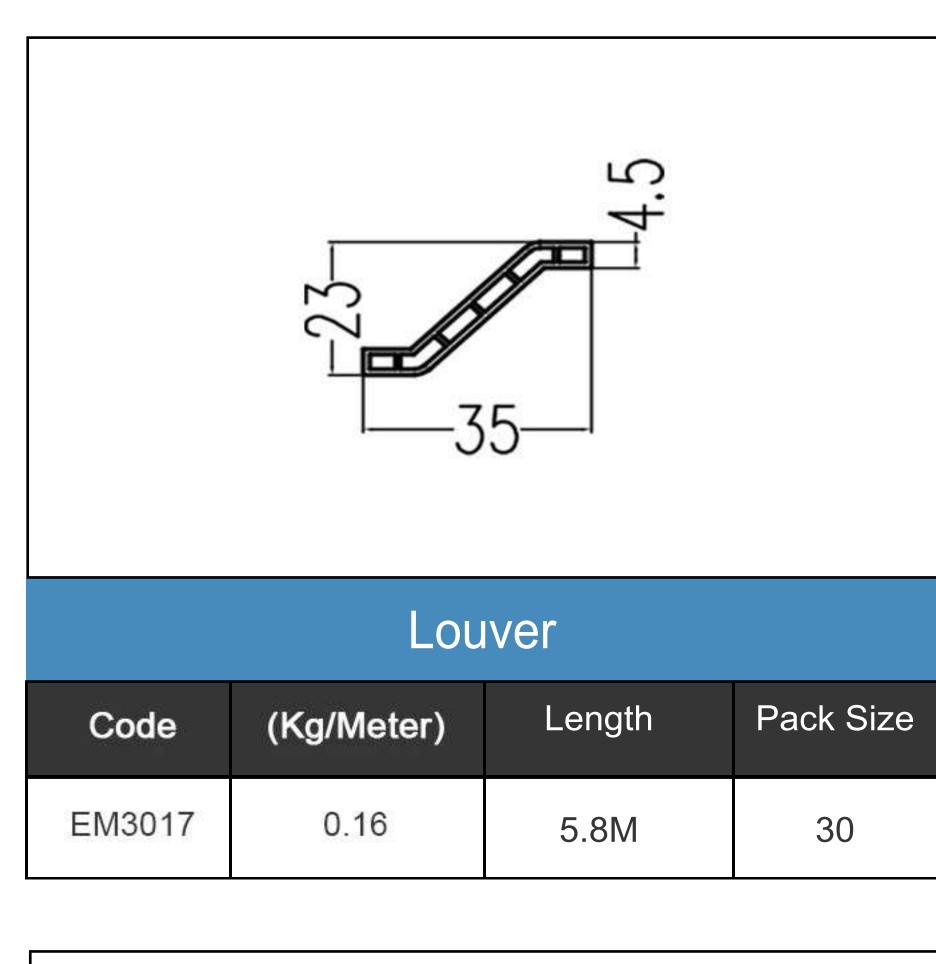
# Auxiliary Profiles

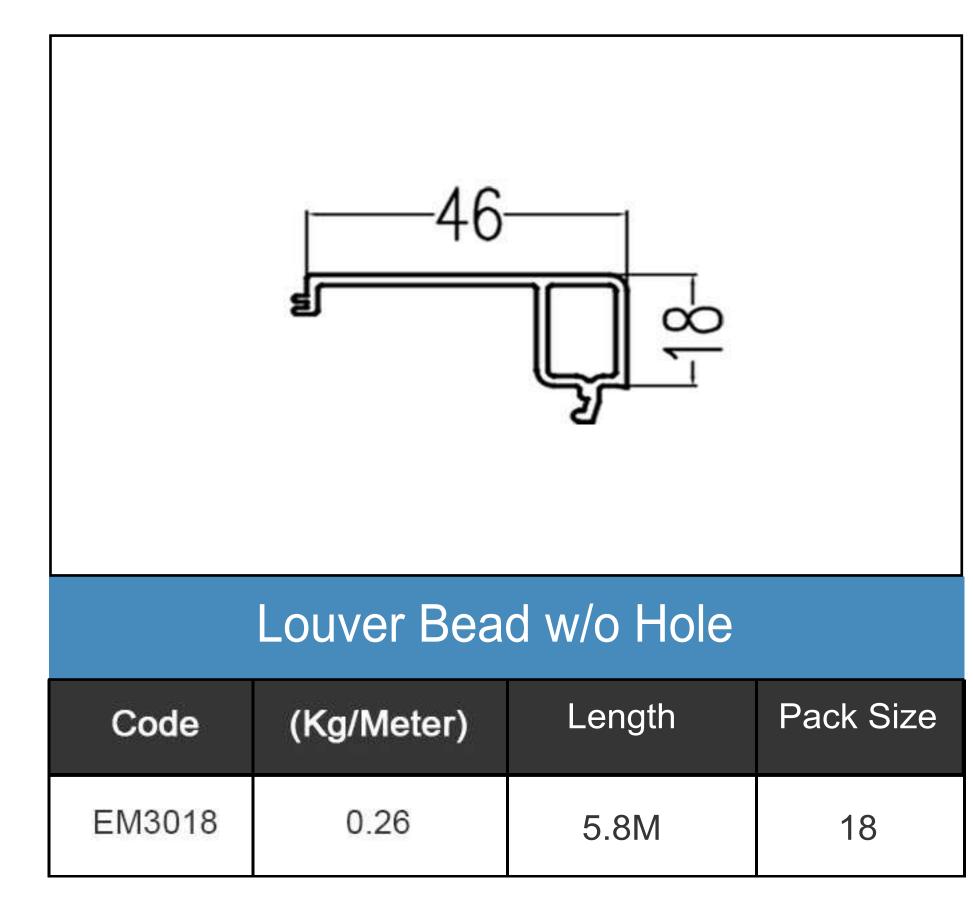


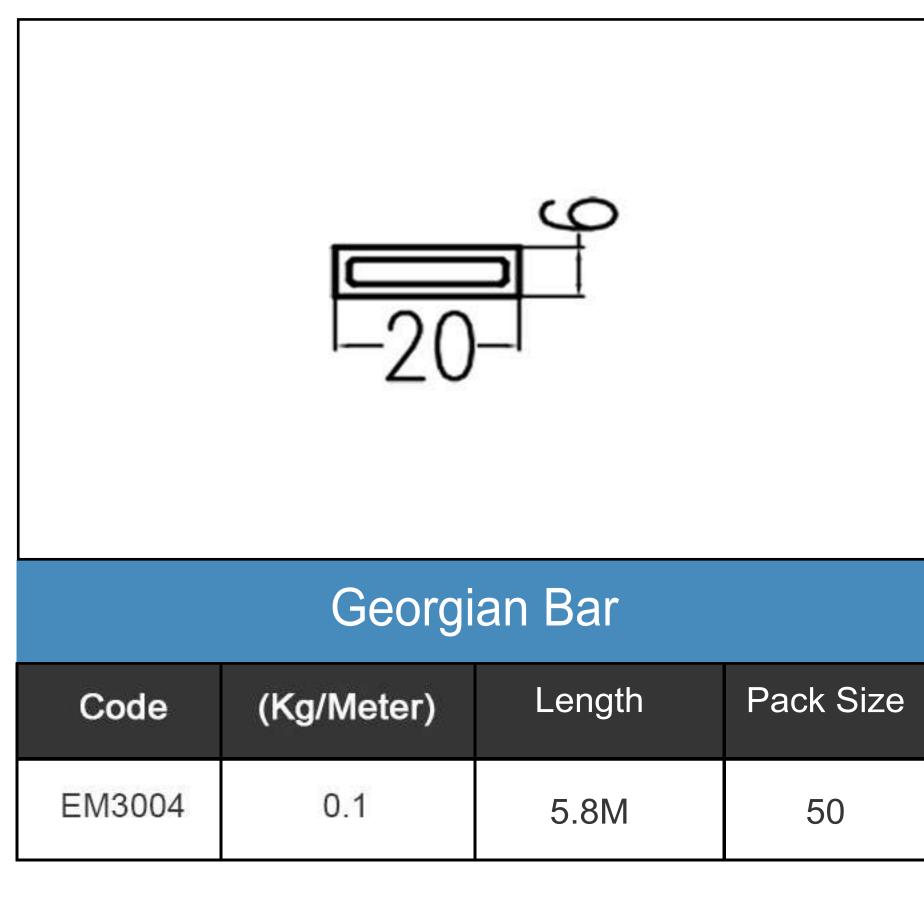


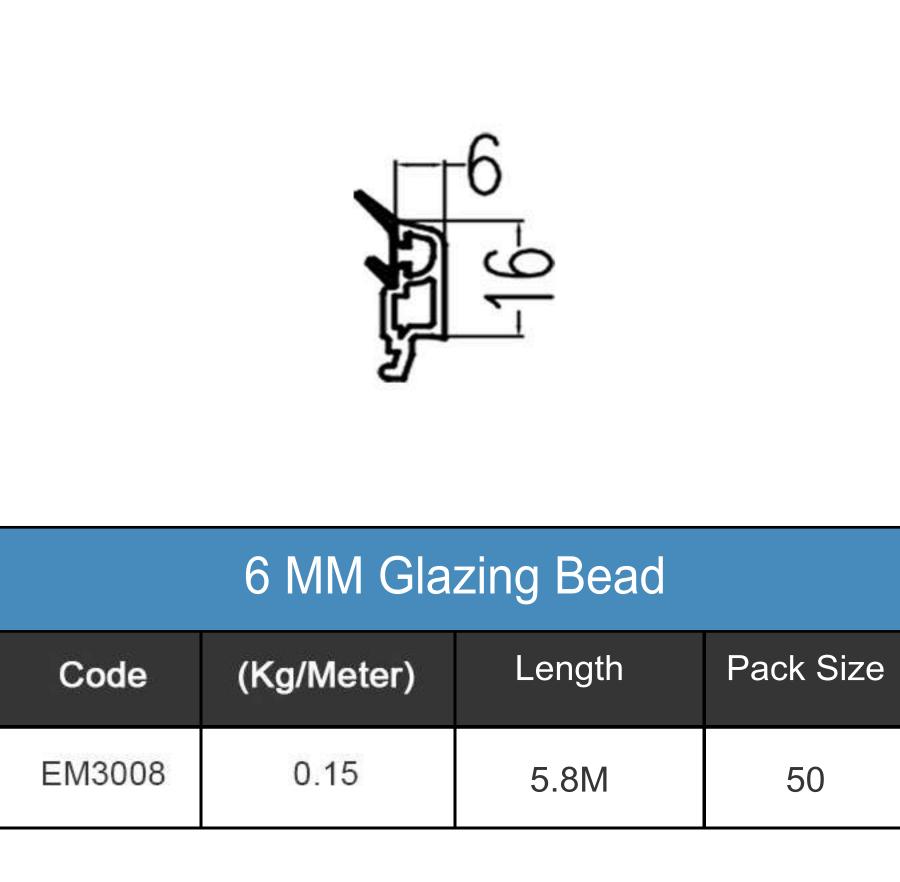


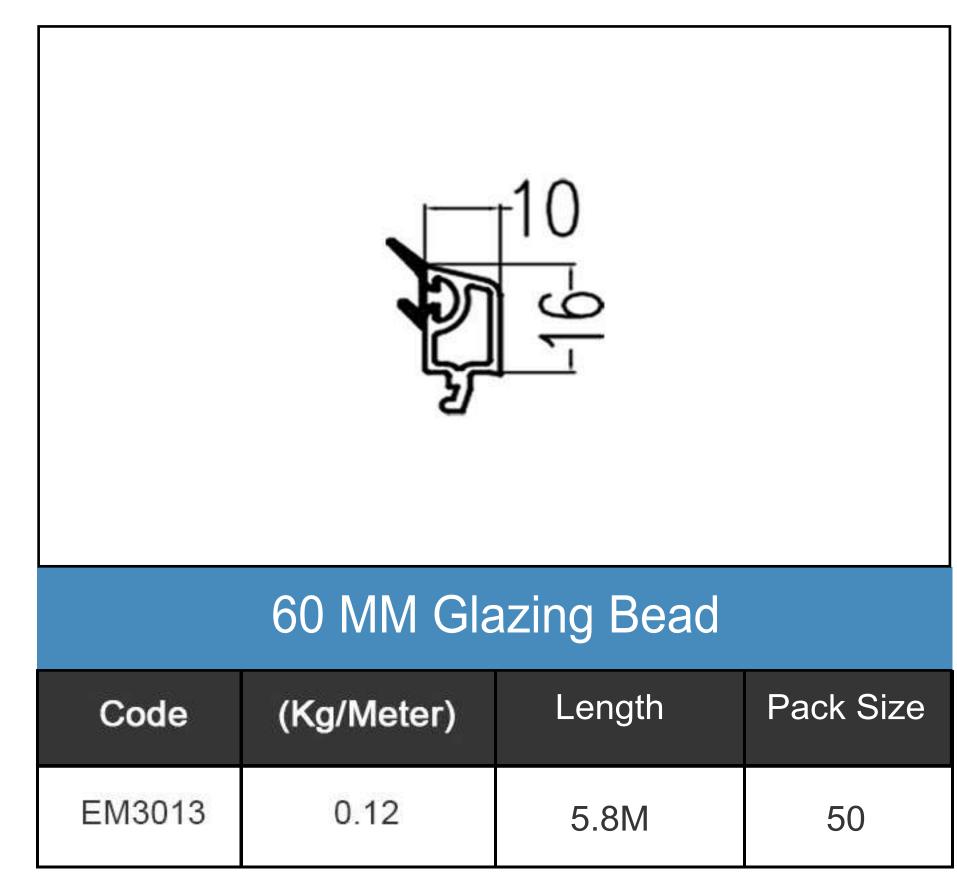


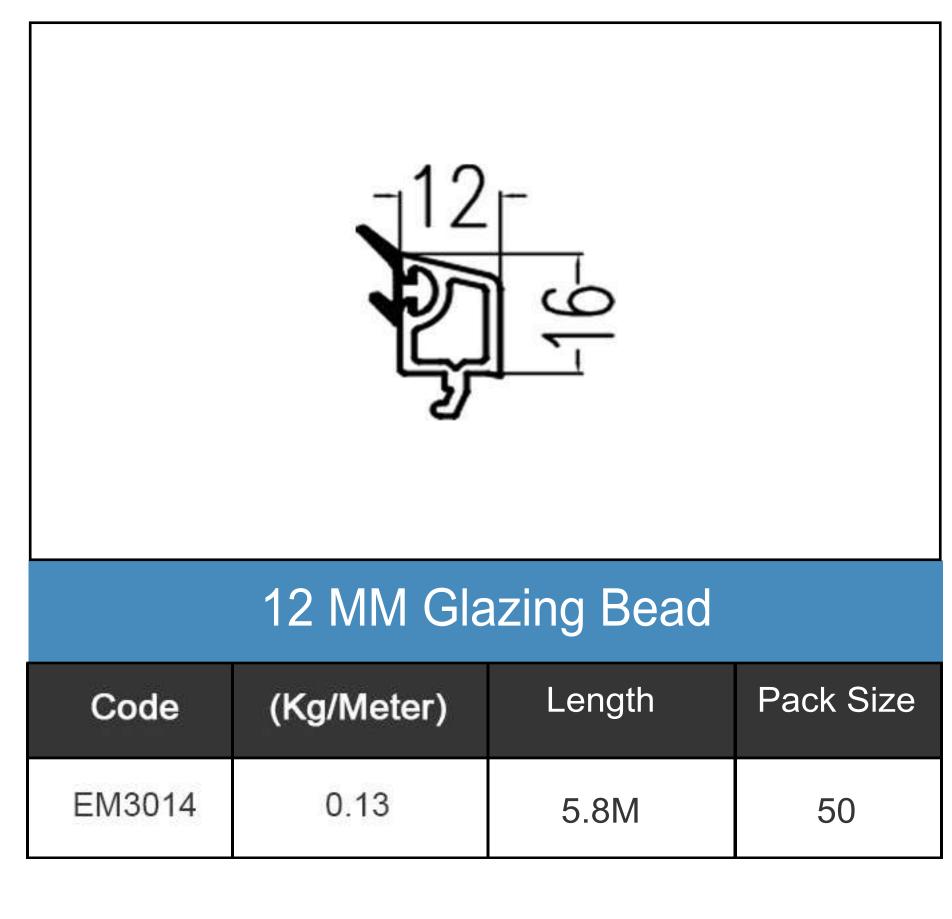


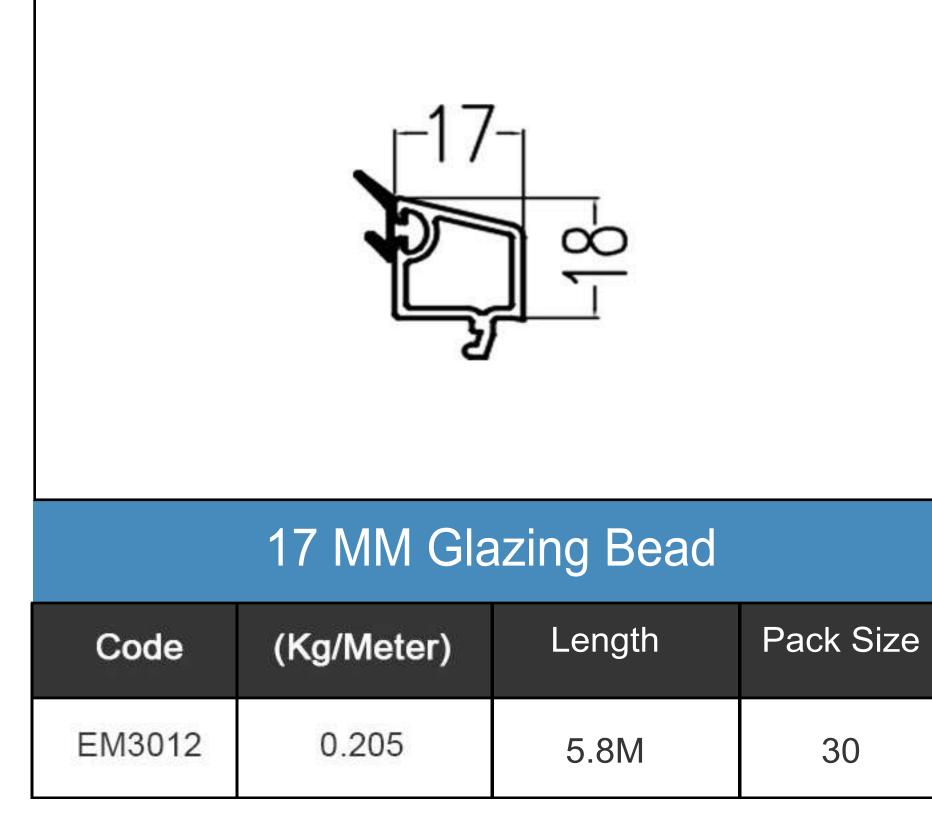


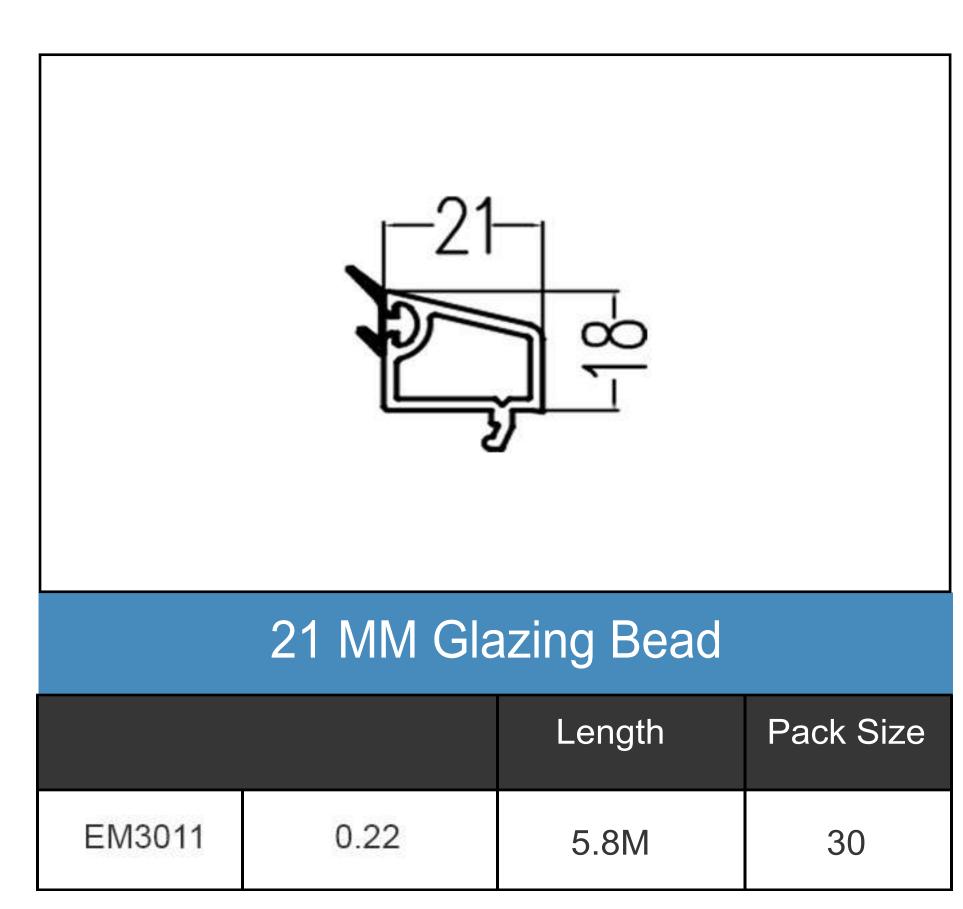






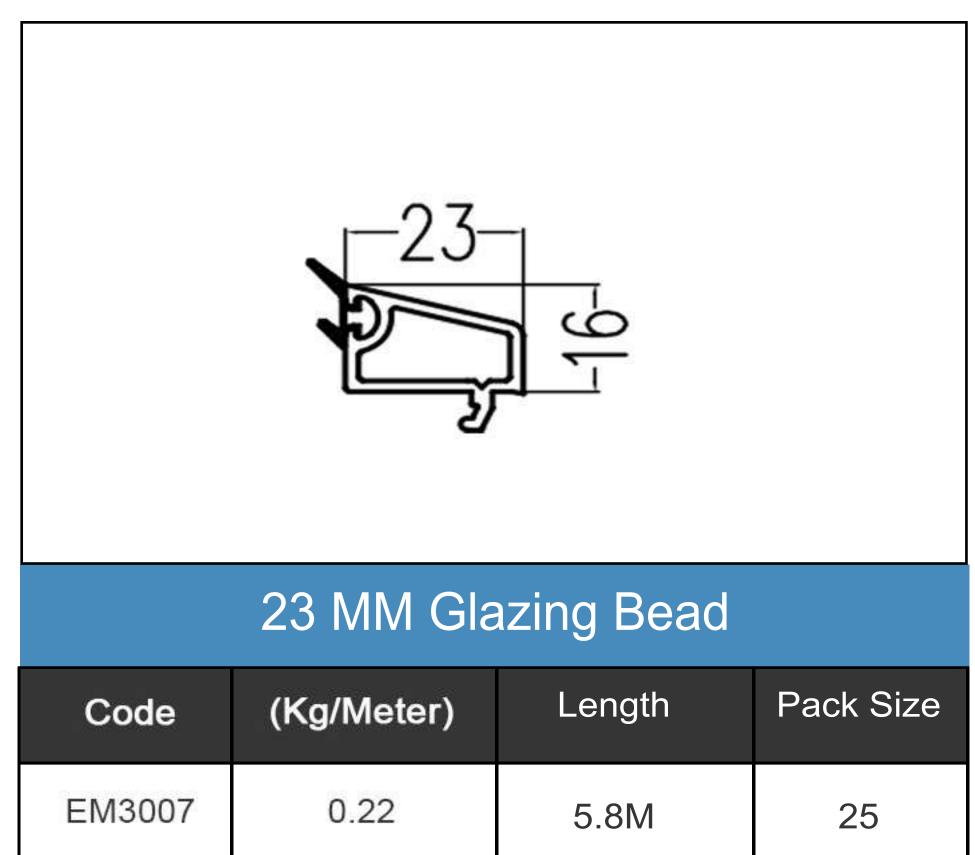


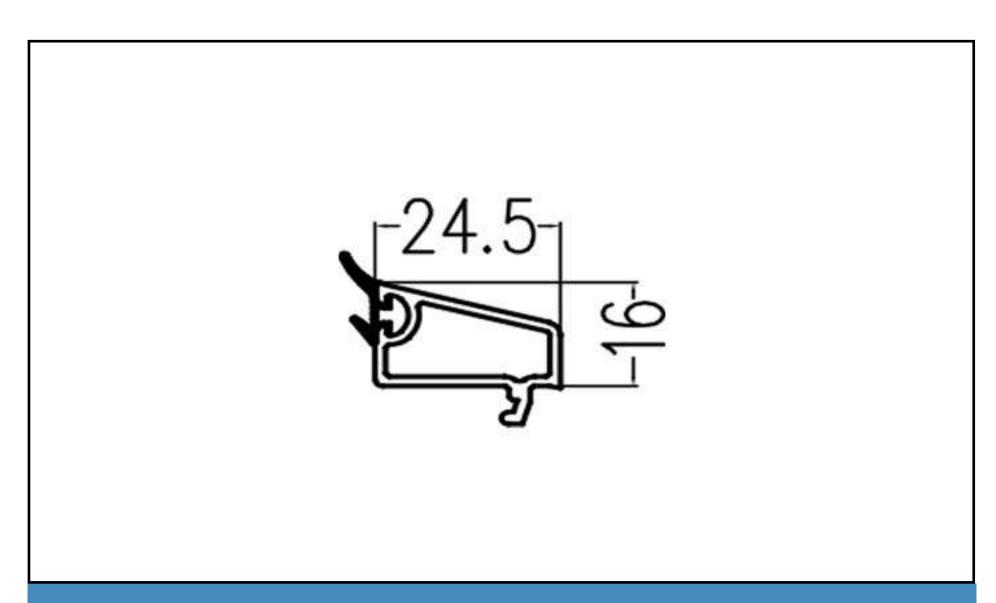




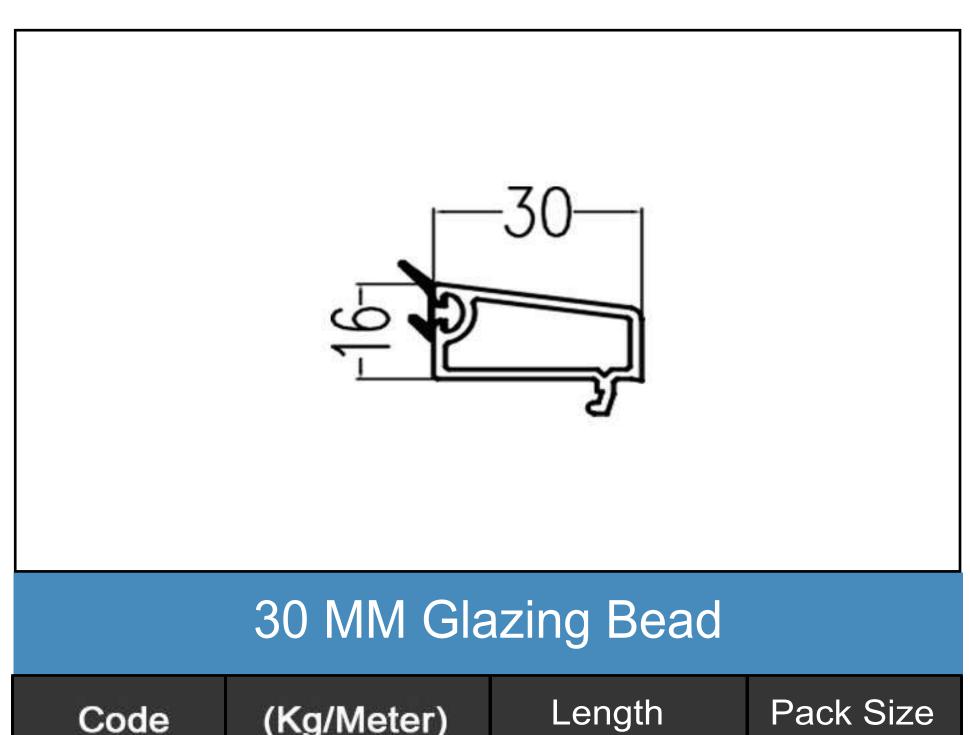


# Auxiliary Profiles

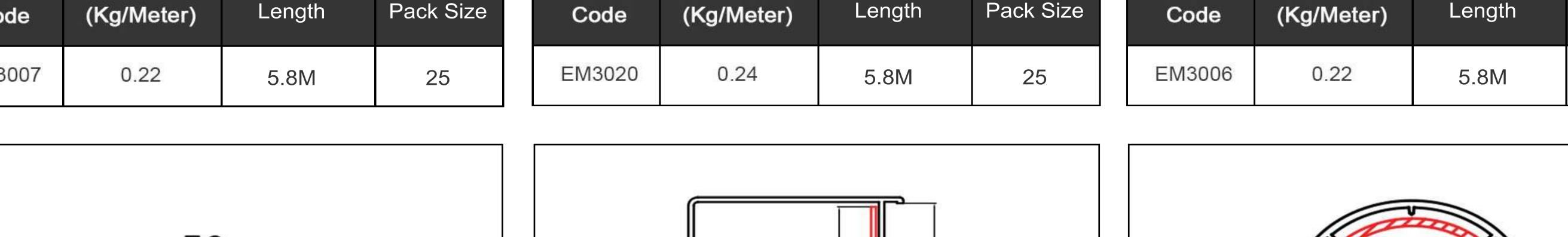


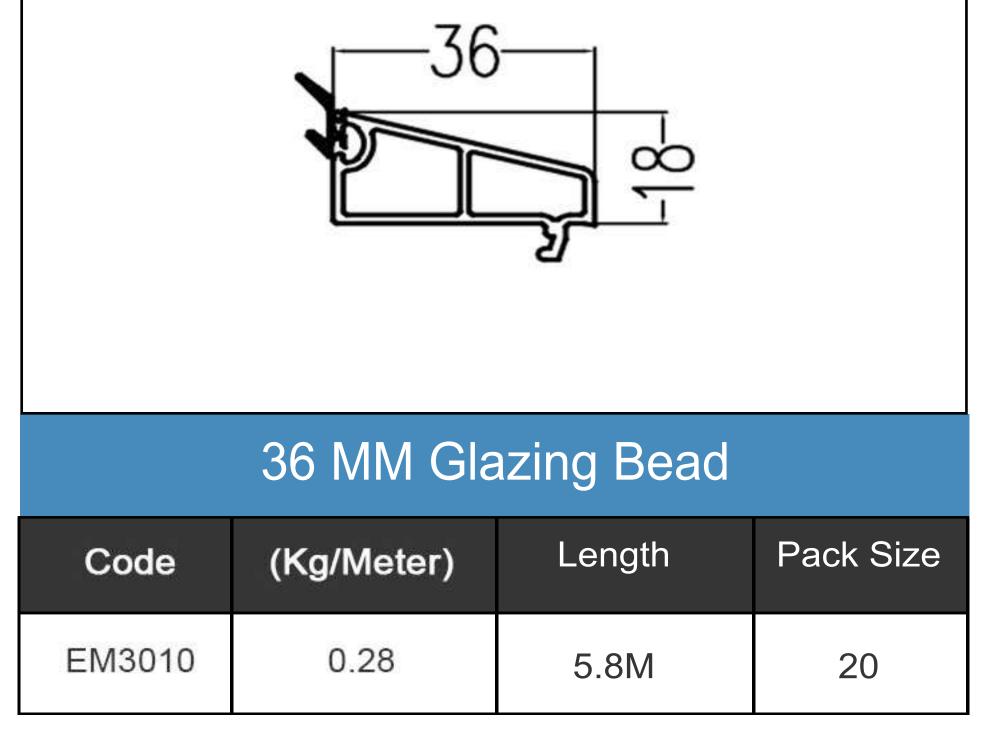


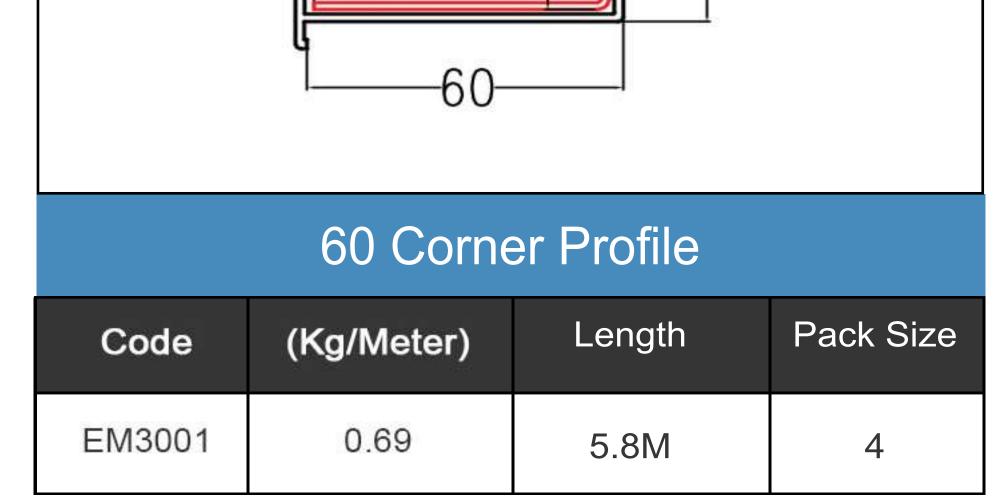
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Code	(Kg/Meter)	Length	Pack Size		
EM3020	0.24	5.8M	25		

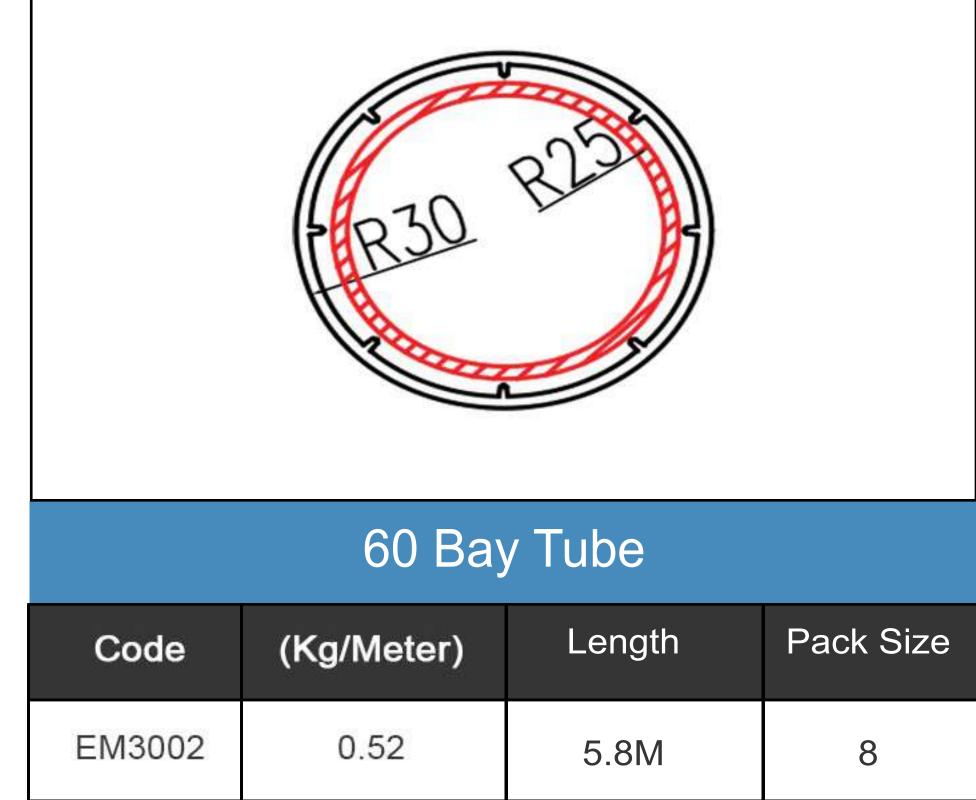


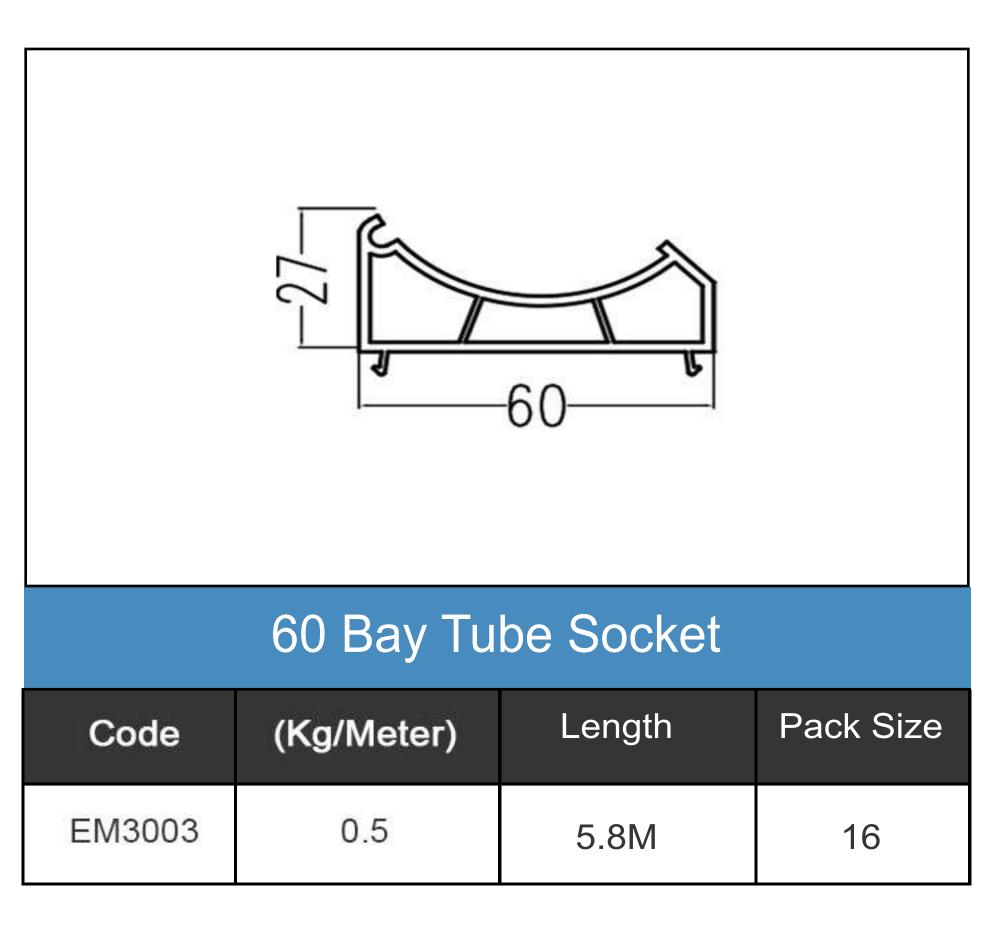
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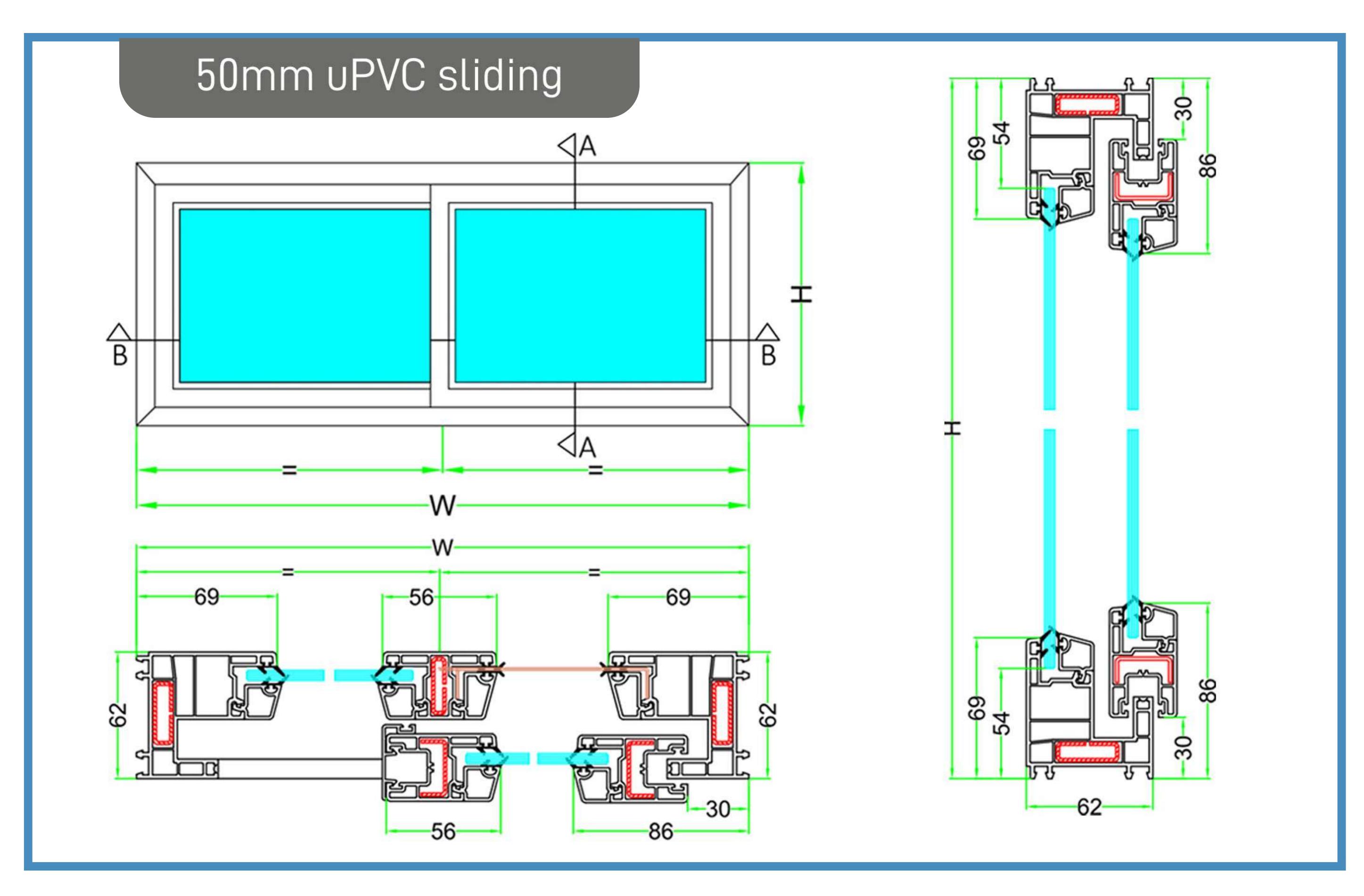


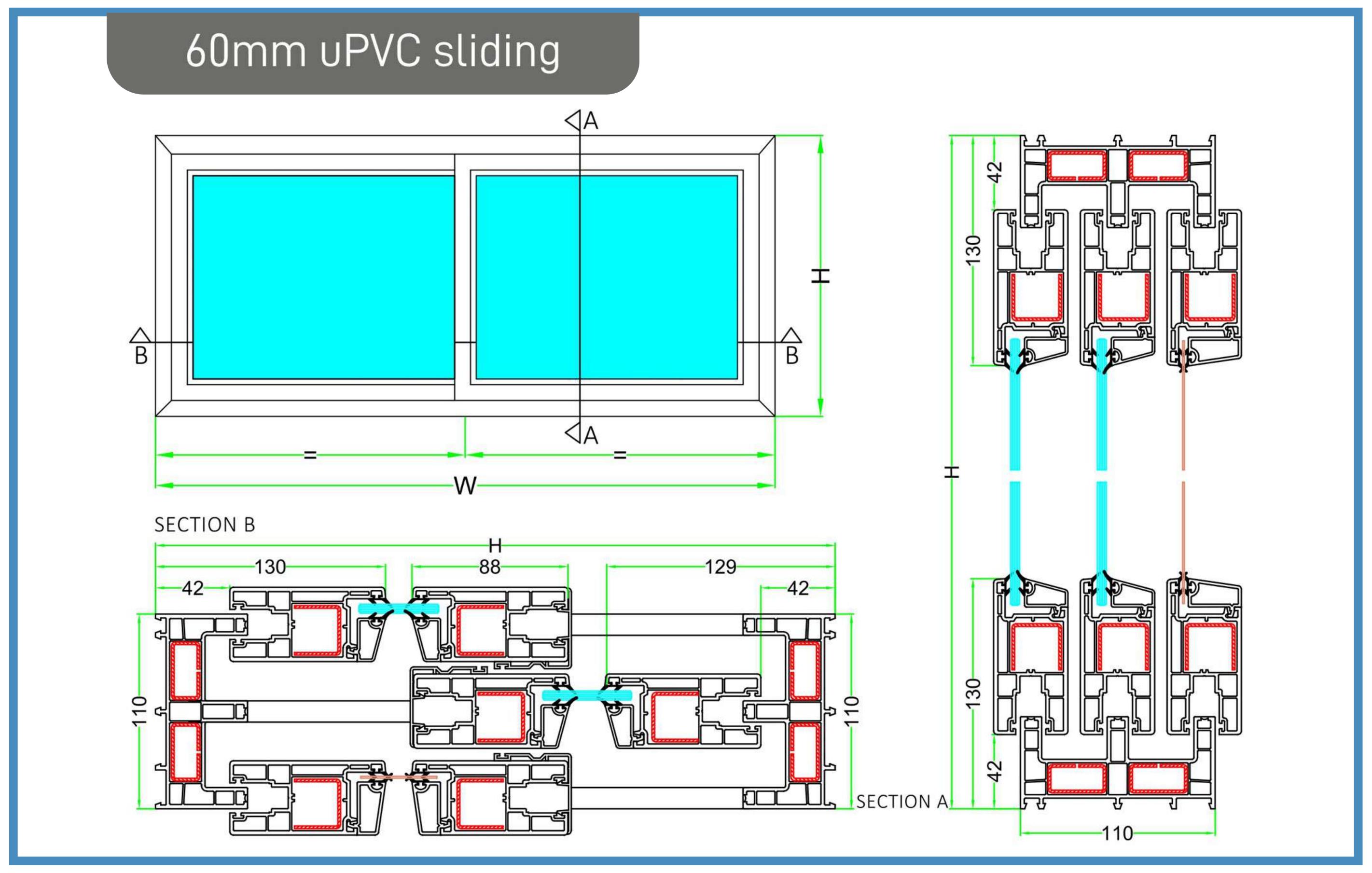




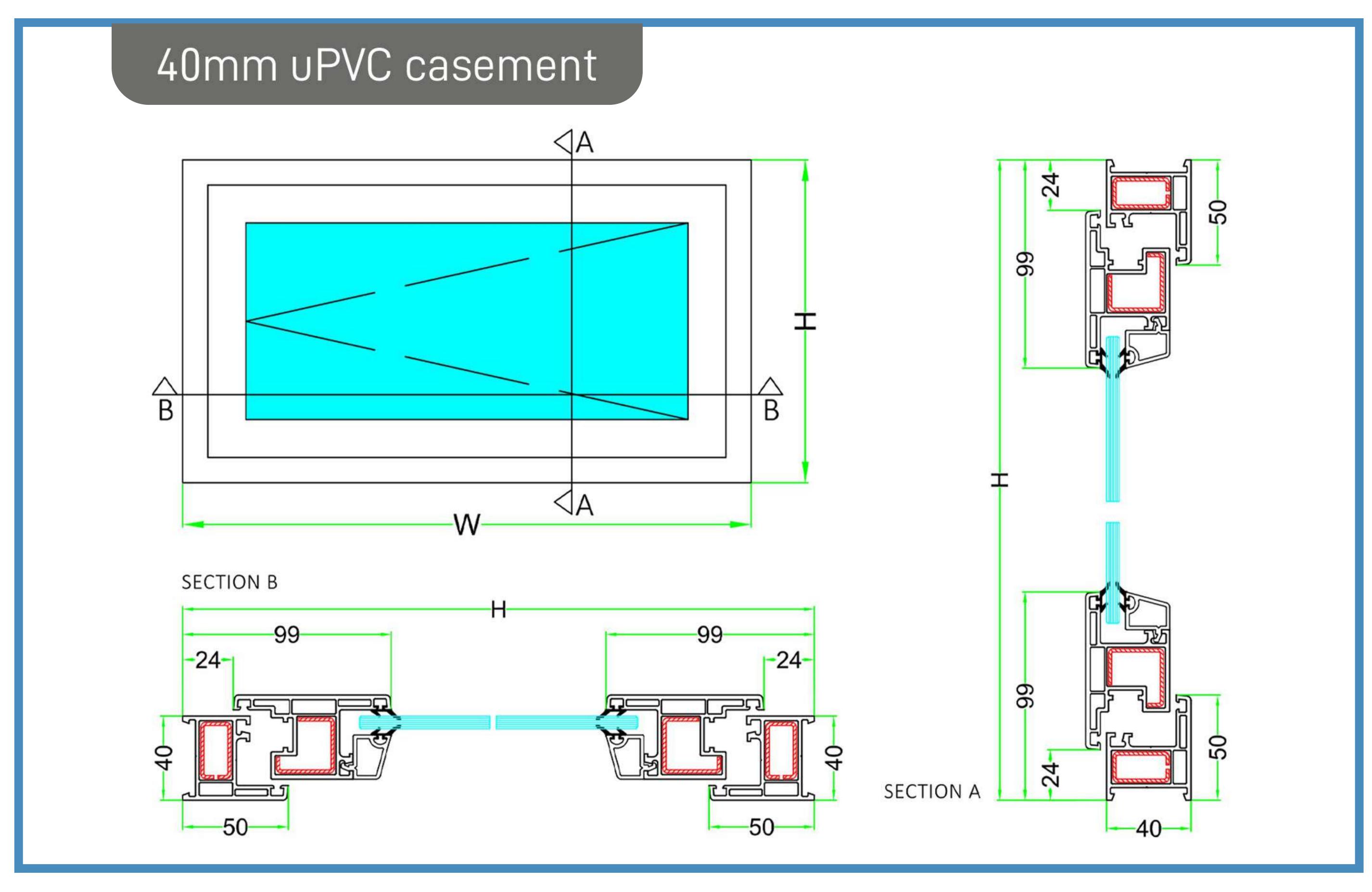


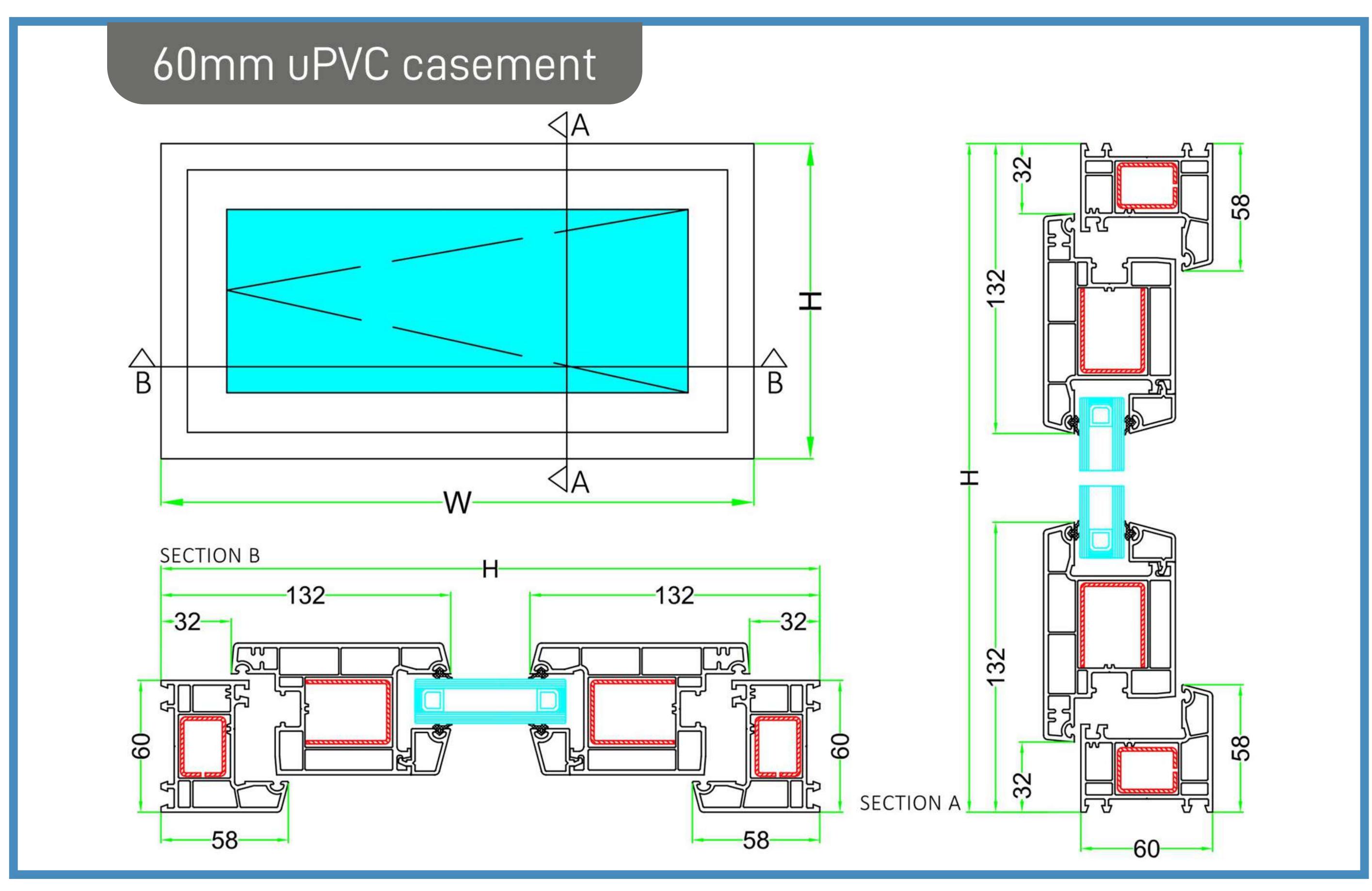


















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