



UPVC & ALUMINIUM  
WINDOW & DOOR  
ACCESSORIES





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ZM007  
Zinc 3D Adjustable Door Hinge



ZM018  
Aluminium 3D Adjustable Door Hinge



ZM007J (Junior)  
Zinc 3D Adjustable Door Hinge



ZM009  
Zinc Window Hinge 75mm



ZM010  
Zinc Door Hinge 100mm



ZM016  
Zinc Window Hinge 75mm Economic



ZM017  
Zinc Door Hinge 100mm Economic



ZM003  
Zinc Hinge 80mm



ZM004  
Zinc Hinge 90mm



ZM014  
Zinc Hinge 90mm Fratpen



ZM011 (Adopen Marmara)  
Zinc Window Hinge 75mm



ZM012 (Adopen Marmara)  
Zinc Door Hinge 90mm



ZM002 (Egepen Tirnakli)  
Zinc Window Hinge 75mm with Claw



ZM013 (Egepen Max/Adopen Atlantik)  
Zinc Window Hinge 75mm



ZM006  
Zinc Door Hinge Out Opening 95mm



35mm



**AK027**  
Springed Door Handle  
Aluminium  
Axis : 85mm  
Wide (35mm)

**AK028**  
WC Springed Door Handle  
Aluminium  
Axis : 90mm  
Wide (35mm)

**AK030**  
Room Springed Door Handle  
Aluminium  
Axis : 90mm  
Wide (35mm)

**AK029**  
Balcony Springed Door Handle  
Aluminium  
Axis : 85mm  
Wide (35mm)

**AP010**  
Window Handle  
Aluminium



35mm



**AK059**  
Springed Door Handle  
Aluminium  
Axis : 85mm  
Wide (35mm)

**AK060**  
WC Springed Door Handle  
Aluminium  
Axis : 90mm  
Wide (35mm)

**AP011**  
Window Handle  
Aluminium

**AP012**  
Springed Window Handle  
Aluminium



35mm



**AK013**  
Springed Door Handle  
Aluminium  
Axis : 85mm  
Wide (35mm)

**AK014**  
WC Springed Door Handle  
Aluminium  
Axis : 90mm  
Wide (35mm)

**AK015**  
Room Springed Door Handle  
Aluminium  
Axis : 90mm  
Wide (35mm)

**AK039**  
Springed Door Handle  
Aluminium  
Axis : 92mm  
Wide (35mm)

**AK035**  
Balcony Springed Door Handle  
Aluminium  
Axis : 85mm  
Wide (35mm)

28mm



**AK031**  
Springed Door Handle  
Aluminium  
Axis : 85mm  
Wide (28mm)

**AK032**  
WC Springed Door Handle  
Aluminium  
Axis : 90mm  
Wide (28mm)

**AK033**  
Room Springed Door Handle  
Aluminium  
Axis : 90mm  
Wide (28mm)

**AK038**  
Springed Door Handle  
Aluminium  
Axis : 92mm  
Wide (28mm)

**AK036**  
Balcony Springed Door Handle  
Aluminium  
Axis : 85mm  
Wide (28mm)

25mm



**AK055**  
Springed Door Handle  
Aluminium  
Axis : 85mm  
Wide (25mm)

**AK056**  
WC Springed Door Handle  
Aluminium  
Axis : 90mm  
Wide (25mm)

**AK057**  
Room Springed Door Handle  
Aluminium  
Axis : 85mm  
Wide (25mm)

**AK058**  
Balcony Springed Door Handle  
Aluminium  
Axis : 85mm  
Wide (25mm)

**AP006**  
Window Handle  
Aluminium



35mm



AK051  
Springed Door Handle  
Aluminium  
Axis : 85mm  
Wide (35mm)

AK052  
WC Springed Door Handle  
Aluminium  
Axis : 90mm  
Wide (35mm)

AK053  
Room Springed Door Handle  
Aluminium  
Axis : 90mm  
Wide (35mm)

AK054  
Balcony Springed Door Handle  
Aluminium  
Axis : 85mm  
Wide (35mm)

AP005  
Window Handle  
Aluminium

35mm



AK024  
Springed Door Handle  
Aluminium  
Axis : 85mm  
Wide (35mm)

AK025  
WC Springed Door Handle  
Aluminium  
Axis : 90mm  
Wide (35mm)

AK041  
Room Springed Door Handle  
Aluminium  
Axis : 92mm  
Wide (35mm)

AK042  
Balcony Springed Door Handle  
Aluminium  
Axis : 85mm  
Wide (35mm)

AP010  
Window Handle  
Aluminium



AP001  
Window Handle with Lock  
Aluminium  
Single



AP002  
Window Handle with Lock  
Aluminium  
Set



AP003  
Window Handle  
Aluminium  
Set



AP004  
Window Handle with Lock  
Aluminium  
Single Lux



AP005  
Window Handle with Lock  
Aluminium  
Set Lux



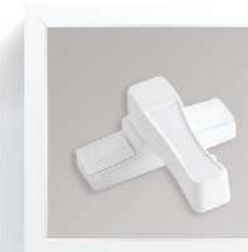
EMN002  
Security Latch  
Aluminium



EMN003  
Security Latch  
Aluminium  
With Lock



EMN004  
Security Latch  
Aluminium  
With Lock  
Economic



EMN005  
Security Latch  
Aluminium  
Economic

35mm / 85mm axis



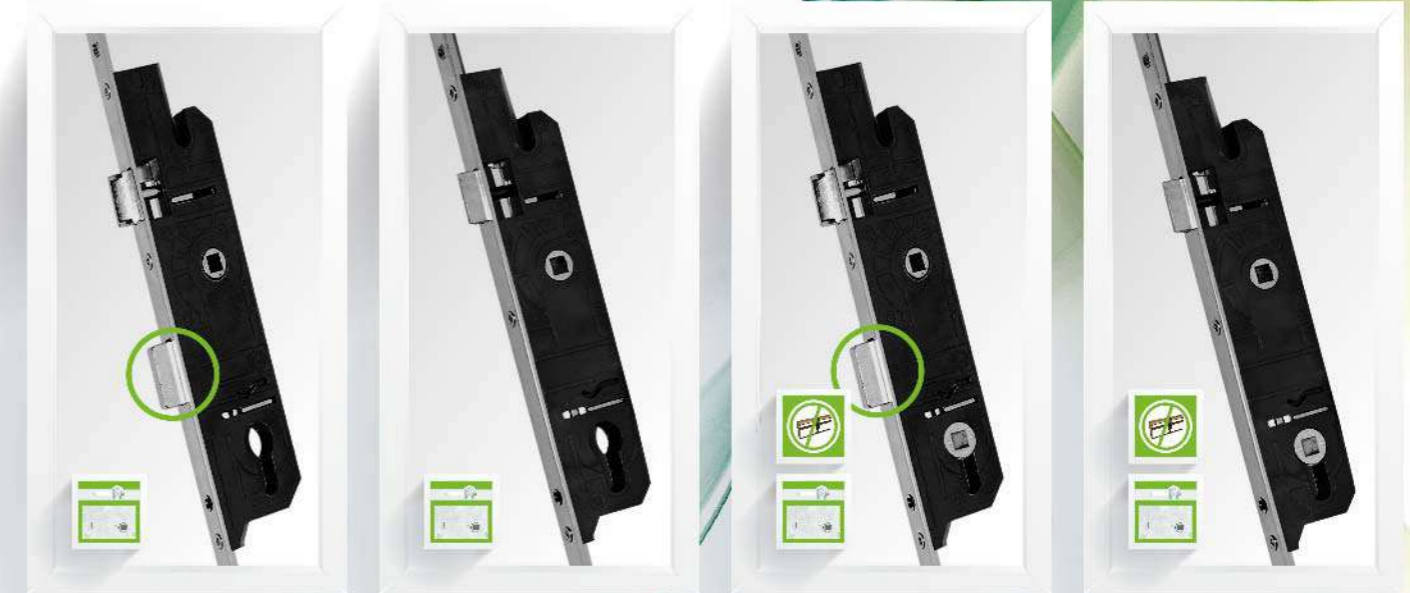
KI001 - KI005 - KI003  
Multipoint Door Lock  
Lengths: 160, 180, 200cm

KI002 - KI006 - KI004  
Multipoint Door Lock With Cylinder  
Lengths: 160, 180, 200cm

KI031 - KI032 - KI033  
Multipoint Door Lock With Cylinder  
With Key  
Lengths: 160, 180, 200cm

AK022  
Pinar 85 axis  
Door Handle for Multipoint Door Lock  
(With Key)

35mm / 85mm axis



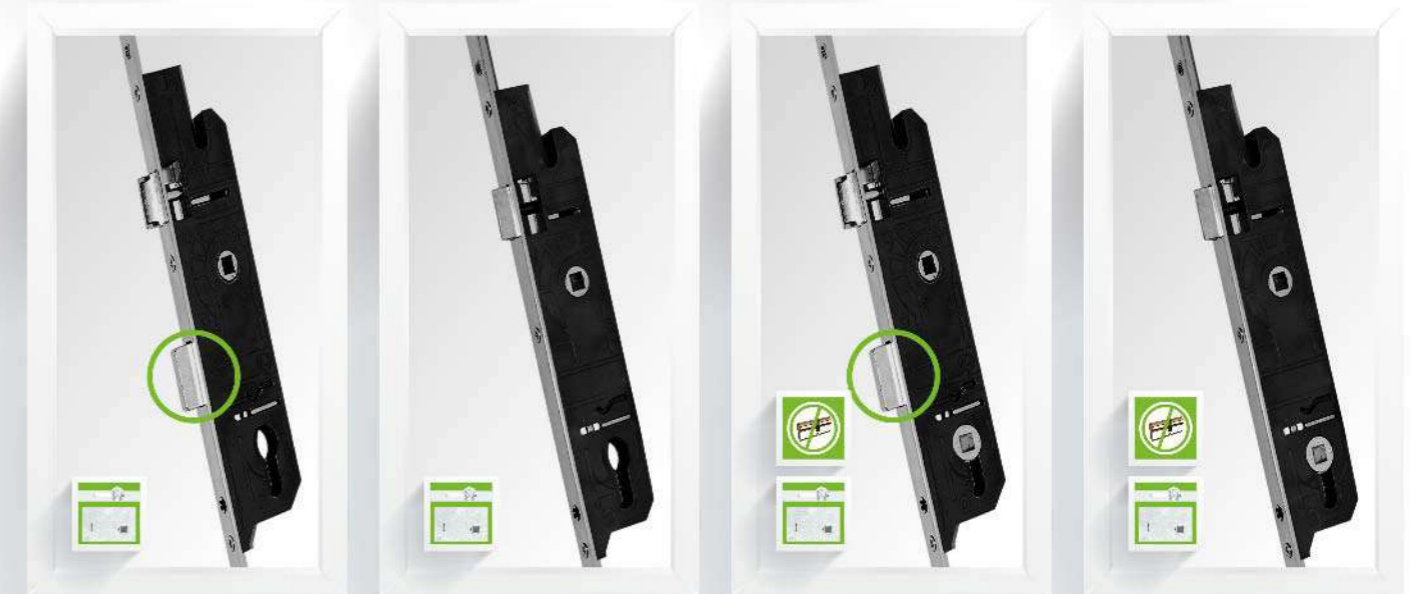
KI007 - KI008 - KI009  
Multipoint Door Lock With Deadbolt  
With Tongue  
Lengths: 160, 180, 200cm

KI013 - KI014 - KI015  
Multipoint Door Lock With Deadbolt  
Without Tongue  
Lengths: 160, 180, 200cm

KI010 - KI011 - KI012  
WC Multipoint Door Lock With Cylinder  
With Tongue  
Lengths: 160, 180, 200cm

KI022 - KI023 - KI024  
WC Multipoint Door Lock With Cylinder  
Without Tongue  
Lengths: 160, 180, 200cm

28mm / 85mm axis



KI025 - KI026 - KI027  
Multipoint Door Lock With Deadbolt  
With Tongue  
Lengths: 160, 180, 200cm

KI016 - KI017 - KI018  
Multipoint Door Lock With Deadbolt  
Without Tongue  
Lengths: 160, 180, 200cm

KI028 - KI029 - KI030  
WC Multipoint Door Lock With Cylinder  
With Tongue  
Lengths: 160, 180, 200cm

KI019 - KI020 - KI021  
WC Multipoint Door Lock With Cylinder  
Without Tongue  
Lengths: 160, 180, 200cm



25mm / 85mm axis



KI043 - KI044 - KI045  
Multipoint Door Lock With Deadbolt  
With Tongue  
Lengths:160, 180, 200cm



KI034 - KI035 - KI036  
Multipoint Door Lock With Deadbolt  
Without Tongue  
Lengths:160, 180, 200cm



KI049 - KI050 - KI051  
Multipoint Door Lock With Deadbolt  
With Tongue  
Lengths:160, 180, 200cm

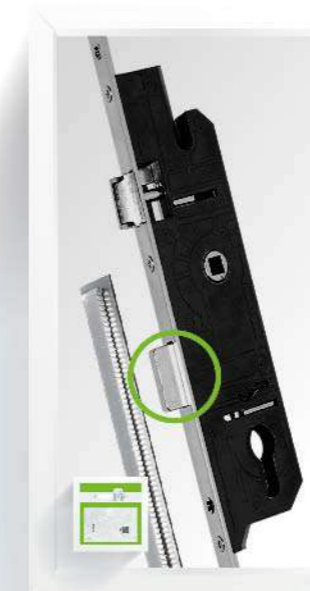


KI040 - KI041 - KI042  
Multipoint Door Lock With Deadbolt  
Without Tongue  
Lengths:160, 180, 200cm

35mm / 85mm axis



KI053  
Multipoint Door Lock  
With Connection Part  
Without Tongue  
Lengths: 170-220cm



KI054  
Multipoint Door Lock  
With Connection Part  
With Tongue  
Lengths: 170-220cm



KI055  
Multipoint Door Lock  
With Connection Part  
Without Tongue  
Lengths: 170-220cm



KI056  
Multipoint Door Lock  
With Connection Part  
With Tongue  
Lengths: 170-220cm

35mm / 92mm axis



KI046 - KI047 - KI048  
Multipoint Door Lock With Deadbolt  
With Tongue  
Lengths:160, 180, 200cm



KI037 - KI038 - KI039  
Multipoint Door Lock With Deadbolt  
Without Tongue  
Lengths:160, 180, 200cm



KI059  
Multipoint Door Lock  
With Connection Part  
Without Tongue  
Lengths: 170-220cm



KI060  
Multipoint Door Lock  
With Connection Part  
With Tongue  
Lengths: 170-220cm

25mm / 85mm axis



KI057  
Multipoint Door Lock  
With Connection Part  
Without Tongue  
Lengths: 170-220cm



KI058  
Multipoint Door Lock  
With Connection Part  
With Tongue  
Lengths: 170-220cm



KI061  
Multipoint Door Lock  
With Connection Part  
Without Tongue  
Lengths: 170-220cm



KI062  
Multipoint Door Lock  
With Connection Part  
With Tongue  
Lengths: 170-220cm

25mm / 92mm axis



35mm / 85mm axis



KI052  
Multipoint Door Lock  
With Connection Part  
Without Tongue  
Lengths: 170-220cm

35mm / 85mm axis



KIE001 KIE005 KIE003  
Multipoint Door Lock With T-pin  
Without Tongue  
Lengths: 160,180, 200cm

28mm / 85mm axis



KIE013 KIE014 KIE015  
Multipoint Door Lock With T-pin  
Without Tongue  
Lengths: 160,180, 200cm



KIE016 KIE017 KIE018  
Multipoint Door Lock With T-pin  
Without Tongue  
Lengths: 160,180, 200cm



B006  
Barrel 100mm (Zinc Chrome)



B002  
Barrel 90mm (Zinc Chrome)



B001  
Barrel 83mm (Zinc Chrome)



B005  
Barrel 68mm (Zinc Chrome)



40mm



GG001 - GG002 - GG003  
Wide Body Espagnolettes  
Lengths: 160, 180, 200cm

15mm



IC001 - IC010  
Espagnolettes  
Lengths: 30, 40, 60, 80,  
100, 120, 140, 160, 180, 200 cm

15mm



ICS001 - ICS010  
Slide Espagnolettes  
Lengths: 30, 40, 60, 80,  
100, 120, 140, 160, 180, 200 cm

15mm



IEC001 - IEC010  
Security Espagnolettes With T2-pin  
Lengths: 30, 40, 60, 80,  
100, 120, 140, 160, 180, 200 cm

7,5mm



IG001 - IG009  
Paunchy Espagnolettes  
Lengths: 40, 60, 80, 100  
120, 140, 160, 180, 200 cm

25mm



GG009 - GG008 - GG007  
GG004 - GG005 - GG006  
Wide Body Espagnolettes  
Lengths: 100, 120, 140, 160,  
180, 200cm

15mm



ID001 - ID010  
Espagnolettes  
Lengths: 30, 40, 60, 80,  
100, 120, 140, 160, 180, 200 cm

15mm



IDS001 - IDS010  
Slide Espagnolettes  
Lengths: 30, 40, 60, 80,  
100, 120, 140, 160, 180, 200 cm

15mm



IED001 - IED010  
Security Espagnolettes With T2-pin  
Lengths: 30, 40, 60, 80,  
100, 120, 140, 160, 180, 200 cm



35mm / 85mm axis

35mm / 90mm axis

35mm / 85mm axis



KIL001  
Cylindrical Mortise Lock



KIL002  
WC Mortise Lock



KIL003  
Room Mortise Lock

28mm / 85mm axis

28mm / 90mm axis

28mm / 85mm axis



KIL004  
Cylindrical Mortise Lock



KIL005  
WC Mortise Lock



KIL006  
Room Mortise Lock

20mm / 85mm axis

20mm / 90mm axis

25mm / 85mm axis

25mm / 90mm axis



KIL007  
Cylindrical Mortise Lock



KIL015  
WC Mortise Lock



KIL008  
Cylindrical Mortise Lock



KIL016  
WC Mortise Lock

20mm / 85mm axis

25mm / 85mm axis

25mm / 85mm axis

25mm / 90mm axis



KIL009  
Roller Latch Mortise Lock



KIL010  
Roller Latch Mortise Lock



KIL017  
Cylindrical Mortise Lock  
Iron Sheet Body



KIL018  
WC Kapı Kilidi  
Iron Sheet Body

20mm / 85mm axis

25mm / 85mm axis



KIL011  
Cylindrical Mortise Lock



KIL013  
Roller Latch Mortise Lock



KIL012  
Cylindrical Mortise Lock



KIL014  
Roller Latch Mortise Lock

20mm / 85mm axis

25mm / 85mm axis



KIL019  
Cylindrical Mortise Lock  
Iron Sheet Body



KIL021  
Roller Latch Mortise Lock  
Iron Sheet Body



KIL020  
Cylindrical Mortise Lock  
Iron Sheet Body



KIL022  
Roller Latch Mortise Lock  
Iron Sheet Body

30mm / 85mm axis

35mm / 85mm axis



KIL023  
Cylindrical Mortise Lock  
Iron Sheet Body



KIL025  
Roller Latch Mortise Lock  
Iron Sheet Body



KIL024  
Cylindrical Mortise Lock  
Iron Sheet Body



KIL026  
Roller Latch Mortise Lock  
Iron Sheet Body



25mm / 70mm axis

30mm / 70mm axis



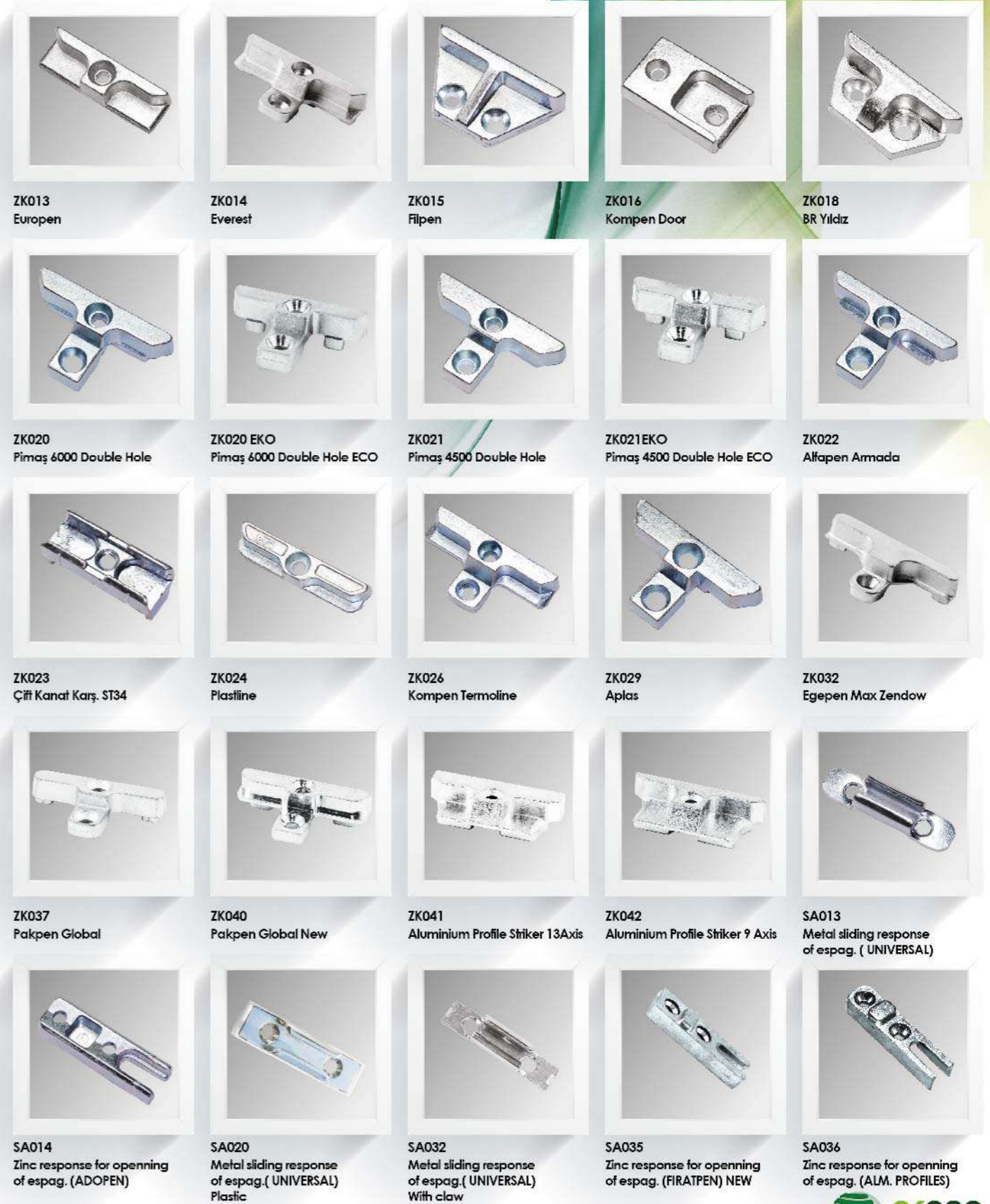
MINI 004  
Mini Lock Set with Handle Springed Handle



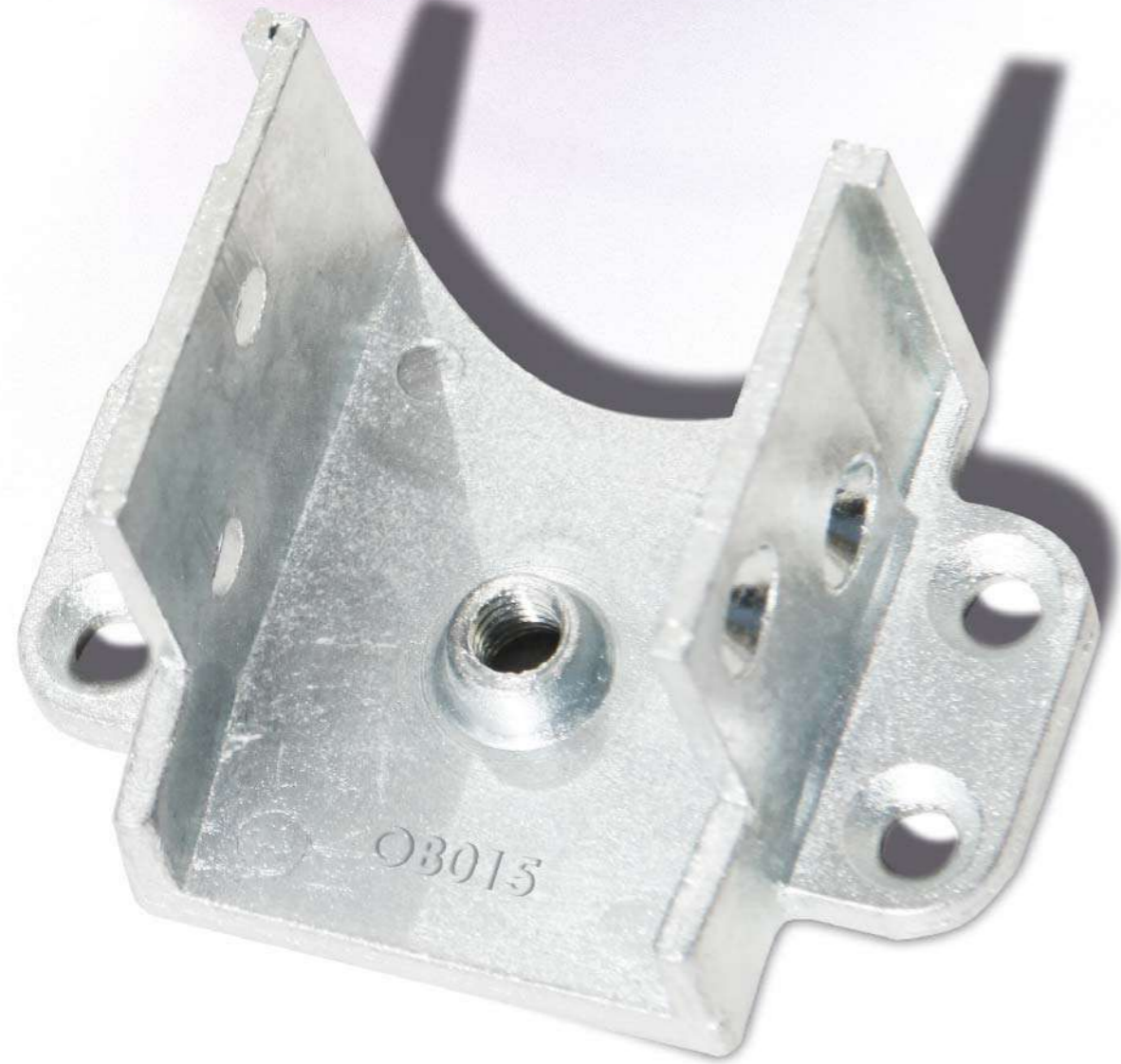
MINI 001-3-5  
Mini Lock Set with Springed Handle



ZK001 Pakpen	ZK002 Firatpen Single	ZK002 EKO Firatpen Single Eco	ZK003 Firatpen Double	ZK004 Pimaş 6000
ZK004 EKO Pimaş 6000 Eco	ZK005 Pimaş 4500	ZK005 EKO Pimaş 4500 Eco	ZK006 Asaş Pen Window Double	ZK007 Asaş Pen Window Single
ZK008 Asaşpen Door	ZK009 Asaş Pen Eco 5200	ZK010 Asaş Pen 6040	ZK011 Akapen Astra	ZK012 Akapen Vega Double



ZK013 Europen	ZK014 Everest	ZK015 Filpen	ZK016 Kompén Door	ZK018 BR Yıldız
ZK020 Pimaş 6000 Double Hole	ZK020 EKO Pimaş 6000 Double Hole ECO	ZK021 Pimaş 4500 Double Hole	ZK021EKO Pimaş 4500 Double Hole ECO	ZK022 Alfapen Armada
ZK023 Çift Kanat Karş. ST34	ZK024 Plastiline	ZK026 Kompén Termoline	ZK029 Aplas	ZK032 Egepen Max Zendow
ZK037 Pakpen Global	ZK040 Pakpen Global New	ZK041 Aluminium Profile Striker 13Axis	ZK042 Aluminium Profile Striker 9 Axis	SA013 Metal sliding response of espag. ( UNIVERSAL)
SA014 Zinc response for opening of espag. (ADOPEN)	SA020 Metal sliding response of espag.( UNIVERSAL) Plastic	SA032 Metal sliding response of espag.( UNIVERSAL) With claw	SA035 Zinc response for opening of espag. (FIRATPEN) NEW	SA036 Zinc response for opening of espag. (ALM. PROFILES)



OB015

OB013 Euroline	OB014 Fratpen 6060	OB015 Teraplast 6 Section	OB016 Kompen200 Superline	OB017 Windoline
OB020 Asaspen 6022	OB021 Erpen Smartline 62	OB022 Flashpen	OB023 Pentech	OB024 Taurus Silver
OB026 Worldpen	OB027 Schönline 6000	OB028 Plastline	OB029 Fratpen 7060	OB030 Vinka 6000
OB031 Erpen Extraline 54	OB032 Kompen 600 Termoline	OB033 Alfapen Armada	OB034 Saraypen Dar	OB035 Polipen 603 Dar
OB036 Polipen 603 Wide	OB037 Vivaplast	OB038 Pakpen Global Narrow	OB039 Pakpen Global Wide	OB040 Proline 6000

OB001 Pimaş General	OB005 Teknoplast Startec	OB007 Taurus Best	OB009 Asaspen 5200 Eco	OB010 Shönline linex 60-70





OB041  
Tecnoplast Megatec



OB042  
Keban Hazal



OB043  
Erpen Sembol



OB044  
Erpen Trend 62



OB045  
Europen 7000



OB046  
Tecnoplast Yeni Supertec



OB047  
Saraypen Wide



OB051  
Egepen Zendow



OB053  
Enderpen Masterline



OB054  
Enderpen Vizyonline



OB055  
Erpen Combiline 72



OB056  
Europen Elit



OB061  
Natural 6000 Trova



OB065  
Pensa Bonus



OB072  
Forza 5200 Eco



OB075  
Firatpen 7060 Eco



OB076  
Egepen Max



OB077  
Artwin



OB078  
Winapex 6004



OB079  
Uniplast 6000-7000



OB081  
Uniplast Ecolim



OB082  
Karpen



OB083  
Pakpen Rival



OB085  
WinTurk



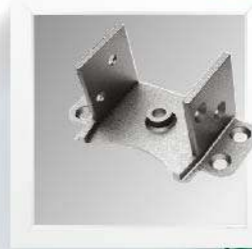
OB086  
Vivaplast Kulaksız



OB087  
Aplas



OB088  
Aplas 7000



OB089  
Teraplast 4 Section



OB090  
Pakpen Ideal



OB091  
Firat 7000 Eco New



OB092  
Propen 6000



OB093  
Pakpen Royal



OB094  
Erpen Trend Eco



OB095  
Eurofasad



OB096  
Europen 7000 Eco



OB097  
Worldpen 6000 Eco



OB098  
Pentech Eco



OB099  
Alfapen Armada Eco



OB100  
Erpen Smartline Eco



OB101  
Propen 7000



OB102  
Eurotech Eco Narrow



OB103  
Enderpen Clascompact



OB104  
Pakpen Optimal



OB105  
Slide Flyscreen



OB106  
Teraplast 7 Section



OB107  
New Firat 6070



OB109  
Firat S75 / Garnet 70



OB111  
Firat Selenit



OB112  
Asapen 6040



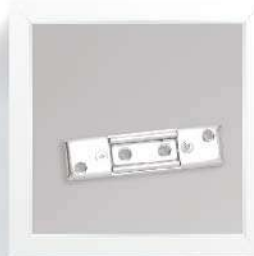
**KK001**  
Locking Plate  
Universal Adjustable  
Long / Zinc



**KK002**  
Locking Plate  
Universal Adjustable  
Short / Zinc



**KK010**  
Locking Plate  
Long  
Iron Sheet



**KK009**  
Locking Plate  
Short  
Iron Sheet



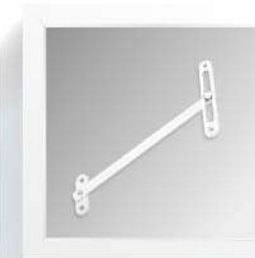
**KK011**  
Locking Plate  
Universal Adjustable  
Long / Iron Sheet  
Plastic Body



**KK012**  
Locking Plate  
Universal Adjustable  
Long / Zinc  
Plastic Body



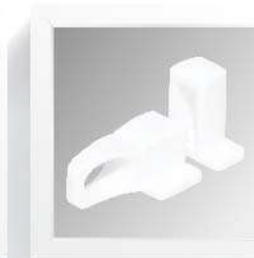
**V005**  
Transom Scissors 13cm  
Iron Sheet



**V006**  
Transom Scissors 22cm  
Iron Sheet



**V003**  
Transom Locked  
Aluminium



**PS008**  
Adjustable Transom Locked  
Plastic



**PLS021**  
Transom Locked  
Plastic



**V007**  
Transom Scissors  
Steel



**V008**  
Folding Transom Scissors 13cm  
Steel



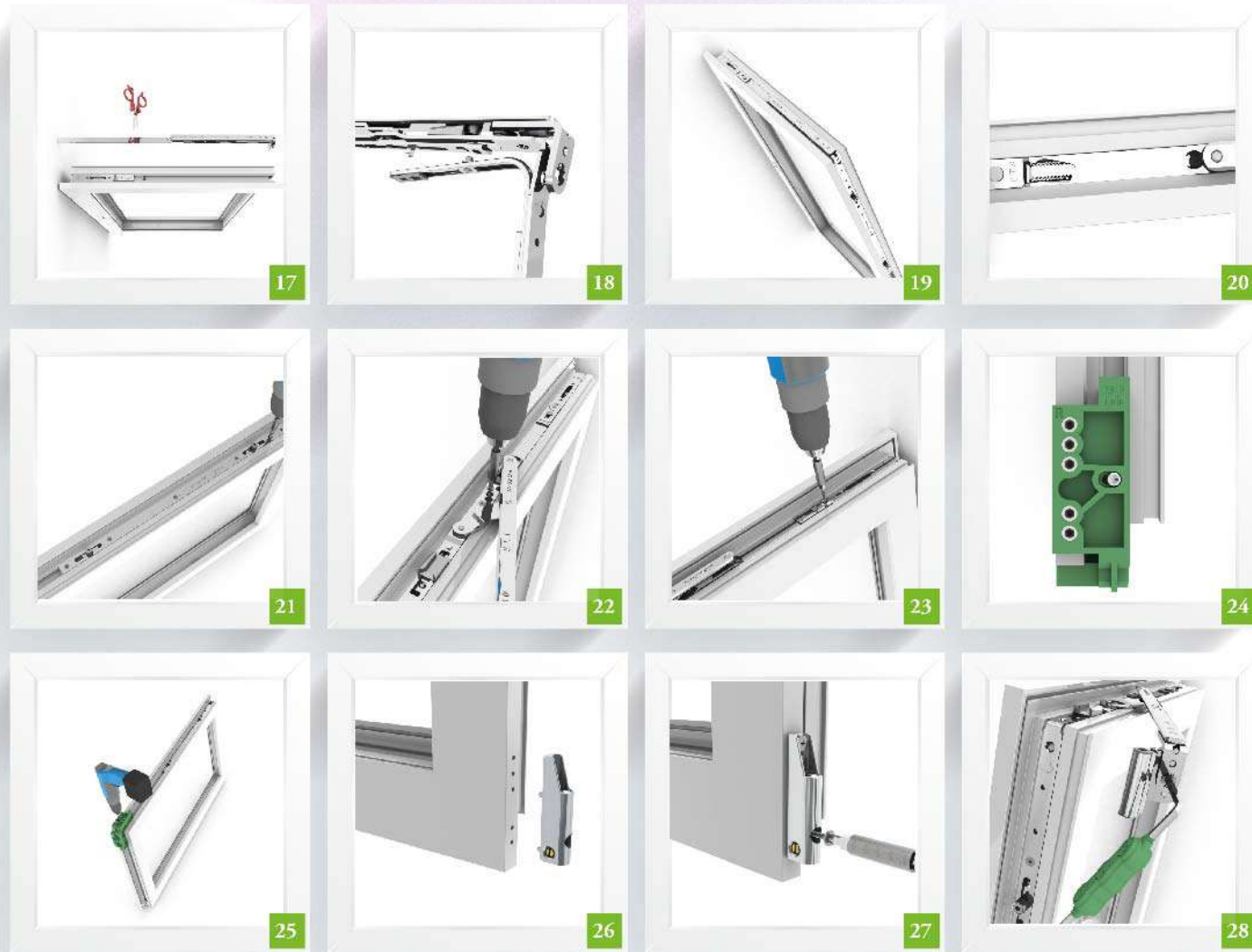
**V004**  
Balcony Door Fastener



**V009**  
Balcony Door Fastener  
Plastic Body  
9 Axis



**V010**  
Balcony Door Fastener  
Plastic Body  
13 Axis



**STAY ARM AND MIDDLE LOCK ASSEMBLY INSTRUCTIONS**

According to Picture 17, Stay arm is fixed to the channel and long part from Corner Transmission side is cutted. After that, Stay Arm and Middle Lock is combined and assembled. Picture 18.

Middle Lock Transmission pin is inserted to related hole of the stay arm and checked. After that fixed to the channel. Picture 19,

As same point, stay arm and corner transmission assembly must be done exactly like espagnolette and corner transmission assembly. After Stay Arm and Middle Lock is screwed, cover onto the corner transmission is overlapped to Stay Arm and screwed. Picture 20, 21, 22, 23.

**BOTTOM SASH HINGE ASSEMBLY INSTRUCTIONS**

Locking Axle of profile is adjusted by choosing 9 mm or 13 mm from Drilling Jig. Sash is drilled by Ø 2,8 mm drill as shown in Picture 25 and hinge is assembled as shown Picture 26 and 27.

**TOP SASH HINGE ASSEMBLY INSTRUCTIONS**

Suitable Hinge according to profile (9mm – 13mm) is adjusted right or left and assembled to Stay Arm as shown in Picture 28.



**SASH AND FRAME ASSEMBLY**

Locate the sash bottom hinge over the frame bottom hinge and settle the sash over the frame following Picture 29.

Control the fixing of scissor connector hinge and the frame top hinge, Picture 30.

Note: The plastic caps of scissor connector hinge should be placed before the assembly.

**PIVOT STRIKER AND LOCK PIN STRIKER ASSEMBLY**

Following the instructions as shown in Picture 31, choose the right axis size 9mm or 13mm of pivot striker and install it on the bottom corner of frame, right opposite to espagnolette bottom part.

Choose lock pin strikers axis sizes and install them right opposite to espagnolette, corner part and back lock pins. Follow the instructions in Picture 32, 33.

Finally, install plastic caps and window handle (Picture 34, 35). Fix the window handle as shown in Picture 36 and 37, control the window handle working.

After installation close the sash, turn the window handle down.



SA001  
Sliding Roller  
Big  
Polyamide



SA008  
Sliding Roller  
Big  
Brass



SA003 Pimaş  
Sliding Roller



SA038 Egepen  
Sliding Roller  
Double Wheels Polyamide



SA006  
Sliding Roller  
Small Single Wheel Brass



SA002  
Sliding Roller  
Double Wheels Polyamide  
Iron Sheet



SA019  
Sliding Roller  
Double Wheels  
Iron Sheet



SA028  
Sliding Roller  
Double Wheels Brass Import  
Iron Sheet



SA017  
Sliding Roller  
Single Wheels Polyamide  
Iron Sheet



SA018  
Sliding Roller  
Double Wheels  
Iron Sheet



SA029  
Sliding Roller  
Single Wheels Brass Import  
Iron Sheet



SA026  
Sliding Roller  
Adjustable Double Wheels



SA034  
Sliding Roller  
Adjustable Single Wheels



SA037  
Double Door Sliding  
Left-Right  
Iron Sheet



SA039  
Double Window Sliding  
Up - Down  
Plastic Body



SA009  
Double Door Sliding  
Up - Down  
Iron Sheet



SA010  
Double Window Sliding  
Up - Down  
Iron Sheet



SA011  
Double Window Sliding  
Left-Right  
Zinc



SA012  
Double Door Sliding  
Left-Right  
Steel



SA015  
Sliding Handle C Type  
Aluminium



SA023  
Sliding Handle D Type  
Aluminium



SA024  
Sliding Handle  
(POOL) Inlaid Small  
Aluminium



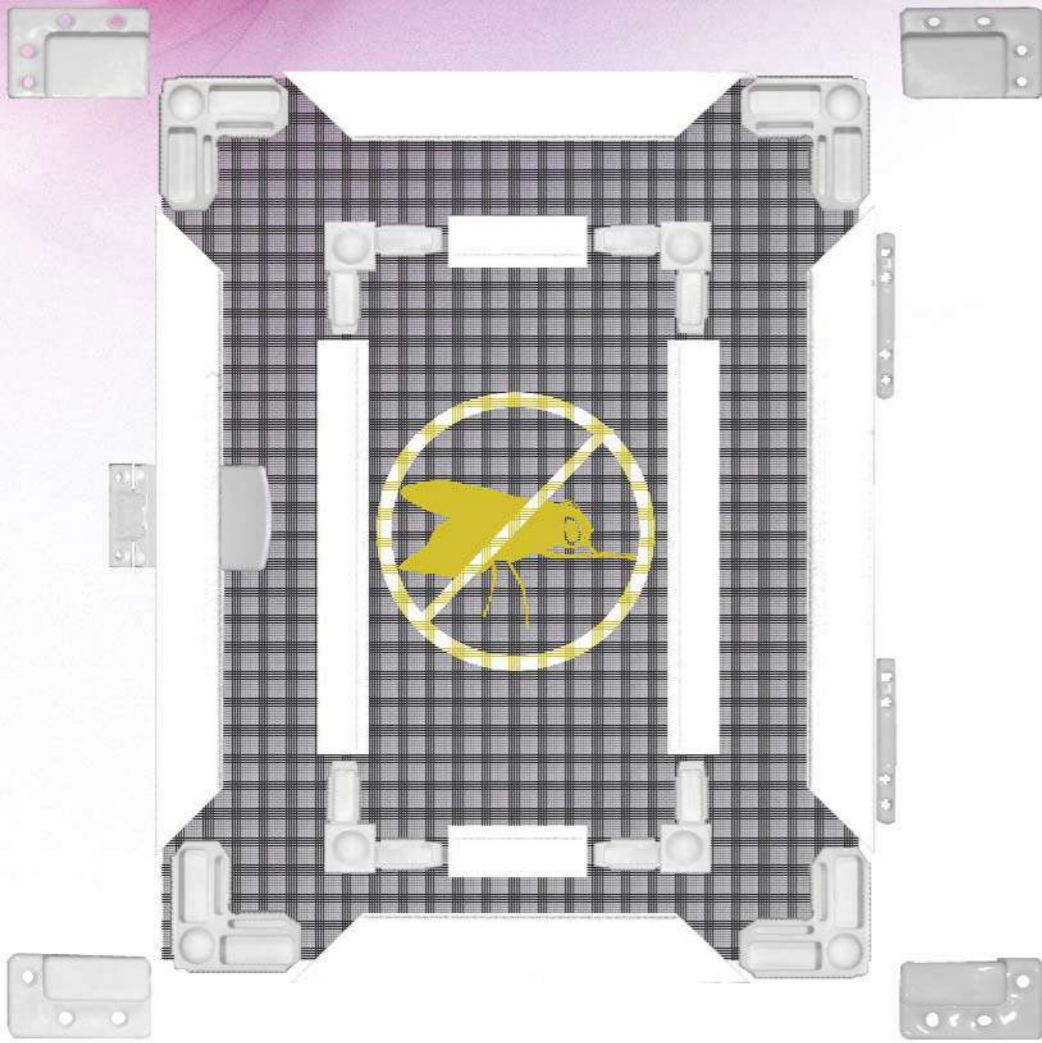
SA025  
Sliding Handle  
(POOL) Inlaid Big  
Aluminium



SA016  
Sliding Hidden Handle  
Zinc



SA030  
Sliding Hidden Handle  
Aluminium



ASG001



ASG002



ASG003



ASG004



ASG005



ASG006



ASG007



ASG008



ASG024



ASG029



ASG030



ASG031



AKV001  
YHB Self Drill Screws

3,9 x 13	4,2 x 13	4,8 x 32
3,9 x 16	4,2 x 16	4,8 x 38
3,9 x 19	4,2 x 19	4,8 x 45
3,9 x 22	4,2 x 22	4,8 x 50
3,9 x 25	4,2 x 25	4,8 x 60
3,9 x 32	4,2 x 32	4,8 x 70
3,9 x 38	4,2 x 38	4,8 x 80
	4,2 x 45	



AKV006  
YSB Rare Thread

6 x 60  
6 x 80  
6 x 100



AKV002  
YSB Self Drill Screws

3,9 x 16	4,2 x 13	4,8 x 16
3,9 x 19	4,2 x 16	4,8 x 19
3,9 x 22	4,2 x 19	4,8 x 32
3,9 x 25	4,2 x 22	4,8 x 38
3,9 x 32	4,2 x 25	4,8 x 45
3,9 x 38	4,2 x 32	4,8 x 50
	4,2 x 38	4,8 x 60
	4,2 x 45	4,8 x 70
		4,8 x 80



AKV007  
YSB Metric Thread

6 x 60



AKV003  
Espagnolette Screws  
YHB Rare Thread

3,9 x 16	4,2 x 13	4,8 x 32
3,9 x 22	4,2 x 38	4,8 x 38
3,9 x 25	4,2 x 45	4,8 x 45
3,9 x 32		
3,9 x 38		



CD002 - CD003 - CD004 - CD005  
Steel Wall Plug

10 x 80  
10 x 100  
10 x 120  
10 x 132



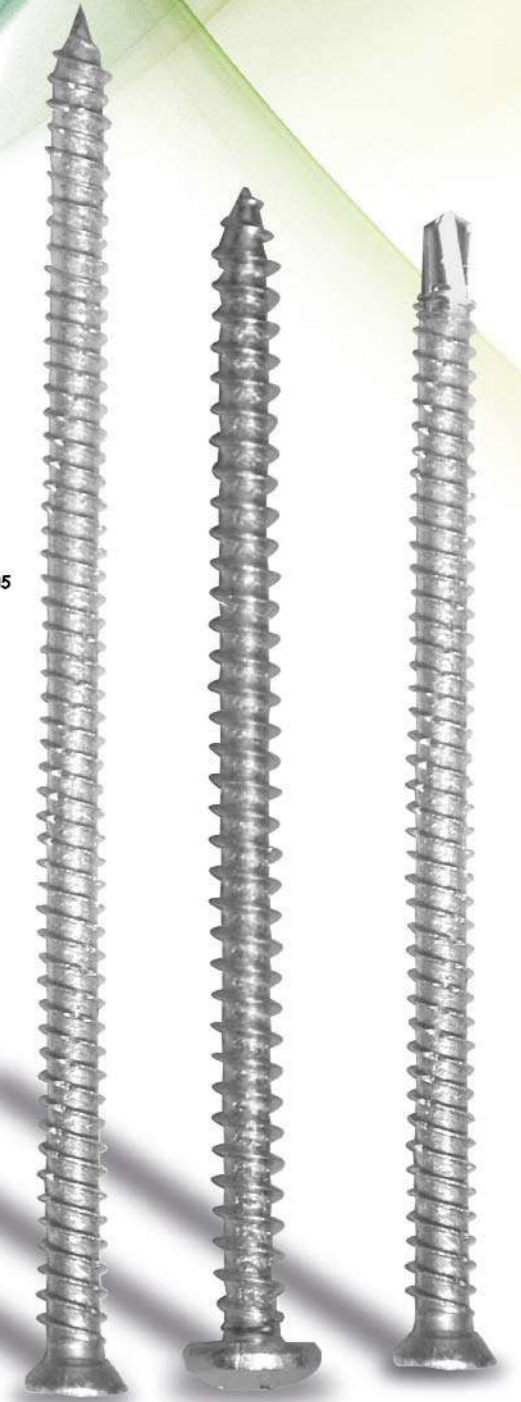
AKV004  
Montage Screw Buldex

7,5 x 60
7,5 x 80
7,5 x 100
7,5 x 120
7,5 x 150
7,5 x 160
7,5 x 180



AKV005  
YHB Rare Thread

6 x 60  
6 x 80  
6 x 100





IZO01



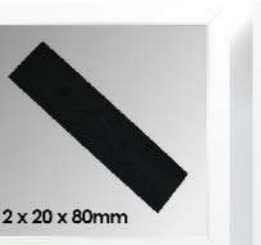
IZO02



IZO03



CM01  
Thiokol (A)-(B)



2 x 20 x 80mm

PS.010  
Thin Glass Wedge



3 x 20 x 80mm

PS.013  
Middle Glass Wedge



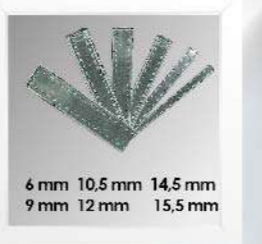
5 x 20 x 80mm  
Refracted

PS.015  
Thick Glass Wedge



6 mm 10,5 mm 14,5 mm  
9 mm 12 mm 15,5 mm

CM04



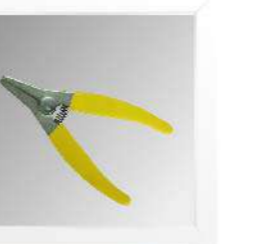
6 mm 10,5 mm 14,5 mm  
9 mm 12 mm 15,5 mm

CM03



Nem alici

CM02



USS Nippers



AIRVENT

MNF001	35 x 40
MNF002	40 x 44
MNF003	40 x 52
MNF004	45 x 48
MNF005	45 x 56
MNF006	49 x 52
MNF007	45 x 64
MNF008	55 x 64
MNF009	49 x 68
MNF010	58 x 60
MNF011	28 x 28
MNF012	55 x 56
MNF013	30 x 50
MNF014	50 x 30



Type 02  
24mm



Type 02  
18mm



PS.003  
Plastic Window Handle  
Steel



PS.004  
Plastic Window Handle  
Without steel



PS.018  
Plastic Wall Plug  
With Claws 8mm



PS.016  
Montage Plug 12mm



PS.011  
Water Dashboard Plug



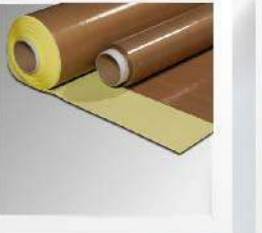
PS.012  
Buldex Screw Plug



PS.017  
Sash Lift Wedge



RT001  
Retouch Marker



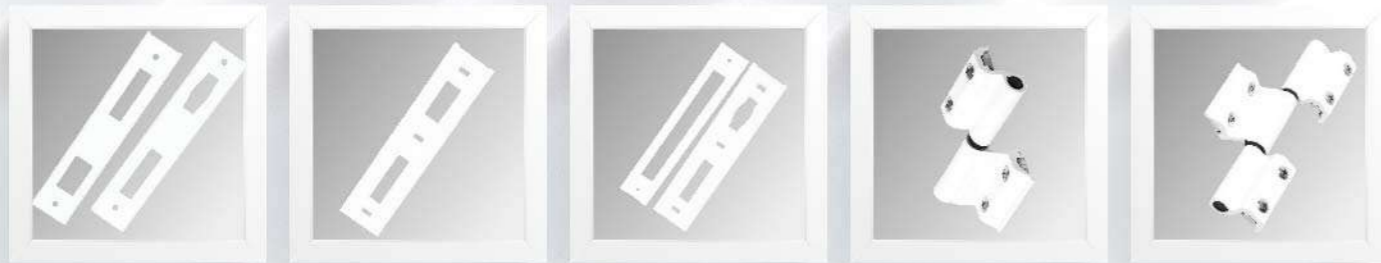
TF001  
Teflon Sticky



TF002  
Teflon Not Sticky



AK411      AK500      AK501      AK502      AK503



AK600 / AK601      AK602      AK603      AK704      AK705



AK700      AK701      AK702      AK708      AK706



AK800      AK801      AK802      AK803      AK900



AK904      AK901      AK905      AK902      AK903



Code	Ø	A
AK100	25	200
AK101	25	300
AK102	25	400
AK104	30	300
AK105	30	400

Code	Ø	A
AK200	25	200
AK201	25	300
AK203	30	300

Code	Ø	A
AK300	25	200
AK301	30	200



AK100      AK200      AK300      AK402      AK403



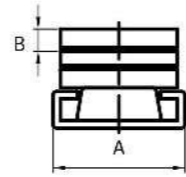
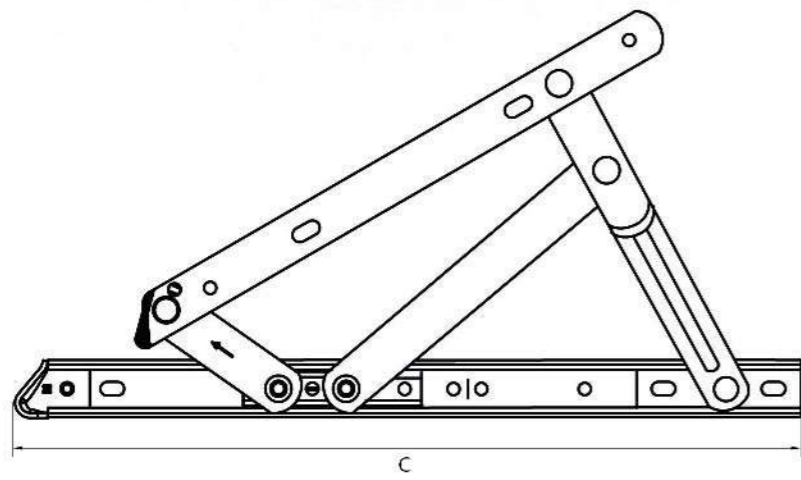
AK412      AK400      AK401      AK404      AK405



AK406      AK407      AK408      AK409      AK410

**FRICION STAY ARM**  
(Bracket)

41



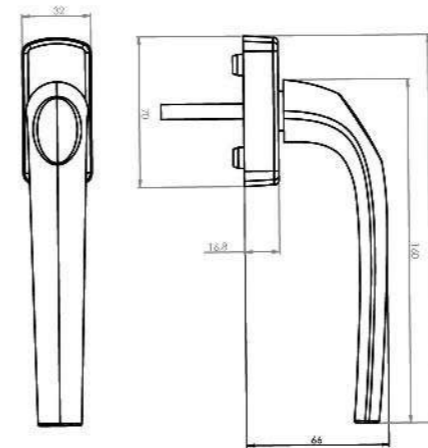
CODE	GROVE	THICKNESS	LENGTH	TYPE
	mm			
	A	B	C	
CMKS 01	22	3	14"	304 SS
CMKS 02	22	3	16"	304 SS
CMKS 03	22	3	18"	304 SS
CMKS 04	22	3	20"	304 SS
CMKS 05	22	3	22"	304 SS

**TILT AND SLIDE SYSTEMS**

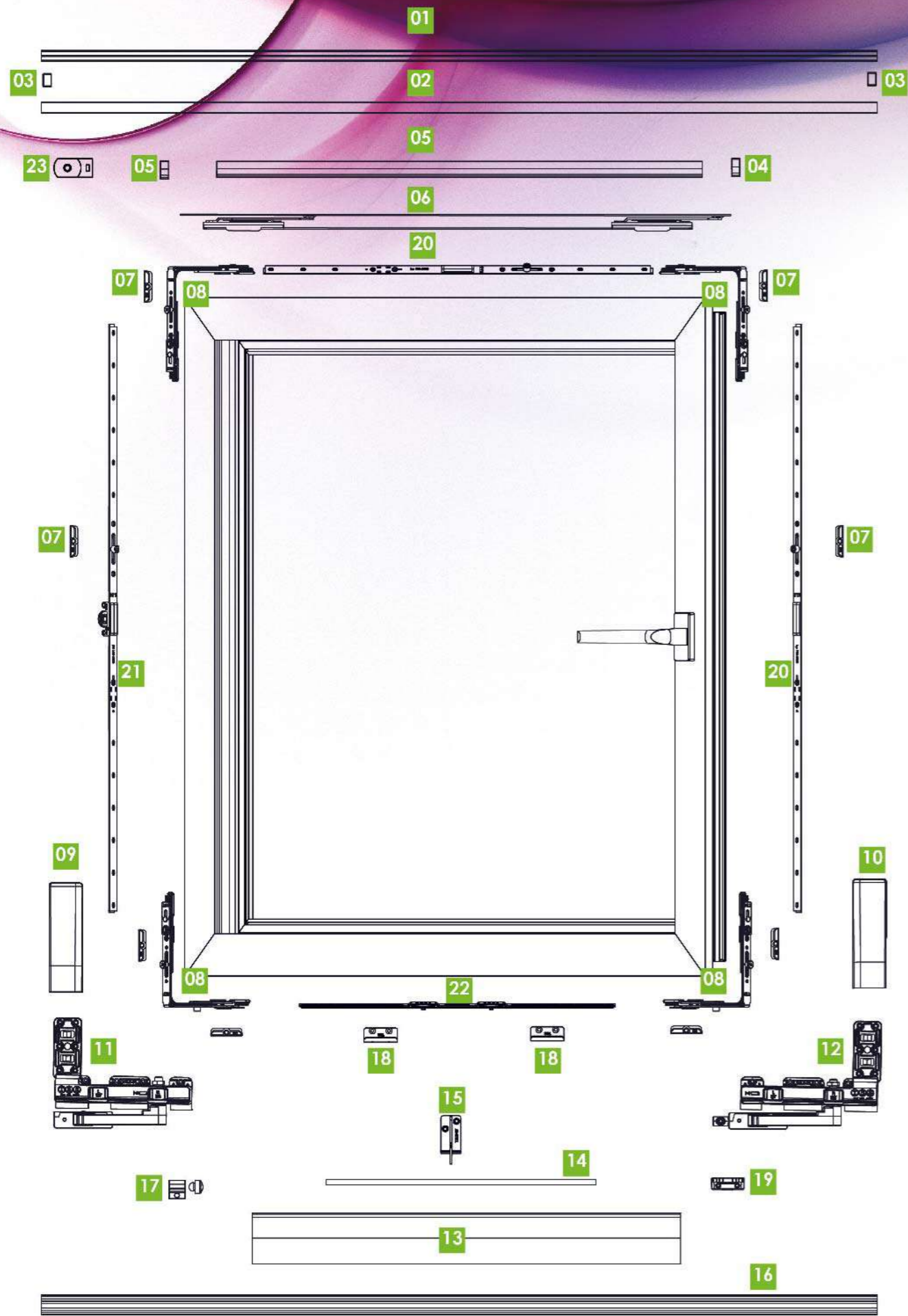
42


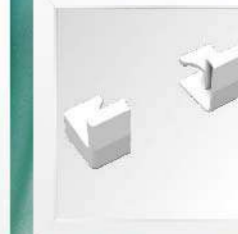
















**A014**  
TILT AND SLIDE SYSTEM HANDLE







- |  |   |  |  |  |
|--|---|--|--|--|
| <br>TSS01<br>Top Rail<br><small>LENGTHS:<br/>2000mm<br/>2630mm<br/>3430mm</small> | <br>TSS02<br>Top Rail Cover                    | <br>TSS03<br>Top Rail Side Covers             | <br>TSS04<br>Sash Connection Profile Cover              | <br>TSS05<br>Sash Connection Profile                    |
| <br>TSS06<br>Stay Arm   | <br>TSS07<br>Locking Striker                   | <br>TSS08<br>Corner Transmission              | <br>TSS09<br>Tilt & Slide Brakeless<br>Roller Cover (R) | <br>TSS10<br>Tilt & Slide Brakeless<br>Roller Cover (L) |
| <br>TSS11<br>Tilt & Slide Brakeless Roller                                      | <br>TSS12<br>Tilt & Slide Roller             | <br>TSS13<br>Aluminium Rail Cover           | <br>TSS14<br>Connection Rod                           | <br>TSS15<br>Aluminium Cover Holder                   |
| <br>TSS16<br>Bottom Rail  | <br>TSS17<br>Bottom Roller Stopper R/L       | <br>TSS18<br>Tilting Striker - 13/20 - 9/20 | <br>TSS19<br>Tilting Controller Device                | <br>TSS20<br>Tilt & Slide Gear                        |
| <br>TSS21<br>Tilt & Turn Gear   | <br>TSS22<br>Tilt & Slide Bottom Tilter Gear | <br>TSS23<br>Top Stopper R/L                | <br>TSS24<br>Bottom And Top Assembly Jig              | <br>A014<br>Tilt & Slide Handle                       |

TILT & SLIDE SYSTEM ASSEMBLY INSTRUCTIONS



First Assembly point is to start assembling from sash. Sash height including glass must not be higher than 100 kgs. In designing process weights must be calculated exactly.

Hardware assembly start with corner transmission parts by assembling parts to four corners of the sash. Picture 1,2,3,4

After assembly of corner transmissions, Tilt&Turn espagnolette assembly process starts. Firstly sash height is calculated and half of this dimensions (middle points) are pointed onto the profile. Tilt&Turn Espagnolette is fixed by considering center point of Tilt&Turn espagnolette is exactly fixed with the point onto the profile. Long parts from corner sides are pointed and cutted in order to fix corner transmission and Tilt&Turn espagnolette. Picture 5,6,7,8



Tilt & Turn Espagnolette and corner transmission part assembly must be checked whether they fixed exactly and well. After checking hardware can be screwed. Picture 9,10

Tilt&Slide vertical espagnolette is assembled to opposite side of Tilt & Turn Espagnolette by following same instructions of assembling steps of Tilt&Turn Espagnolette. Picture 11

Tilt&Slide top and bottom horizontal espagnolette assembly steps are same as Tilt&Turn and Tilt&Slide Espagnolettes Horizontal Espagnolettes are fixed by considering center point. Long parts from corner sides are pointed and cutted in order to fix corner transmission and Horizontal Espagnolettes. Espagnolette and corner transmission part assembly must be checked whether they fixed exactly and well. After checking hardware can be screwed. Picture 12,13

After finishing hardware of sash, handle assembly is done. Picture 14



In order to make locking striker assembly, locking pin position must be remarked onto the frame profile. If profile is a right side sliding sash locking position must be arranged according to clockwise operation. If profile is a left side sliding then sash locking position must be arranged according to anticlockwise operation. Picture15

By considering center points of espagnolette, sash is remarked. Locking points are fixed to frame and remarked striker positions. After that strikers are fixed according to clockwise position of remarks of frame and screwed. Tilt & Slide Tilting Espagnolette striker is assembled according to center of the remarks of the profile. Picture16

For Tilt & Slide brakeless roller assembly, assembly adjuster jig of the roller is propped to frame profile. Side of the roller and frame is equalance is adjusted by considering cover. After exacting position of the roller, cover is removed and screwed. Picture17, 18

Assembly steps For Tilt &Slide roller is same as assembly steps of brakeless roller. Picture19, 20

In order to clarify dimensions of connection rod, reference poits of both rollers are measured and rod i cut according to this dimension. Picture21,22,23

Cutted rod is fixed to rod housings onto the rollers and assembled by fastening SW4 hex key. Picture24

Aluminium Rail Cover Holder is propped to bottom side of the sash and screwed in exactly middle position of two rollers. Picture25,26



Sash connection profile is cutted 1 cm less than sash width and screwed exactly to the middle of the sash. Picture27,28

After that Stay arm is slided into Sash connection profile as fixing screw will be positioned backside of the sash. Picture29,30

Assembly is finished after fixing screw of the Stay Arm is fastened. Picture31

Bottom Rail is aligned with the help of the jigs and cutted 1 cm longer than iner side of the frame. Picture32,33,34

Cutted Bottom Rail is assembled by aligning with jigs and screwed. Picture35

Top rail is also aligned with the help of the jigs and cutted 1 cm longer than iner side of the frame as same as Bottom Rail. Picture36,37,38



Cutted Top Rail is assembled by aligning with jigs and screwed. Picture39

In the assembly process of sash to frame, rollers are put to bottom rail with an angle. Picture 40, 41

Stay arm is slided into the top rail and sash and frame is assembled. Picture42

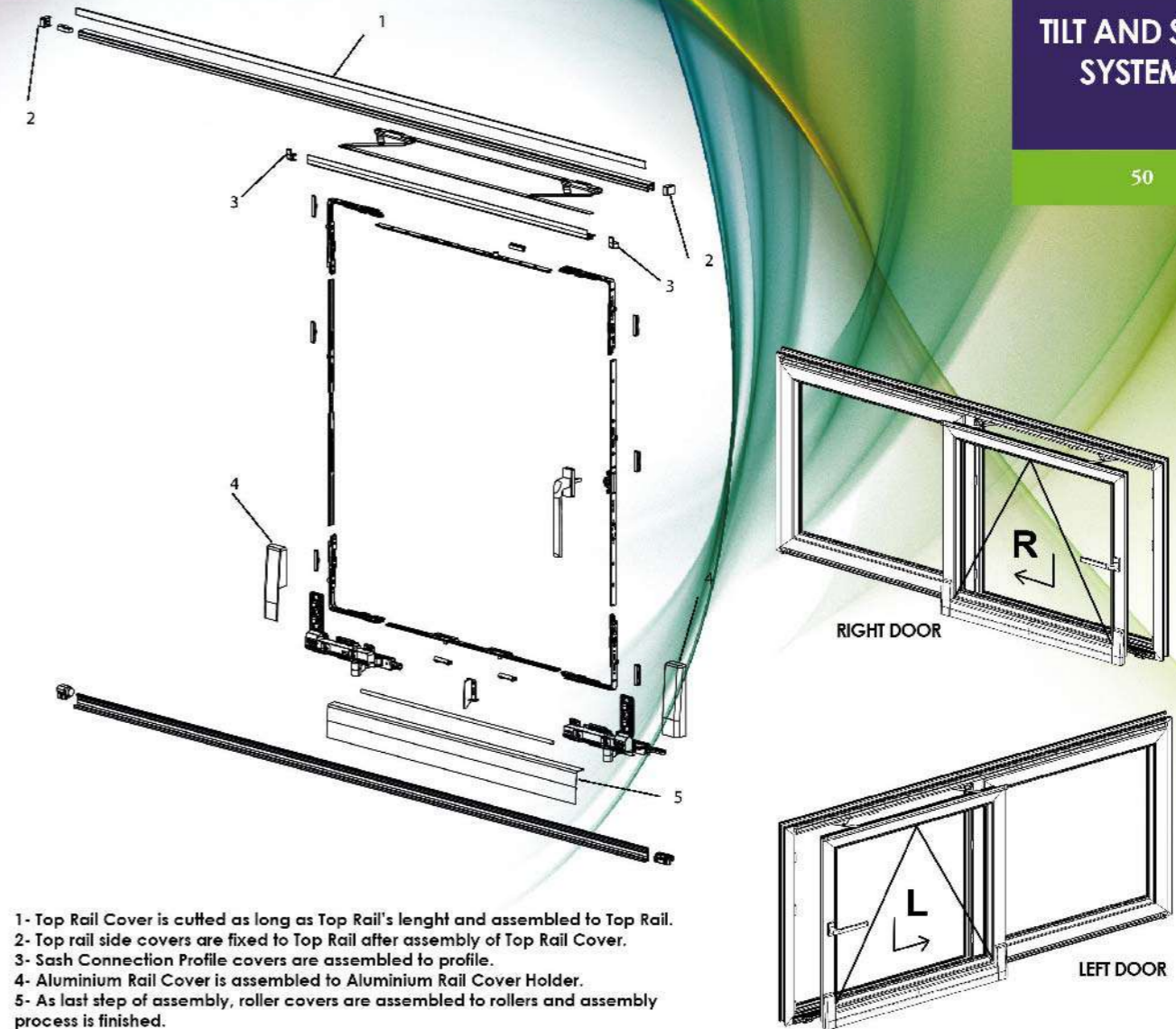
Stay arm assembly is done By fastening SW4 fixer screw with hex key, Picture43

After that top stoper part is inserted into the top rail and fixed by SW4 Hex Key. Picture44,45

Bottom stoper part is inserted into the bottom rail and fixed by SW4 Hex Key as shown in the Picture before. Picture46

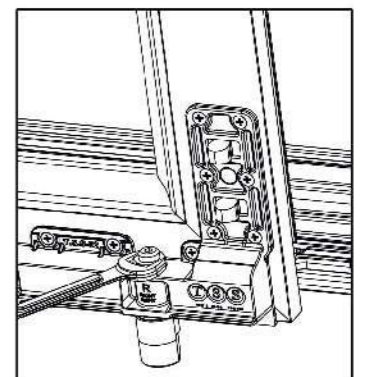
Tilting controller device is aligned by 30 mm from inner side of the profile. Picture47

Assembly is done by fixing screws which are located on the Tilting Controller Device by SW4 Hex Key. Picture48



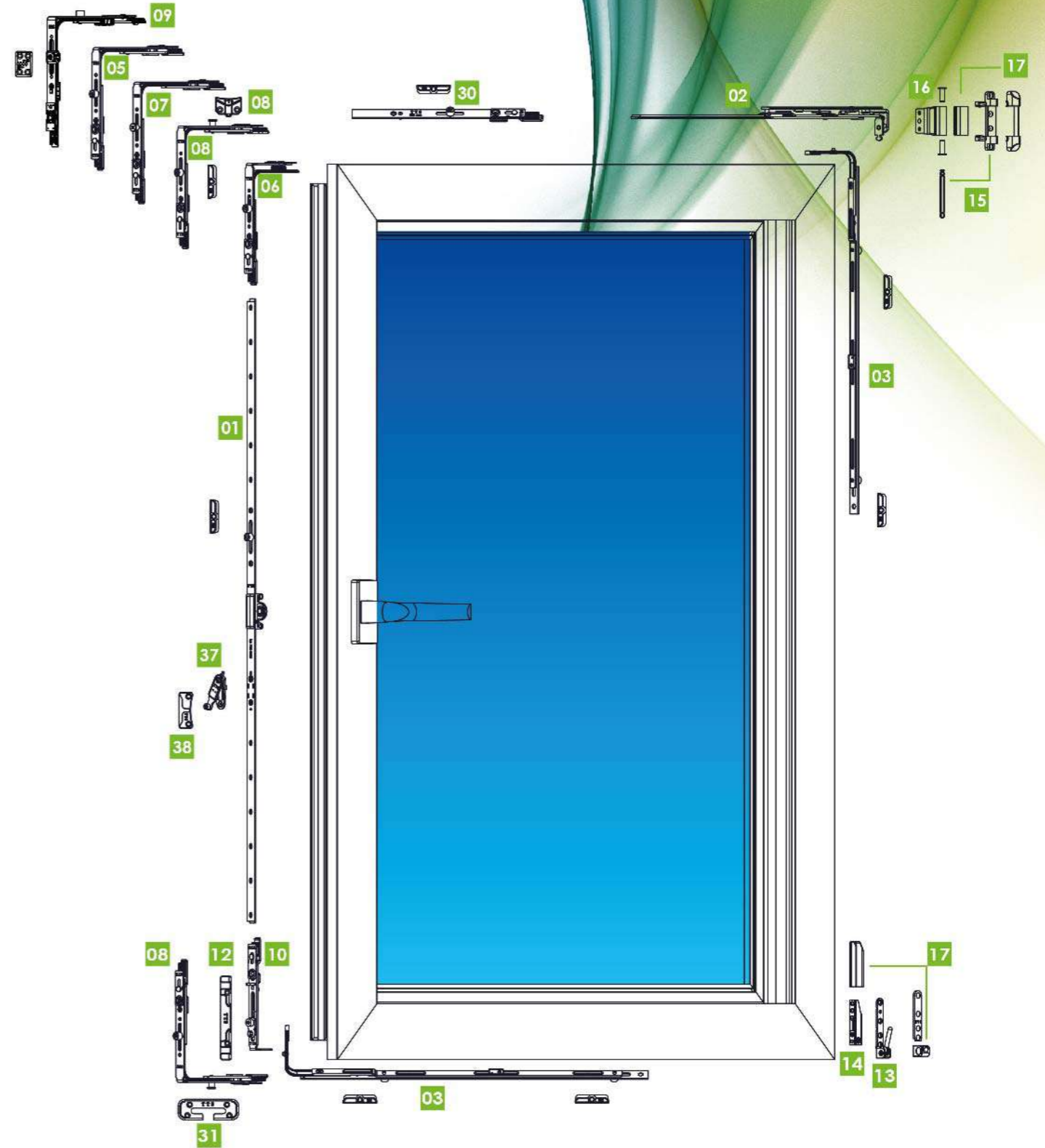
- 1- Top Rail Cover is cutted as long as Top Rail's lenght and assembled to Top Rail.
- 2- Top rail side covers are fixed to Top Rail after assembly of Top Rail Cover.
- 3- Sash Connection Profile covers are assembled to profile.
- 4- Aluminium Rail Cover is assembled to Aluminium Rail Cover Holder.
- 5- As last step of assembly, roller covers are assembled to rollers and assembly process is finished.

Sash height adjustent can be done by unfastening the nut onto the roller by 19 key and by fastening or unfastening the hex screw by SW4 Hex Key.

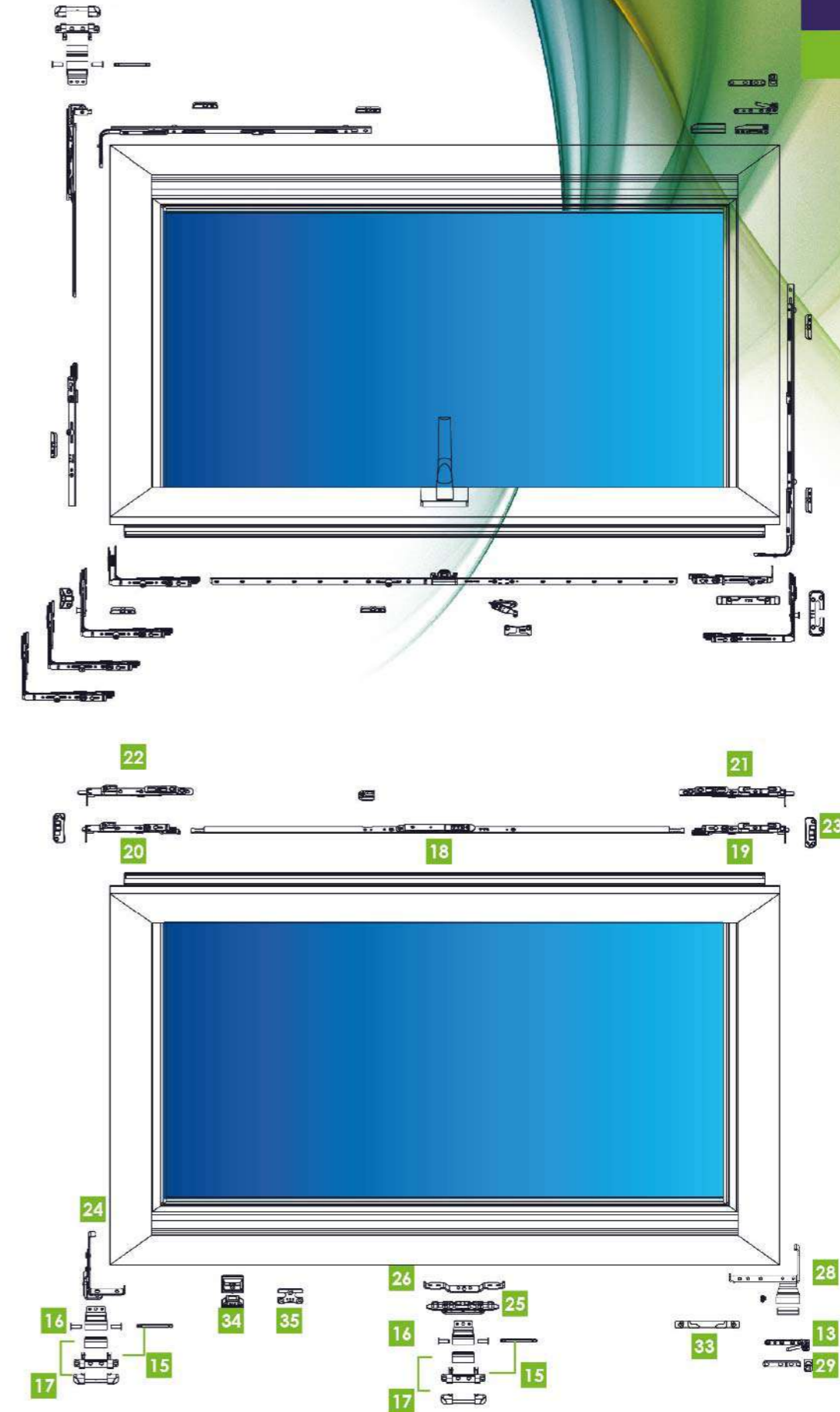




01 TT ESPAGNOLETTE / TT ESPAGNOLETTE (SECURITY)	page: 57
02 TT SCISSORS / TT SCISSORS (SECURITY)	page: 57
03 TT BACK LOCK	page: 57
04 TT BACK LOCK (SECURITY)	page: 57
05 TT CORNER PART (STANDART)	page: 57
06 TT CORNER PART (SHORT CORNER)	page: 57
07 TT CORNER PART (SECURITY)	page: 57
08 TT CORNER PART (MICRO VENTILATION CORNER)	page: 57
09 TT CORNER PART (TT MICRO VENTILATION STRIKER)	page: 58
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11 ESPAGNOLETTE BOTTOM AND TOP LOCK PART	page: 58
12 TT BOTTOM LOCK PIVOT STRIKER 9/10/13/14 AXIS	page: 58
13 TT FRAME BOTTOM HINGE	page: 58
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15 TT FRAME TOP HINGE	page: 58
16 TT SCISSOR CONNECTOR HINGE 9/10/13/14 AXIS	page: 58
17 TT PLASTIC COVER	page: 58
30 TT EXTENSION PART	page: 60
31 TT SASH TILT STRIKER 9 / 13 AXIS	page: 60
37 FAULT USAGE & SASH LIFT LOCK	page: 60
38 FAULT USAGE & SASH LIFT LOCK STRIKER 9 / 13 AXIS	page: 60



13 FRAME BOTTOM HINGE	page: 58
15 FRAME TOP HINGE AND PIN	page: 58
16 TT SCISSOR CONNECTOR HINGE 9 / 13 AXIS	page: 58
17 TT PLASTIC COVER	page: 58
18 CROWBAR GEAR ESPAGNPLETTES	page: 58
19 CROWBAR GEAR BOTTOM SLIDE	page: 59
20 CROWBAR GEAR TOP SLIDE	page: 59
21 CROWBAR GEAR BOTTOM SLIDE WITH LEVER	page: 59
22 CROWBAR GEAR TOP SLIDE WITH LEVER	page: 59
23 CROWBAR GEAR STRIKER 9 / 13 AXIS	page: 59
24 SCISSOR HINGE	page: 59
25 MEDIUM HINGE (3 D) SET	page: 59
26 MEDIUM HINGE (NOT REGULATED) METAL	page: 59
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28 SASH BOTTOM CORNER HINGE	page: 59
34 PLASTIC SASH PRESS HINGE	page: 60
35 DOUBLE CLAW SECURITY STRIKER	page: 60
33 DOUBLE CLAW PIVOT STRIKER	page: 60



01



CODE	mm	WGT	PK
ISP 100-13	500-700	0	20
ISP 100-14	700-1200	1	20
ISP 100-15	900-1400	1	20
ISP 100-16	1200-1700	2	20
ISP 100-17	1700-2200	2	20
ISP 100-18	1900-2400	2	20

TT ESPAGNOLETTE (30mm)

01



CODE	mm	WGT	PK
ISP 100-1	500-700	0	20
ISP 100-2	700-1200	1	20
ISP 100-3	900-1400	1	20
ISP 100-4	1200-1700	2	20
ISP 100-5	1700-2200	2	20
ISP 100-6	1900-2400	2	20

TT ESPAGNOLETTE

01



CODE	mm	WGT	PK
ISP 100-7	500-700	0	20
ISP 100-8	700-1200	1	20
ISP 100-9	900-1400	1	20
ISP 100-10	1200-1700	2	20
ISP 100-11	1700-2200	2	20
ISP 100-12	1900-2400	2	20

TT ESPAGNOLETTE (SECURITY)

02



CODE	mm	WGT	PK
MKS 110-00	350-600	0	20
MKS 110-01	400-650	0	20
MKS 110-02	650-900	0	20
MKS 110-03	900-1150	1	20

TT SCISSORS

02



CODE	mm	WGT	PK
MKS 110-04	650-900	0	20
MKS 110-05	900-1150	1	20

TT SCISSORS (SECURITY)

03



CODE	mm	WGT	PK
AK 120-01	280-600	1	20
AK 120-02	800-850	1	20
AK 120-03	850-1150	2	20
AK 120-04	1150-1400	2	20
AK 120-11	1300-1650	3	20
AK 120-05	1650-1900	3	20
AK 120-12	1900-2200	4	20

TT BACK LOCK

04



CODE	mm	WGT	PK
AK 120-06	280-600	1	20
AK 120-07	600-850	1	20
AK 120-08	850-1150	2	20
AK 120-09	1150-1400	2	20
AK 120-13	1300-1850	3	20
AK 120-10	1850-1900	3	20
AK 120-14	1900-2200	4	20

TT BACK LOCK (SECURITY)

05



CODE	mm	WGT	PK
KE 130-01	150-150	1	100

TT CORNER PART (STANDART)

06



CODE	mm	WGT	PK
KE 130-02	50-150	1	100

TT CORNER PART (SHORT CORNER)

07



CODE	mm	WGT	PK
KE 130-03	150-150	1	100

TT CORNER PART (SECURITY)

08



CODE	mm	WGT	PK
KE 130-04	150-150	1	100
APK 150-03			100

TT CORNER PART (MICRO VENTILATION)

09



CODE	mm	WGT	PK
KE 130-05	150-150	1	100

TT CORNER PART (GRADUAL VENTILATION)

10



CODE	mm	WGT	PK
ALT 160-01	500-2400	1	100

ESPAGNOLETTE BOTTOM LOCK PART

11



CODE	0°	WGT	PK
ALT 160-02	180°	1	100
ALT 160-03	90°	1	100

ESPAGNOLETTE BOTTOM AND TOP LOCK PART

12



CODE		WGT	PK
APK 150-01	9 Axis	-	100
APK 150-09	10 Axis	-	100
APK 150-02	13 Axis	-	100
APK 150-10	14 Axis	-	100

TT BOTTOM LOCK PIVOT STRIKER


13



CODE	kg	PK
MNT 140-07	100	100
MNT 140-08	130	100

TT FRAME BOTTOM HINGE

14



CODE	kg	PK
MNT 140-05	100	100
MNT 140-06	130	100

TT SASH BOTTOM HINGE

15



CODE	PK
MNT 140-03	100
MNT 140-04	No Claws 100

TT FRAME TOP HINGE

16



CODE		PK
MNT 140-01	9 Axis	100
MNT 140-09	10 Axis	100
MNT 140-02	13 Axis	100
MNT 140-10	14 Axis	100

TT SCISSOR CONNECTOR HINGE

17



CODE		PK
PLK 170-01	White	100

TT PLASTIC COVER

18



CODE	mm	WGT	PK
LISP 180-01	500-700	0	10
LISP 180-02	700-1200	1	10
LISP 180-03	900-1400	1	10
LISP 180-04	1200-1700	2	10
LISP 180-05	1700-2200	2	10
LISP 180-06	1900-2400	2	10

TT EXTENSION PART





CODE	mm	AKOR	100
LKS 190-01		1	100

CROWBAR GEAR BOTTOM SLIDE



CODE	mm	AKOR	100
LKS 190-02		1	100

CROWBAR GEAR TOP SLIDE



CODE	mm	AKOR	100
LKS 190-03		1	100

CROWBAR GEAR BOTTOM SLIDE WITH LEVER



CODE	mm	AKOR	100
LKS 190-04		1	100

CROWBAR GEAR TOP SLIDE WITH LEVER



CODE	mm	AKOR	100
LKK 200-01	9 Axis		100
LKK 200-02	13 Axis		100

CROWBAR GEAR STRIKER



CODE	mm	AKOR	100
TÜM 210-01			100

SCISSOR HINGE



CODE	mm	AKOR	100
TOM 220-01			100

MEDIUM HINGE (3 D) SET



CODE	mm	AKOR	100
TOM 220-02			100

MEDIUM HINGE (NOT REGULATED) METAL



CODE	mm	AKOR	100
PLK 170-03			100

PLASTIC COVER FOR BOTTOM CORNER HINGE



CODE	mm	AKOR	100
KKM 240-03	13 Axis Right		100
KKM 240-04	13 Axis Left		100
KKM 240-05	9 Axis Right		100
KKM 240-06	9 Axis Left		100

SASH BOTTOM CORNER HINGE (FOR EURO CHANNEL ALUMINIUM & PVC)



CODE	mm	AKOR	100
UP 250-01	250	1	100
UP 250-02	450	1	100

TT EXTENSION PART



CODE	mm	AKOR	100
APK 150-04	9 Axis		100
APK 150-05	13 Axis		100

TT SASH TILT STRIKER



CODE	mm	AKOR	100
APK 150-06	13 Axis		100

TT SASH TILT STRIKER (ZINC)



CODE	mm	AKOR	100
APK 150-07	13 Axis		100
APK 150-11	9 Axis		100

ALM. EURO CLAW PIVOT STRIKER



CODE	mm	AKOR	100
KOB 230-01	9 Axis		100
KOB 230-02	13 Axis		100

PLASTIC SASH PRESS HINGE



CODE	mm	AKOR	100
APK 150-08	13 Axis		100

DOUBLE CLAW SECURITY STRIKER



CODE	mm	AKOR	500
LKK 200-03			500

Yaprak Karşılık



CODE	mm	AKOR	100
HKE 260-01			100

FAULT USAGE & SASH LIFT LOCK



CODE	mm	AKOR	100
HKE 260-02	9 Axis		100
HKE 260-03	13 Axis		100

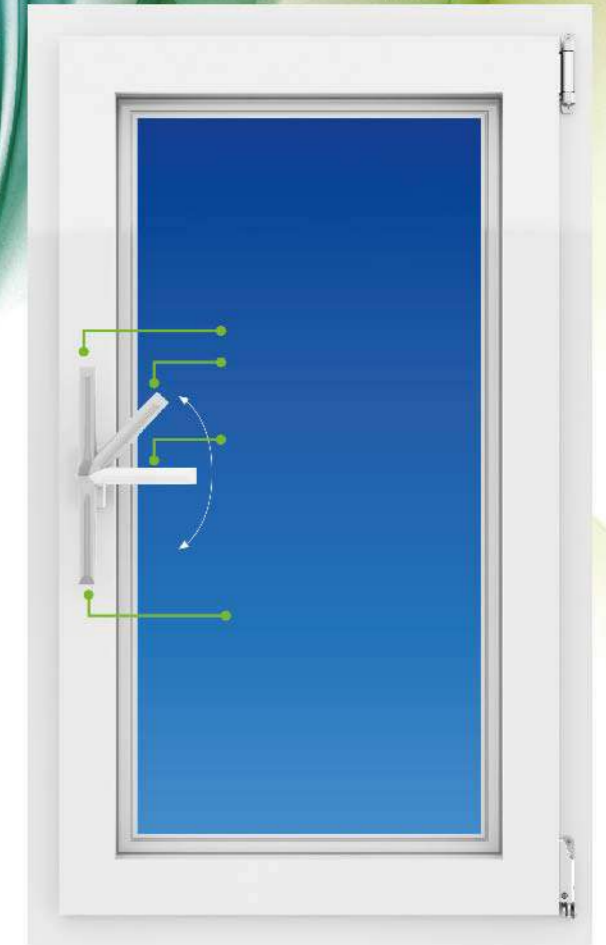
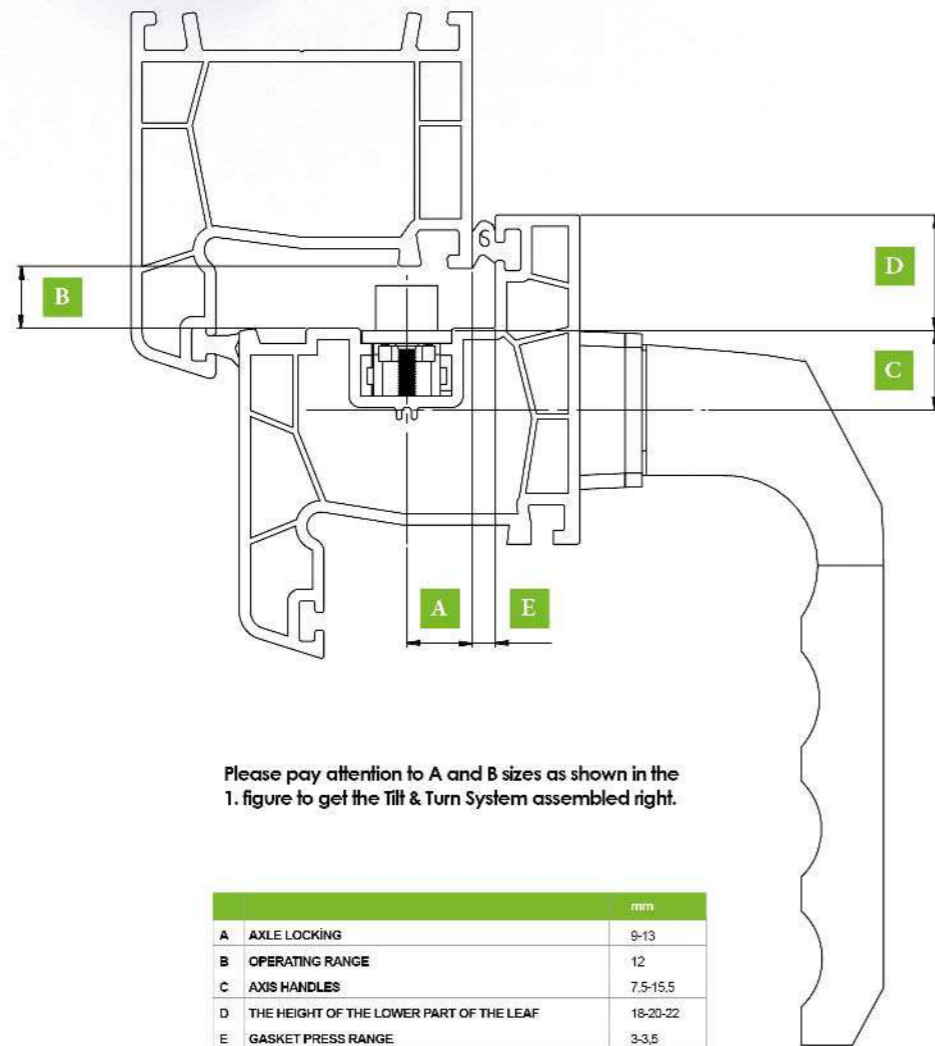
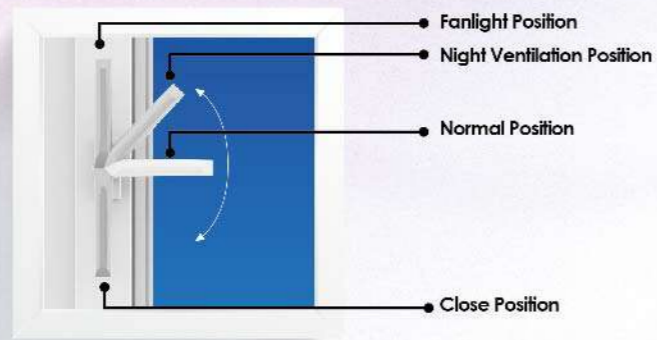
FAULT USAGE & SASH LIFT LOCK STRIKER



CODE	mm	AKOR	100
ZK039	13 Axis		100

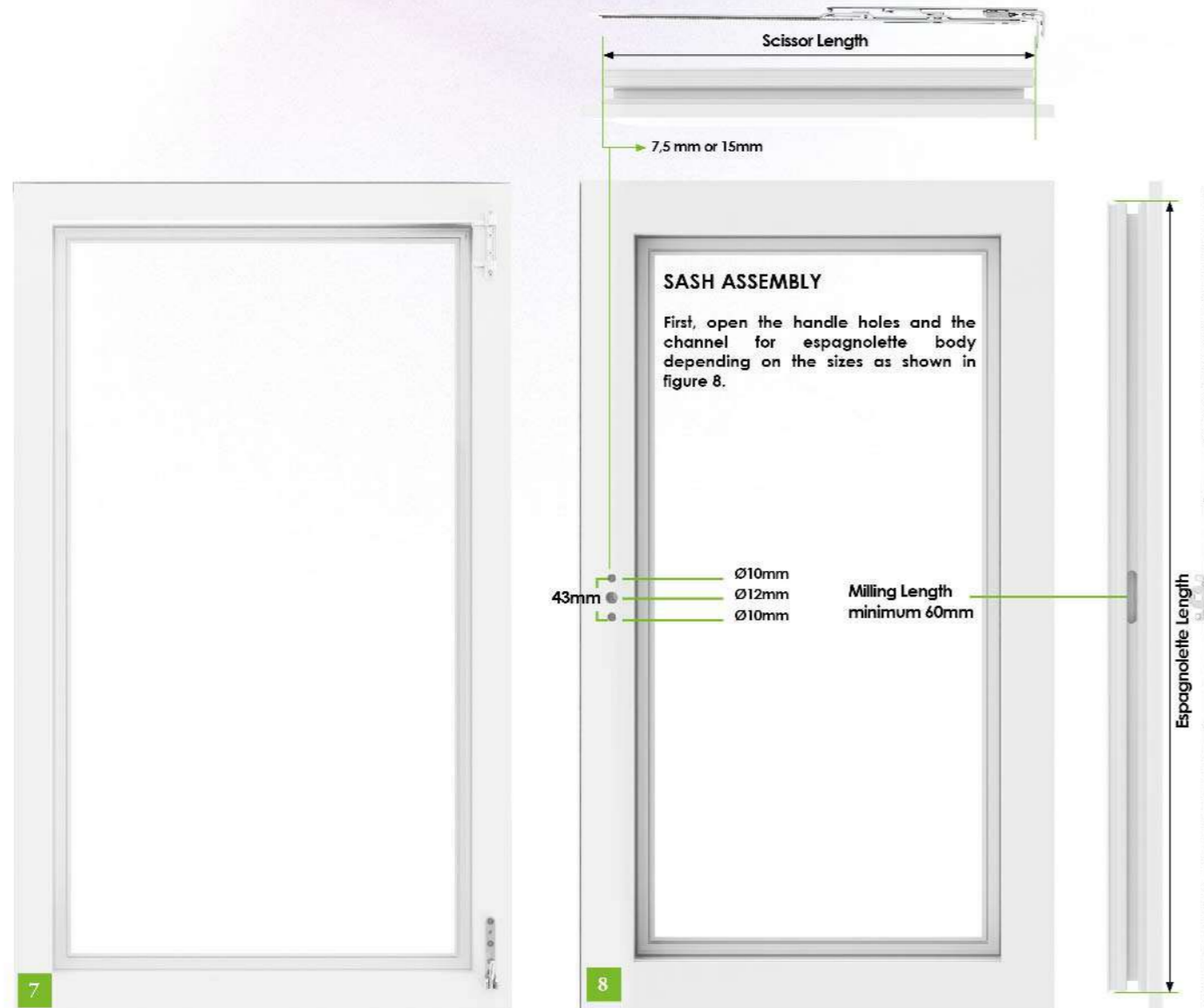
SECURITY LOCK STRIKER

TILT & TURN SYSTEM ASSEMBLY SCHEME



FRAME BOTTOM AND TOP HINGE ASSEMBLY

Frame, as shown in the picture with the help of a template (guide) have to be drilled with the Ø 2,8 drill bit. Than frame bottom and top hinges have to be located as shown in Picture 1,2,3,4,5,6,7.



7

8



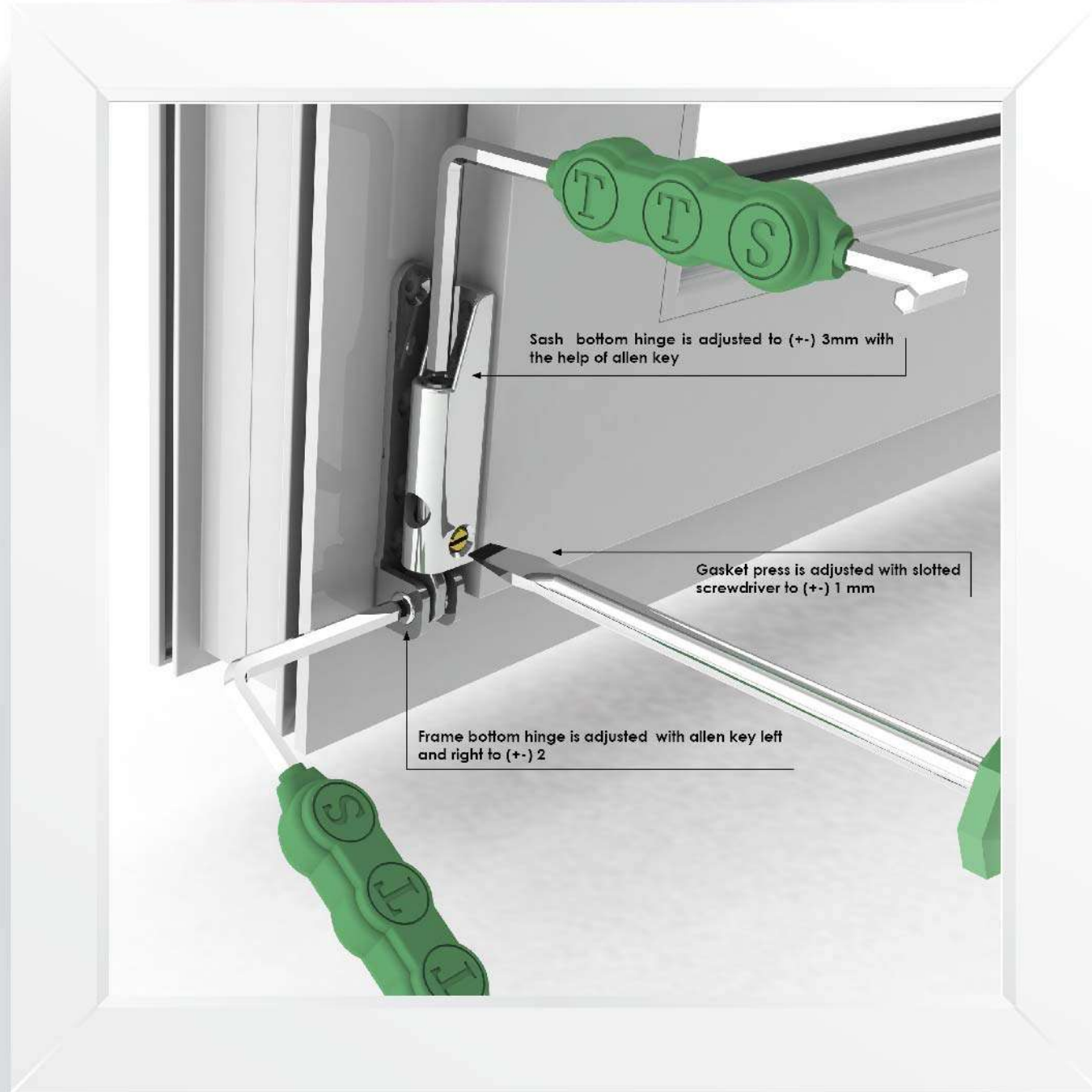
The assembly proceed by stages as shown in Picture 10 and 11.

**TILT & TURN ESPAGNOLETTE ASSEMBLY**

First, as shown in Picture 12, the espagnolette locking pin have to be installed and measured to the corner part side by the help of the handle, and then cut the espagnolette.

Control the espagnolette ends, so they should be properly fixed to corner part and to espagnolette bottom part and installed as shown in Picture 13 and 14.

Caps over the espagnolette bottom part and the corner part should be screwed over the espagnolette bar as shown in Picture 15 and 16.



# EXCLUSIVE COLORS

