

PRODUCT CATALOGUE

Designed to move the world



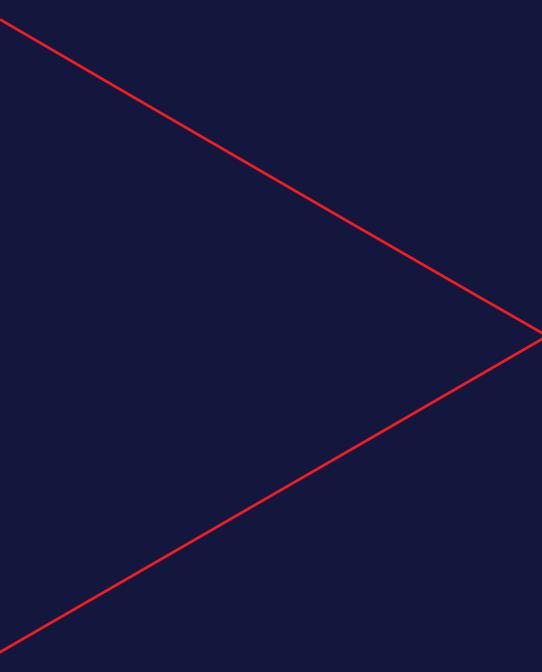
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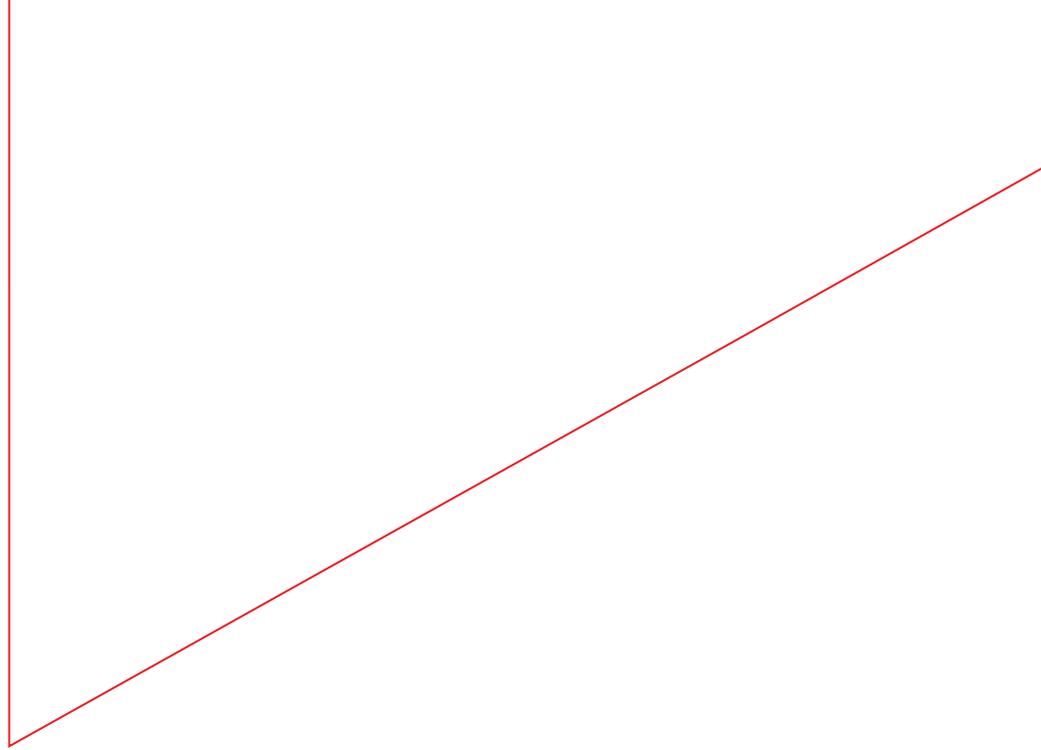
DISCLAIMER

The images in this catalogue are intended to promote the product and by its constant development may not reflect the actual way a product is being delivered or packaged. Thereby, they do not constitute any legal obligation.





“LET’S OPEN THE
WINDOWS OF
PARTNERSHIP
WHERE
PRECISION,
PROGRESS AND
PURPOSE COME
TOGETHER.”



Integrity shapes ideas.
**Collaboration drives engineers
growth.**

No breakthrough was ever built alone.

Every advancement, every achievement
is the outcome of collaboration - of
listening as much as inventing.

At Kelegent, we don't just engineer
products.

We engineer partnerships that endure,
ideas that adapt and systems that bring
precision and people closer.

The **Pillars** of Our Persistence

01

Integrity in every interaction:

We build long-term partnerships grounded in transparency and fairness.

02

Innovating with purpose:

From patents to new materials, design is born from insight, refined by innovation and perfected through testing.

Customer-centric thinking:

Every product, every process begins with understanding the user's real-world needs.

03

Commitment to quality:

By adhering to international standards like BS-EN and we ensure consistency and reliability.

04

05

Inclusivity in design:

We integrate diverse perspectives to ensure our products and processes are accessible, equitable and relevant to our clients.

06

Sustainability in action:

From solar-powered infrastructure to green building norms, we engineer responsibly.



The **Legacy** of Further Together

What began in 1984 as a stainless steel kitchenware company has evolved into one of India's most trusted names in architectural hardware.

Decade by decade, milestone by milestone, Kelegent has shaped a legacy rooted in craftsmanship, innovation and collaboration. Every product, every detail, every partnership; crafted with purpose, powered by people, perfected through precision. From friction hinges to complete system solutions, we engineer reliability; with conscience, clarity and care.

41+

Years of Industry Expertise

92,000+

Sq.Ft. Green-Compliant
Manufacturing Facility

500+

Clients Across 25+ Countries

300+

Skilled Professionals

1,000+

Engineered Hardware Solutions

200+

Standardized Products

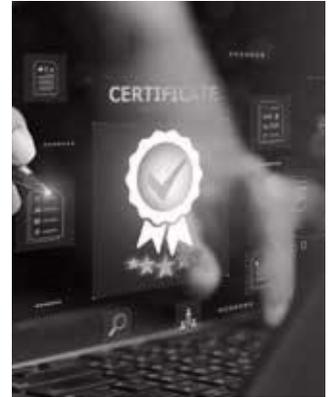
99%

Design-to-Delivery Success Rate

The Story of **Progress**, Etched in Milestones.

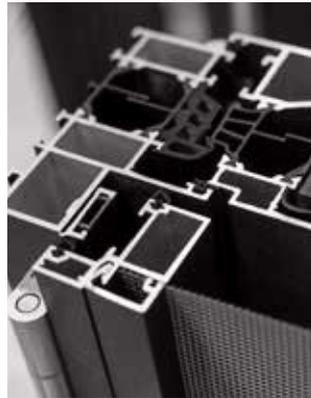
2015

Achieved international certifications.



1998

Introduced aluminium architectural hardware & began exports.



1984

Founded as Shree Mahavir Metal Industries by Mr. Suresh & Mr. Vinod Oswal.



2004

Iconic Dubai Airport Terminal 3 project.





2025

- Top 100 MSME India Award
- New 92,000+ sq.ft. plant inaugurated.



2019

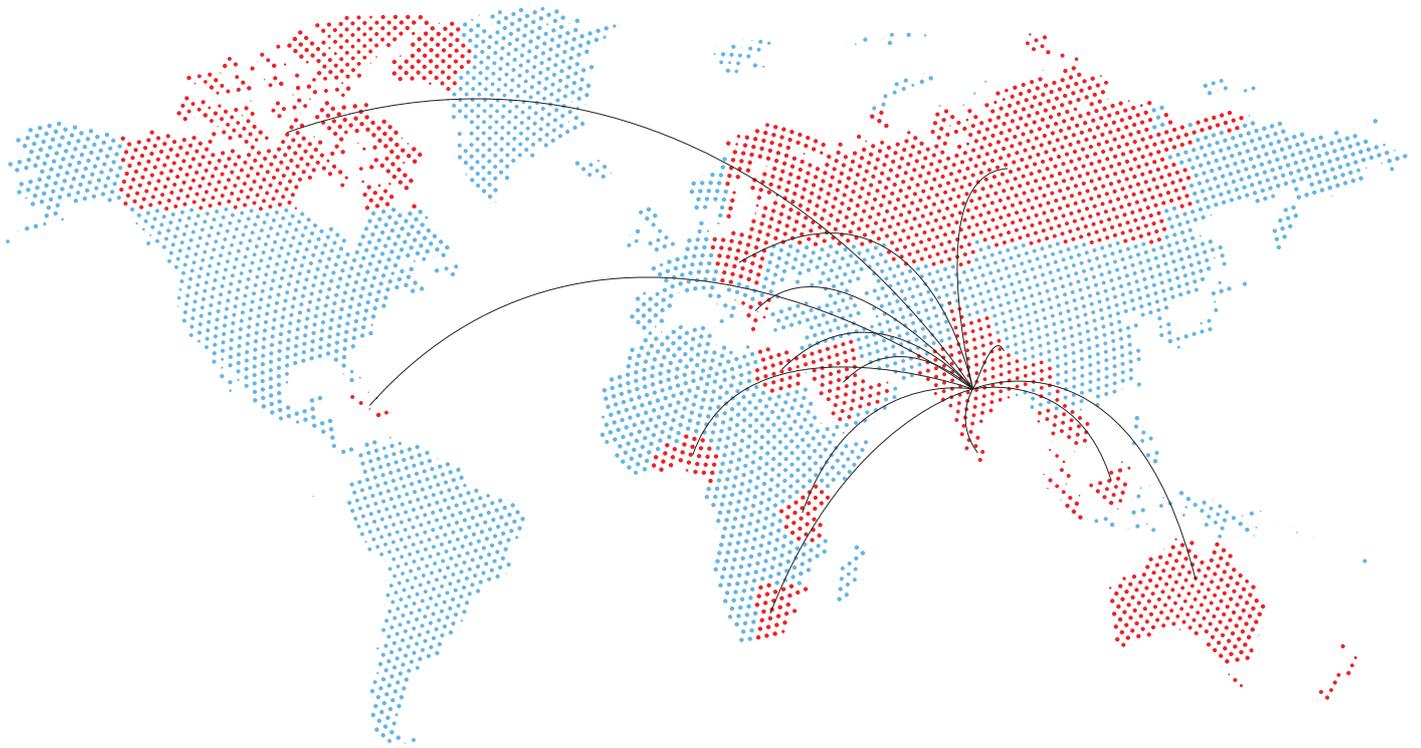
Advanced plant upgrades.



2020-21

Patent filings & Star Export Performer awards.

The **Global** Presence of Our Work



Core Specializations

01



> **FRICITION STAYS & ALLIED HARDWARE**
BALANCE, ENGINEERED TO PERFECTION.

Designed to maintain alignment, durability and control across varied load and size conditions.

02



> **SLIDING ROLLER ASSEMBLIES**
SMOOTH TRANSITIONS. SILENT STRENGTH.

Crafted for effortless operation and enduring stability our rollers define precision in motion.

03



> **LOCKING SOLUTIONS & ACCESSORIES**
SECURITY MEETS SOPHISTICATION.

Our locking systems combine robust engineering with ergonomic design to ensure strength and safety.

04



> **CUSTOMIZED HARDWARE SOLUTIONS -**
TAILORED TO YOUR VISION.

For us, customization isn't a service, it's a mindset. From concept to completion, we collaborate to design, prototype and deliver solutions specific to each client's needs.

Key Services



End-to-End Product Engineering

From concept and 3D modelling to tooling and testing, we manage the complete product lifecycle under one roof.



Design Consultation & Co-Development

Collaborating with OEMs, architects, and system houses to create bespoke solutions that meet precise performance parameters.



Testing & Validation Support

Our in-house testing labs ensure every component meets international benchmarks before delivery.



Rapid Tooling & Prototyping

Lean development timelines, faster market readiness and zero compromise on quality.



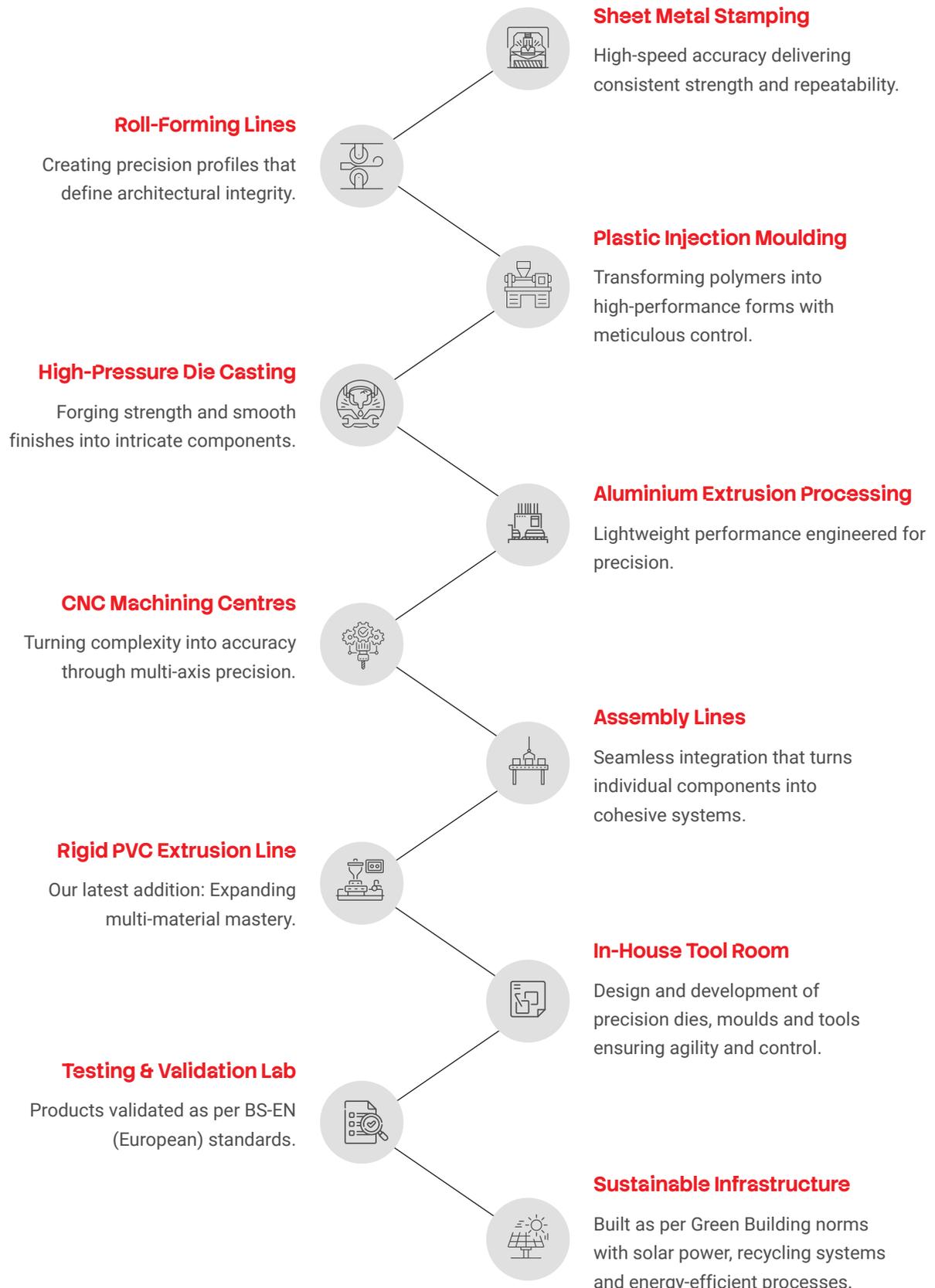
After-Sales Support

Beyond delivery, we assist with product guidance, technical queries and long-term service support.

The Home Of Engineered Excellence

Kelegent's infrastructure reflects its philosophy – built to collaborate & designed to innovate. With an expansive land parcel and a well-planned production ecosystem, our manufacturing environment integrates technology, teamwork and trust to deliver precision at scale.

Our World-Class Infrastructure Facilities consist of:



Innovation Is Our Constant



2 Product Patents +
3 Registered
Designs



Record 100+ new
tools developed in
2024-25 alone



100% success rate
in product
development



ISO 9001:2015
Certified Quality
Management System



Products validated
under BS-EN
standards



International
standards Salt Spray
Test Compatibility

Sustainability In Action:



Solar Power Infrastructure

Green Building
Compliant Facility



**Awards
&
Achievements:**

Top 100 MSME Award
(India, 2025)

Star Export Performer
(2019-20 | 2021-22 | 2022-23)



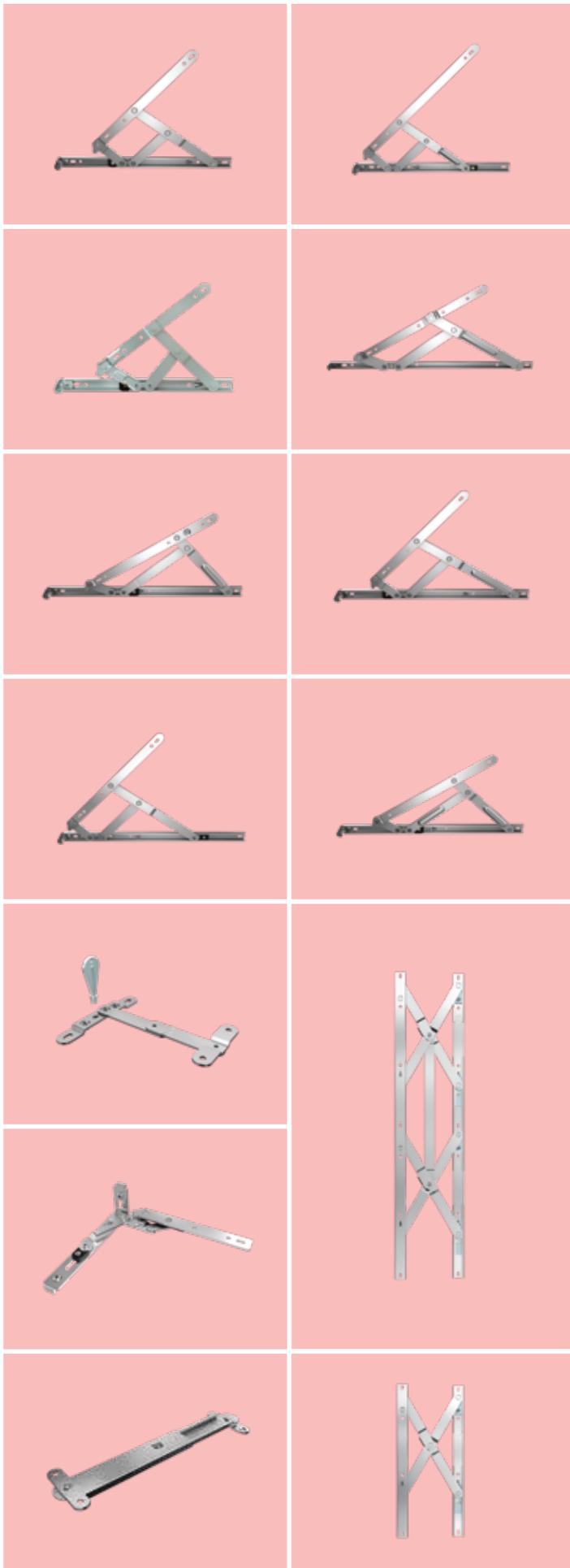


EVERYTIME YOU SEE A PRODUCT
WITH OUR SYMBOL, BE REST
ASSURED THAT THIS PRODUCT WILL
NOT LET YOU DOWN.



Friction Stays & Allied Hardware

The most in-demand product in our stable with an offering for all types of window applications.



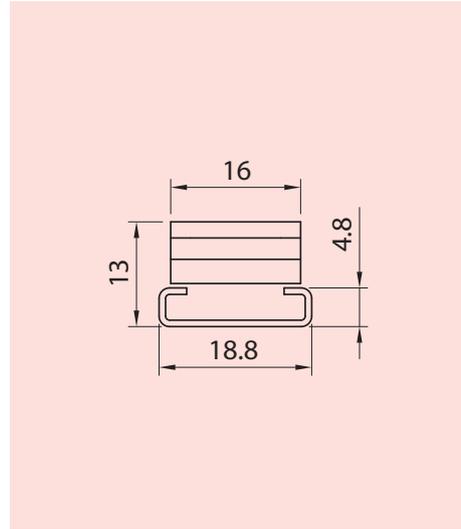
Key Features

- Light Duty & Heavy duty models offered in Easy Clean and Egress designs
- Offering for Casement (Side hung) and Projected (Top hung) opening applications
- Offering for conventional (non-eurogroove) and eurogroove enabled systems
- Specially designed models for projected openings in curtain wall & glazing applications
- Parallel opening stays available in aligned stack models
- Conforms to International Endurance Test standards
- Wide variety of Restrictor arm models also available

Friction Stays & Allied Hardware >> Friction Stays

KFS-LD-SP I Light Duty Friction Stay (Easy clean)

Application: Side Hung & Top Hung



TECHNICAL DATA

Stack Height (mm): 13.0

Size (In) for Side Hung: 8, 10, 12, 16

Size (In) for Top Hung: 16, 20, 24

Link Bar Thickness (mm): 2.0

MATERIAL SPECIFICATION

Stainless Steel Grade: 304

Slider: Polyamide

LOAD RATING DETAILS

#	Product Code	Size	Side Hung (Vent Width)		Top Hung (Vent Height)		Max Vent weight (Kgs)	Opening Angle
			Length (mm)	Min (mm)	Max (mm)	Min (mm)		
1	KFS-LD-SP-8_80D	215	250	400	N/A	N/A	10	80°
2	KFS-LD-SP-10_90D	249	401	500	N/A	N/A	14	90°
3	KFS-LD-SP-12_90D	299	501	600	N/A	N/A	18	90°
4	KFS-LD-SP-16_90D	403	601	800	N/A	N/A	22	90°
5	KFS-LD-SP-10_45D	249	N/A	N/A	300	500	20	45°
6	KFS-LD-SP-12_45D	299	N/A	N/A	350	600	25	45°
7	KFS-LD-SP-16_30D	403	N/A	N/A	450	1000	30	30°
8	KFS-LD-SP-20_30D	505	N/A	N/A	1001	1250	35	30°
9	KFS-LD-SP-24_30D	617	N/A	N/A	1251	1500	40	30°

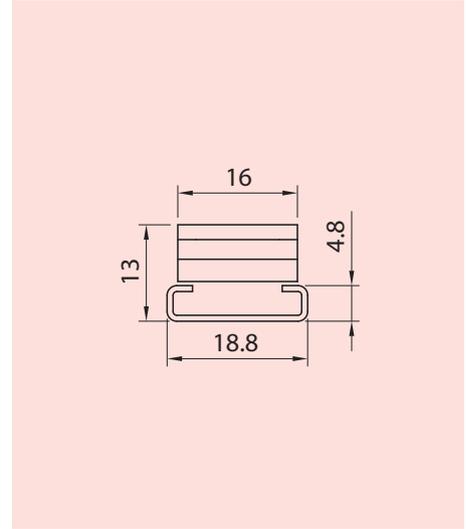
Note: Load capacity is subjected to shutter size

Packaging: 25 pairs/box

Friction Stays & Allied Hardware >> Friction Stays

KFS-LD-SP-EO I Light Duty Friction Stay (Egress)

Application: Side Hung



TECHNICAL DATA

Stack Height (mm): 13.0

Size (In) for Side Hung: 12, 16

Link Bar Thickness (mm): 2.0

MATERIAL SPECIFICATION

Stainless Steel Grade: 304

Slider: Polyamide

LOAD RATING DETAILS

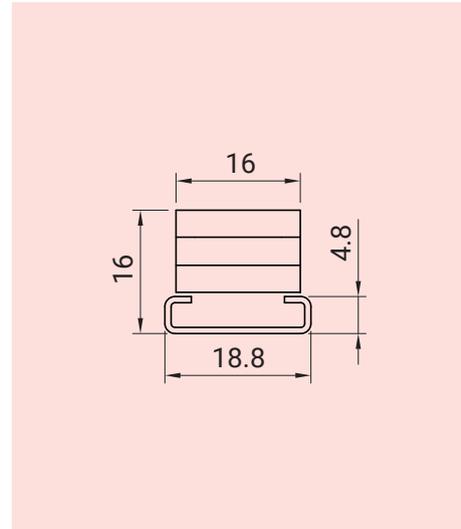
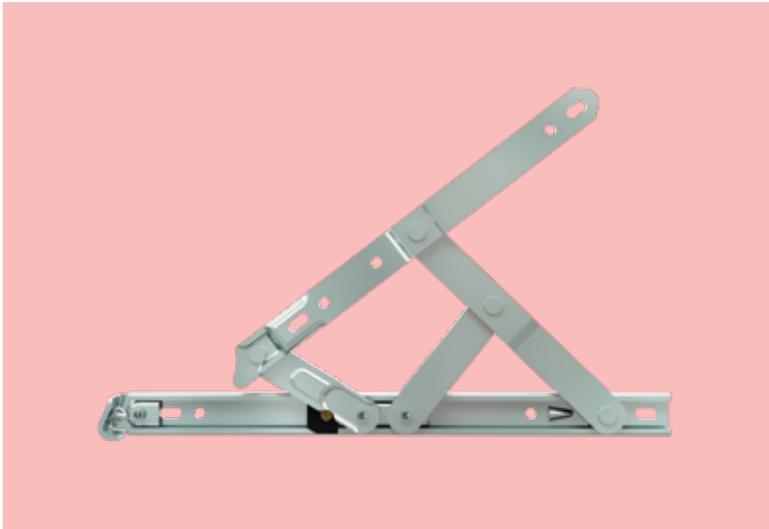
#	Product Code	Size	Side Hung (Vent Width)		Max Vent weight (Kgs)	Opening Angle
			Length (mm)	Min (mm)		
1	KFS-LD-SP-EO-12_90D	304	350	600	18	90°
2	KFS-LD-SP-EO-16_90D	401	601	800	22	90°

Packaging: 25 pairs/box

Friction Stays & Allied Hardware >> Friction Stays

KFS-EHD-SP I Medium Duty Friction Stay (Easy Clean)

Application: Side Hung & Top Hung



TECHNICAL DATA

Stack Height (mm): 16.0

Size (In) for Side Hung: 10, 12,16

Size (In) for Top Hung: 10, 12,16, 20, 24

Link Bar Thickness (mm): 2.5

MATERIAL SPECIFICATION

Stainless Steel Grade: 304

Slider: Polyamide

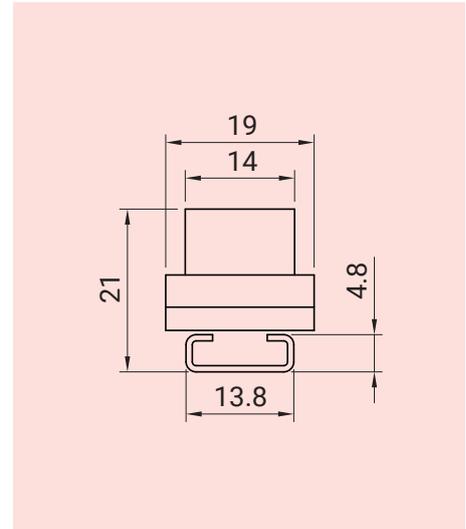
#	Product Code	Size	Side Hung (Vent Width)		Top Hung (Vent Height)		Max Vent weight (Kgs)	Opening Angle
			Length (mm)	Min (mm)	Max (mm)	Min (mm)		
1	KFS-EHD-SP-10_90D	249	300	500	N/A	N/A	20	90°
2	KFS-EHD-SP-12_90D	299	501	600	N/A	N/A	25	90°
3	KFS-EHD-SP-16_90D	398	601	800	N/A	N/A	35	90°
4	KFS-EHD-SP-10_45D	249	N/A	N/A	300	600	25	45°
5	KFS-EHD-SP-12_45D	299	N/A	N/A	601	750	30	45°
6	KFS-EHD-SP-16_30D	398	N/A	N/A	751	1000	40	30°
7	KFS-EHD-SP-20_30D	505	N/A	N/A	1001	1250	50	30°
8	KFS-EHD-SP-24_30D	616	N/A	N/A	1251	1500	60	30°

Packaging: 25 pairs/box

Friction Stays & Allied Hardware >> Friction Stays

KFS-EHD-US I Medium Duty Friction Stay (Easy clean)

Application: Side Hung & Top Hung



TECHNICAL DATA

Stack Height (mm): 21.0

Size (In) for Side Hung: 10, 12, 16

Size (In) for Top Hung: 10, 12, 16, 20, 24

Link Bar Thickness (mm): 2.5

MATERIAL SPECIFICATION

Stainless Steel Grade: 304

Slider: Polyamide

LOAD RATING DETAILS

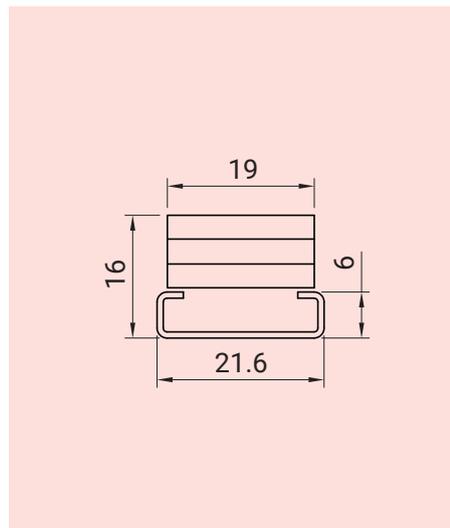
#	Product Code	Size Length (mm)	Side Hung (Vent Width)		Top Hung (Vent Height)		Max Vent weight (Kgs)	Opening Angle
			Min (mm)	Max (mm)	Min (mm)	Max (mm)		
1	KFS-EHD-US-10_90D	242	300	500	N/A	N/A	16	90°
2	KFS-EHD-US-12_90D	292	501	600	N/A	N/A	20	90°
3	KFS-EHD-US-16_90D	391	601	800	N/A	N/A	24	90°
4	KFS-EHD-US-10_45D	242	N/A	N/A	300	600	30	45°
5	KFS-EHD-US-12_45D	292	N/A	N/A	601	750	35	45°
6	KFS-EHD-US-16_30D	391	N/A	N/A	751	1000	40	30°
7	KFS-EHD-US-20_30D	494	N/A	N/A	1001	1250	45	30°
8	KFS-EHD-US-24_30D	609	N/A	N/A	1251	1500	50	30°

Packaging: 20 pairs/box

Friction Stays & Allied Hardware >> Friction Stays

KFS-HD-RV I Heavy Duty Friction Stay (Vent Groove Mounted)

Application: Aluminium Type-1 Eurogroove (Side Hung & Top Hung)



TECHNICAL DATA

Stack Height (mm): 16.0

Size (In) for Side Hung: 12, 16

Size (In) for Top Hung: 12, 16, 20, 24

MATERIAL SPECIFICATION

Stainless Steel Grade: 304

Slider: Polyamide

LOAD RATING DETAILS

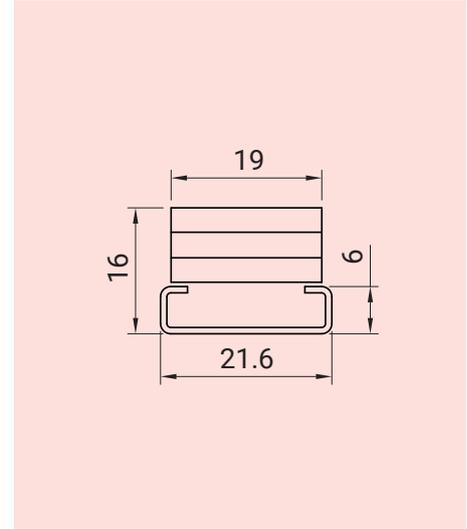
#	Product Code	Size	Side Hung (Vent Width)		Top Hung (Vent Height)		Max Vent weight (Kgs)	Opening Angle
			Length (mm)	Min (mm)	Max (mm)	Min (mm)		
1	KFS-HD-RV-12_85D	313	501	600	N/A	N/A	28	85°
2	KFS-HD-RV-16_87D	417	601	800	N/A	N/A	32	87°
3	KFS-HD-RV-12_45D	313	N/A	N/A	601	750	38	45°
4	KFS-HD-RV-16_30D	417	N/A	N/A	751	1000	44	30°
5	KFS-HD-RV-20_30D	518	N/A	N/A	1001	1250	56	30°
6	KFS-HD-RV-24_30D	618	N/A	N/A	1251	1500	64	30°

Packaging: 20 pairs/box

Friction Stays & Allied Hardware >> Friction Stays

KFS-HD-NL I Heavy Duty Friction Stay (Easy Clean)

Application: Side Hung



TECHNICAL DATA

Stack Height (mm): 16.0

Size (In) for Side Hung: 10, 12, 14, 16

Link Bar Thickness (mm): 2.5

MATERIAL SPECIFICATION

Stainless Steel Grade: 304

Slider: Polyamide

LOAD RATING DETAILS

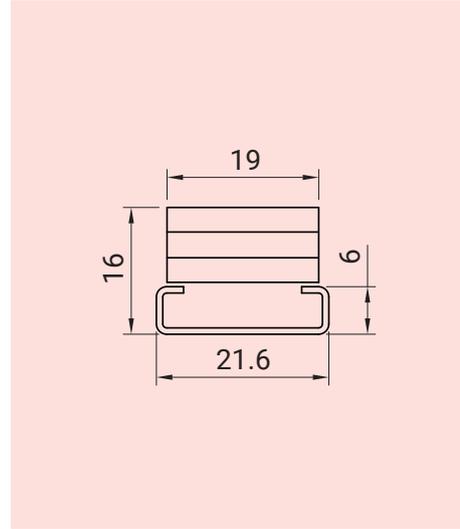
#	Product Code	Size	Side Hung (Vent Width)		Max Vent weight (Kgs)	Opening Angle
		Length (mm)	Min (mm)	Max (mm)		
1	KFS-HD-NL-10_87D	263	300	500	30	87°
2	KFS-HD-NL-12_87D	313	501	600	33	87°
3	KFS-HD-NL-16_87D	417	701	800	40	87°

Packaging: 20 pairs/box

Friction Stays & Allied Hardware >> Friction Stays

KFS-HD-NL-EO I Heavy Duty Friction Stay (Egress)

Application: Side Hung



TECHNICAL DATA

Stack Height (mm): 16.0

Size (In) for Side Hung: 10, 12, 16

Link Bar Thickness (mm): 2.5

MATERIAL SPECIFICATION

Stainless Steel Grade: 304

Slider: Polyamide

LOAD RATING DETAILS

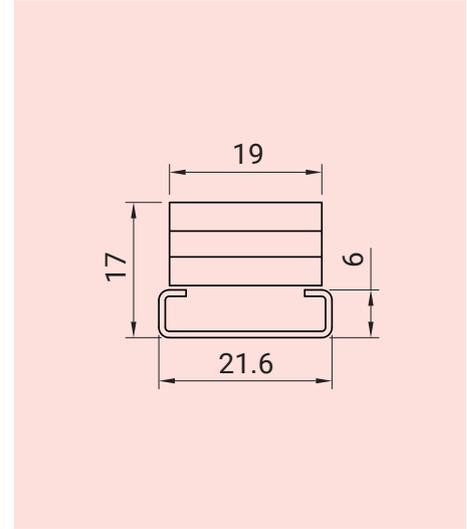
#	Product Code	Size	Side Hung (Vent Height)		Max Vent weight (Kgs)	Opening Angle
			Length (mm)	Min (mm)		
1	KFS-HD-NL-EO-10_83D	262	300	500	30	83°
2	KFS-HD-NL-EO-12_87D	321	501	600	35	87°
3	KFS-HD-NL-EO-16_87D	420	601	800	40	87°

Packaging: 20 pairs/box

Friction Stays & Allied Hardware >> Friction Stays

KFS-HD-SP I Heavy Duty Friction Stay (Easy Clean)

Application: Top Hung



TECHNICAL DATA

Stack Height (mm): 17.0

Size (In) for Top Hung: 16, 20, 24, 30

Link Bar Thickness (mm): 3.0

MATERIAL SPECIFICATION

Stainless Steel Grade: 304

Slider: Polyamide

LOAD RATING DETAILS

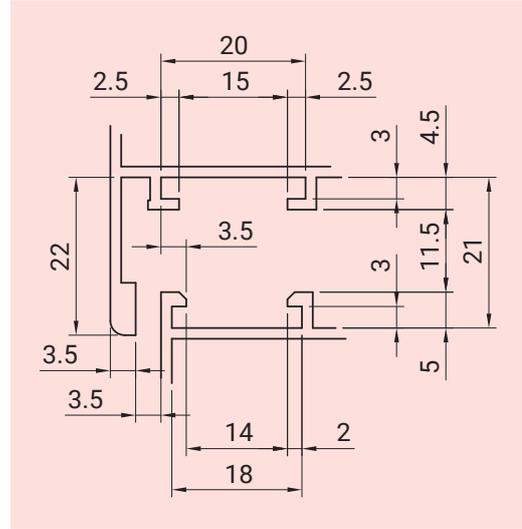
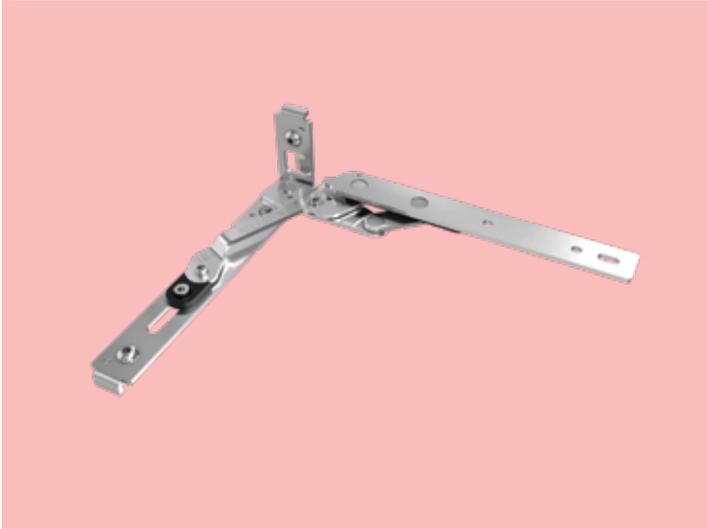
#	Product Code	Size Length (mm)	Top Hung (Vent Height)		Max Vent weight (Kgs)	Opening Angle
			Min (mm)	Max (mm)		
1	KFS-HD-SP-16_30D	417	450	1000	85	30°
2	KFS-HD-SP-20_30D	517	1001	1400	110	30°
3	KFS-HD-SP-24_20D	617	1251	1700	120	20°
4	KFS-HD-SP-30_20D	772	1501	2200	150	20°

Packaging: 25 pairs/box

Friction Stays & Allied Hardware >> Concealed Hinges

Concealed Hinge

APPLICATION DETAIL
TYPE-1 EUROGROOVE



Light Duty

Item code: KFS-CH-LD-01

Material Grade: SS 304

Max. Vent Weight: 70 Kg

Max. Vent Width*: 1000 mm

Max. Vent Height*: 2000 mm

Opening Angle: 90°

*Rebbet-to-Rebbet

Heavy Duty

Item code: KFS-CH-HD-01

Material Grade: SS 304

Max. Vent Weight: 100 Kg

Max. Vent Width*: 1000 mm

Max. Vent Height*: 2000 mm

Opening Angle: 90°

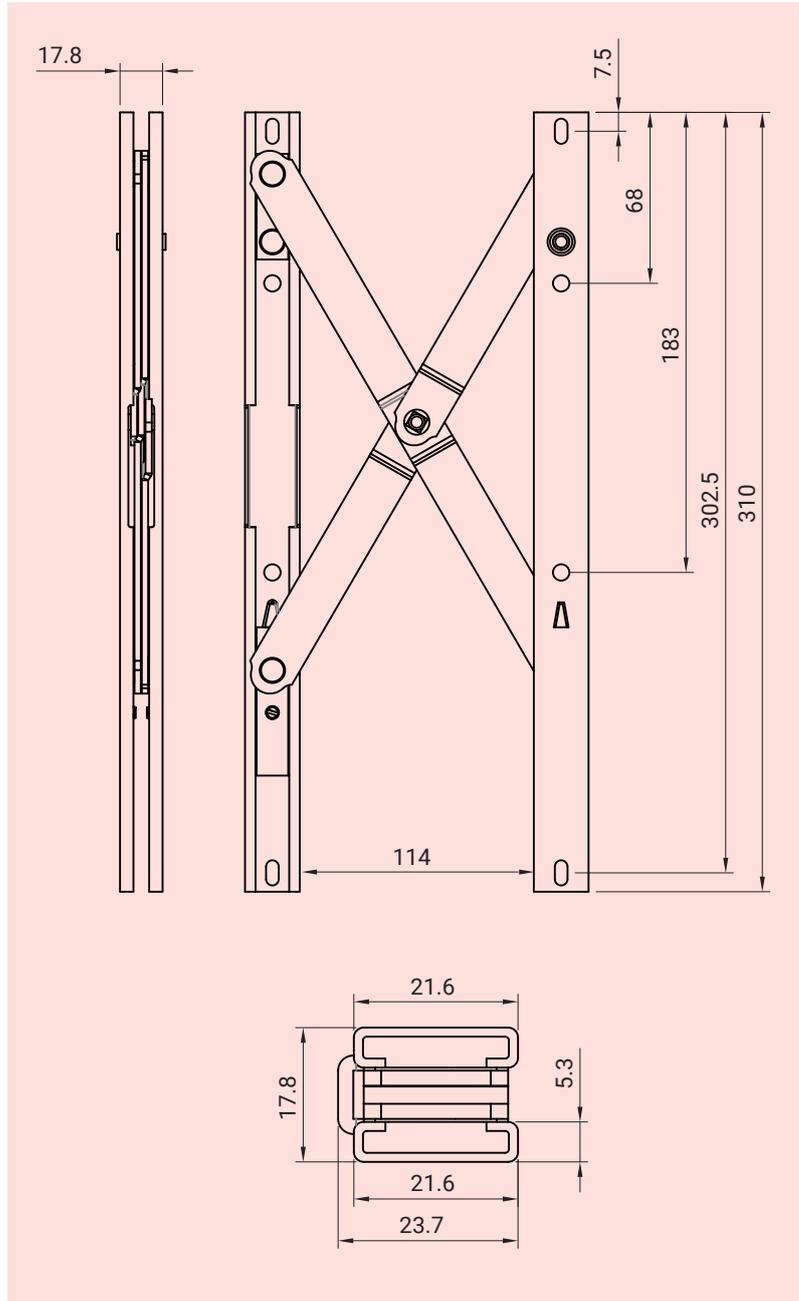
*Rebbet-to-Rebbet

Packaging: 25 pairs/box

Friction Stays & Allied Hardware >> Parallel Opening Stays

KFS-PH-CP I Aligned Parallel Hinge (Single Cross)

Application: Parallel Opening



TECHNICAL DATA

Size (In): 12

MATERIAL SPECIFICATION

Stainless Steel Grade: 304

Slider: Polyamide

LOAD RATING DETAILS

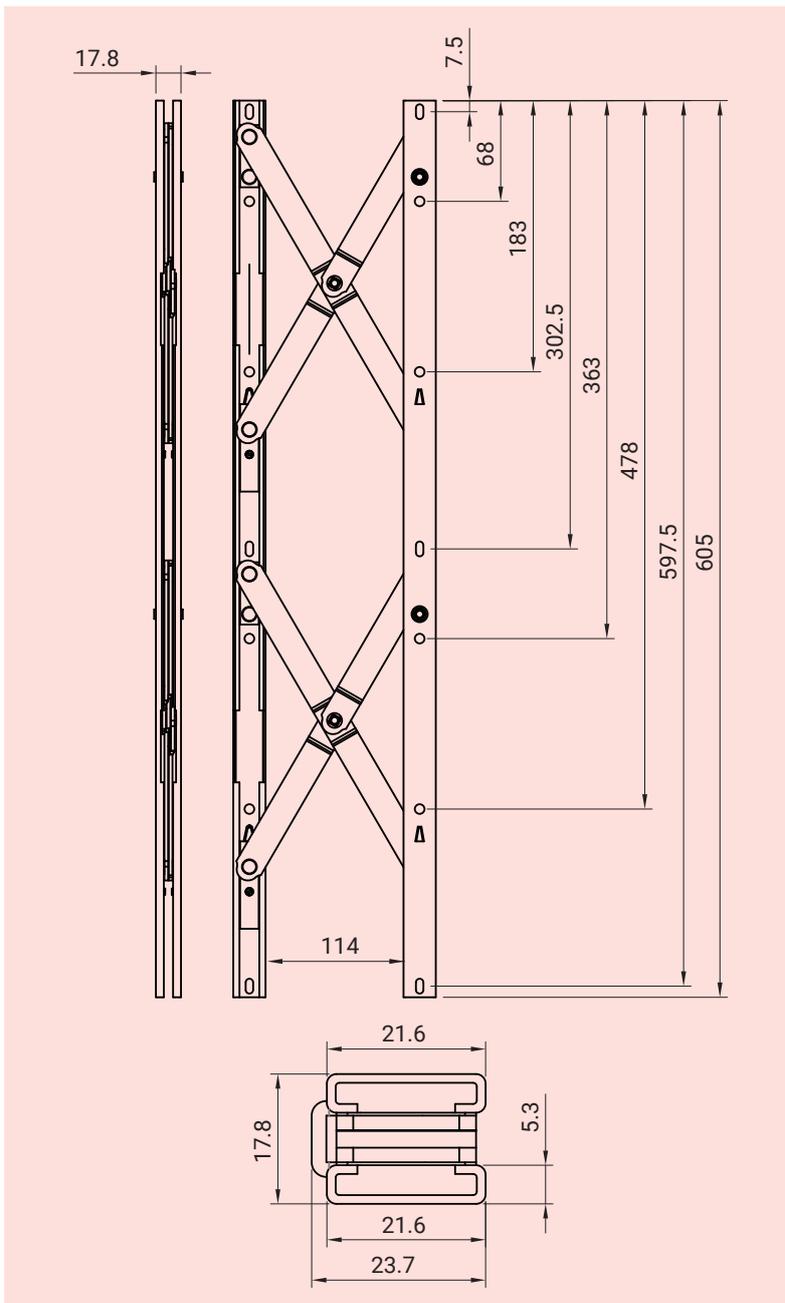
#	Product Code	Stroke Dist.	Max. Vent weight (Kgs)	Vent Size	
				Min (mm)	Max (mm)
1	KFS-PH-CP-12	114	27	400	800

Packaging: 10 pairs/box

Friction Stays & Allied Hardware >> Parallel Opening Stays

KFS-PH-CP I Aligned Parallel Hinge (Double Cross)

Application: Parallel Opening



TECHNICAL DATA

Size (In): 24

MATERIAL SPECIFICATION

Stainless Steel Grade: 304

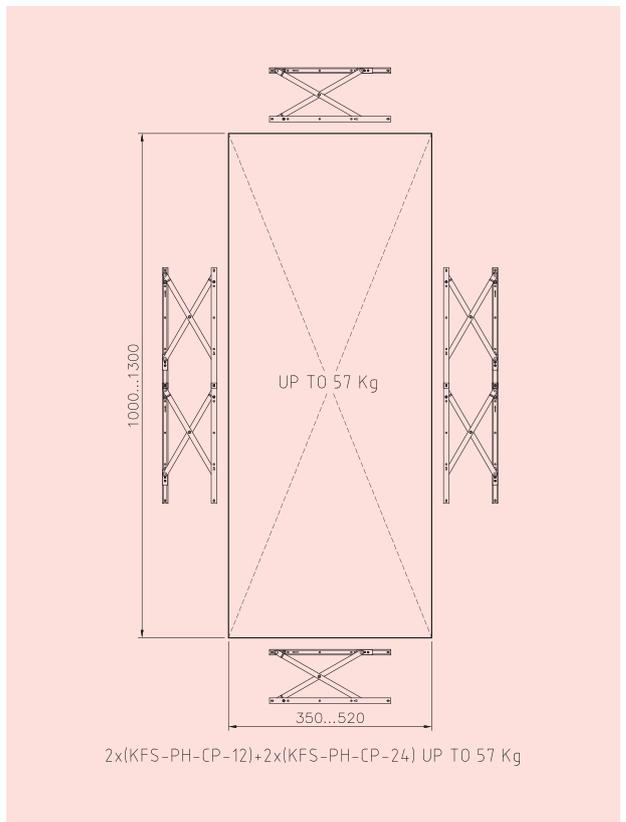
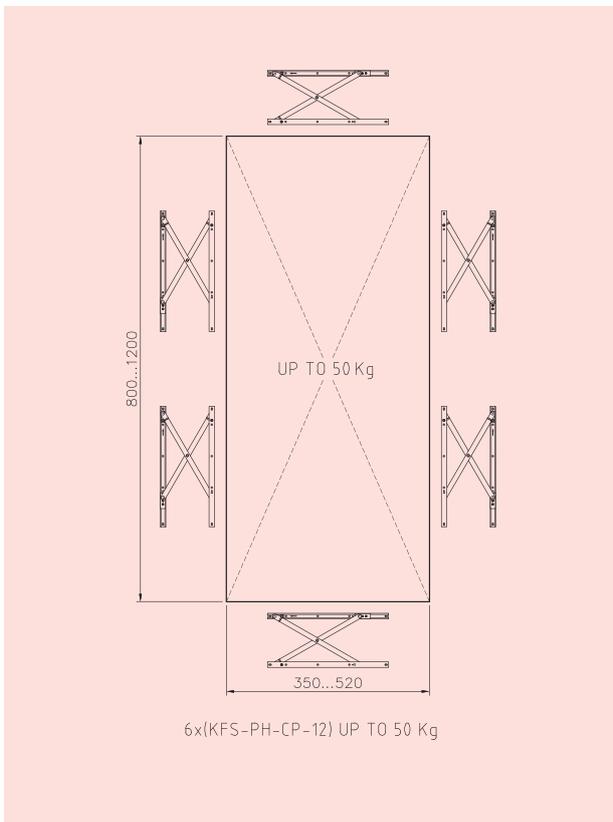
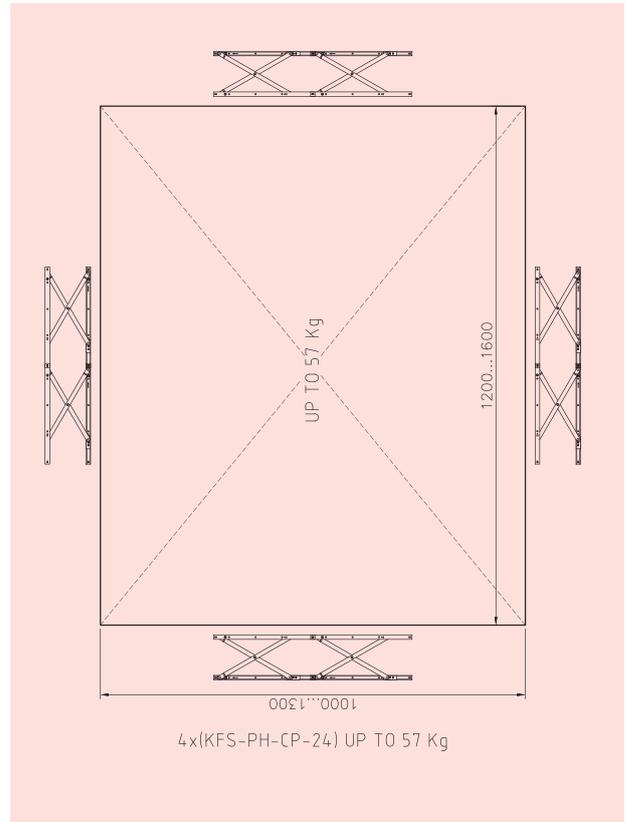
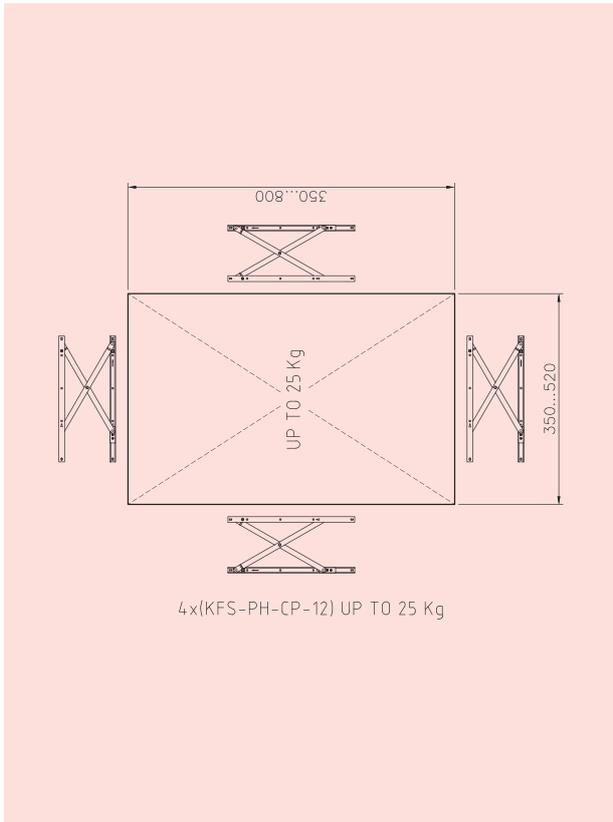
Slider: Polyamide

LOAD RATING DETAILS

#	Product Code	Stroke Dist.	Max. Vent weight (Kgs)	Vent Size	
				Min (mm)	Max (mm)
1	KFS-PH-CP-24(SS-304)	114	57	800	1600

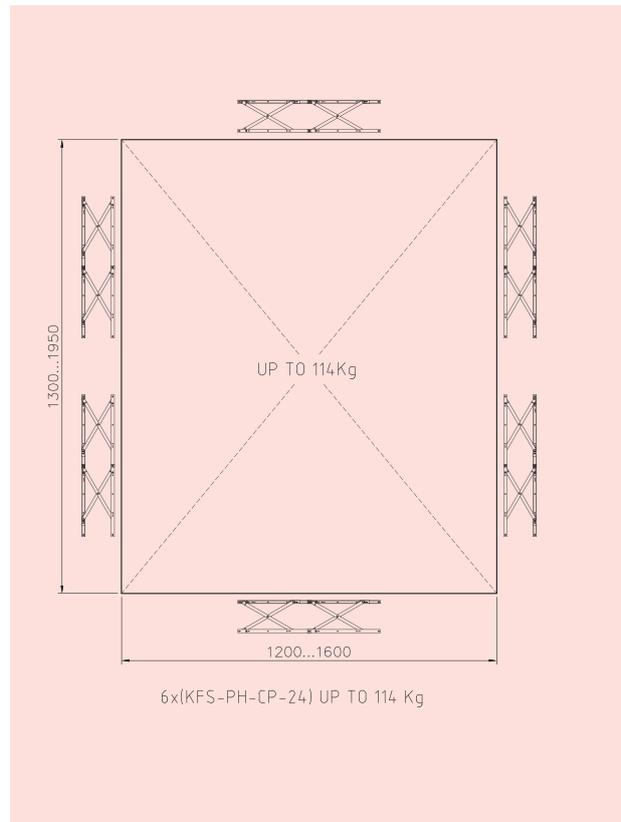
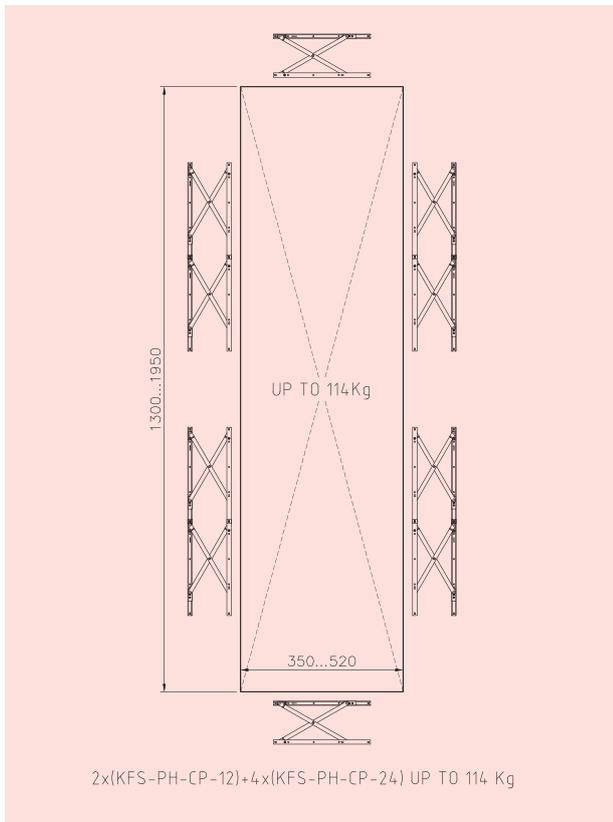
Packaging: 10 pairs/box

Technical Application



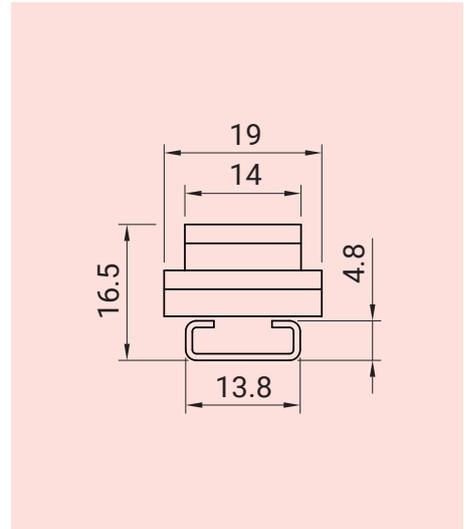
Friction Stays & Allied Hardware >> Parallel Opening Stays

Technical Application



Friction Stays & Allied Hardware >> Restrictor Arm Stays

KFA-ELD I Eurogroove Slim Line Series Light Duty Restrictor Arm



TECHNICAL DATA

Size (In): 10, 12, 16

Link Bar Thickness (mm): 2.0

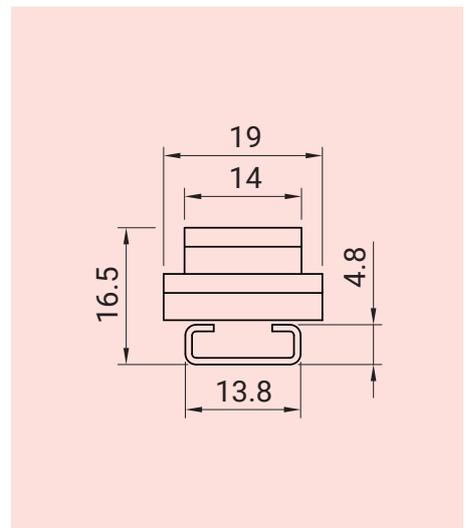
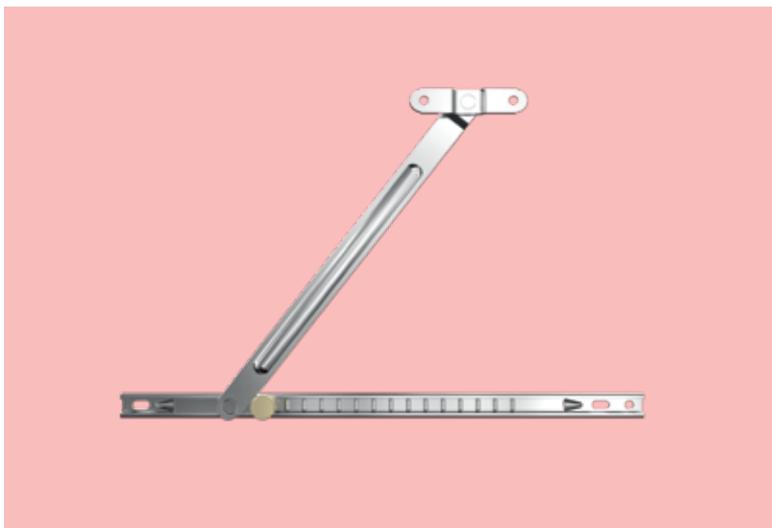
Packaging: 25 pairs/box

MATERIAL SPECIFICATION

Stainless Steel Grade: 304

Slider: Polyamide

KFA-ELD-SR I Eurogroove Slim Line Series Light Duty Restrictor Arm (With Knob Stopper)



TECHNICAL DATA

Size (In): 10, 12, 16

Link Bar Thickness (mm): 2.0

Packaging: 25 pairs/box

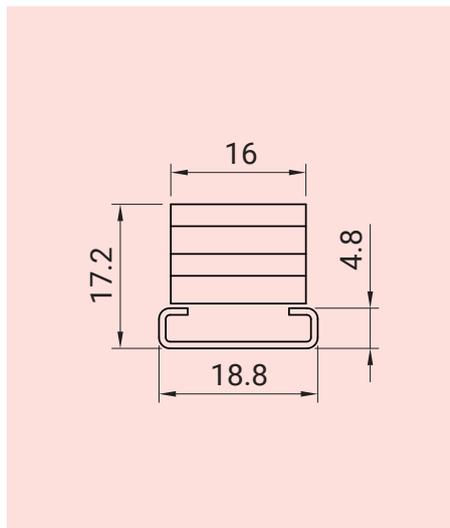
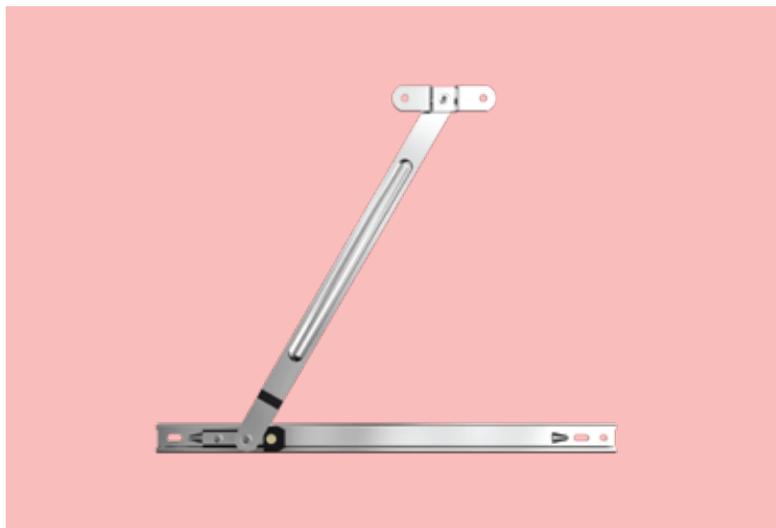
MATERIAL SPECIFICATION

Stainless Steel Grade: 304

Slider: Polyamide

Friction Stays & Allied Hardware >> Restrictor Arm Stays

KFA-LD I Light Duty Restrictor Arm



TECHNICAL DATA

Size (In): 8, 10, 12, 16

Link Bar Thickness (mm): 2.0

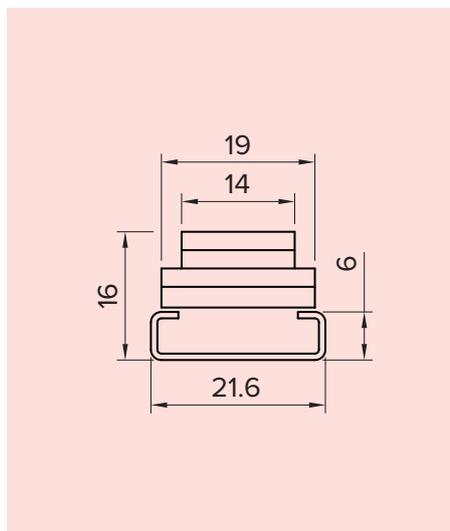
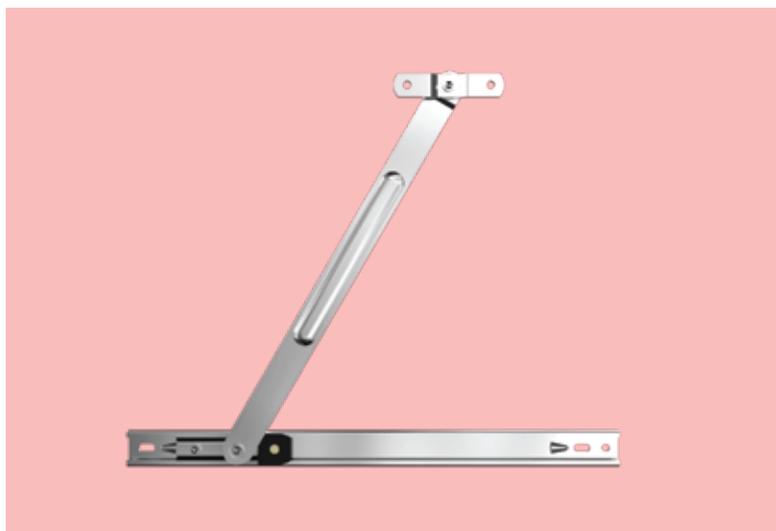
Packaging: 25 pairs/box

MATERIAL SPECIFICATION

Stainless Steel Grade: 304

Slider: Polyamide

KFA-HD I Heavy Duty Restrictor Arm



TECHNICAL DATA

Size (In): 10, 12, 16

Link Bar Thickness (mm): 2.5

Packaging: 25 pairs/box

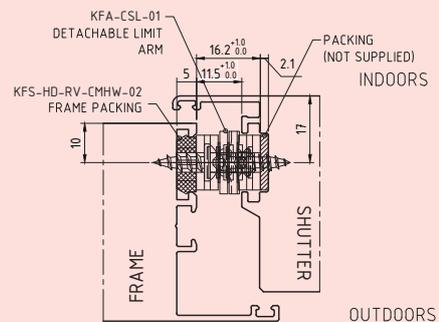
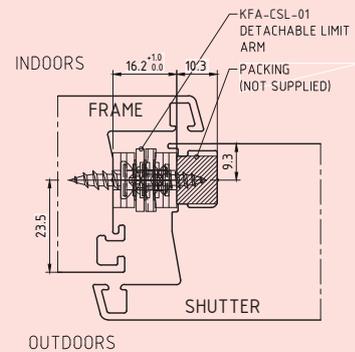
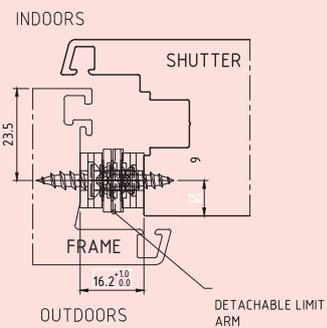
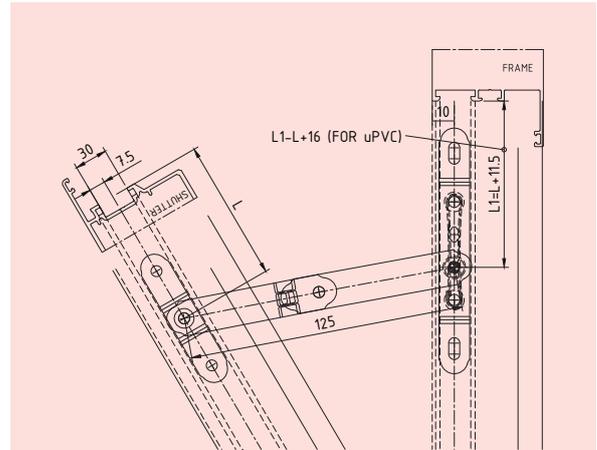
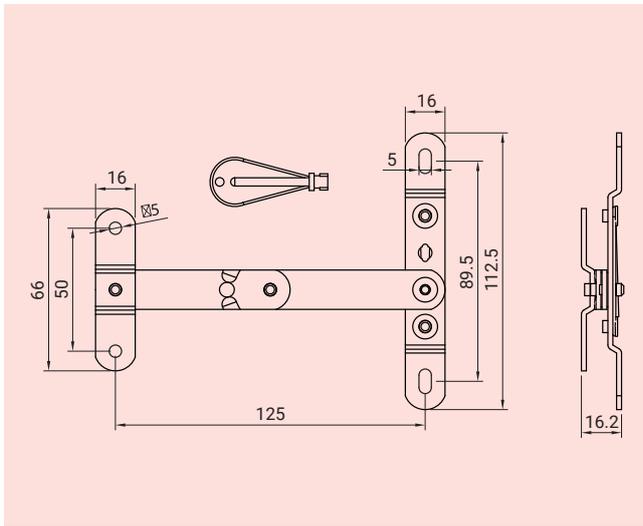
MATERIAL SPECIFICATION

Stainless Steel Grade: 304

Slider: Polyamide

Friction Stays & Allied Hardware >> Restrictor Arm Stays

KFA-CSL-01 | Child Safety Latch (Detachable Restrictor Arm)



TECHNICAL DATA

1. Suitable for the Aluminum and uPVC Frames. Stack Size 16...17 mm.
2. Detachable Restriction arm is applicable for the small size Top Hung, Side Hung and Bottom Hung Windows.
3. Top Hung (Bottom Hung) Vent Height 300...800 mm.
4. Side Hung Vent Width 300...800 mm.
5. Vent Weight Maximum 30 kg per 2 arms.

MATERIAL SPECIFICATION

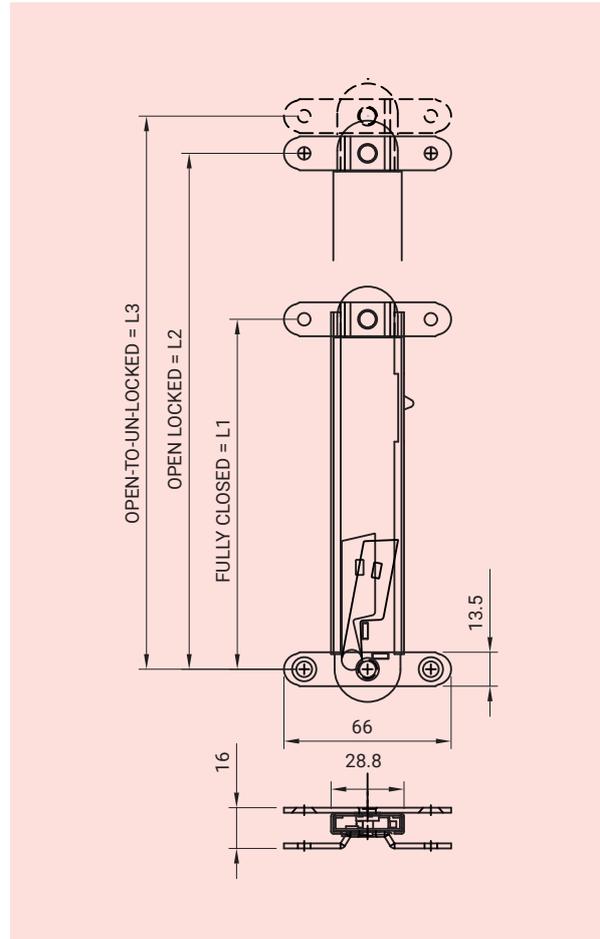
SS 304
ZAMAK

Packaging: 100 pairs/box

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Friction Stays & Allied Hardware >> Restrictor Arm Stays

KR-STAY I Support Stay Arm (Telescopic Ratchet Stay Arm)



Telescopic ratchet stay arm designed to keep top hung window shutter in the opened position. Window height H=250...400 mm. Shutter weight up to 10 Kg.

MATERIAL SPECIFICATION

SS 304

TECHNICAL DATA

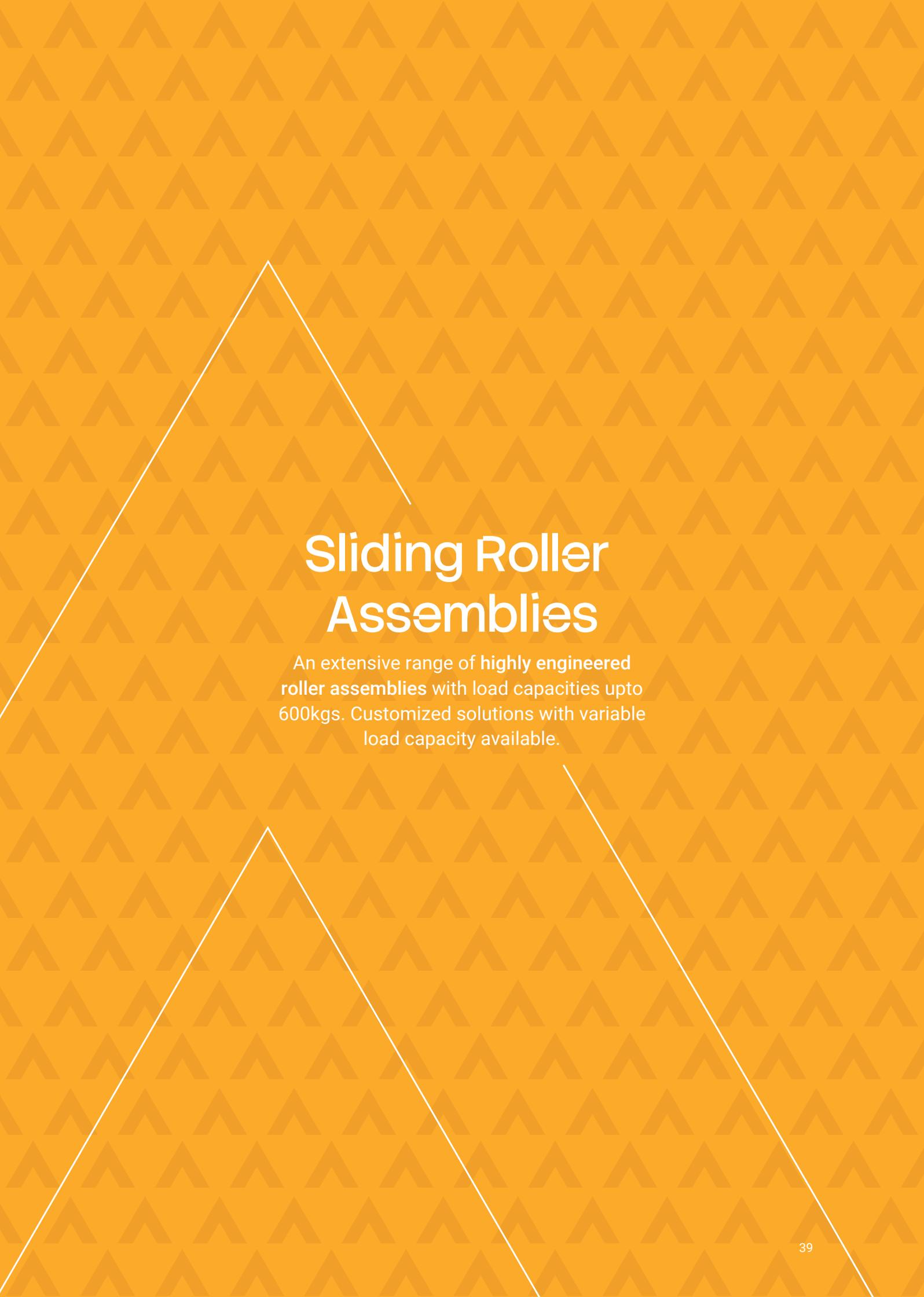
Telescopic ratchet stay arms to be used in pairs, LH and RH, to assure stable and rigid shutter fixation in the opened position. Telescopic ratchet stay arm contents of two C-shaped telescopic arms. Each arm has attached pivot bracket.

Ratchet mechanism located between two arms and allows to block the sliding movement towards to close direction in one concerned "open locked" position.

Product Code	L1 (mm)	L2 (mm)	L3 (mm)
1 KRSTAY-TL-8	139.2	205	220
2 KRSTAY-TL-10	189	305	320
3 KRSTAY-TL-12	239	405	420

Packaging: 25 pairs/box





Sliding Roller Assemblies

An extensive range of highly engineered roller assemblies with load capacities upto 600kgs. Customized solutions with variable load capacity available.

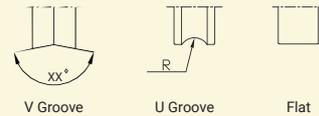


Key Features

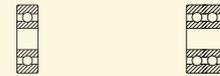
1. Standard and custom solutions available for shutter load ranging upto 600 kgs
2. Universal roller designs enable to adapt and offer customized solutions with negligible development lead times
3. Specialized solutions for Slim / Minimal sliding systems
4. Conforms to International Endurance Test standards

Legend

Wheel Type

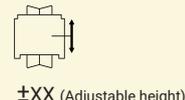
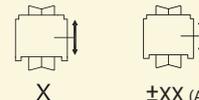


Wheel Bearings



Single Row Ball Bearing Double Row Ball Bearing

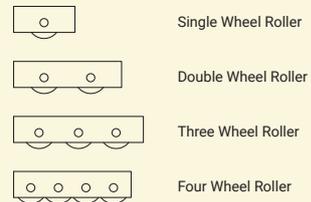
Roller Wheel Height Adjustment



Fixed Wheel Roller

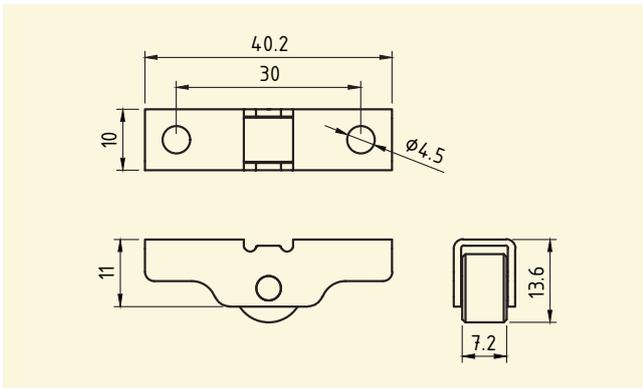
±XX (Adjustable height)
Adjustable Wheel Roller

Wheel Rollers

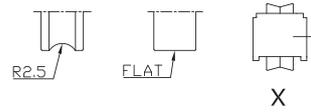


Sliding Roller Assemblies >> Flymesh Shutter Rollers

KRO-06-V1 | Flymesh Roller



FEATURES



MATERIAL

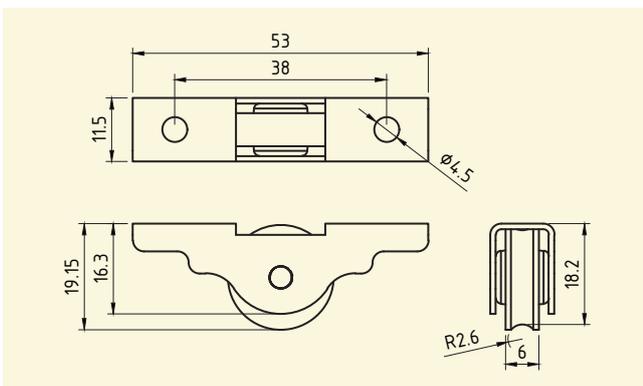
Carriage	GI, SS 304
Wheel	POM

PRODUCT CODE

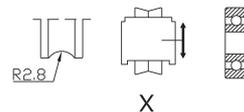
A	KRO-06-V1	Carbon Steel HSG with Flat POM Wheel
B	KRO-06-V1	Carbon Steel HSG with Grooved POM Wheel
C	KRO-06-V1	SS HSG with Flat POM Wheel
D	KRO-06-V1	SS HSG with Grooved POM Wheel

Packaging: 500 pcs/box

KRO-23 | Fixed Single Wheel Roller



FEATURES



MATERIAL

Carriage	GI, SS 304
Wheel	POM

MAXIMUM LOAD CAPACITY

	40 kg. / 2 rollers
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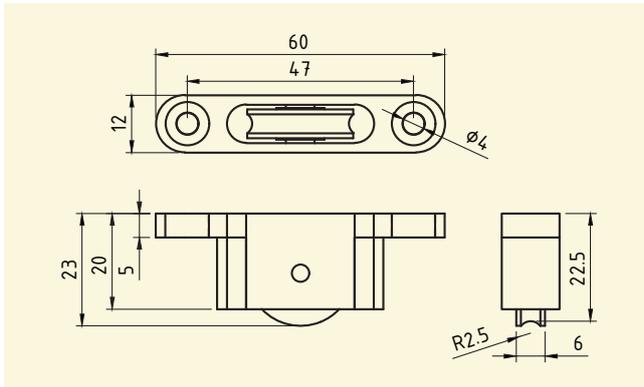
PRODUCT CODE

A	KRO-23	Carbon Steel HSG with Polymer Wheel
B	KRO-23	Stainless Steel HSG with Polymer Wheel

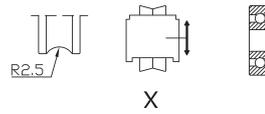
Packaging: 500 pcs/box

Sliding Roller Assemblies >> Flymesh Shutter Rollers

KRO-27 I Fixed Single Wheel Roller



FEATURES



MATERIAL

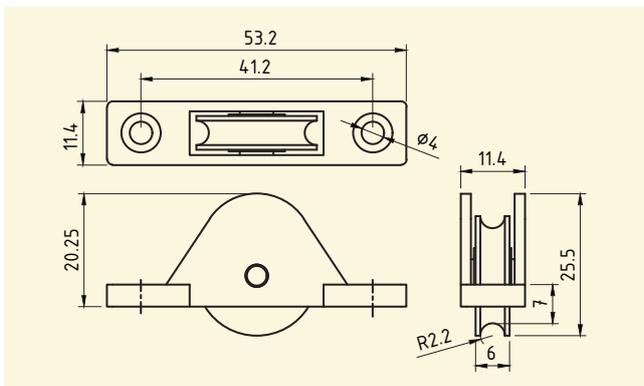
Carriage	Polyamide
Wheel	POM

MAXIMUM LOAD CAPACITY

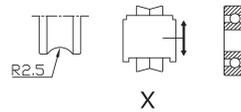
	20 kg. / 2 rollers
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Packaging: 500 pcs/box

KRO-34 I Fixed Single Wheel Roller



FEATURES



MATERIAL

Carriage	Polyamide
Wheel	POM

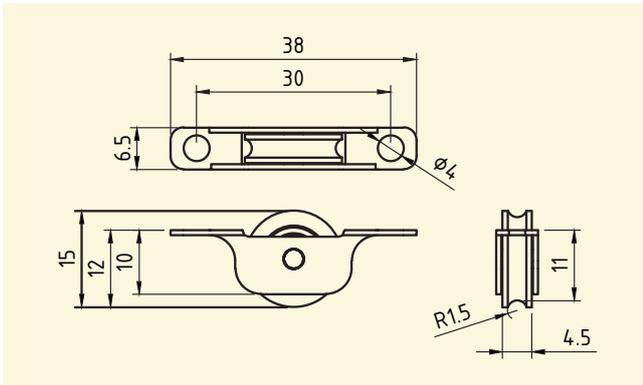
MAXIMUM LOAD CAPACITY

	20 kg. / 2 rollers
--	--------------------

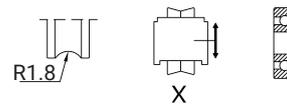
Packaging: 500 pcs/box

Sliding Roller Assemblies >> Flymesh Shutter Rollers

KRO-35 I Flymesh Roller



FEATURES



MATERIAL

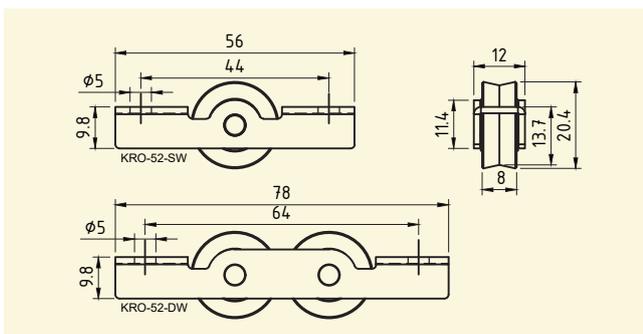
Carriage	GI
Wheel	POM

MAXIMUM LOAD CAPACITY

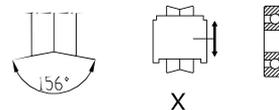
	20 kg. / 2 rollers
---	--------------------

Packaging: 500 pcs/box

KRO-52-SW/DW I Fixed Single / Double Wheel Roller



FEATURES

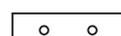


MATERIAL

Carriage	SS 304
Wheel	POM

MAXIMUM LOAD CAPACITY

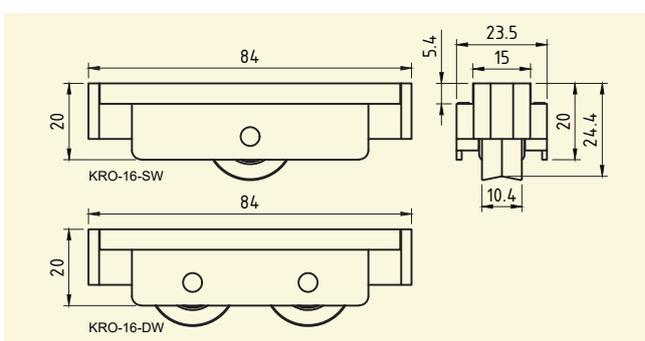
	40 kg. / 2 rollers
---	--------------------

	80 kg. / 2 rollers
---	--------------------

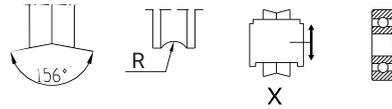
Packaging: 500 pcs/box

Sliding Roller Assemblies >> Polyamide Housing Rollers

KRO-16-SW/DW | Fixed Single/ Double Wheel Roller



FEATURES



MATERIAL

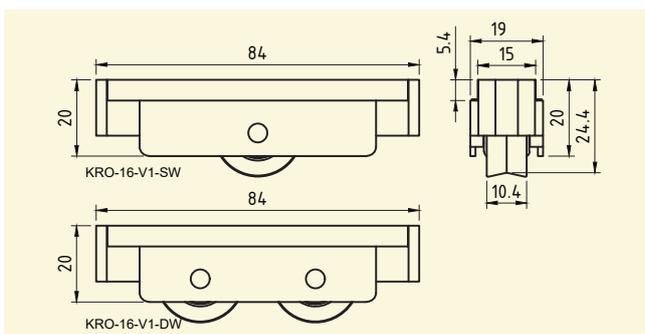
Carriage	Polyamide
Wheel	POM

MAXIMUM LOAD CAPACITY

	60 kg. / 2 rollers
	120 kg. / 2 rollers

Packaging: 250 pcs/box

KRO-16-V1-SW/DW | Fixed Single/ Double Wheel Roller



FEATURES



MATERIAL

Carriage	Polyamide
Wheel	POM

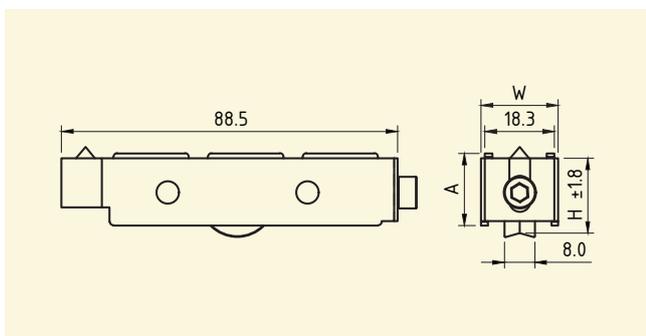
MAXIMUM LOAD CAPACITY

	60 kg. / 2 rollers
	120 kg. / 2 rollers

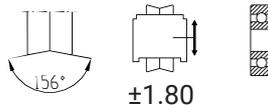
Packaging: 250 pcs/box

Sliding Roller Assemblies >> Polyamide Housing Rollers

KRO-36 I Adjustable Single Wheel Roller



FEATURES



MATERIAL

Carriage	Polyamide
Wheel	POM

MAXIMUM LOAD CAPACITY

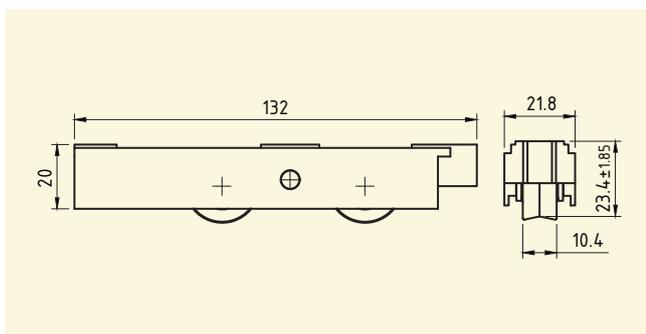
	60 kg. / 2 rollers
--	--------------------

PRODUCT DETAILS

PRODUCT CODE	A	W	H
KRO-36-SW-V1	23.1	22.7	21.7
KRO-36-SW-V2	18.0	22.7	22.6
KRO-36-SW-V3	19.2	20.3	19.9

Packaging: 250 pcs/box

KRO-24 I Adjustable Double Wheel Roller



FEATURES



MATERIAL

Outer Carriage	Polyamide
Inner Carriage	GI
Wheel	POM

MAXIMUM LOAD CAPACITY

	160 kg. / 2 rollers
--	---------------------

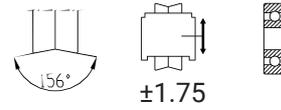
Packaging: 250 pcs/box

Sliding Roller Assemblies >> Polyamide Housing Rollers

KRO-58-SW/DW | Adjustable Single/Double Wheel Roller



FEATURES



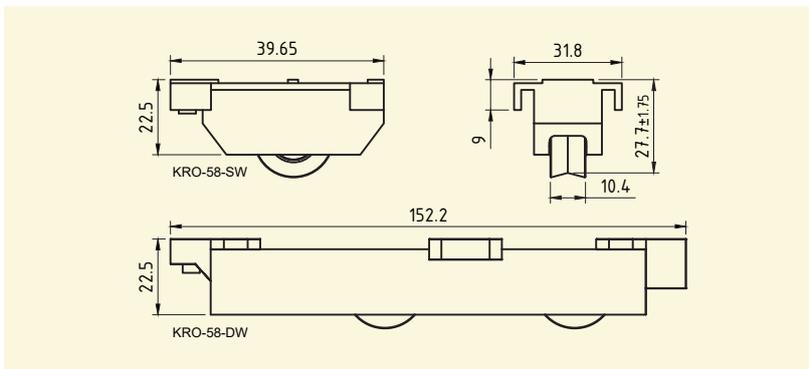
MATERIAL

Carriage	Polyamide
Inner Carriage	ZAMAK Diecast
Wheel	POM

MAXIMUM LOAD CAPACITY

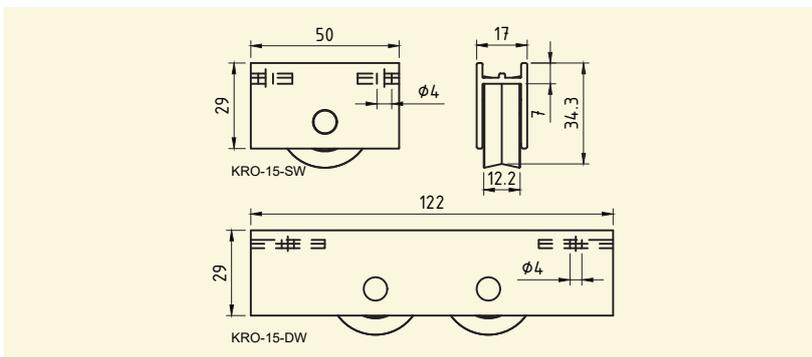
	80 kg. / 2 rollers
	160 kg. / 2 rollers

Packaging: 250 pcs/box

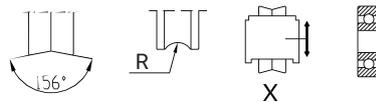


Sliding Roller Assemblies >> Universal Design Rollers

KRO-15 I Fixed Single/ Double Wheel Roller



FEATURES



MATERIAL

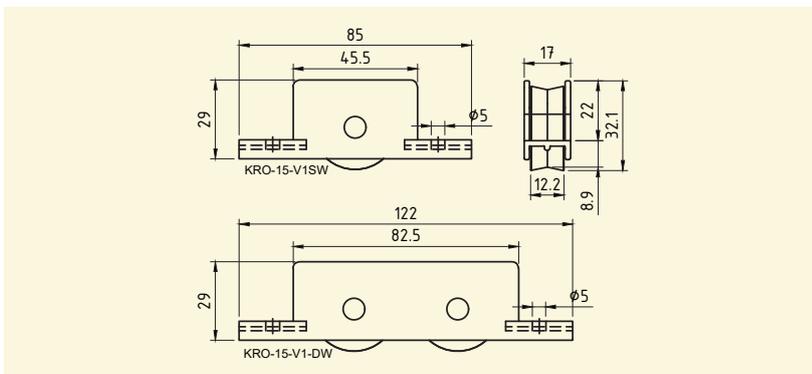
Carriage	Aluminium
Wheel	POM

MAXIMUM LOAD CAPACITY

	100 kg. / 2 rollers
	200 kg. / 2 rollers

Packaging: 250 pcs/box

KRO-15-V1 I Fixed Single/ Double Wheel Roller



FEATURES



MATERIAL

Carriage	Aluminium
Wheel	POM

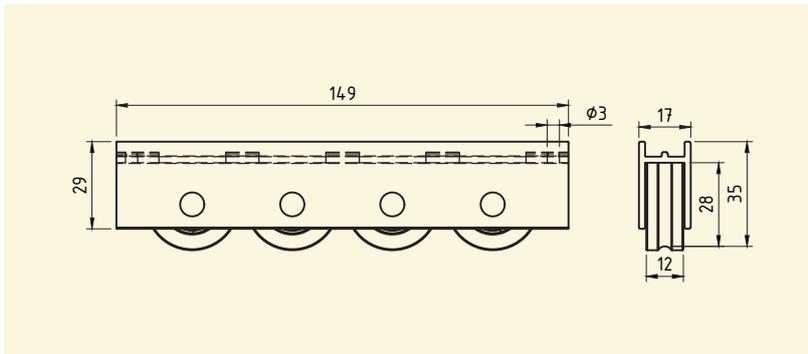
MAXIMUM LOAD CAPACITY

	100 kg. / 2 rollers
	200 kg. / 2 rollers

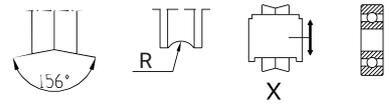
Packaging: 250 pcs/box

Sliding Roller Assemblies >> Universal Design Rollers

KRO-15-4W I Fixed Four Wheel Roller



FEATURES



MATERIAL

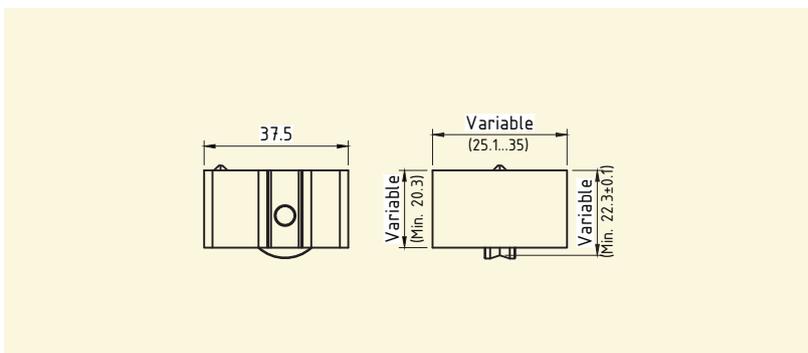
Carriage	Aluminium
Wheel	POM

MAXIMUM LOAD CAPACITY

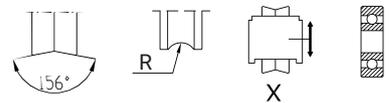
	400 kg. / 2 rollers
--	---------------------

Packaging: 250 pcs/box

KRO-26 I Fixed Single Wheel Roller



FEATURES



MATERIAL

Carriage	Aluminium
Wheel	POM

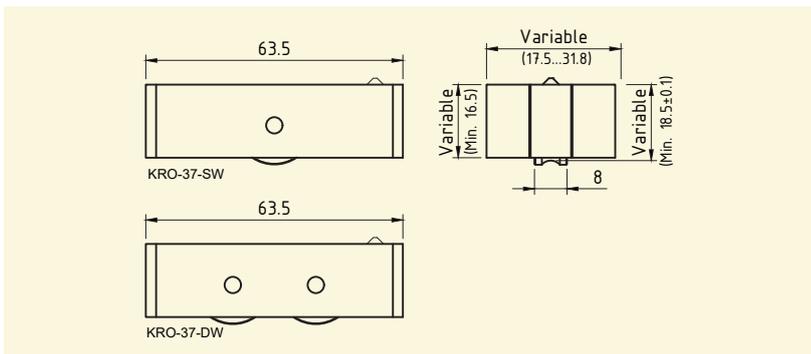
MAXIMUM LOAD CAPACITY

	80 kg. / 2 rollers
--	--------------------

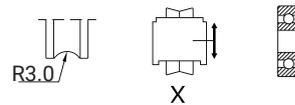
Packaging: 250 pcs/box

Sliding Roller Assemblies >> Universal Design Rollers

KRO-37 | Fixed Single / Double Wheel Roller



FEATURES



MATERIAL

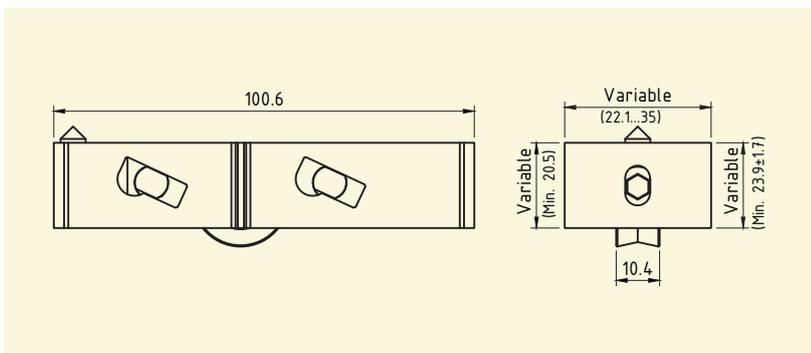
Carriage	Aluminium
Wheel	POM, SS 304

MAXIMUM LOAD CAPACITY

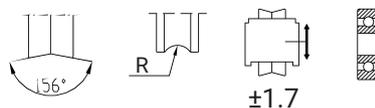
	80 kg. / 2 rollers
	160 kg. / 2 rollers

Packaging: 250 pcs/box

KRO-41 | Adjustable Single Wheel Roller



FEATURES



MATERIAL

Carriage	Aluminium
Wheel	POM

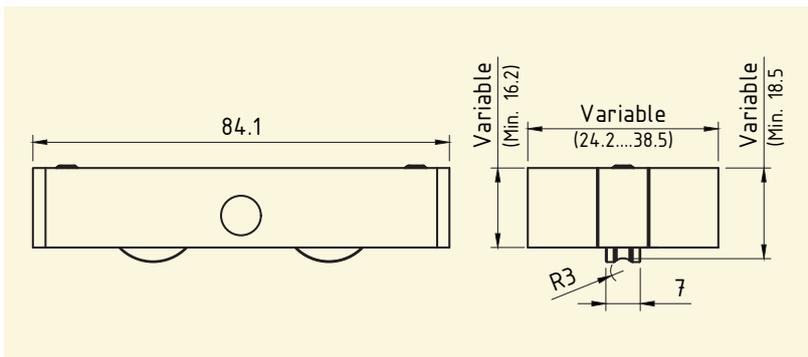
MAXIMUM LOAD CAPACITY

	100 kg. / 2 rollers
--	---------------------

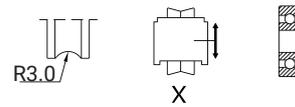
Packaging: 250 pcs/box

Sliding Roller Assemblies >> Universal Design Rollers

KRO-51 I Self Balancing Fixed Double Wheel Roller



FEATURES



MATERIAL

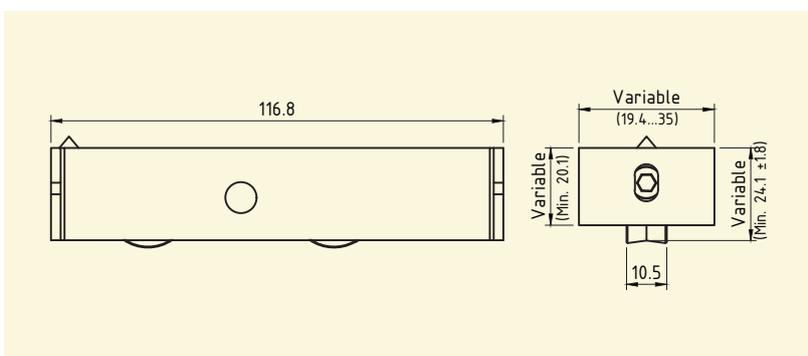
Carriage	Aluminium
Wheel	POM, SS 304

MAXIMUM LOAD CAPACITY

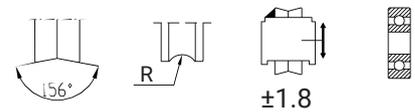
	160 kg. / 2 rollers
--	---------------------

Packaging: 250 pcs/box

KRO-25 I Adjustable Double Wheel Roller



FEATURES



MATERIAL

Outer Carriage	Aluminium
Inner Carriage	SS 304
Wheel	POM, SS 304

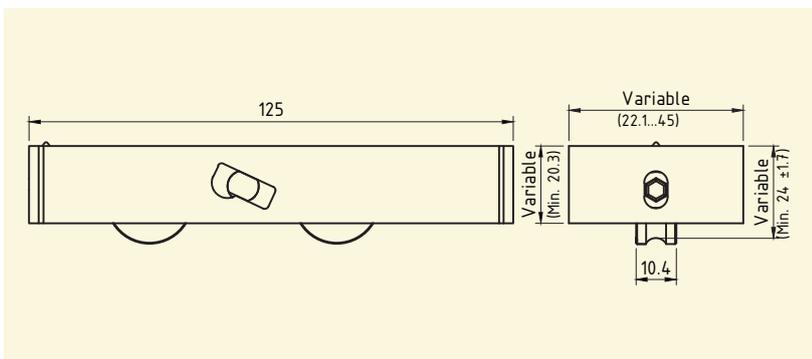
MAXIMUM LOAD CAPACITY

	160 kg. / 2 rollers
--	---------------------

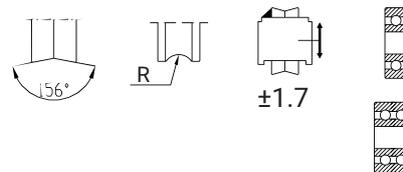
Packaging: 250 pcs/box

Sliding Roller Assemblies >> Universal Design Rollers

KRO-38 | Adjustable Double Wheel Roller



FEATURES



MATERIAL

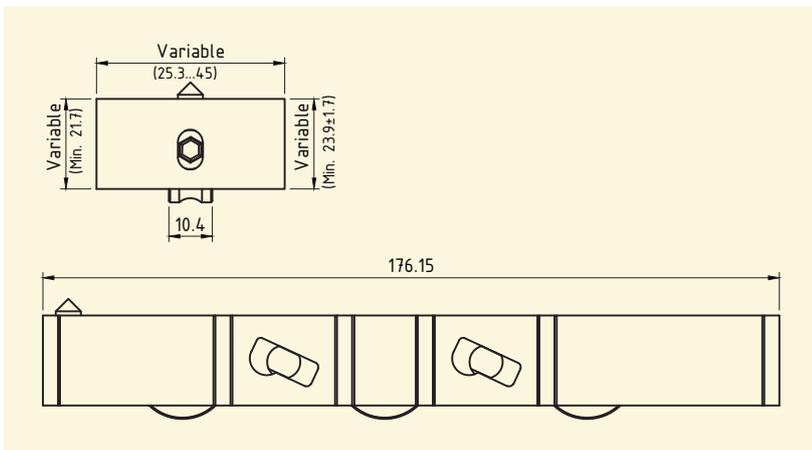
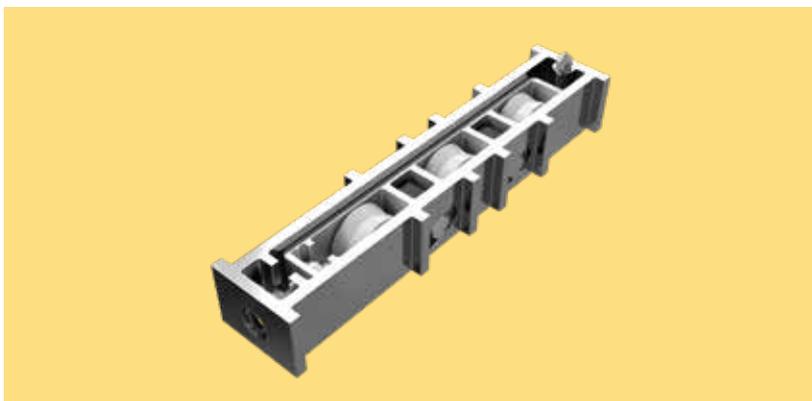
Carriage	Aluminium
Wheel	POM, SS 304

MAXIMUM LOAD CAPACITY

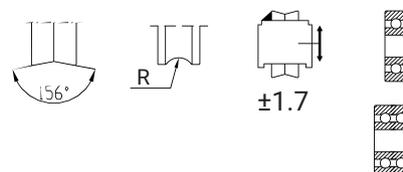
	200 kg. / 2 rollers
--	---------------------

Packaging: 250pcs/box

KRO-39 | Adjustable Three Wheel Roller



FEATURES



MATERIAL

Carriage	Aluminium
Wheel	POM, SS 304

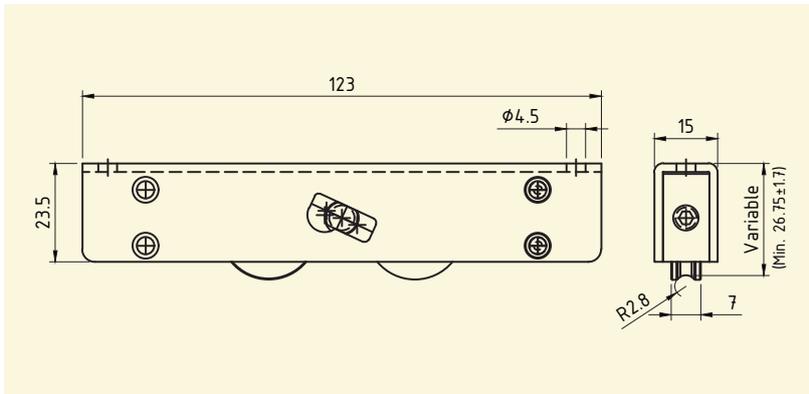
MAXIMUM LOAD CAPACITY

	300 kg. / 2 rollers
--	---------------------

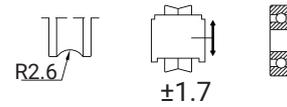
Packaging: 250 pcs/box

Sliding Roller Assemblies >> Customized Rollers

KRO-32-SP I Adjustable Double Wheel Roller



FEATURES



MATERIAL

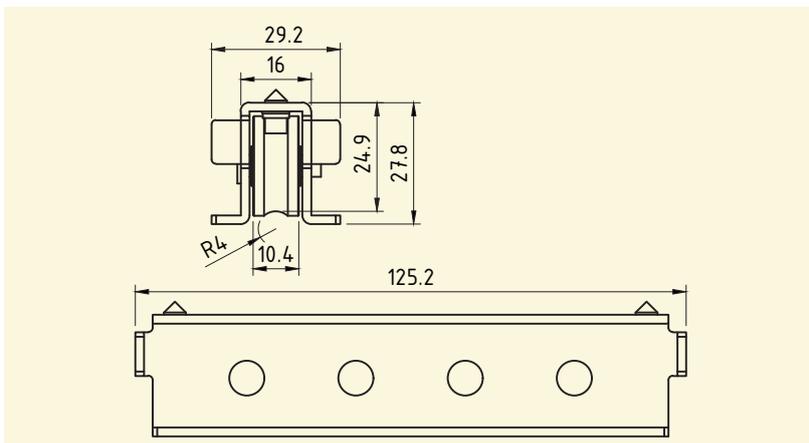
Carriage	SS 304
Wheel	POM

MAXIMUM LOAD CAPACITY

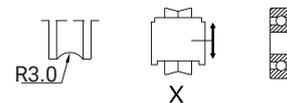
	200 kg. / 2 rollers
--	---------------------

Packaging: 250 pcs/box

KRO-46 I Fixed Four Wheel Roller



FEATURES



MATERIAL

Carriage	SS 304
Wheel	SS 304

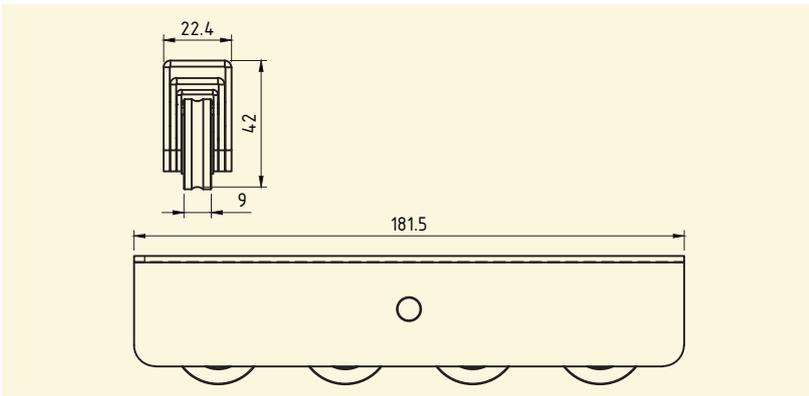
MAXIMUM LOAD CAPACITY

	600 kg. / 2 rollers
--	---------------------

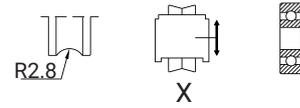
Packaging: 250 pcs/box

Sliding Roller Assemblies >> Customized Rollers

KRO-57 | Self Balancing Fixed Four Wheel Roller



FEATURES



MATERIAL

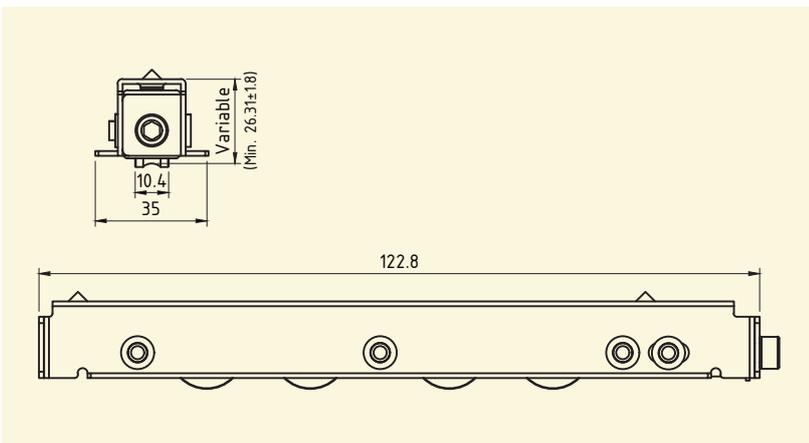
Carriage	SS 304
Wheel	POM, SS 304

MAXIMUM LOAD CAPACITY

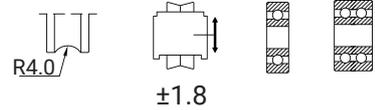


Packaging: 250 pcs/box

KRO-42 | Adjustable Four Wheel Roller



FEATURES



MATERIAL

Carriage	SS 304
Wheel	POM

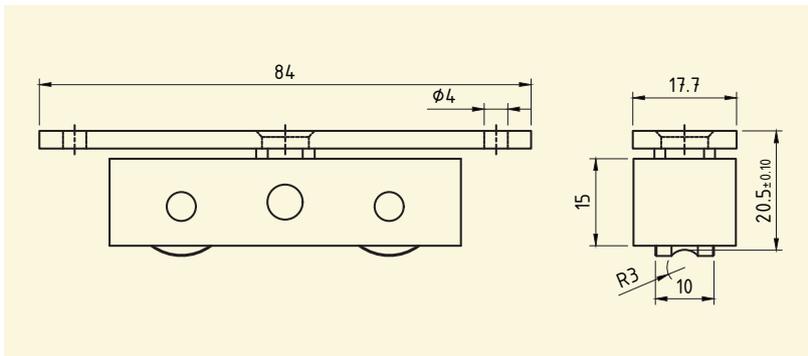
MAXIMUM LOAD CAPACITY



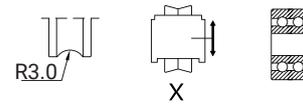
Packaging: 250 pcs/box

Sliding Roller Assemblies >> Slimline Minimal System Rollers

KRO-49 | Self Balancing Fixed Double Wheel Roller



FEATURES



MATERIAL

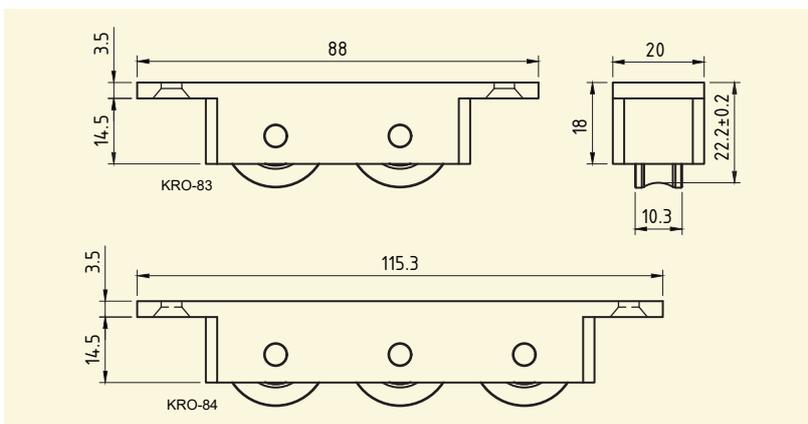
Carriage	AL
Wheel	SS

MAXIMUM LOAD CAPACITY

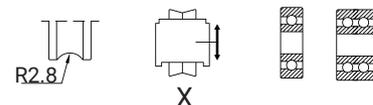
	400 kg. / 2 rollers
--	---------------------

Packaging: 100 pcs/box

KRO-83/84 | Fixed Double/Three Wheel Roller



FEATURES



MATERIAL

Carriage	AL
Wheel	POM, SS304

MAXIMUM LOAD CAPACITY

	200 kg. / 2 rollers
	300 kg. / 2 rollers

Packaging: 250 pcs/box

Sliding Roller Assemblies >> SS U-Rails

KRAIL-01/02/03

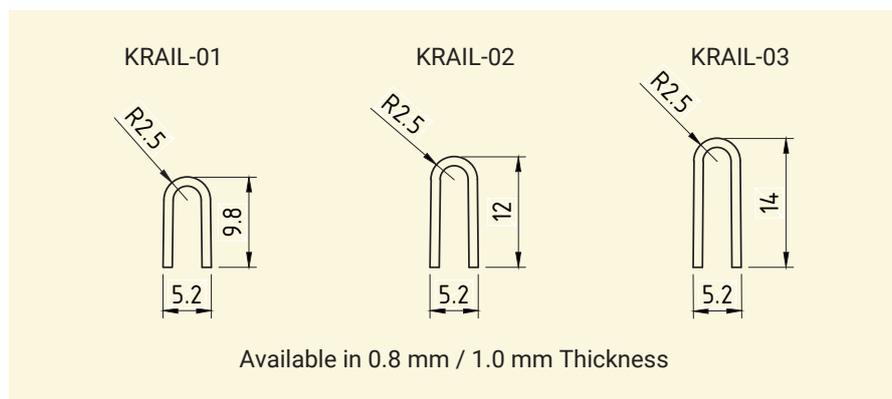


MATERIAL

SS 304, SS 316L

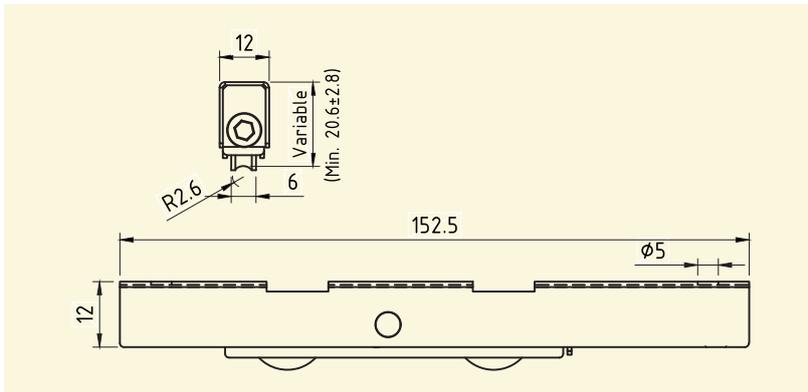
Standard Unit Length: 5 mtrs

Packaging: 50 pcs/box

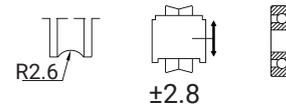


Sliding Roller Assemblies >> uPVC System Sliding Rollers

KRO-12-V1 | Adjustable Double Wheel Roller



FEATURES



MATERIAL

Carriage GI, SS 304

Wheel POM

PRODUCT CODE

KRO-12-V1 Carbon Steel HSG with Polymer Wheel

KRO-12-V1 SS HSG with Polymer Wheel

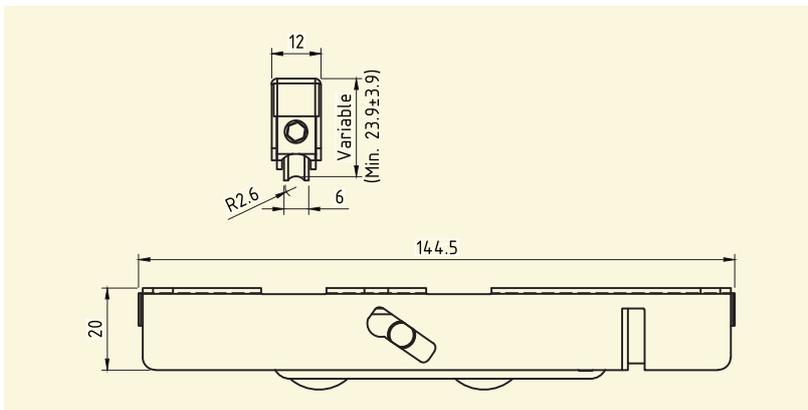
KRO-12-V1 SS HSG with SS Wheel

MAXIMUM LOAD CAPACITY

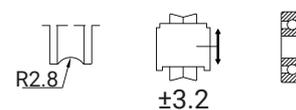
100 kg. / 2 rollers

Packaging: 250 pcs/box

KRO-12-SP | Adjustable Double Wheel Roller



FEATURES



MATERIAL

Carriage GI, SS 304

Wheel POM, SS 304

PRODUCT CODE

KRO-12-SP Carbon Steel HSG with Polymer Wheel

KRO-12-SP SS HSG with Polymer Wheel

KRO-12-SP SS HSG with SS Wheel

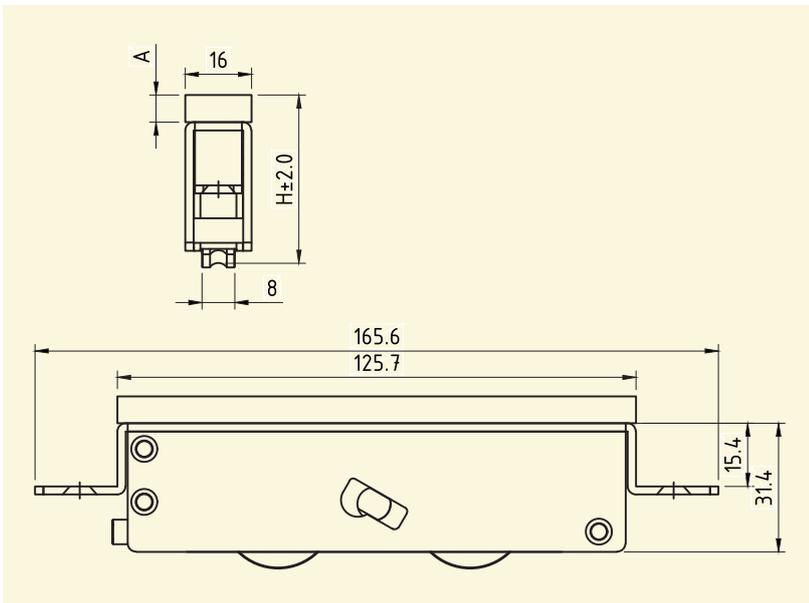
MAXIMUM LOAD CAPACITY

100 kg. / 2 rollers

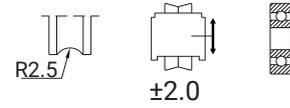
Packaging: 250 pcs/box

Sliding Roller Assemblies >> uPVC System Sliding Rollers

KRO-32 I Adjustable Double Wheel Roller



FEATURES



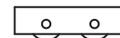
MATERIAL

Carriage	SS 304
Wheel	POM

PRODUCT DETAILS

PRODUCT CODE	A	H
KRO-32	-	34.5
KRO-32-SP1	6.6	41.1
KRO-32-SP2	10.0	44.5
KRO-32-SP3	20.0	54.5
KRO-32-SP4	14.0	48.5
KRO-32-SP5	2.0	36.5
KRO-32-SP6	16.0	50.5
KRO-32-SP7	12.0	46.5
KRO-32-SP8	8.0	42.5

MAXIMUM LOAD CAPACITY

	200 kg. / 2 rollers
--	---------------------

Custom size spacer options available to suit various uPVC profile systems

Packaging: 250 pcs/box





Locking Solutions & Accessories

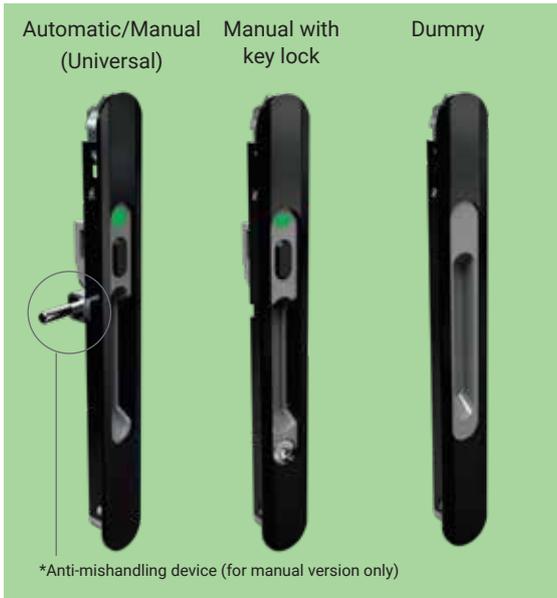
Our largest category covers every single part of locking systems- from concealed flush locks to locking mechanisms to accessories.



Range

1. Concealed flush locks
2. Espagnolettes
3. Gearboxes
4. Shootbolt mechanisms
5. Curtain Wall Transmission mechanisms
6. Corner Transmission for perimeter locking
7. Latch locks
8. Secondary shootbolt locks
9. Locking accessories
10. Aluminium Extruded Rods

VYU-SL-01 | Sliding Embedded Door Handle



FUNCTION

Sliding embedded door handle is flash-mounted, RH & LH convertible handle, with the possibility of manual locking of doors.

Used to maintain single point side locking of sliding doors. In combination with the link bar facility, multi-point locking can be set up. Sliding embedded door handle permits the overlapping of the sliding shutters.

TECHNICAL FEATURES

- Offered in Automatic, Manual & Dummy models
- In-built gear mechanism enables in-place adjustment of the locking nib resulting in quick and easy installation of the lock
- Unique lock design enables easy conversion between Automatic and Manual mode
- Customized Anti-Mishandling unit offered in Manual lock model
- Key lock feature available in Manual lock model
- Wide variety of accessories enable the lock to be used for single point and multipoint locking applications
- Customized finishes offered

Packaging: 100 nos.

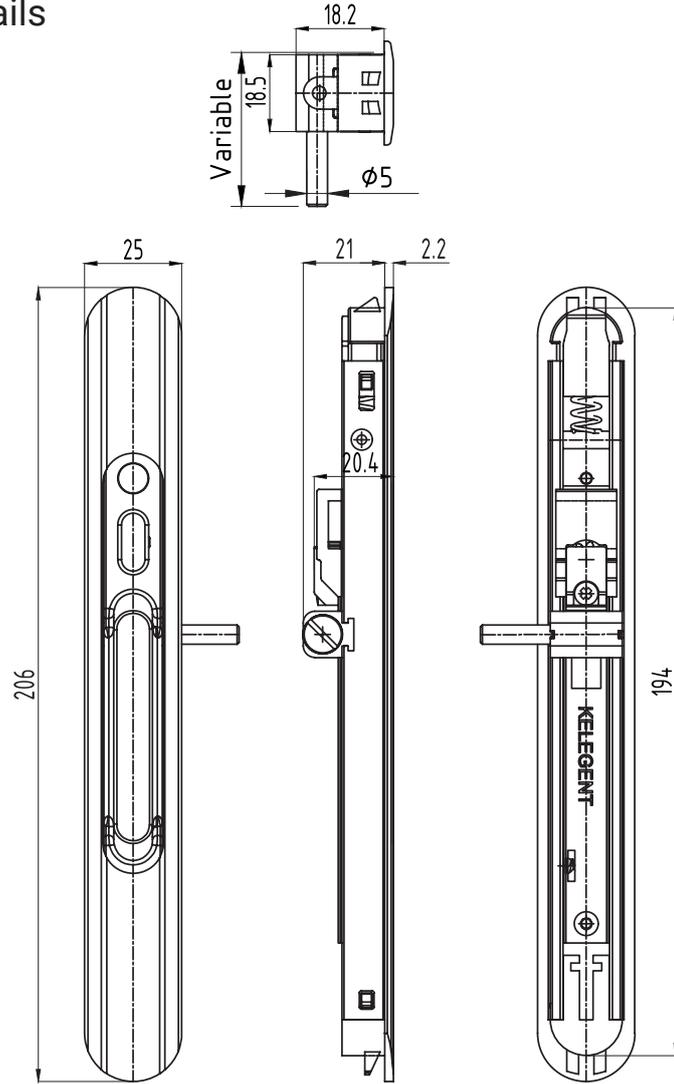
Product Details

Item Code	Descriptions
VYU-SL-01-A-FXX-YY	Concealed Flush Locks - Automatic
VYU-SL-01-M-FXX-YY	Concealed Flush Locks - Manual
VYU-SL-01-M-MD-FXX-YY	Concealed Flush Locks - Manual with Anti-Mishandling Device
VYU-SL-01-M-K-FXX-YY	Concealed Flush Locks - Manual with Keylock
VYU-SL-01-M-K-MD-FXX-YY	Concealed Flush Locks - Manual with Keylock & Anti-Mishandling Device
VYU-SL-01-D-FXX-YY	Concealed Flush Locks - Dummy

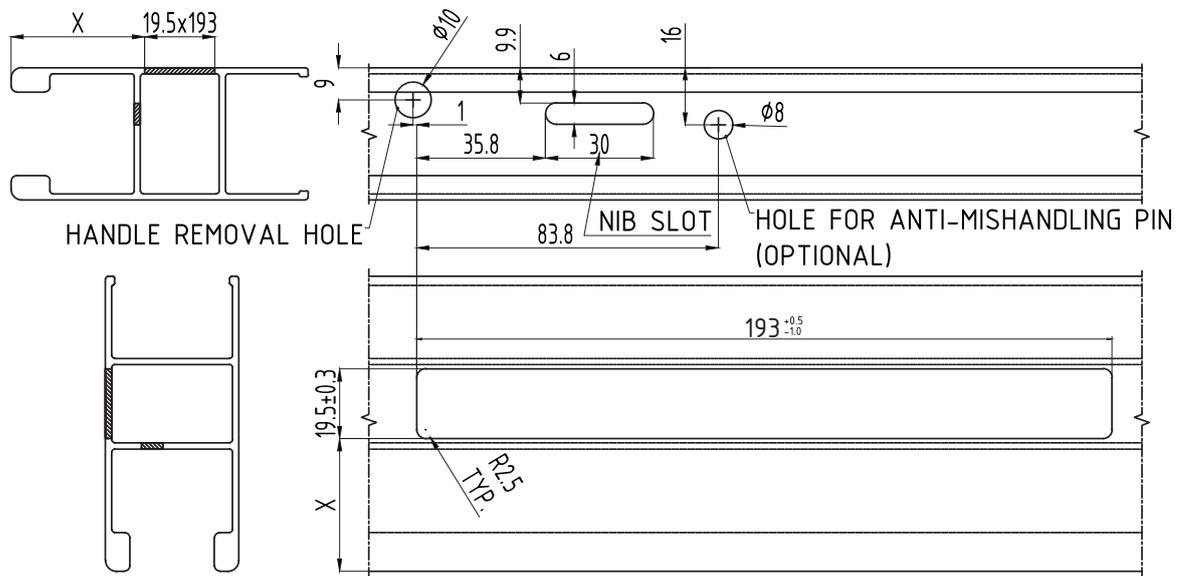
Legend

Code	Specification
FXX	01 - Power Coated Finish
	02 - Anodized Finish
YY	Colour Code

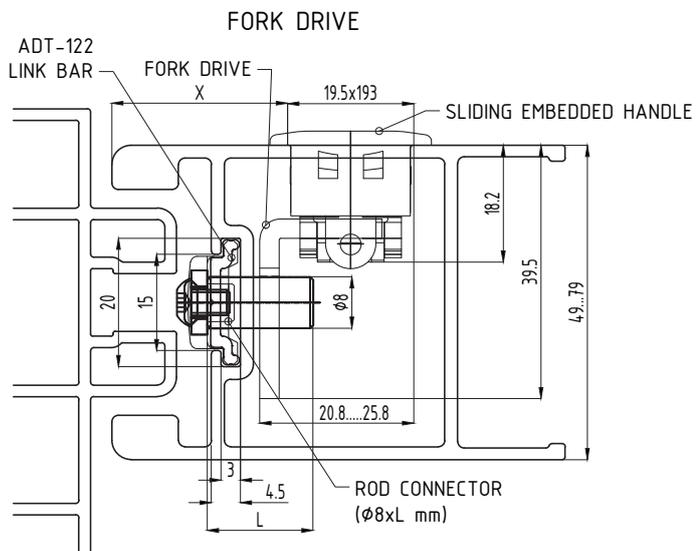
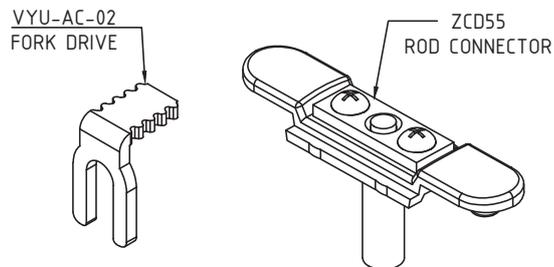
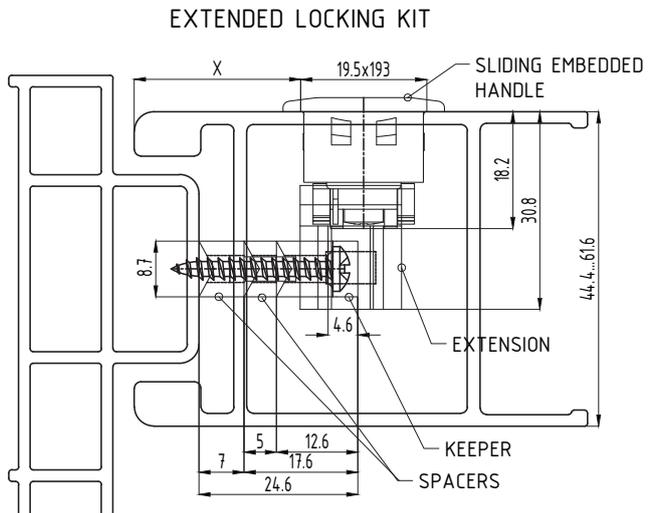
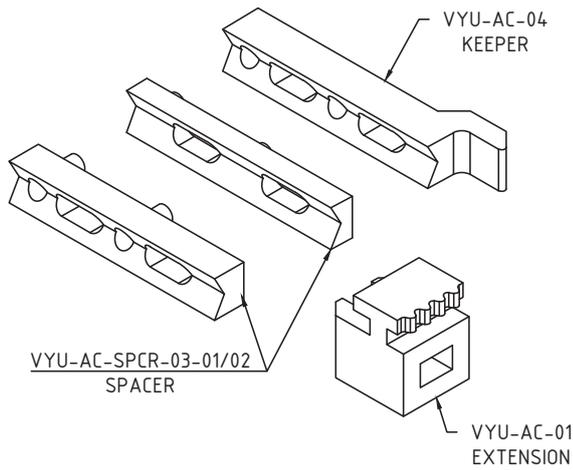
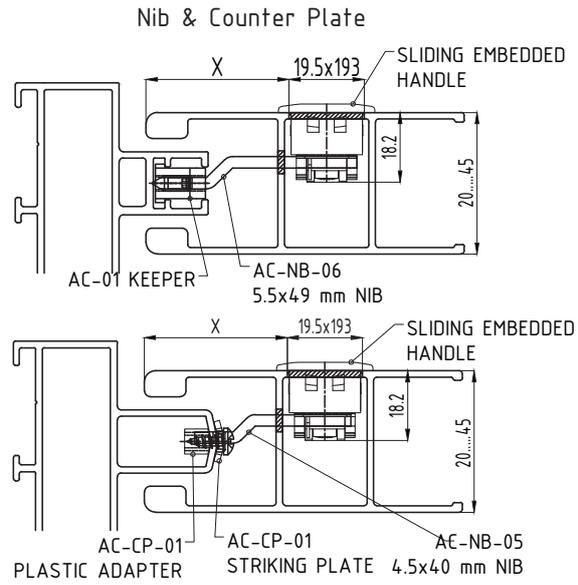
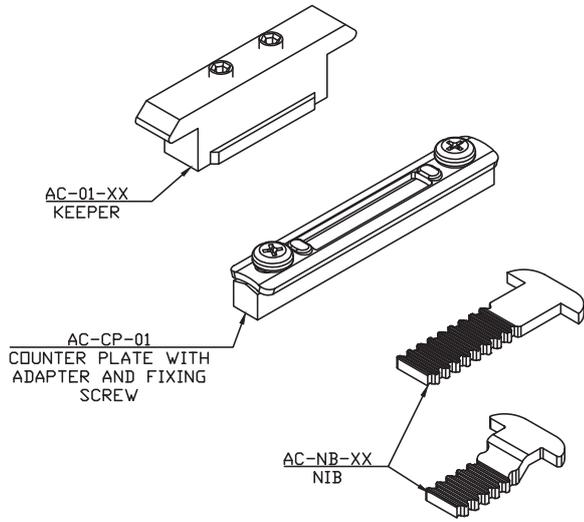
Dimensional Details



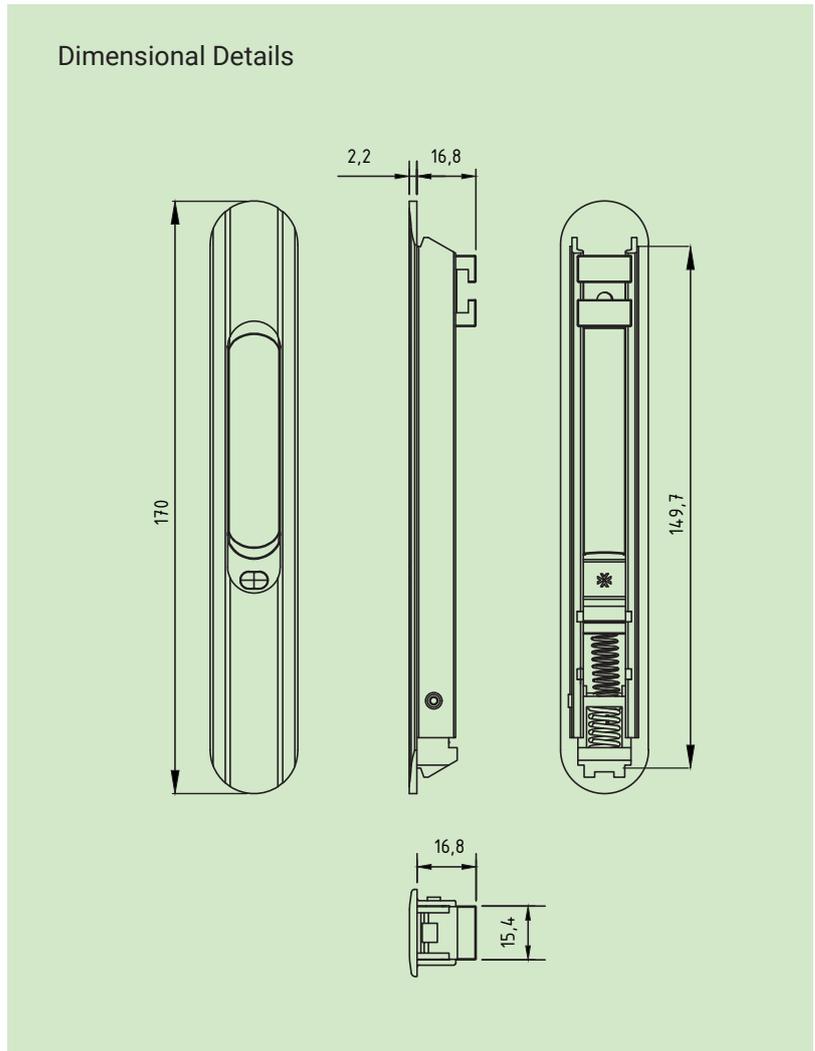
Machining Details



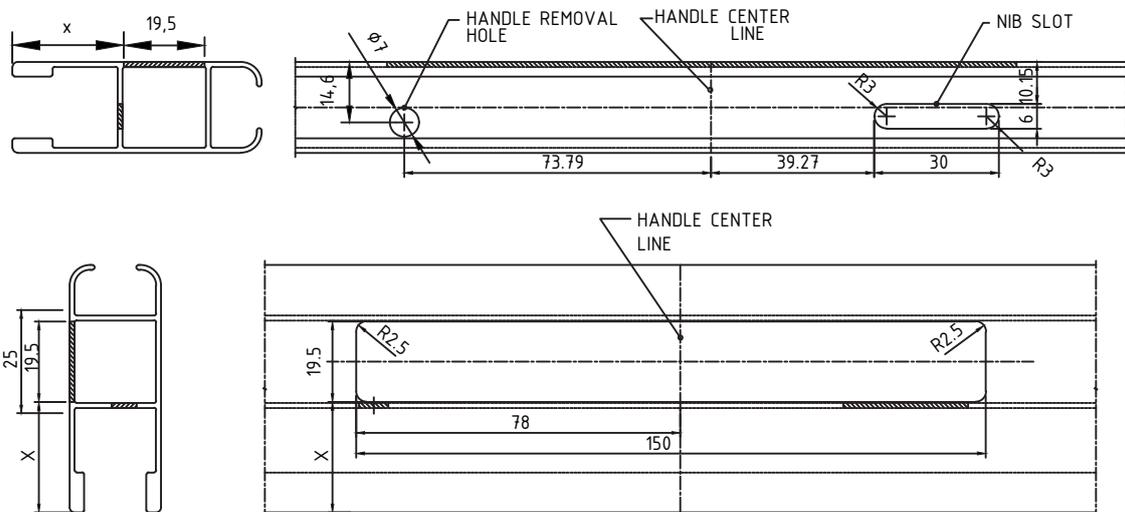
Application Details



VYU-SL-10 I Sliding Embedded Flush Handle

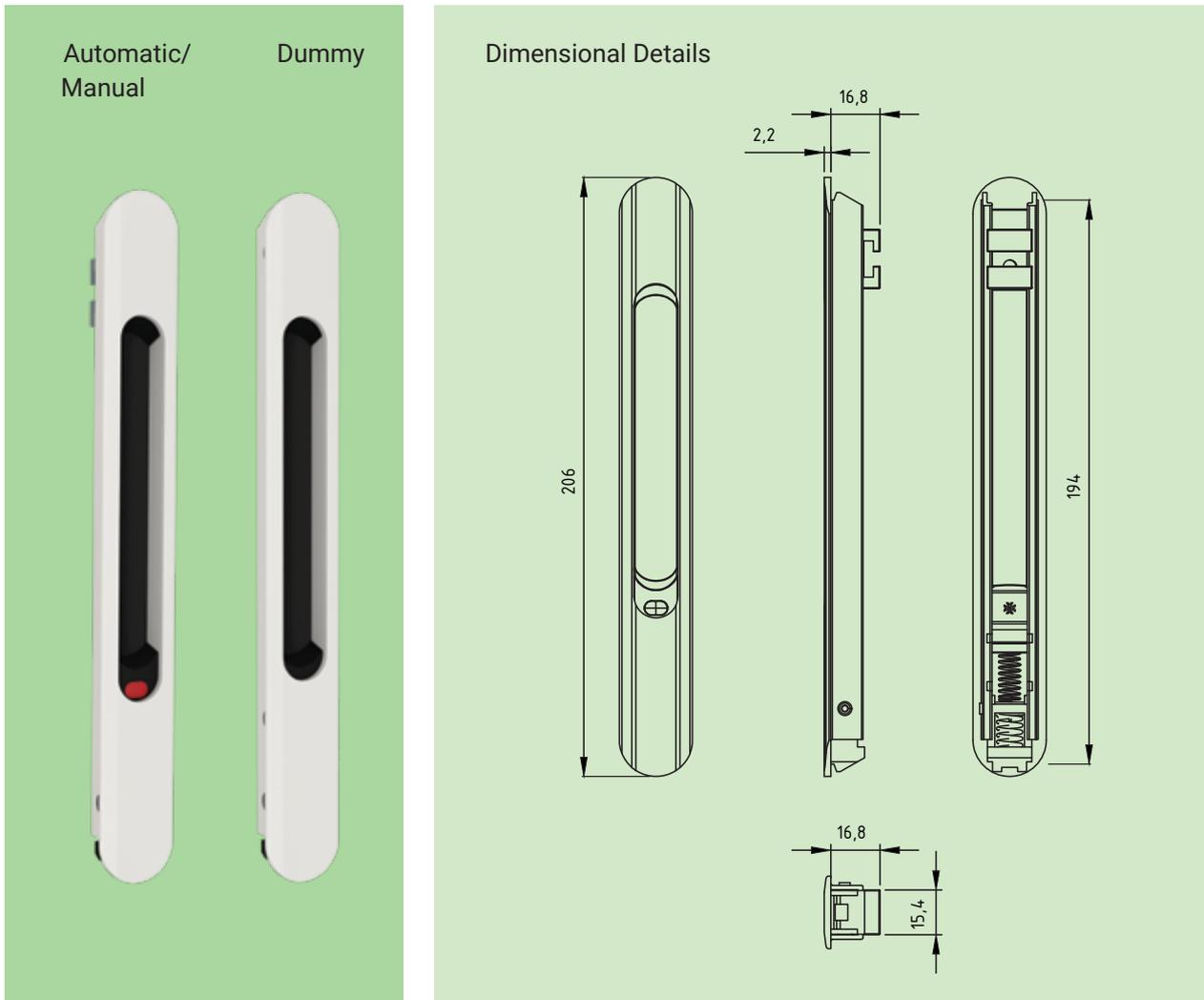


Machining Details

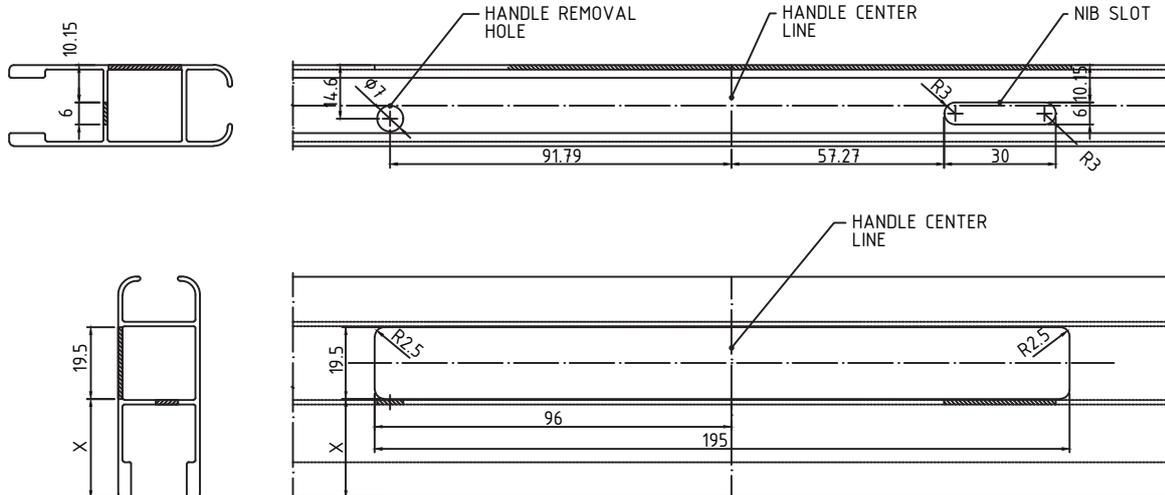


Packaging: 100 pcs/box

VYU-SL-11 | Sliding Embedded Flush Handle

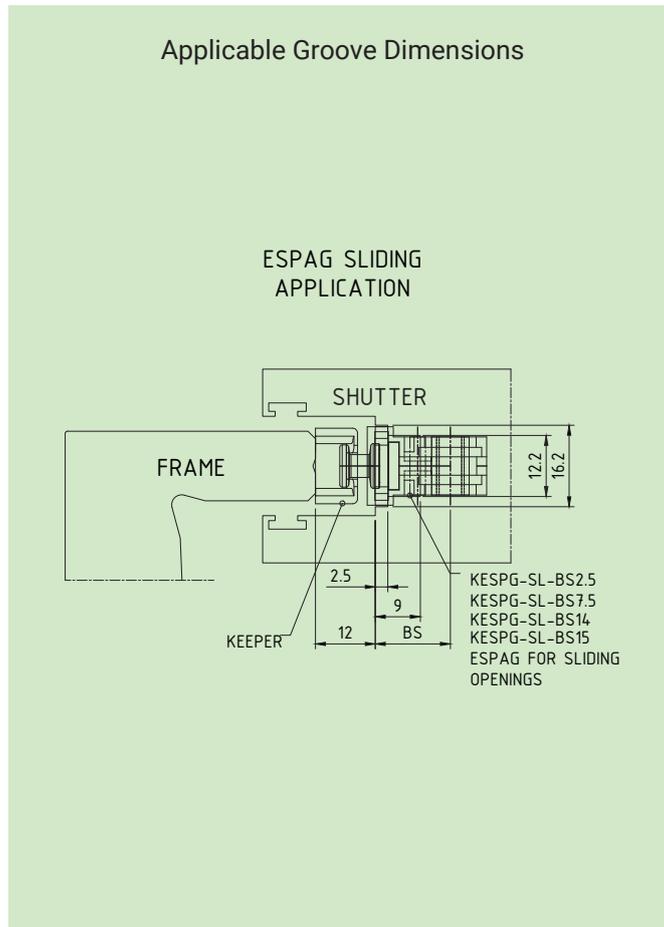


Machining Details



Packaging: 100 pcs/box

KESPG-SL I Sliding System Espags with Fixed Length Front Plate and Connection Rod



FUNCTION

Provides multi-locking application for UPVC, aluminium and wooden sliding openings. Key option available for door application.

FINISH

Electroplated, Stainless Steel 304

MATERIAL SPECIFICATION

Gear housing and Gear: ZAMAK

Front Plate & Connection Rod:
 CSGP - Carbon Steel (with electroplated finish)
 SS304 - Stainless steel grade 304.

CODES DESCRIPTION

Art. Code	Details
KESPG-SL-BSXX-LXXX-Y-CSGP	Carbon steel material
KESPG-SL-BSXX-LXXX-Y-SS304	Stainless steel grade material

BSXX - Backsets available in BS2.5, BS7.5, BS14, BS15
 "LXXX" - Front plate length in mm, "Y" - Locking Pin# (default CAM 'C')

Packaging: 30 pcs/box

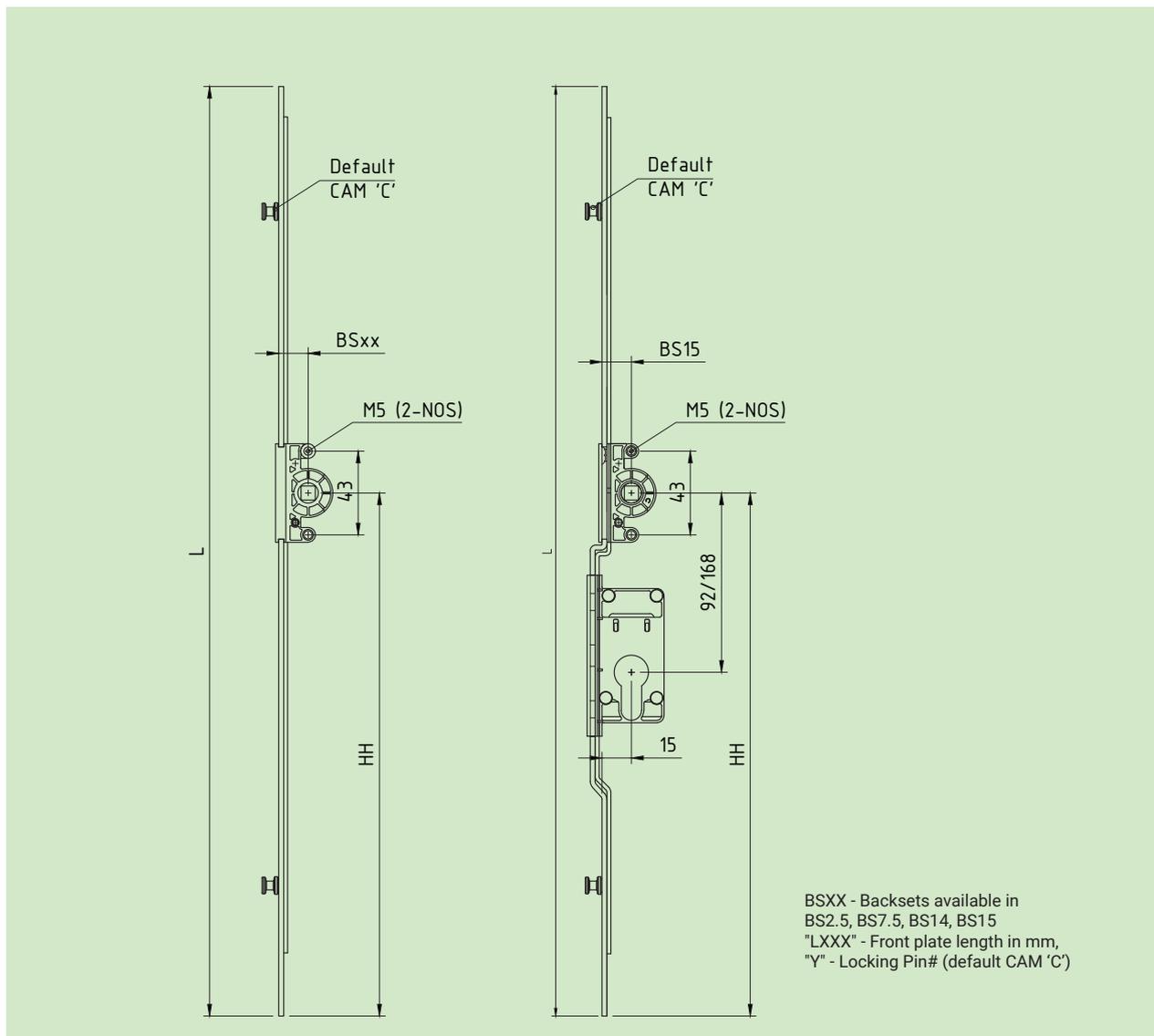
TECHNICAL FEATURES

- Applicable for uPVC, aluminium and wooden sliding frames with 12/16mm groove on sash profile (please see the sketch)
- For aluminium sliding frame adaptors may be required to be used
- Each espag could be used on wide range of sash sizes and could provide multi locking facility.
- Operated by single, or double (for doors), lever handle with 7X7mm square spindle.
- Operating angle 90°.
- Locking pins stroke distance 16mm
- Equipped with mushroom locking pin CAM-C (default).

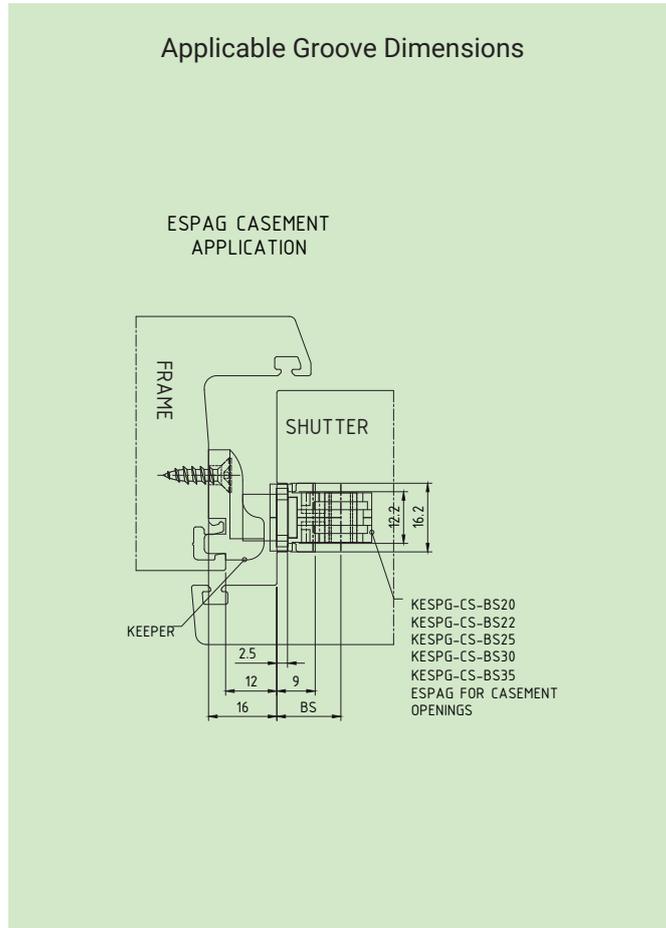
Sliding System Espags with Fixed Length Front Plate and Connection Rod

#	Art. Code	BS (mm)	L (mm)	HH (mm)	CC (mm)	Locking pins qty.
1	KESPG-SL-BSXX-L280	XX	280	140	N/A	2
2	KESPG-SL-BSXX-L400	XX	400	200	N/A	2
3	KESPG-SL-BSXX-L600	XX	600	300	N/A	2
4	KESPG-SL-BSXX-L800	XX	800	400	N/A	2
5	KESPG-SL-BSXX-L1000	XX	1000	500	N/A </td <td>3</td>	3
6	KESPG-SL-BSXX-L1200	XX	1200	600	N/A	3
7	KESPG-SL-BSXX-L1400	XX	1400	700	N/A	3
8	KESPG-SL-BSXX-L1600	XX	1600	800	N/A	4
9	KESPG-SL-BSXX-L1800	XX	1800	900	N/A	4
10	KESPG-SL-BS15-KCC-L1800	XX	1800	900	92/168	4

Note: Serrated End conection rod can also be provided.



KESPG-CS | Casement System Espags with Fixed Length Front Plate and Connection Rod



FUNCTION

Provides multi-locking application for UPVC, aluminium and wooden casement openings. Key option available for door application.

FINISH

Electroplated, Stainless Steel 304

MATERIAL SPECIFICATION

Gear housing and Gear: ZAMAK

Front Plate & Connection Rod:
 CSGP - Carbon Steel (with electroplated finish)
 SS304 - Stainless steel grade 304.

CODES DESCRIPTION

Art. Code	Details
KESPG-CS-BSXX-LXXX-Y-CSGP	Carbon steel material
KESPG-CS-BSXX-LXXX-Y-SS304	Stainless steel grade material

BSXX - Backsets available in BS20, BS22, BS25, BS30, BS35
 "LXXX" - Front plate length in mm, "Y" - Locking Pin# (default CAM 'C')

Packaging: 30 pcs/box

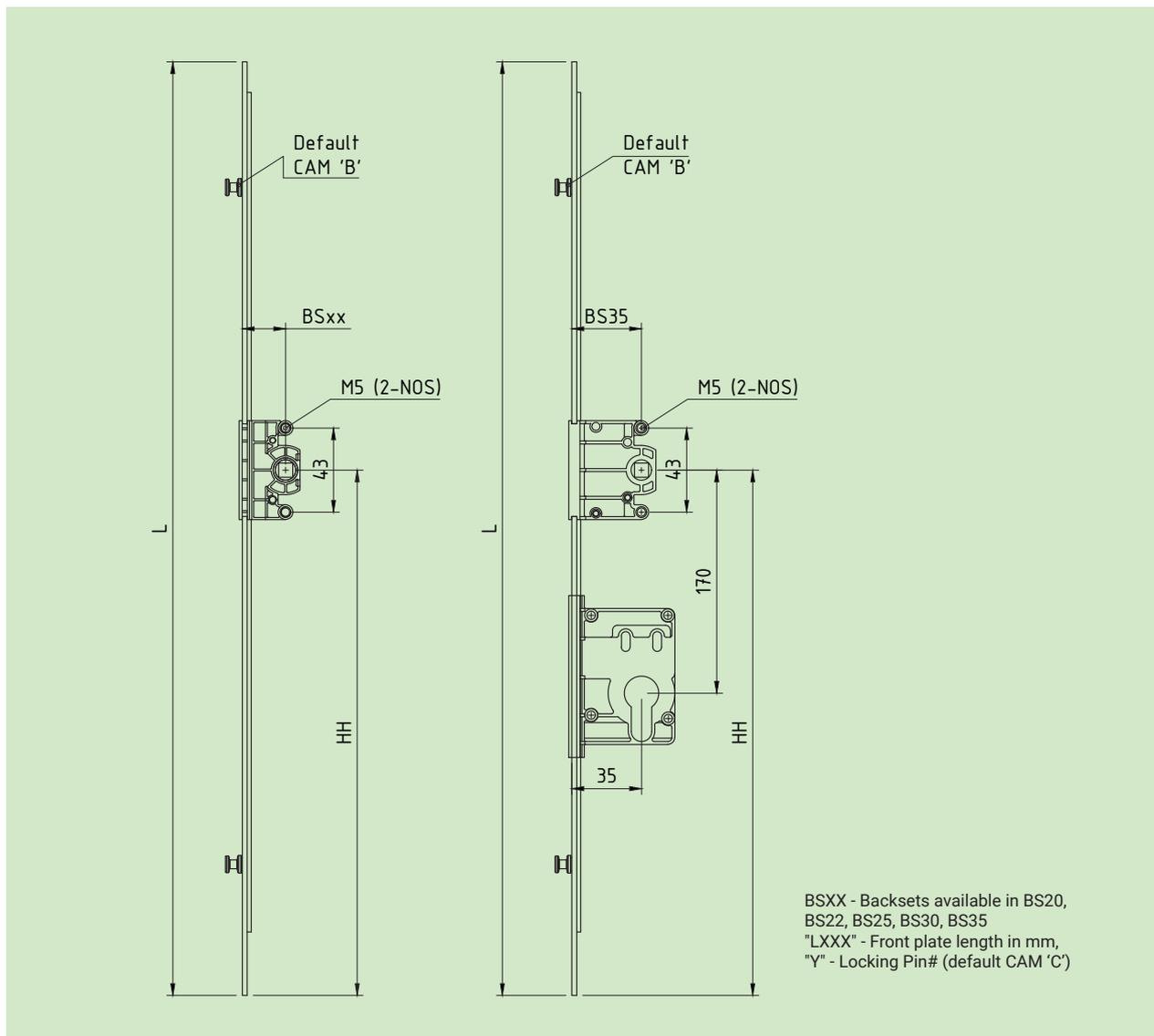
TECHNICAL FEATURES

- Applicable for uPVC, aluminium and wooden sliding frames with 12/16mm groove on sash profile (please see the sketch)
- For aluminium sliding frame adaptors may be required to be used
- Each espagolette could be used on wide range of sash sizes and could provide multi locking facility.
- Operated by single, or double (for doors), lever handle with 7X7mm square spindle.
- Operating angle 90°.
- Locking pins stroke distance 16mm
- Equipped with mushroom locking pin CAM-B (default).

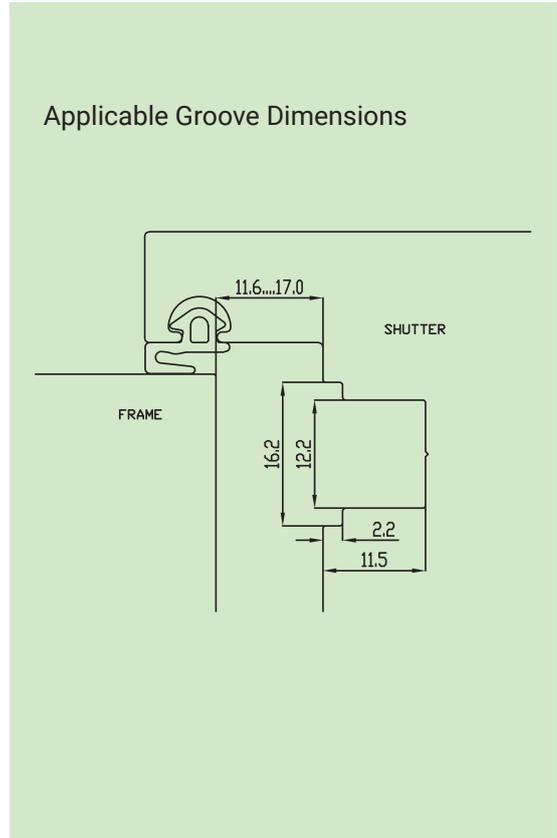
ESPAGS WITH FIXED LENGTH FRONT PLATE AND CONNECTION ROD

#	Art. Code	BS (mm)	L (mm)	HH (mm)	CC (mm)	Locking pins qty.
1	KESPG-CS-BSXX-L280	XX	280	140	N/A	2
2	KESPG-CS-BSXX-L400	XX	400	200	N/A	2
3	KESPG-CS-BSXX-L600	XX	600	300	N/A	2
4	KESPG-CS-BSXX-L800	XX	800	400	N/A	2
5	KESPG-CS-BSXX-L1000	XX	1000	500	N/A	3
6	KESPG-CS-BSXX-L1200	XX	1200	600	N/A	3
7	KESPG-CS-BSXX-L1400	XX	1400	700	N/A	3
8	KESPG-CS-BSXX-L1600	XX	1600	800	N/A	4
9	KESPG-CS-BSXX-L1800	XX	1800	900	N/A	4
10	KESPG-CS-BS35-KCC-L1800	XX	1800	900	170	4

Note: Serrated End conection rod can also be provided.



KESPG-EXT I Extension Rod



FUNCTION

Provides additional locking points for UPVC, or wooden, sliding and casement opening.

FINISH

Stainless Steel 304

MATERIAL SPECIFICATION

Gear housing and Gear: ZAMAK

Front Plate & Connection Rod:
 CSGP - Carbon Steel (with electroplated finish)
 SS304 - Stainless steel grade 304.

CODES DESCRIPTION

Art. Code	Details
KESPG-EXT-LXXXX-Y-SS304	Stainless steel grade material

"XXXX" - Front plate length in mm "Y" - Locking Pin#

TECHNICAL FEATURES

- Applicable for uPVC and wooden sliding and casement opening with 12/16mm groove on sash profile (please see the sketch)
- Each extension could be used on wide range of sash sizes to provide additional locking points.
- One end could be connected with espag, or other extension, to add locking points for sliding and casement openings.
- Locking pins stroke distance 16mm
- Equipped with default locking pin:CAM-F
- To be used with suitable for frame and locking pin strikers, depends on the applied pins and frame profile design.
- Recommended for multi-locking and perimeter locking facilities for the openings, like:
 - o Sliding doors and windows;
 - o Inward and outward operable side hung doors
 - o Top and bottom hung windows;and windows.

Packaging: 30 pcs/box

Locking Solutions & Accessories >> Espagnolettes

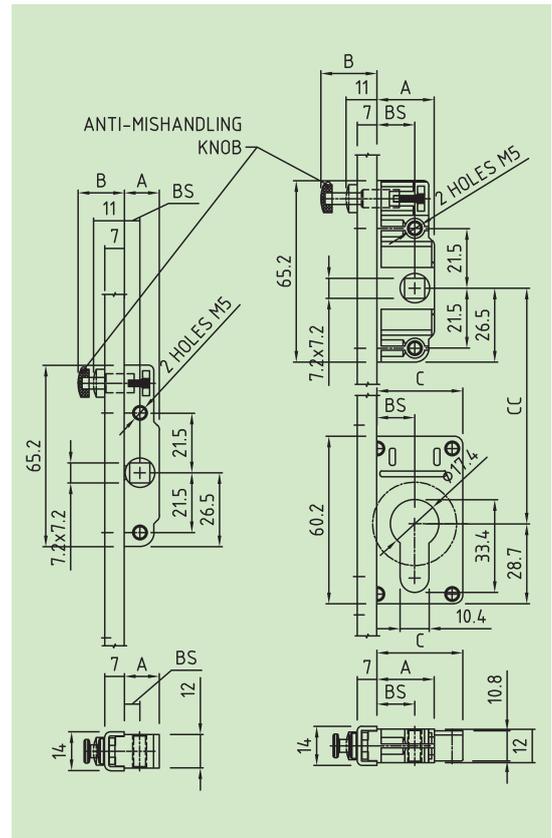
Extension ROD

#	Art. Code	L(mm)	Extendible	Locking pins qty.	Function
1	KESPG-EXT-L155	155	No	1	Only to maintain additional locking point
2	KESPG-EXT-L300	300	Yes	1	To maintain additional locking point and connect with next device
1	KESPG-EXT-L330	330	Yes	0	Only to connect with next device. Cut-off front plate and serrated connection plate
1	KESPG-EXT-L400	400	Yes	1	To maintain additional locking point and connect with next device
1	KESPG-EXT-L600	600	Yes	1	To maintain additional locking point and connect with next device

C-Shaped Front Plate Espagnolettes

Provides multi-point locking application for Non-Groove / Flat Fixing Profile Shutters.

- Available in BS5.5 & 13.5mm backset
- Lengths available 650mm / 1150mm 1600mm /1800mm.
- Customization with locking pins offered as required.
- Available in Stainless Steel 304 grade options.
- Available in Anti-mishandling feature



Gear Box Dimensions	BS, mm	A, mm	B, mm	C, mm	CC, mm
KESPG-NE-SL-BS5.5	5.5	12.5	16.5	N/A	N/A
KESPG-NE-SL-BS13.5	13.5	20.5	20.0	N/A	N/A
KESPG-NE-SL-BS13.5-KL	13.5	20.5	20.0	30.7	200

Product Details for KESPG-NE-SL-BS5.5 / KESPG-NE-SL-BS13.5

Item Code	L, mm	HH, mm	LOCKING PIN
KESPG-NE-SL-BSxx-yy-MD-L650	650	325	2
KESPG-NE-SL-BSxx-yy-MD-L1150	1150	575	3
KESPG-NE-SL-BSxx-yy-MD-L1600	1600	800	4
KESPG-NE-SL-BSxx-yy-MD-L1800	1800	800	4

Product Details for KESPG-NE-SL-BS13.5-KL

Item Code	L, mm	HH, mm	LOCKING PIN
KESPG-NE-SL-BS13.5-KL-yy-MD-L1150	1150	575	3
KESPG-NE-SL-BS13.5-KL-yy-MD-L1600	1600	800	4
KESPG-NE-SL-BS13.5-KL-yy-MD-L1800	1800	800	4

xx - Backset, yy - Cam Type, MD - Anti-Mishandling Device

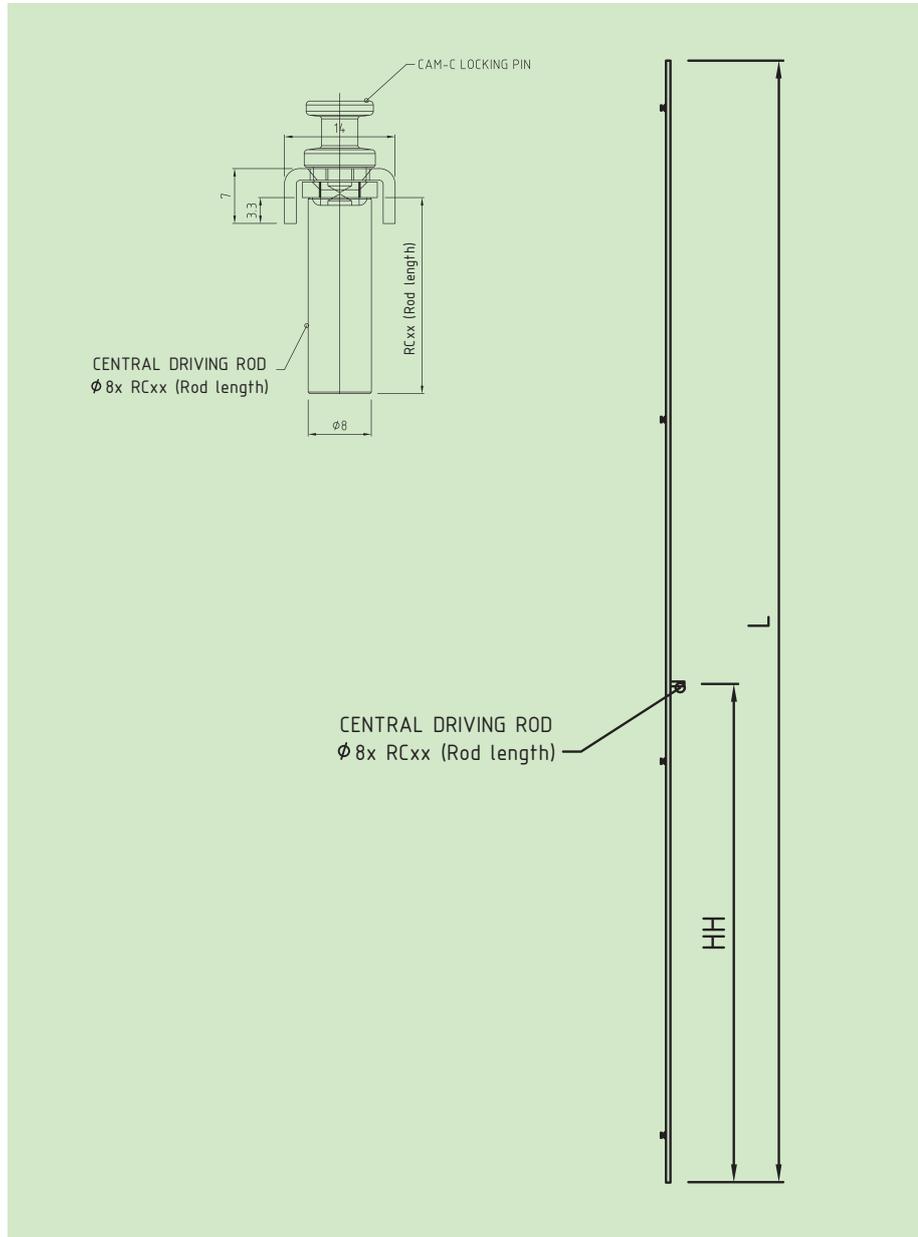
Packaging: 30 pcs/box

KESPG-NE-SL-MISC-RC

Connector Rod Espagnolette
(without gear box)



KESPG-NE-SL-MISC-RC

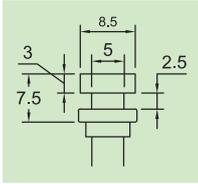
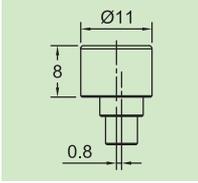
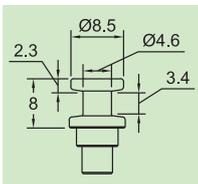
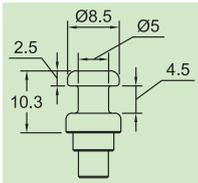
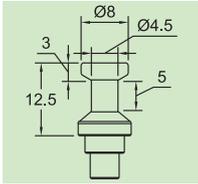
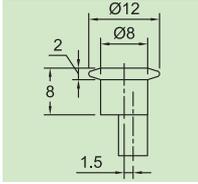
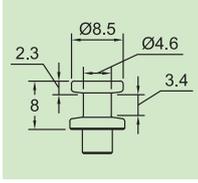
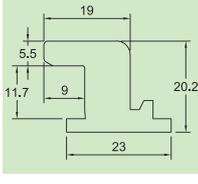


Item Code	L, mm	HH, mm	Locking Pins No.
KESPG-NE-SL-MISC-RCxx-yy-L650	650	325	2
KESPG-NE-SL-MISC-RCxx-yy-L1150	1150	575	3
KESPG-NE-SL-MISC-RCxx-yy-L1600	1600	800	4
KESPG-NE-SL-MISC-RCxx-yy-L1800	1800	800	4

xx - Rod Connector Length, yy - Cam Type

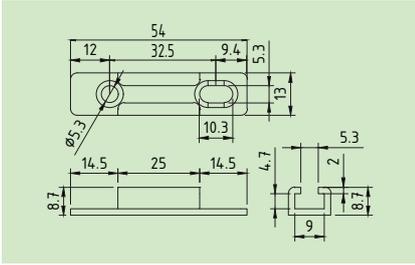
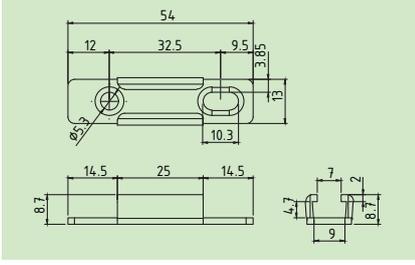
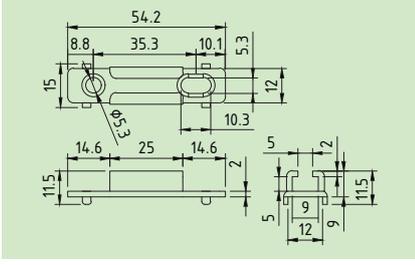
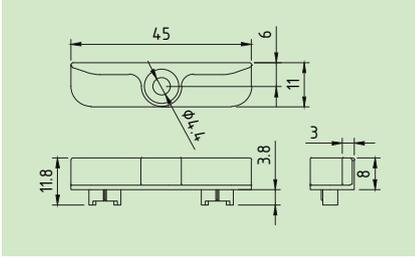
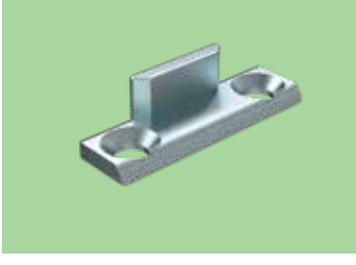
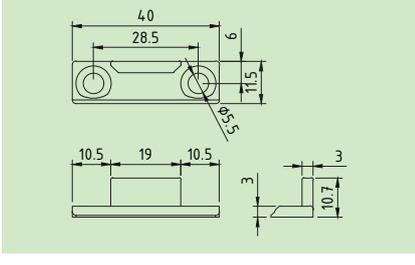
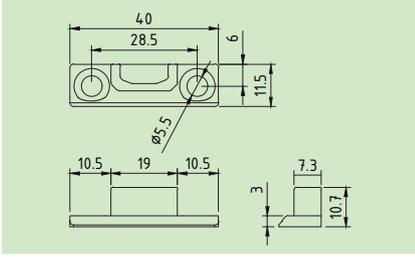
Packaging: 30 pcs/box

CAMs and Keepers Compatibility Table

CAM #	Product	Dimensional Sketch	Material Specification	Compatible Keeper
A			ZAMAK	KMI-KPR-01, KMI-DCK-KPR-01, KESPG-CS-KPR-08, KESPG-CS-KPR-08-V1, KESPG-CS-KPR-12, KESPG-CS-KPR-13
B			Carbon Steel / SS 304	KESPG-CS-KPR-01, KESPG-CS-KPR-02, KESPG-CS-KPR-03, KESPG-CS-KPR-04, KESPG-CS-KPR-05, KESPG-CS-KPR-07, KESPG-CS-KPR-11
C			Carbon Steel / SS 304	KMI-KPR-01, KMI-DCK-KPR-01, KESPG-CS-KPR-08, KESPG-CS-KPR-08-V1, KESPG-CS-KPR-12, KESPG-CS-KPR-13
D			Carbon Steel / SS 304	KMI-KPR-01, KMI-DCK-KPR-01, KESPG-CS-KPR-08, KESPG-CS-KPR-08-V1, KESPG-CS-KPR-12, KESPG-CS-KPR-13
E			Carbon Steel / SS 304	KMI-KPR-01, KMI-DCK-KPR-01, KESPG-CS-KPR-08, KESPG-CS-KPR-08-V1, KESPG-CS-KPR-12, KESPG-CS-KPR-13
F			SS 304	KESPG-CS-KPR-10
I			SS 304	KMI-KPR-01, KMI-DCK-KPR-01, KESPG-CS-KPR-08, KESPG-CS-KPR-08-V1, KESPG-CS-KPR-12, KESPG-CS-KPR-13
SHK			SS 304	AC-CP-01 KELMISC00045

Locking Solutions & Accessories >> Espagnolettes

Keepers

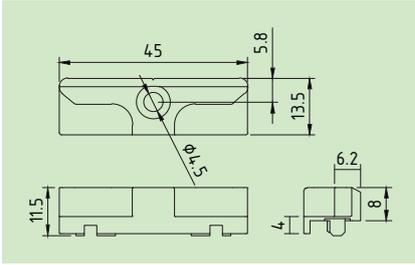
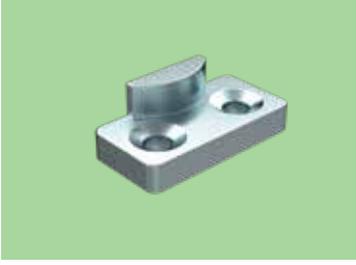
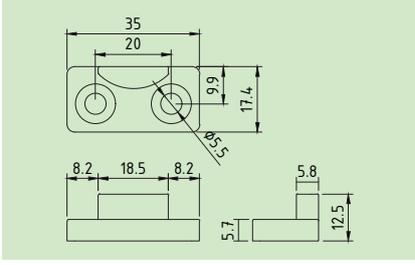
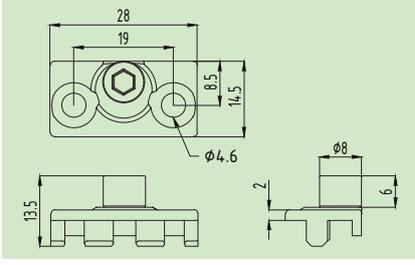
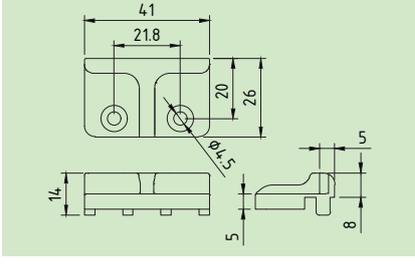
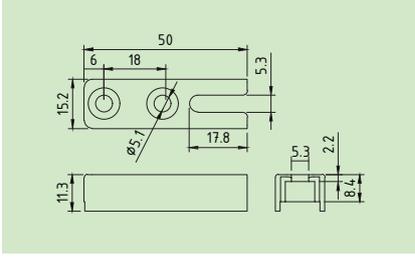
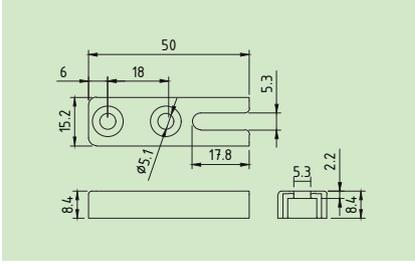
Keeper #	Product	Drawing	Material Specification
KMI-KPR-01			KMI-KPR-01-CSGP: Carbon Steel KMI-KPR-01-SS304: Stainless Steel 304
KMI-KPR-01-V1			KMI-KPR-01-CSGP: Carbon Steel KMI-KPR-01-SS304: Stainless Steel 304
KMI-DCK-KPR-01			KMI-KPR-01-CSGP: Carbon Steel KPI-KPR-01-SS304: Stainless Steel 304
KESPG-CS-KPR-01			ZAMAK
KESPG-CS-KPR-02			ZAMAK
KESPG-CS-KPR-03			ZAMAK

Packaging: 500 pcs/box

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All dimensions above are in mm

Keepers

Keeper #	Product	Drawing	Material Specification
KESPG-CS-KPR-04			ZAMAK
KESPG-CS-KPR-05			ZAMAK
KESPG-CS-KPR-06			ZAMAK with Stainless Steel 304 eccentric pin
KESPG-CS-KPR-07			ZAMAK
KESPG-CS-KPR-08			ZAMAK
KESPG-CS-KPR-08-V1			ZAMAK

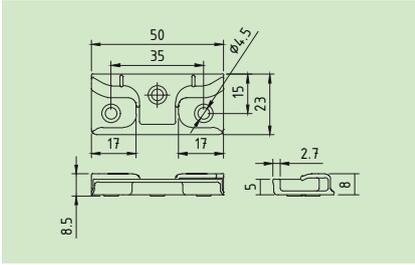
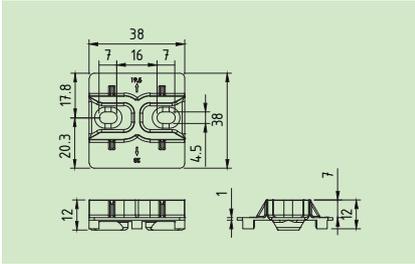
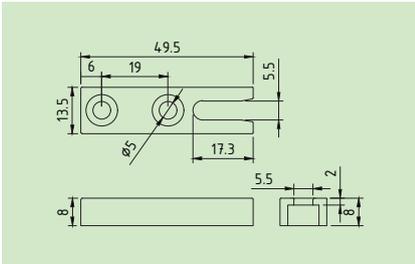
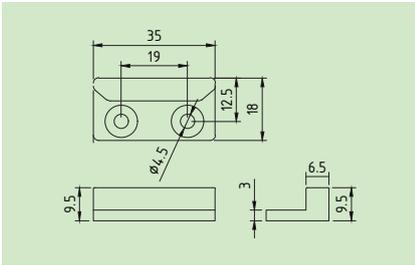
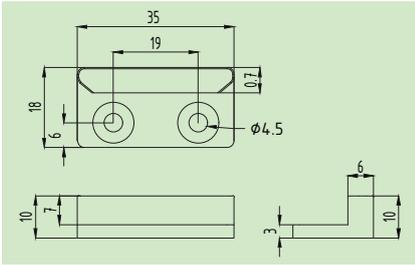
Packaging: 500 pcs/box

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All dimensions above are in mm

Locking Solutions & Accessories >> Espagnolettes

Keepers

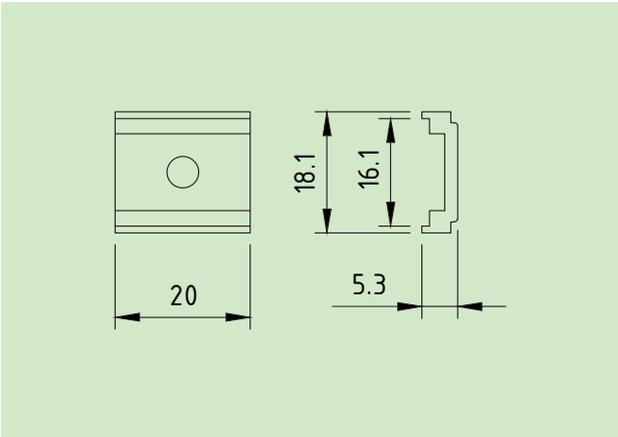
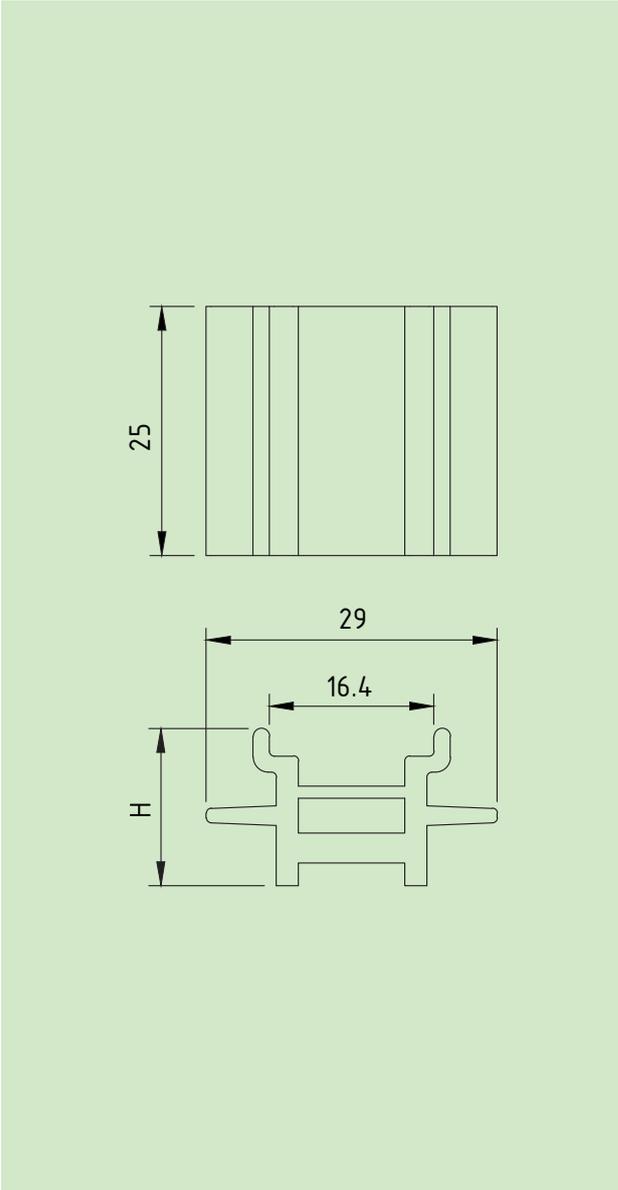
Keeper #	Product	Drawing	Material Specification
KESPG-CS-KPR-10			ZAMAK
KESPG-CS-KPR-11			ZAMAK
KESPG-CS-KPR-13			ZAMAK
KESPG-CS-KPR-14			ZAMAK
KESPG-CS-KPR-14-V2			ZAMAK

Packaging: 500 pcs/box

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All dimensions above are in mm

Shutter Adapters



Shutter Adapters

FUNCTION

Polyamide adapters used to fix espags on aluminium sliding sash profiles to provide multi-locking facilities.

FINISH

Black

MATERIAL SPECIFICATION

Polyamide

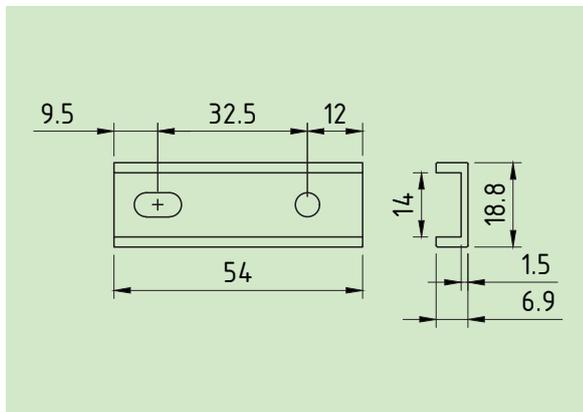
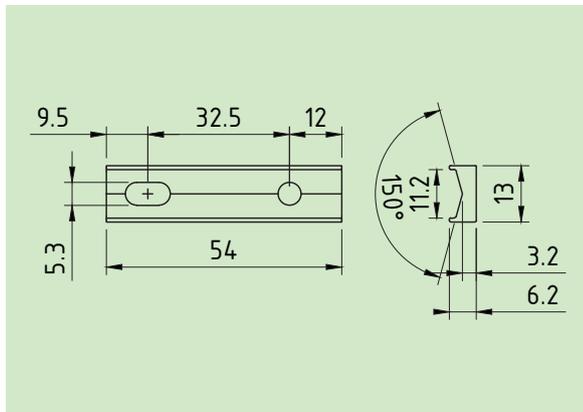
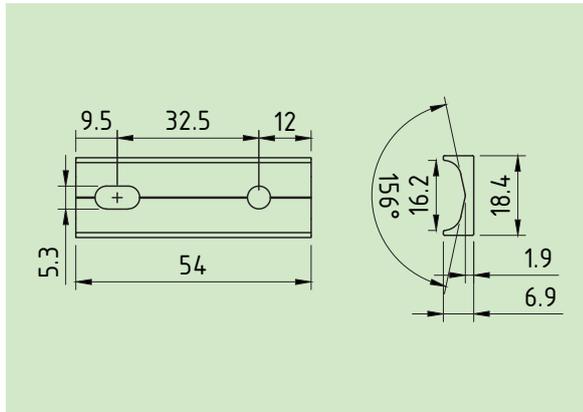
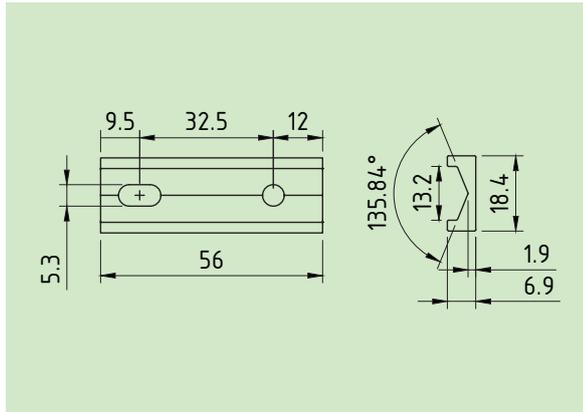
TECHNICAL FEATURES

- Applicable for suitable aluminium sliding frames to fix espags to aluminium sash profile.
- To be used with the following espag slidings: KESPG-SL-BS2.5, KESPG-SL-BS7.5, KESPG-SL-BS14, and KESPG-SL-BS15.
- Recommended for multi-locking applications of the aluminium sliding doors and windows with suitable sash design.

Art. Code	H (mm)
KESPG-MI-03	24.5
KESPG-MI-04	15.8
KESPG-MI-05	13.5
KESPG-MI-07	17.8

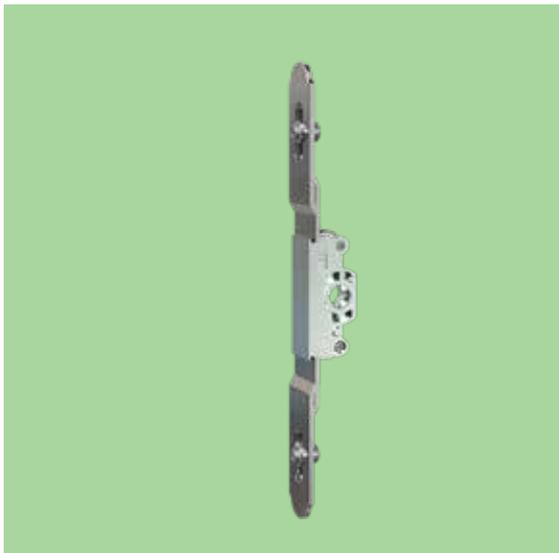
Packaging: 500 pcs/box

Frame Spacers



Packaging: 500 pcs/box

KGRM I Uni-directional Gear Mechanism



FUNCTION

Uni-directional locking mechanism developed for hollow aluminium, or steel, profiles, where other locking devices are not applicable.

FINISH

SS304

PARTS

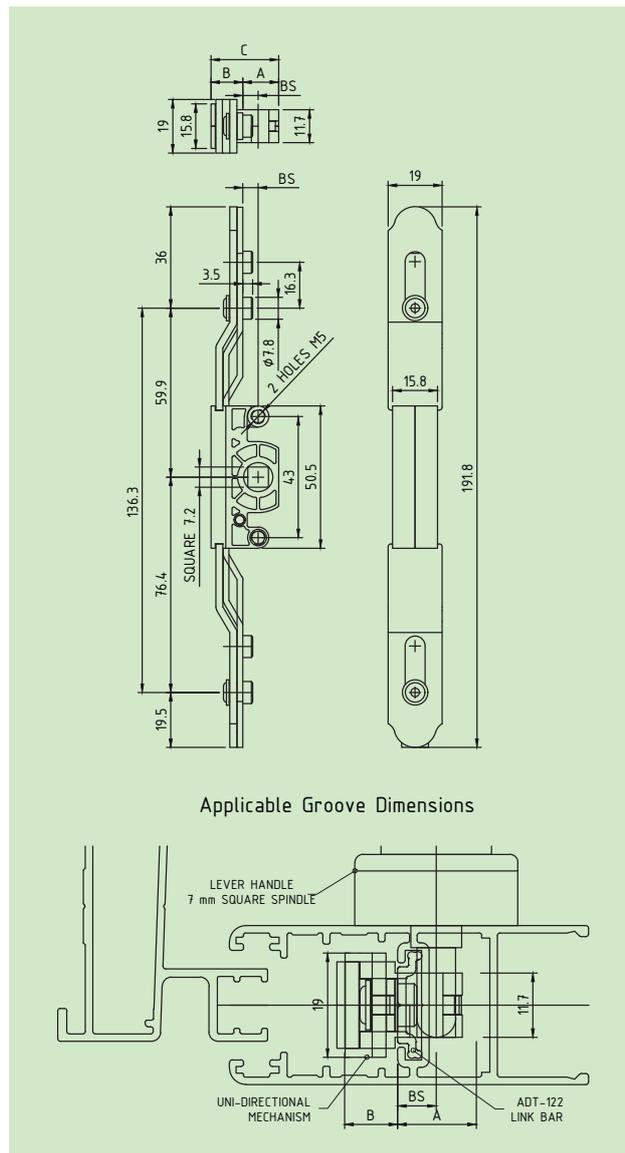
- Front Plate and Connection Rod
- Gear Housing and Gear
- Spacer

MATERIAL SPECIFICATION

Gear housing and Gear: ZAMAK
SS304 - Stainless steel grade 304

TECHNICAL FEATURES

Uni-directional / gear mechanism developed for locking control of sliding / casement aluminium frames with Euro groove, as alternative to cremone bolts. Used along with Euro groove link bars and lever handles with 7 mm square spindles.



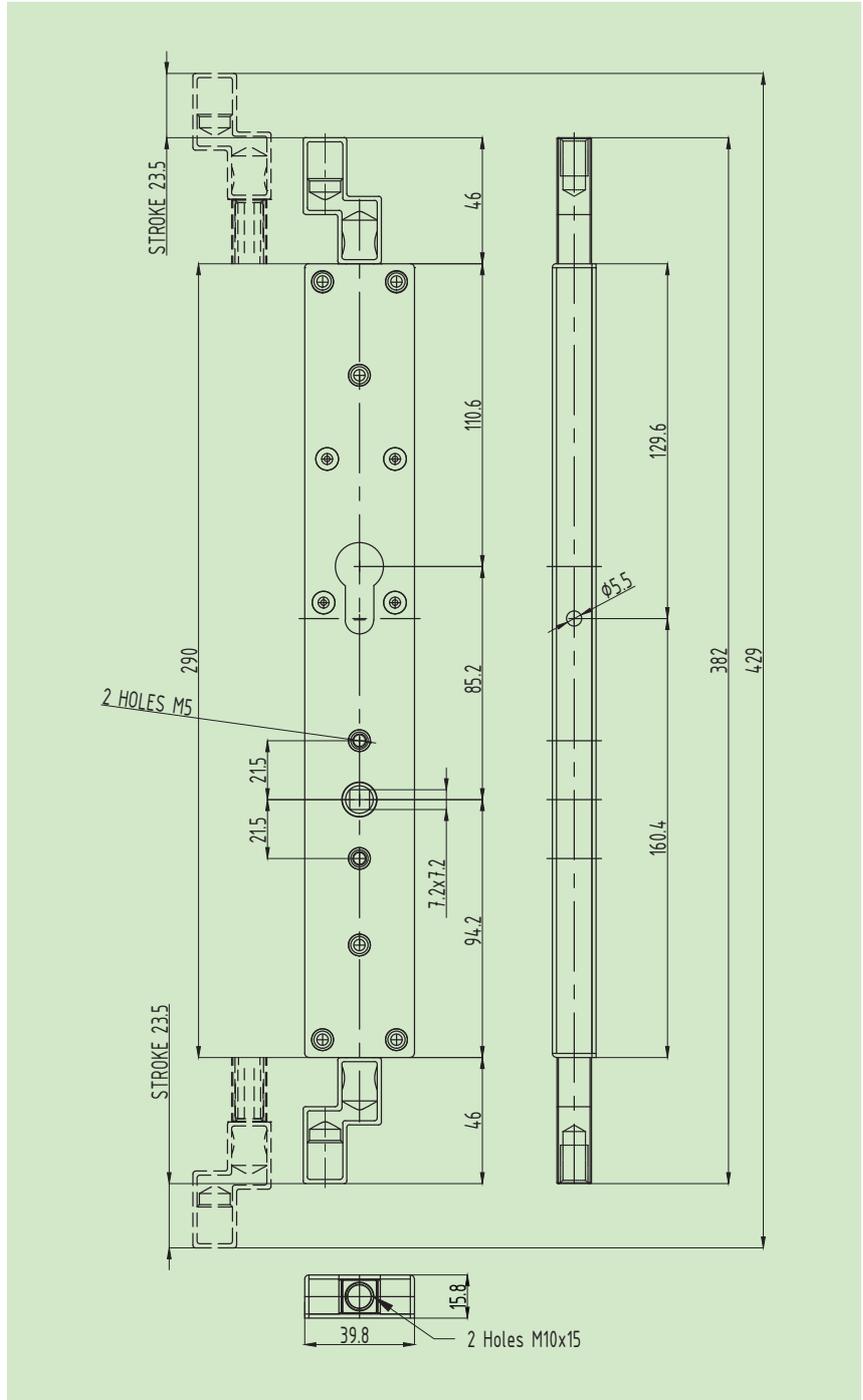
PRODUCT DETAILS

Product Code	BS	A (mm)	B (mm)	C (mm)
KGRM-01	4.4	11.7	11	22.7
KGRM-02	9.3	16.6	6.7	23.3
KGRM-03	11.7	19.0	6.7	25.7
KGRM-04	22.5	30.2	6.8	37.0
KGRM-05	12.9	25.5	6.8	32.3

Packaging: 100 pcs/box

KLO-05 I Shootbolt Mechanism

Bi-directional locking mechanism developed for hollow aluminium or steel profiles where other locking devices are not applicable. Provides two locking points for casement / sliding doors and windows openings by customized length Ø10 mm steel locking rods.

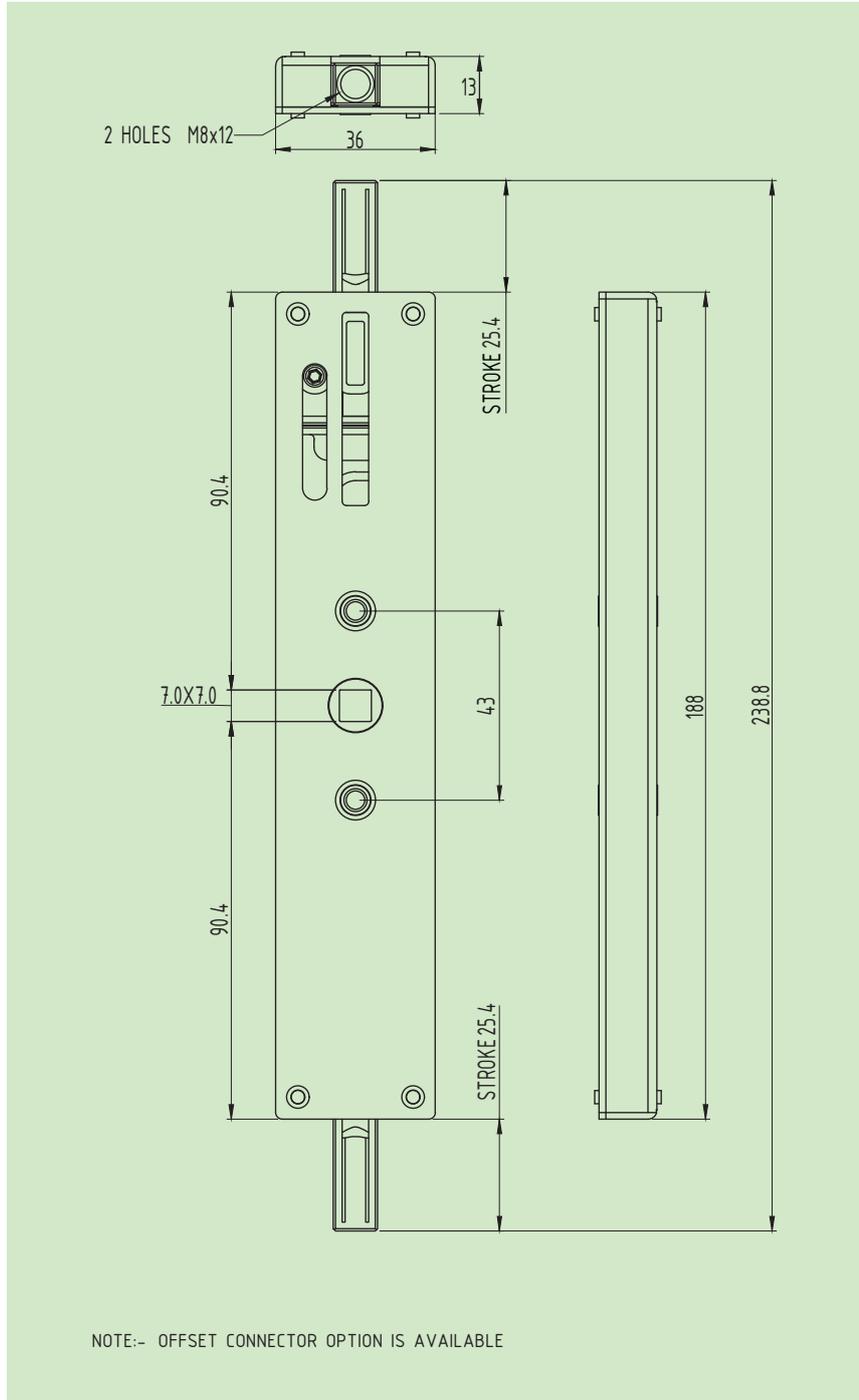


Packaging: 100 pcs/box

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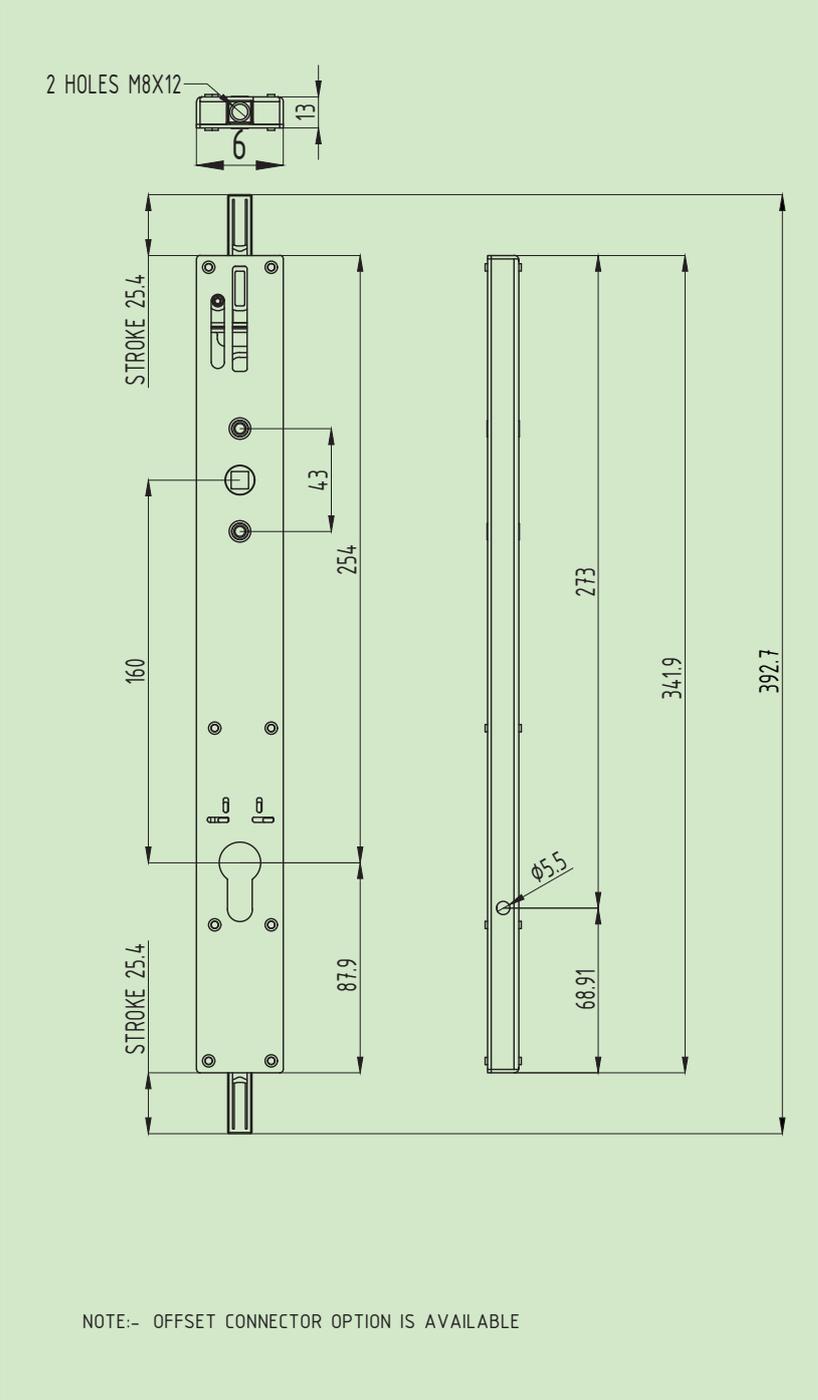
All dimensions above are in mm

KLO-06 I Shootbolt Mechanism



Packaging: 100 pcs/box

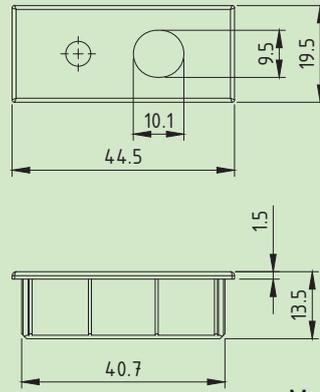
KLO-06-KL I Shootbolt Mechanism



Packaging: 100 pcs/box

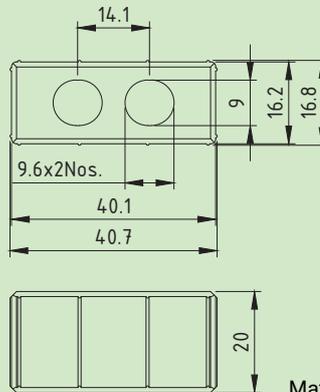
Miscellaneous Accessories

KLO-06-CMHW-12



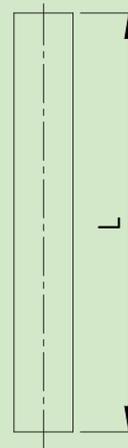
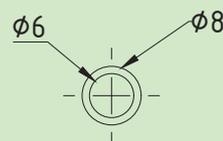
Material : Polyamide

KLO-06-CMHW-07



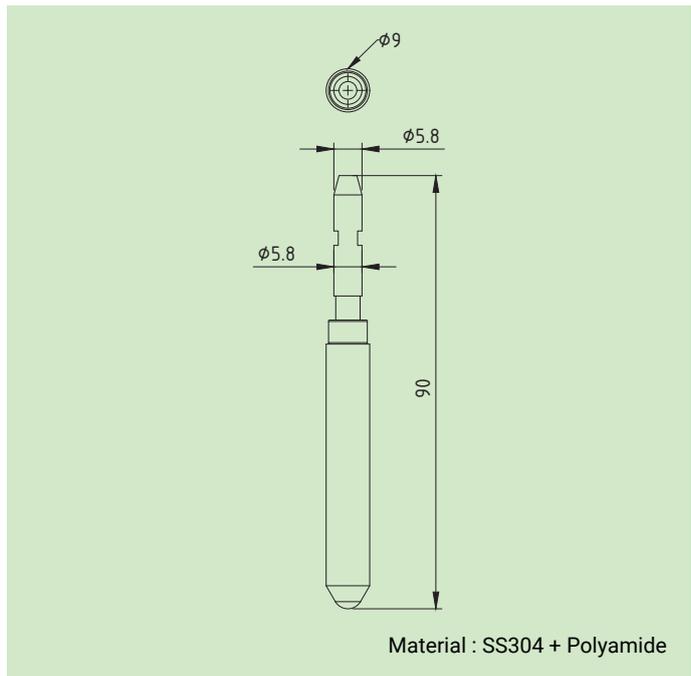
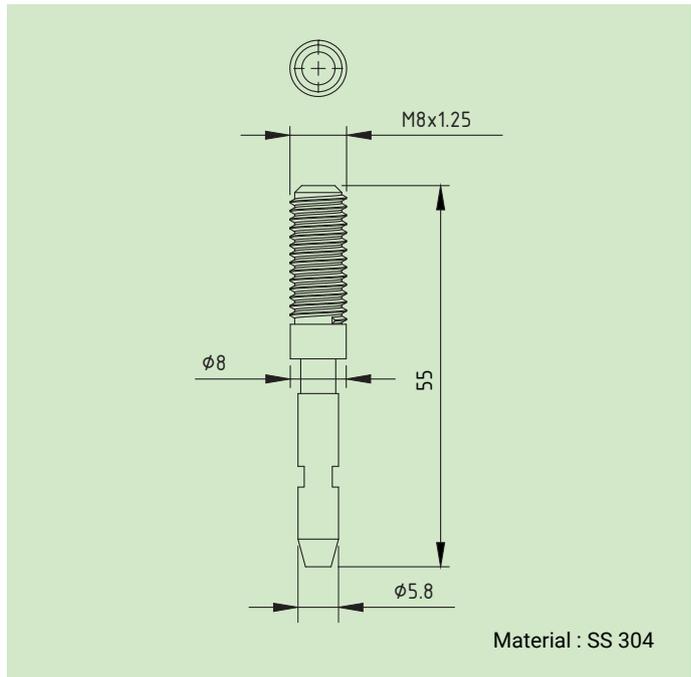
Material : Polyamide

KLO-06-CMHW-09



Material : Mild Steel

Miscellaneous Accessories



Note: Customized Shootbolt Mechanism Accessories can also be developed as per requirements.

KMI-KV-DRL-00 | Bi-directional Locking Mechanism



FUNCTION

Bi-directional locking mechanism developed for hollow aluminium, or steel, profiles, where other locking devices are not applicable. Provides two locking points for casement doors and windows openings by customized length Ø10 mm steel locking rods.

FINISH

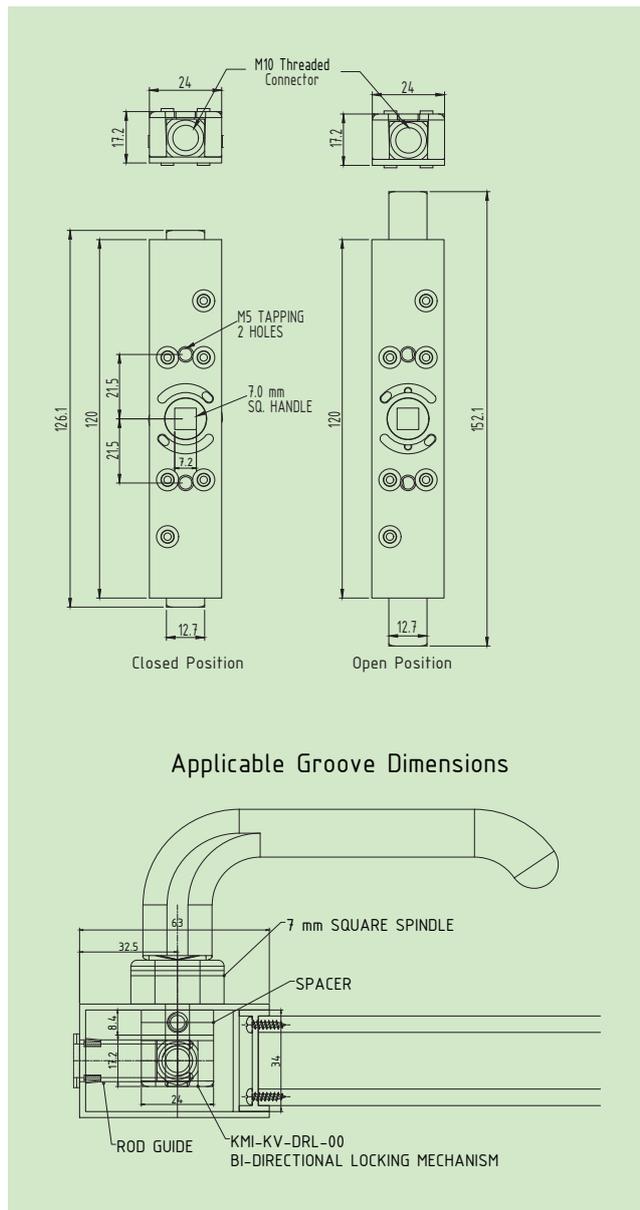
Electroplated

MATERIAL SPECIFICATION

Carbon steel;
ZAMAK;
Polyamide customized parts.

TECHNICAL FEATURES

- Applicable for aluminium, or steel casement frames with hollow profiles.
- Designed for concealed fixation inside the hollow sash profile. Customized Polyamide spacers for fixation could be developed as per request.
- Operated by single (or double) lever handle with 7x7 mm square spindle.
- Provides two locking points using two customized length Ø10 mm steel locking rods. Could be supplied with customized Polyamide rod guides. Mechanism slide blocks have M10 threaded holes to connect with Ø10 mm steel locking rods threaded ends.



Applicable Groove Dimensions

- Bi-directional stroke distance of slide blocks: 13 mm.
- Stroke achieved for 90° movement.
- Recommended for aluminium, or steel casement doors and windows with hollow profiles design, where other locking devices are not applicable.

Packaging: 100 pcs/box

DLK-CW-02 | Window Locking Mechanism



FUNCTION

Window locking mechanism developed as alternative solution to cremone bolts for aluminium top hung windows with 15/20 mm groove on sash profile. Provides progressive movement of connection rods inside sash groove to control locking devices.

FINISH

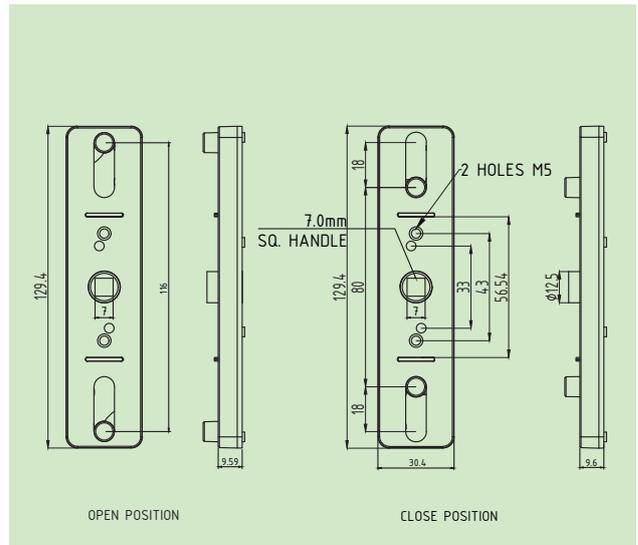
Electroplated

MATERIAL SPECIFICATION

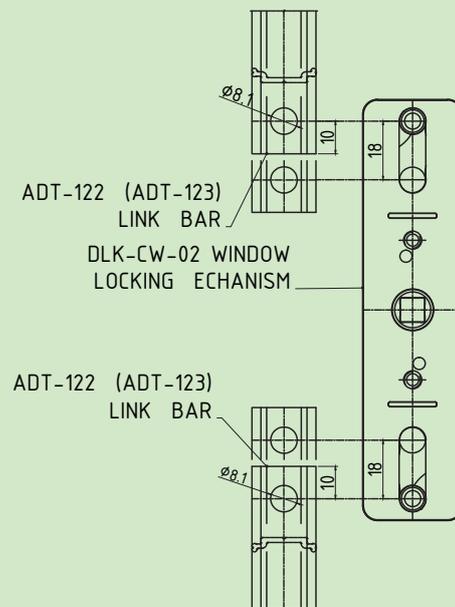
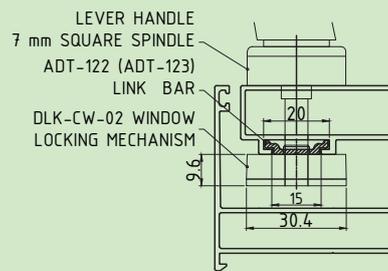
ZAMAK

TECHNICAL FEATURES

Window locking mechanism developed as alternative solution to cremone bolts for aluminium top hung windows with 15/20 mm groove on sash profile. Provides progressive movement of connection rods inside sash groove to control locking devices.



Application Groove Dimensions



Packaging: 100 pcs/box

KCD-02 | Corner Transmission for Perimeter Locking



FUNCTION

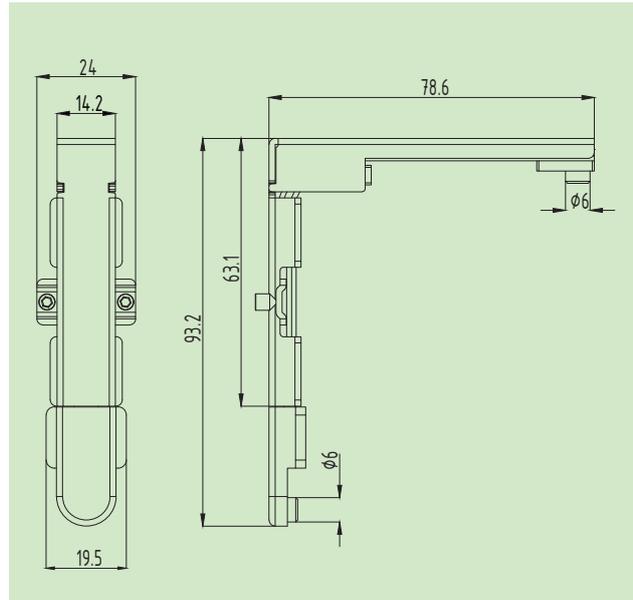
Corner transmission ensures the connection and progressive movement of the connecting rods through the corners of the sash profile, which allows the use of a multi-locking system around the perimeter of the sash.

FINISH

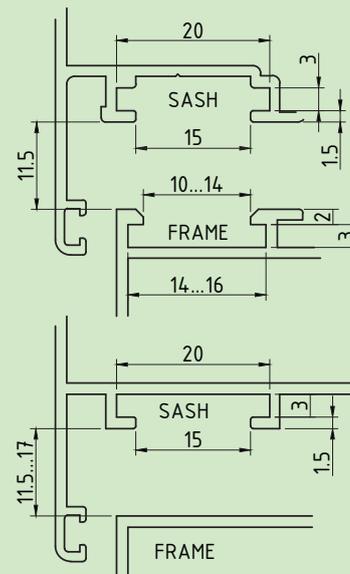
Stainless Steel 304 grade

MATERIAL SPECIFICATION

ZAMAK; Steel parts options: SS304 - Stainless Steel grade 304.



Applicable Groove Dimensions



TECHNICAL FEATURES

- Applicable for aluminium casement frames with 15/20 mm groove on sash profile (please see the sketch). To be used with suitable for 15/20 mm groove connection rods (aluminium extruded or polyamide) along with adjustable eccentric locking pins AC-04 and suitable for frame strikers, AC-05, or other, depends on the frame profile design.
- Recommended for perimeter multi-locking application of the different types of the aluminium casement openings, like:
 - Inward and outward operable side hung windows and doors;
 - Top and bottom hung windows;
 - Pivot windows;
 - Tilt and turn windows;
 - Tilt and slide windows.

Packaging: 100 pcs/box

KCD-03 | Corner Transmission for Perimeter Locking



FUNCTION

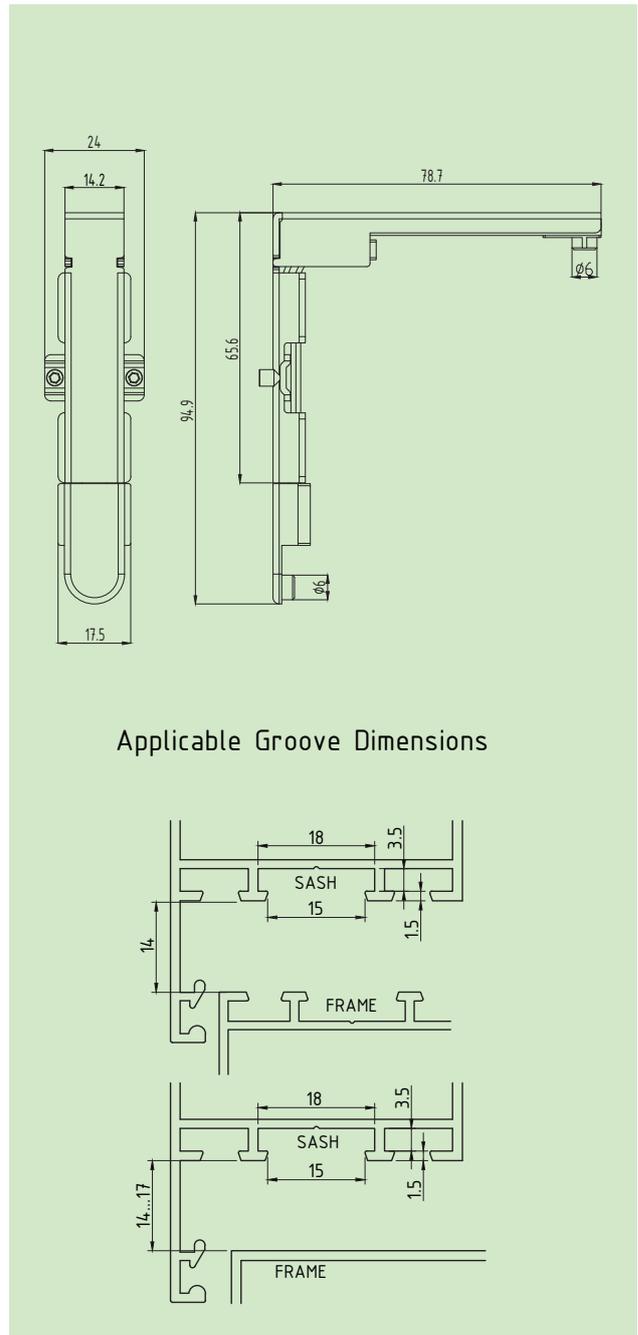
Corner transmission ensures the connection and progressive movement of the connecting rods through the corners of the sash profile, which allows the use of a multi-locking system around the perimeter of the sash.

FINISH

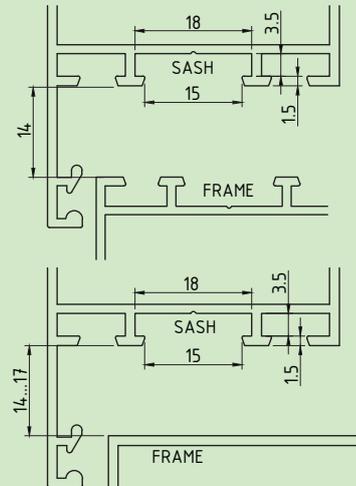
Stainless Steel 304 grade

MATERIAL SPECIFICATION

ZAMAK; Steel parts options: SS304 - Stainless Steel grade 304.



Applicable Groove Dimensions



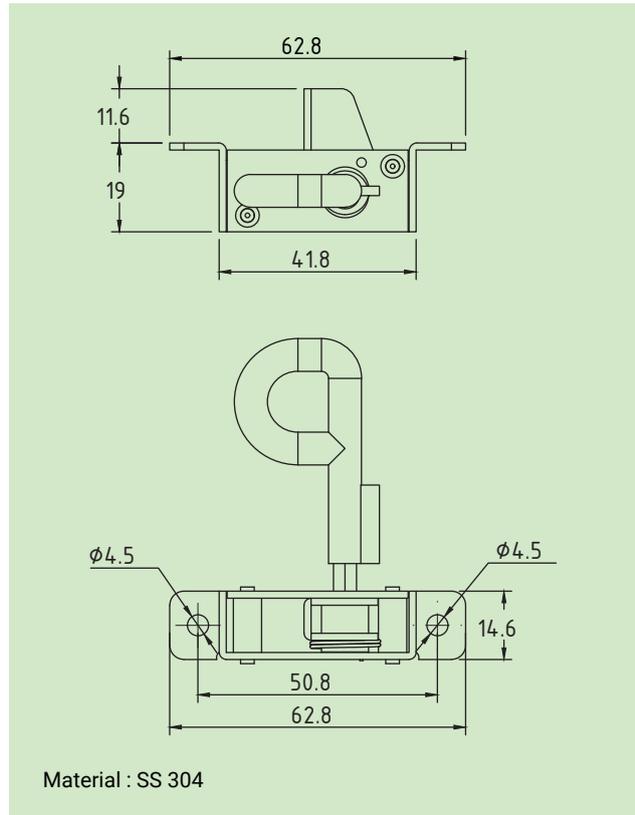
TECHNICAL FEATURES

- Applicable for aluminium casement frames with 15/18 mm groove on sash profile (please see the sketch).
- To be used with suitable for 15/18 mm groove connection rods (aluminium extruded or polyamide) along with adjustable eccentric locking pins AC-04 and suitable for frame strikers, depends on the frame profile design.
- Recommended for perimeter multi-locking application of the different types of the aluminium casement openings, like:
 - Inward and outward operable side hung windows;
 - Top and bottom hung windows;
 - Pivot windows;
 - Tilt and turn windows;
 - Tilt and slide windows.

Packaging: 100 pcs/box

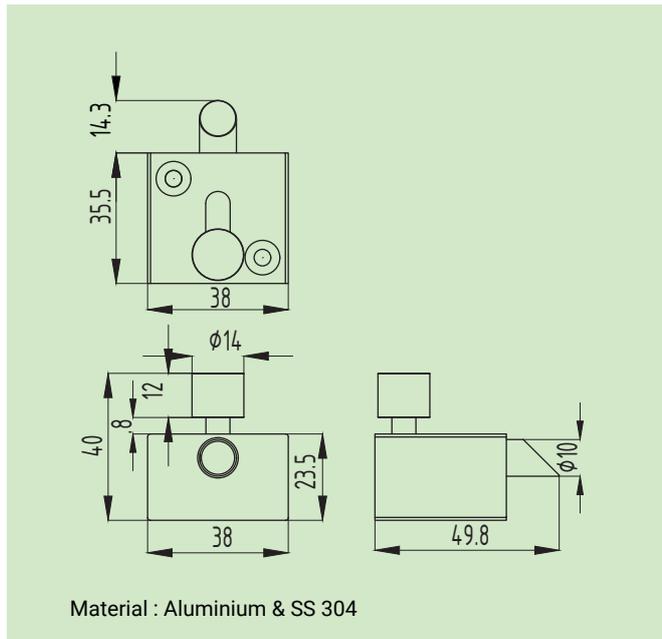
Locking Solutions & Accessories >> Latch Locks

KLO-01 | Latch Lock



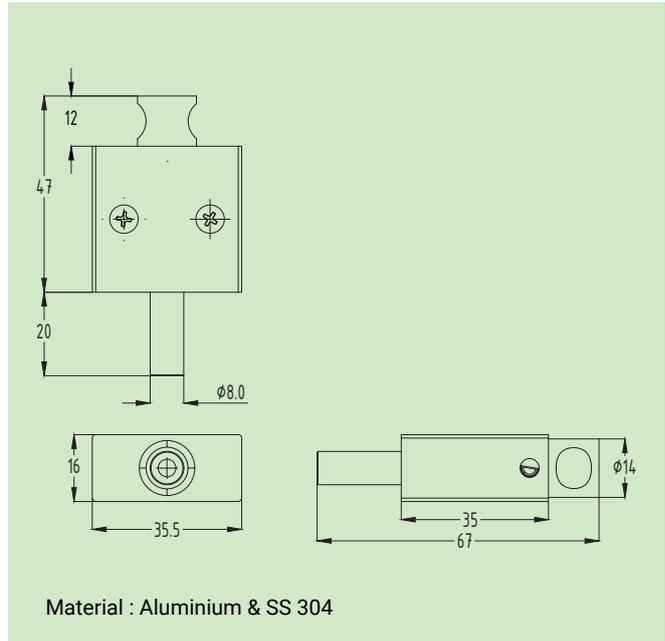
Packaging: 200 pcs/box

KLO-02-A | Latch Lock



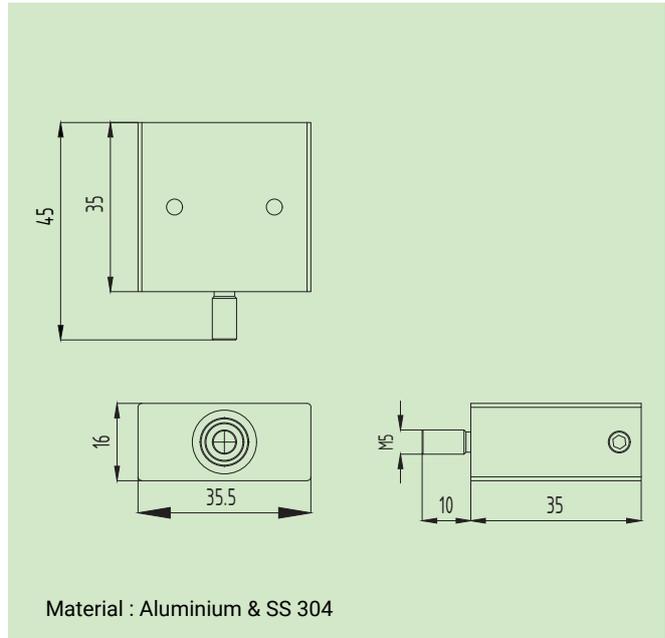
Packaging: 100 pcs/box

KLO-02-B1 | Latch Lock



Packaging: 100 pcs/box

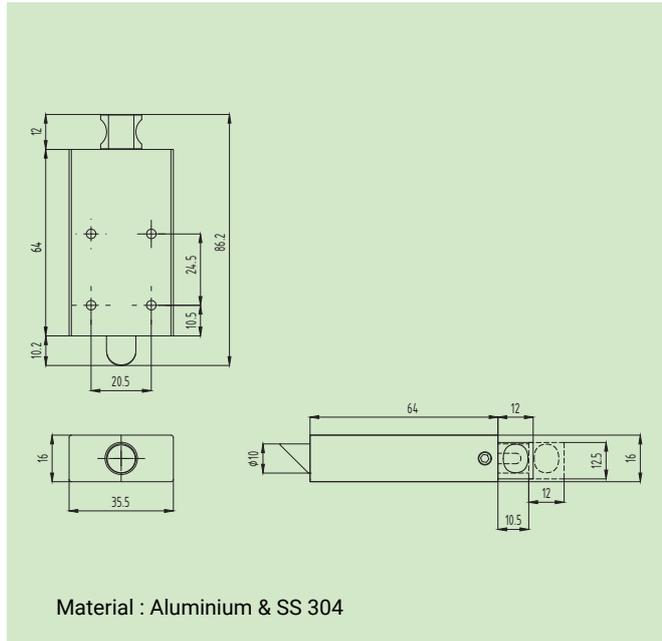
KLO-02-B2 | Latch Lock



Packaging: 100 pcs/box

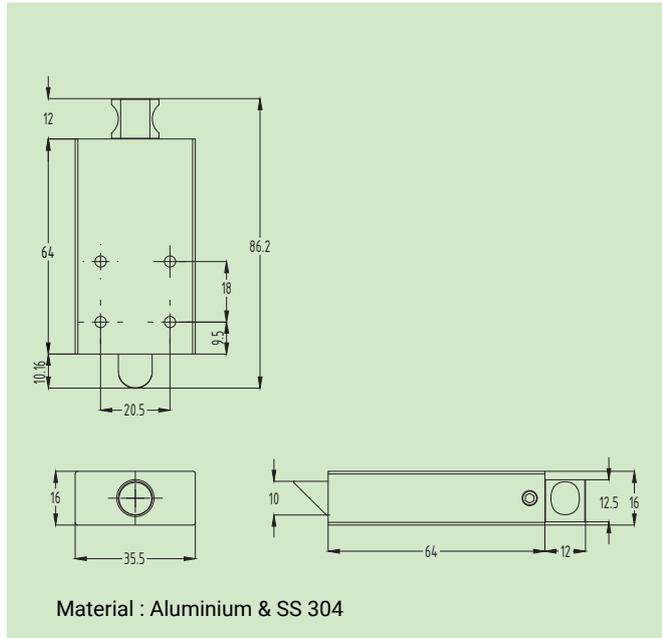
Locking Solution & Accessories >> Latch Locks

KLO-02-C | Latch Lock



Packaging: 100 pcs/box

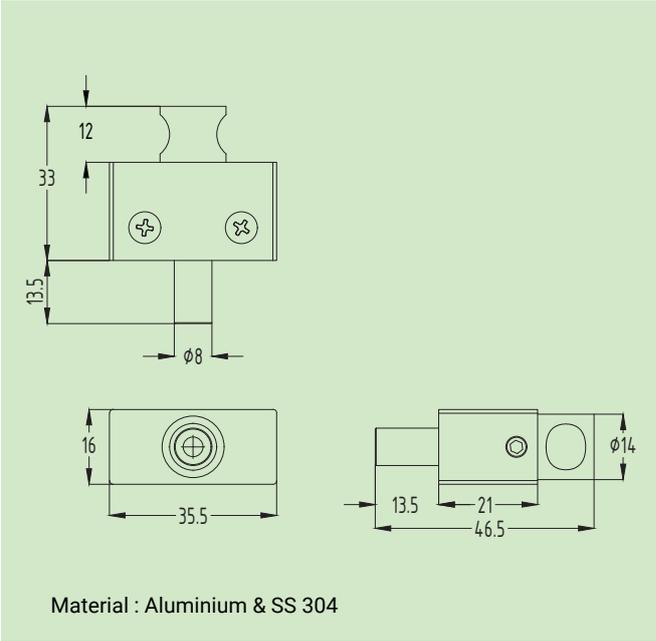
KLO-02-D | Latch Lock



Packaging: 100 pcs/box

Packaging: 20 pcs/box

KLO-02-E I Latch Lock



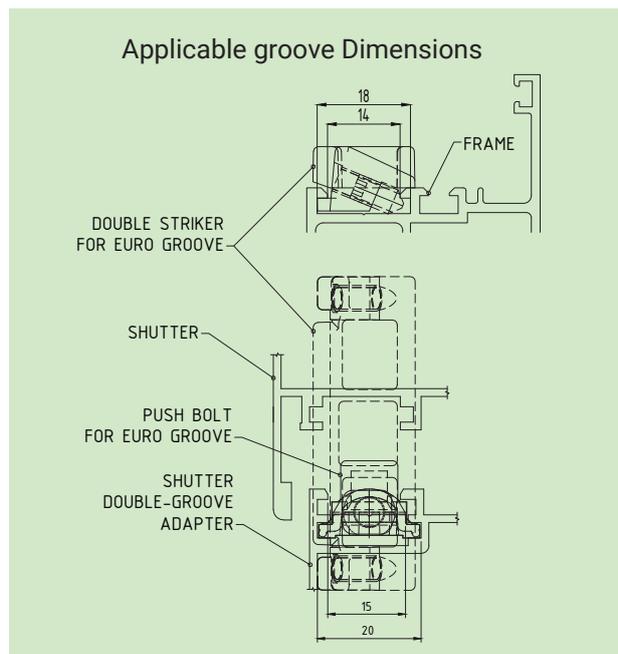
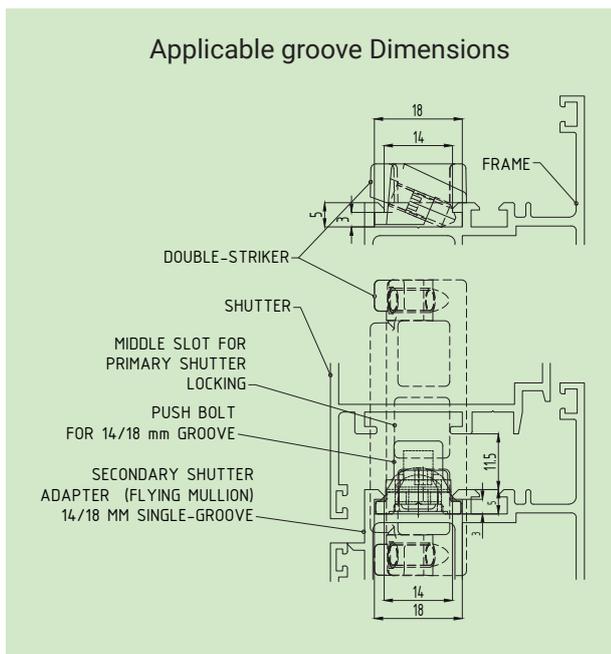
Packaging: 100 pcs/box

KLO-03/04 | Secondary Shootbolt Locks

KLO-03
(For 14/18 Shutter Groove)

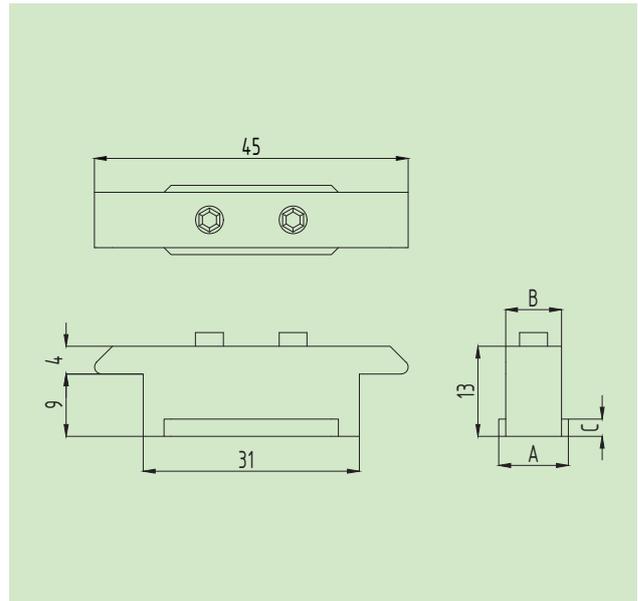


KLO-04
(For 15/20 Shutter Groove)



Packaging: 100 pcs/box

AC-01 | Keeper



FUNCTION

Die-cast ZAMAK keeper to be used with suitable sliding frames as a frame locking part, fixed inside the frame groove by the meaning of two grub screws.

FINISH

Black electroplated

PARTS WITH MATERIAL SPECIFICATION

ZAMAK Body
Carbon steel screws
Hex socket set screws with cup point M4x12
DIN914 -2 nos.

TECHNICAL FEATURES

- Applicable for suitable aluminium sliding frames with concerned groove on frame profile.
- Equipped with two M4x12 DIN914 hex socket set screws with cone point for firm fixation inside the frame profile groove.
- To be used with "hook" type nibs of the sliding embedded handles - as a single point locking, and AC-02 slider with AC-03-V1 nib to maintain multi-locking system.
- Recommended for single point locking and multi-locking applications of the aluminium sliding doors and windows with suitable frame groove.

Item Code	Size (mm)		
	A	B	C
AC-01	10.0	8.0	2.5
AC-01-V1	6.8	3.8	5.0
AC-01-V2	9.3	5.9	2.5
AC-01-V3	7.2	5.9	2.5
AC-01-V4	8.6	5.6	2.5

Packaging: 250 pcs/box

AC-02 / AC-03-V1 | Sliding Nib Holder + Nib



FUNCTION

AC-02 die-cast ZAMAK sliding nib holder along with AC-03-V1 stainless steel nib to be used with suitable aluminium sliding frames with 15/20 mm groove on the sash profile to maintain multi-locking facilities.

FINISH

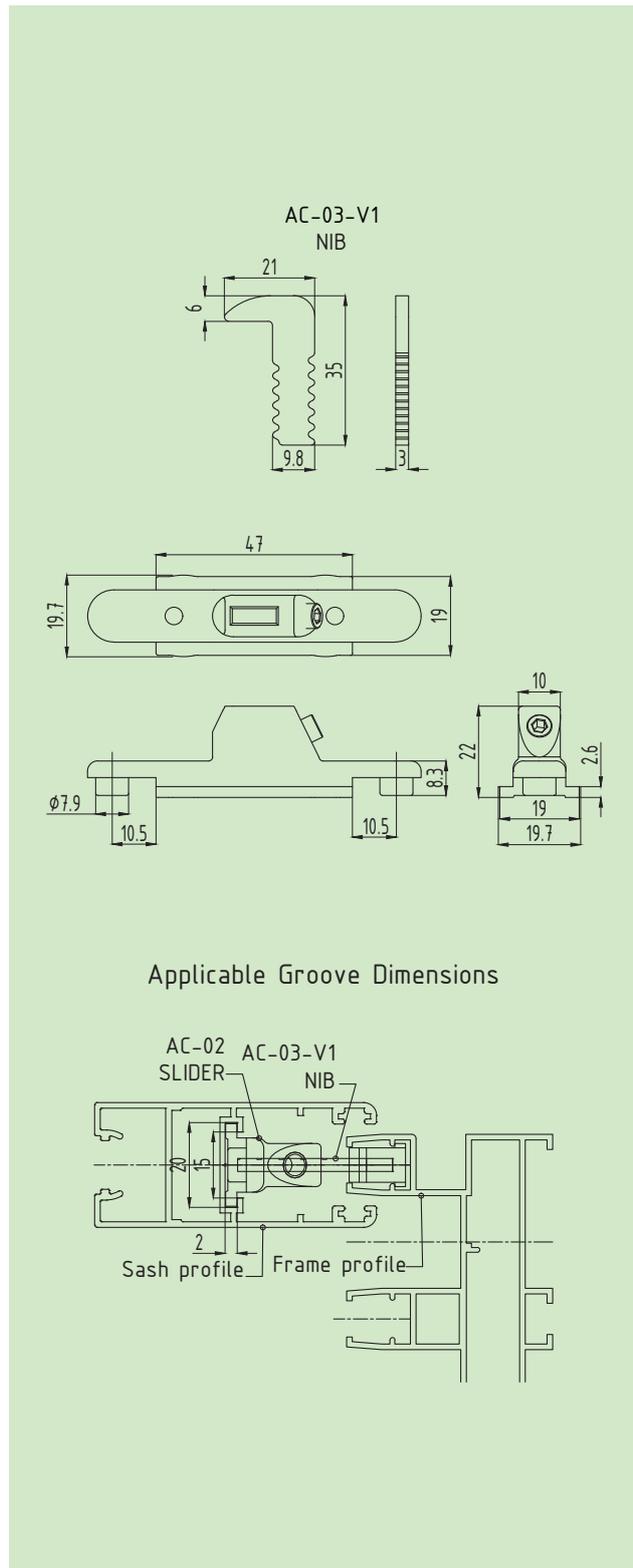
Black electroplated

MATERIAL SPECIFICATION

ZAMAK body
 Stainless steel nib and Carbon steel screw
 Hex socket set screws with cup point M6x10
 DIN914 1 nos.
 Stainless Steel 304, AC-03-V1 nib-1 nos.

TECHNICAL FEATURES

- Applicable for suitable aluminium sliding frames with concerned 15/20 mm groove on sash profile. AC-02 sliding nib holder equipped with one M6x10 DIN914 hex socket set screws with cone point for AC-03-V1 nib adjustment and fixation.
- To be used with AC-01 keepers, or other suitable for sliding frame keepers.
- Recommended for multi-locking applications of the aluminium sliding doors and windows with 15/20 mm groove on sash profile.



Applicable Groove Dimensions

Packaging: 250 pcs/box

AC-04 | Eccentric Locking Pin



FUNCTION

Eccentric adjustable locking pin to be applied directly to suitable for aluminium profile connection rod. Used as locking element with facility to adjust pressure to sealing gaskets by simple rotating and screw fixing.

FINISH

Black Electroplated

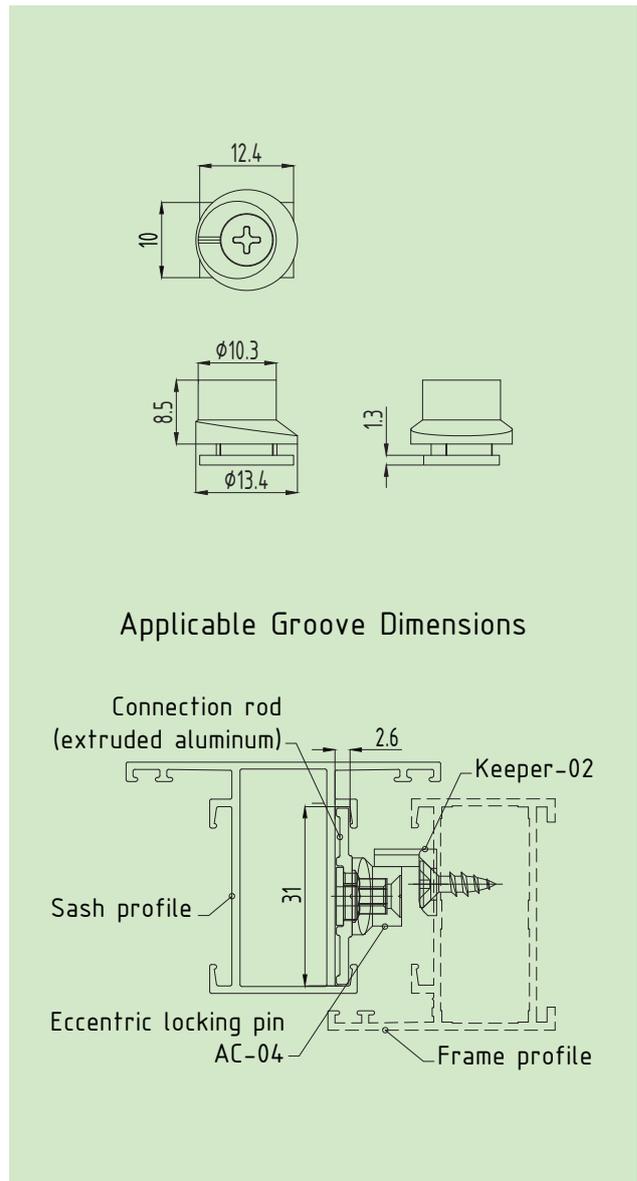
MATERIAL SPECIFICATION

ZAMAK base and pawl;
Stainless steel screw;
Countersunk head screw M4x10 DIN965 A4-1 nos.

TECHNICAL FEATURES

- Applicable for casement aluminium frames with connection rod grooves on sash profiles.
- Contents die-cast ZAMAK base with hex pin and eccentric pawl, fixed together by M4x10 DIN965 A4 countersunk head screw.
- Fixation on the connection rods processed by providing Ø8 mm holes in concerned positions on the connection rods.
- Designed to provide adjustment of pressure on sealing gaskets by simple rotation of the eccentric pawl around hex pin on the base to achieve concerned result.

Packaging: 500 pcs/box



- To be used with suitable for casement frame keepers:
 - KESPG-CS-KPR-085; KESPG-CS-KPR-02; KESPG-CSKPR-03;
 - AC-05; KESPG-CS-KPR-09 and KESPG-CS-KPR-14
- Recommended for multi-locking applications of the different types of the aluminium casement windows and doors, such as:
 - Side hung inward and outward operable; Top and bottom hung;
 - Tilt and turn; Tilt and slide; Parallel operable.

AC-05 Keeper



FUNCTION

Die-cast ZAMAK keeper to be fixed on the suitable aluminium frame profiles to maintain a locking point along with AC-04 eccentric locking pins.

FINISH

Black Electroplated

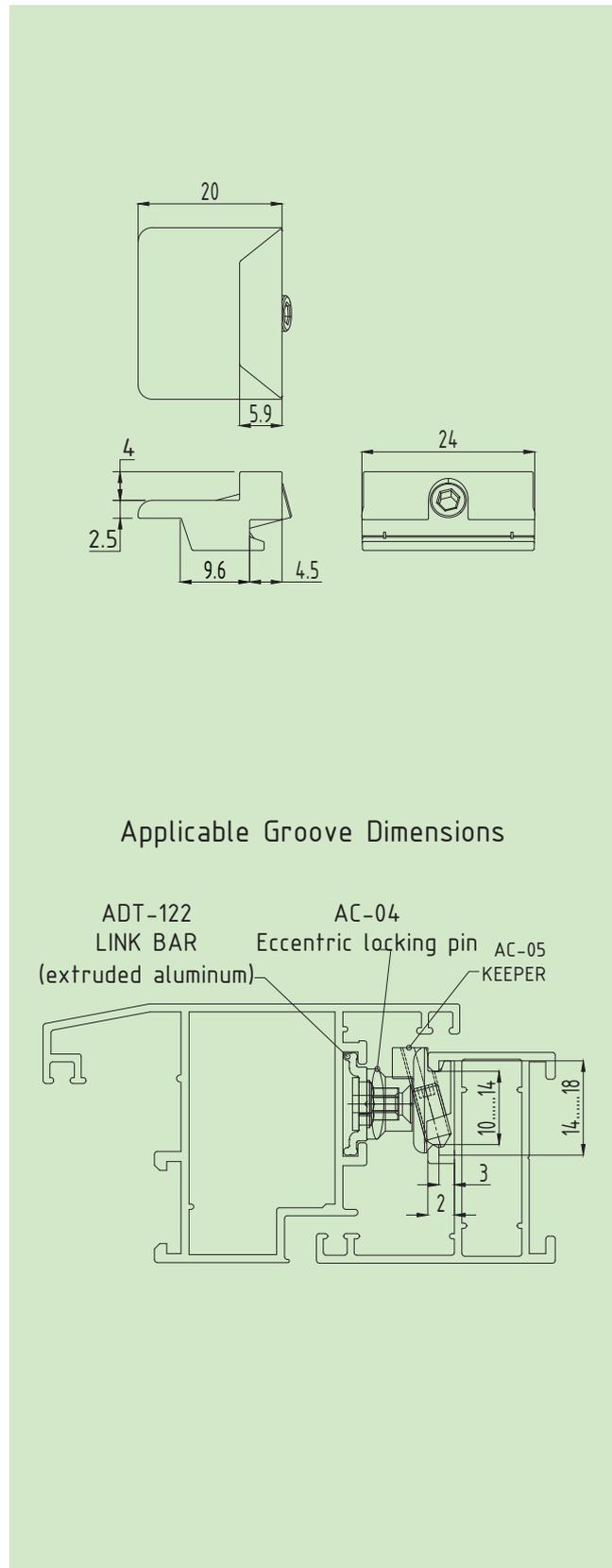
MATERIAL SPECIFICATION

ZAMAK body;
Stainless steel screw;
Hex socket set screw M5x12 DIN914 A4-1 nos.

TECHNICAL FEATURES

- Applicable for aluminium casement frames with 10...14 mm frame groove.
- Equipped with one M5x12 DIN914 A4 hex socket set screw with cone point for frame groove fixation.
- Tapered shoulder provides smooth locking operation for both RH and LH locking pin positions.
- To be used with suitable locking devices equipped with AC-04 locking pins.
- Recommended for multi-locking applications of the different types of the aluminium casement openings, like:
 - Inward and outward operable side hung windows and doors;
 - Top and bottom hung windows;
 - Tilt and turn windows;
 - Tilt and slide windows;
 - Parallel openings.

Packaging: 500 pcs/box



AC-08 I Connection Block for Outward Opening Window



FUNCTION

Connection block fits inside aluminium profile and transfers the cremone bolt cursors motion to connection rods to control locking operation.

FINISH

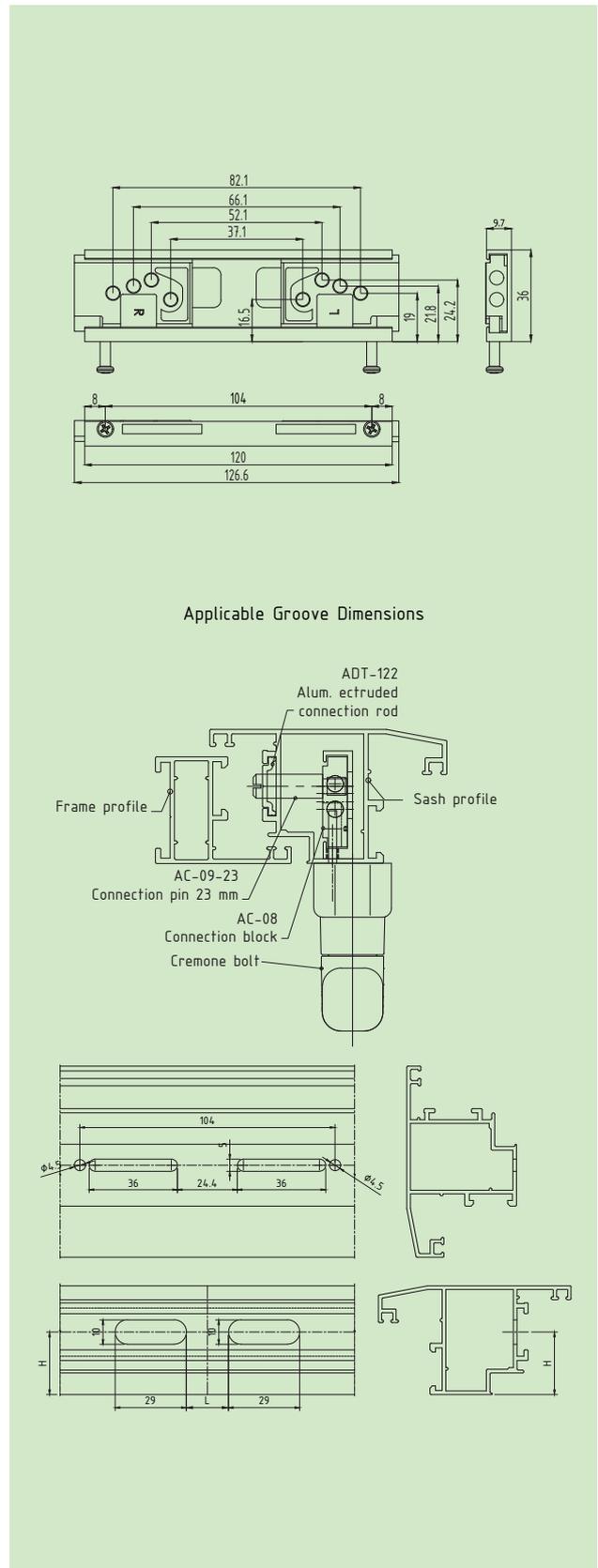
Natural

MATERIAL SPECIFICATION

Polyamide Sliders;
Aluminium extruded Body;
Carbon steel screws;
Pan head screws M4x20 DIN7985-2 nos.

TECHNICAL FEATURES

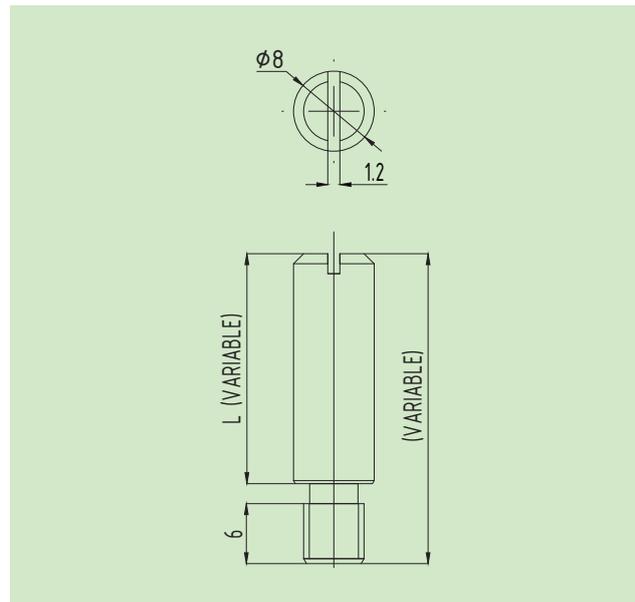
- Connection block contains two plastic sliders moving inside aluminium extruded body.
- Plastic sliders and aluminium extruded body have a slots on the front surface to receive cremone cursors movement.
- Plastic sliders also have several holes on different distances from the front surface for the connection pins AC-09 to connect with connection rods located inside sash groove.
- Two threaded holes M4 located on the front surface of the aluminium extruded body to fix it with cremone bolt by two M4x20 pan head screws.
- Connection pins AC-09 length depends on aluminium sash profile design and supplied separately.



Applicable Groove Dimensions

Packaging: 250 pcs/box

AC-09 | Connection Pin



FUNCTION

Carbon steel connection pin connects AC-08 plastic connection blocks with connection rod to establish control of cremone bolt towards to locking devices.

FINISH

Electroplated

MATERIAL SPECIFICATION

Carbon steel

TECHNICAL FEATURES

- Connection pin establishes connection between AC-08 connection block and connection rods.
- Due to different sash profiles designs, there are available lengths:
 - AC-09-11 : 11 mm;
 - AC-09-16 : 16 mm;
 - AC-09-23 : 23 mm;
 - AC-09-30 : 30 mm.
- Recommended for multi-locking applications of the outward operable aluminium casement doors and windows with suitable sash groove for connection rods.

Item Code	Length (mm)
AC-09-11	11.0
AC-09-16	6.0
AC-09-23	23.0
AC-09-30	30.0

Packaging: 500 pcs/box

AC-10 I Striker



FUNCTION

Die-cast ZAMAK keeper to be fixed on the suitable aluminium frame profiles to maintain a locking point along with AC-04 eccentric locking pins.

FINISH

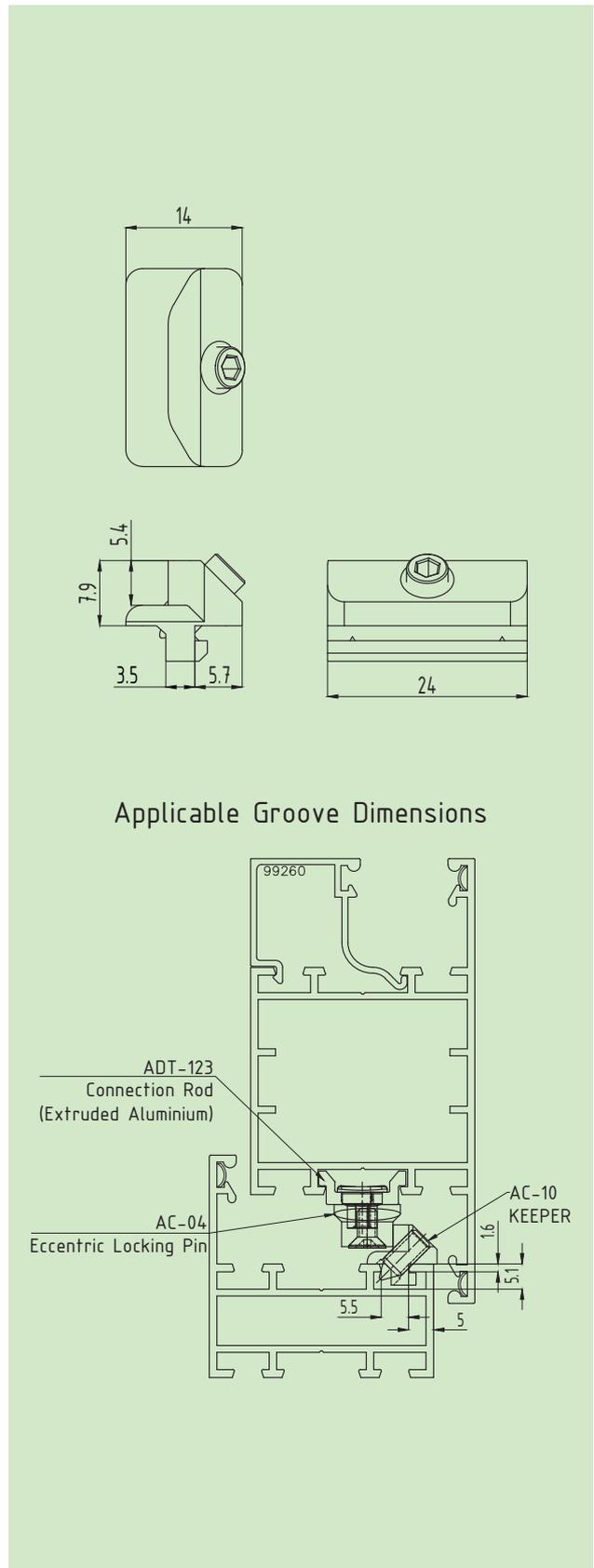
Black Electroplated

MATERIAL SPECIFICATION

ZAMAK body;
Stainless steel screw;
Hex socket set screw M5x10 DIN914 A4-1 nos.

TECHNICAL FEATURES

- Applicable for aluminium casement frames with 15/18 mm frame groove.
- Equipped with one M5x10 DIN914 A4 hex socket set screw with cone point for frame groove fixation.
- Tapered shoulder provides smooth locking operation for both RH and LH locking pin positions.
- To be used with suitable locking devices equipped with AC-04 locking pins.
- Recommended for multi-locking applications of the different types of the aluminium casement openings, like:
 - Inward and outward operable side hung windows and doors;
 - Top and bottom hung windows;
 - Tilt and turn windows;
 - Tilt and slide windows;
 - Parallel openings.



Packaging: 500 pcs/box

AC-11 | Shoe Type Connector



FUNCTION

Connects and transfers movement from cremone bolt to connection rod to maintain locking facility on top hung windows.

FINISH

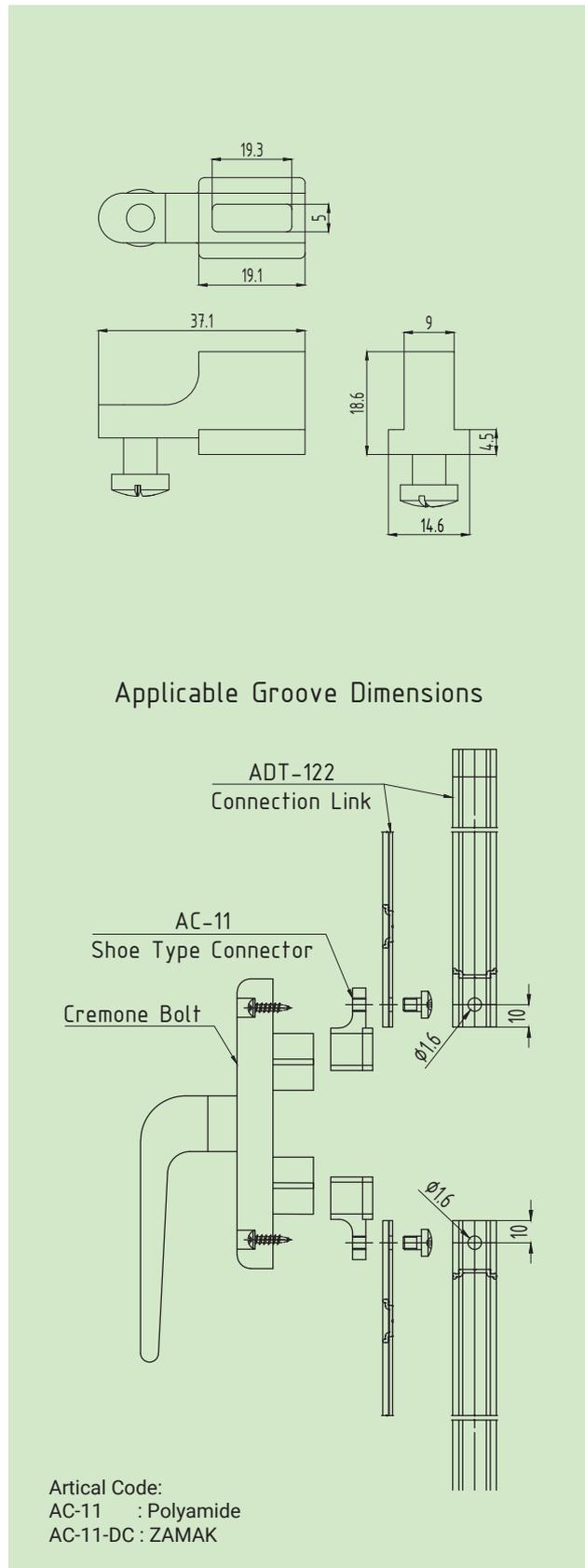
Black / Black Electroplated

MATERIAL SPECIFICATION

Polyamide/ZAMAK; Stainless steel screws;
Philips pan head screws M6x8 DIN7985Z A4-2 nos.

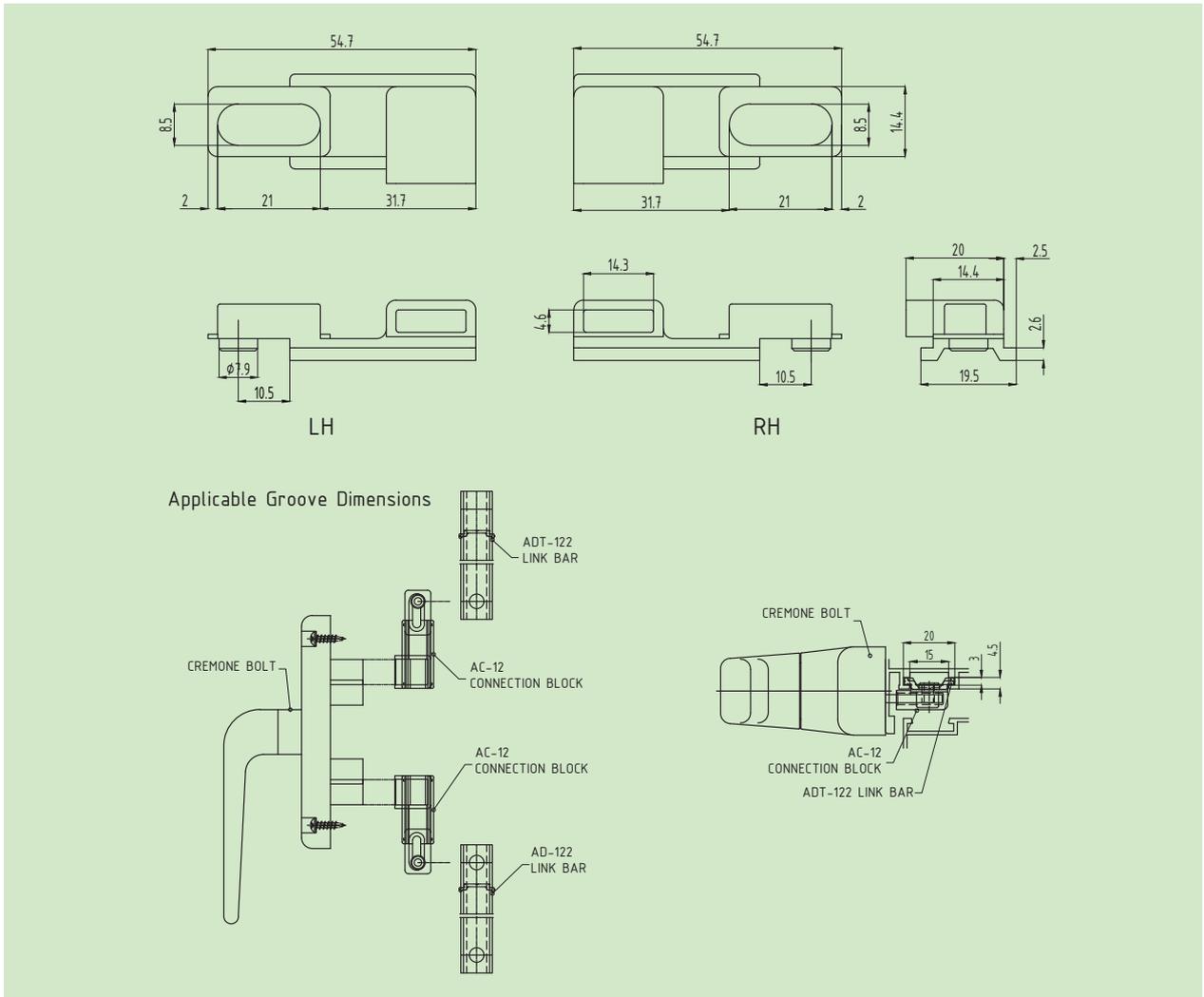
TECHNICAL FEATURES

- Applicable for suitable aluminium casement frames with concerned 15/20 mm, or 15/18 mm, groove on sash profile.
- One pair of shoe type connectors equipped with two M6x8 DIN 7985Z A4 Philips pan head screws to connect it with aluminium (or plastic) connection rods.
- The holes $\varnothing 6.1$ mm have to be provided on connection rods for connection.
- Machining on sash profiles, shown below, could be varied, depends on cremone bolt design.
- Recommended for top hung aluminium windows to maintain connection between cremone bolt and connection rods for multi-point locking applications.



Packaging: 500 pairs/box

AC-12I Connection Blocks for Inward Opening Window



FUNCTION

Connection block fits inside aluminium sash profile groove and transfers the cremone bolt cursors motion to connection rods to control locking operation.

FINISH

Black

MATERIAL SPECIFICATION

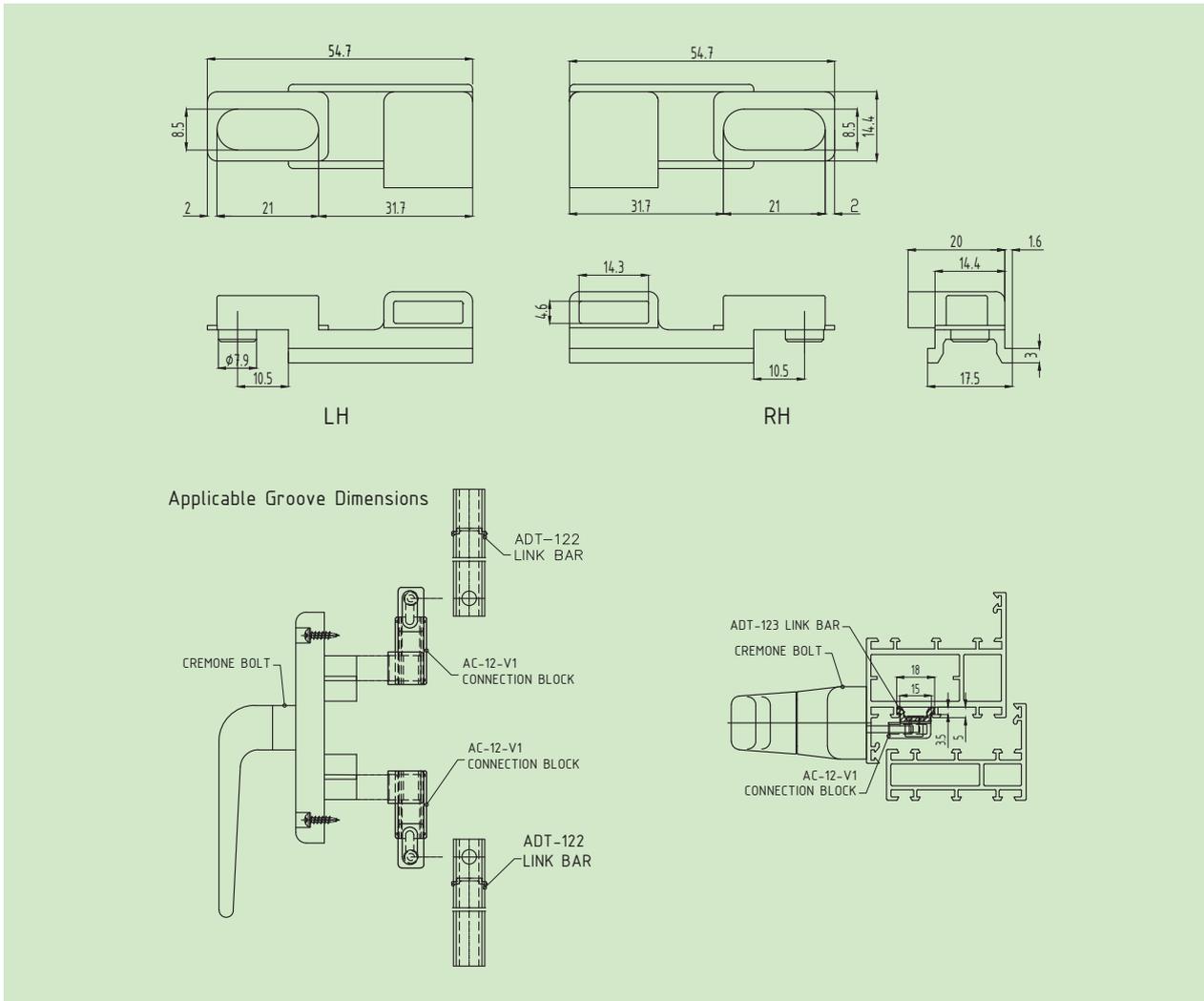
Polyamide

TECHNICAL FEATURES

- Connection block contains two plastic sliders moving inside aluminium sash profile groove. Suitable for 15/20mm Eurogroove aluminium profiles.
- Sliders have a slot to receive cremone bolt cursors movement and $\varnothing 7.9$ mm pin to connect with connection rods located inside sash groove.
- Using two AC-05 keepers on the frame groove together could provide two additional intermediate locking points.

Packaging: 500 pairs/box

AC-12-V1 I Connection Blocks for Inward Opening Window



FUNCTION

Connection block fits inside aluminium sash profile groove and transfers the cremone bolt cursors motion to connection rods to control locking operation.

FINISH

Black

MATERIAL SPECIFICATION

Polyamide

TECHNICAL FEATURES

- Connection block contains two plastic sliders moving inside aluminium sash profile groove. Suitable for 15/18mm Eurogroove aluminium profiles.
- Sliders have a slot to receive cremone bolt cursors movement and $\varnothing 7.9$ mm pin to connect with connection rods located inside sash groove.
- Using two AC-10 keepers on the frame groove together could provide two additional intermediate locking points.

Packaging: 500 pairs/box

AC-13 I Passive Locking Kit



FUNCTION

Adjustable passive locking kit provides additional locking points and maintains a pushing force to the gaskets to improve weather sealing performance of the windows on the hinge side.

FINISH

Electroplated

MATERIAL SPECIFICATION

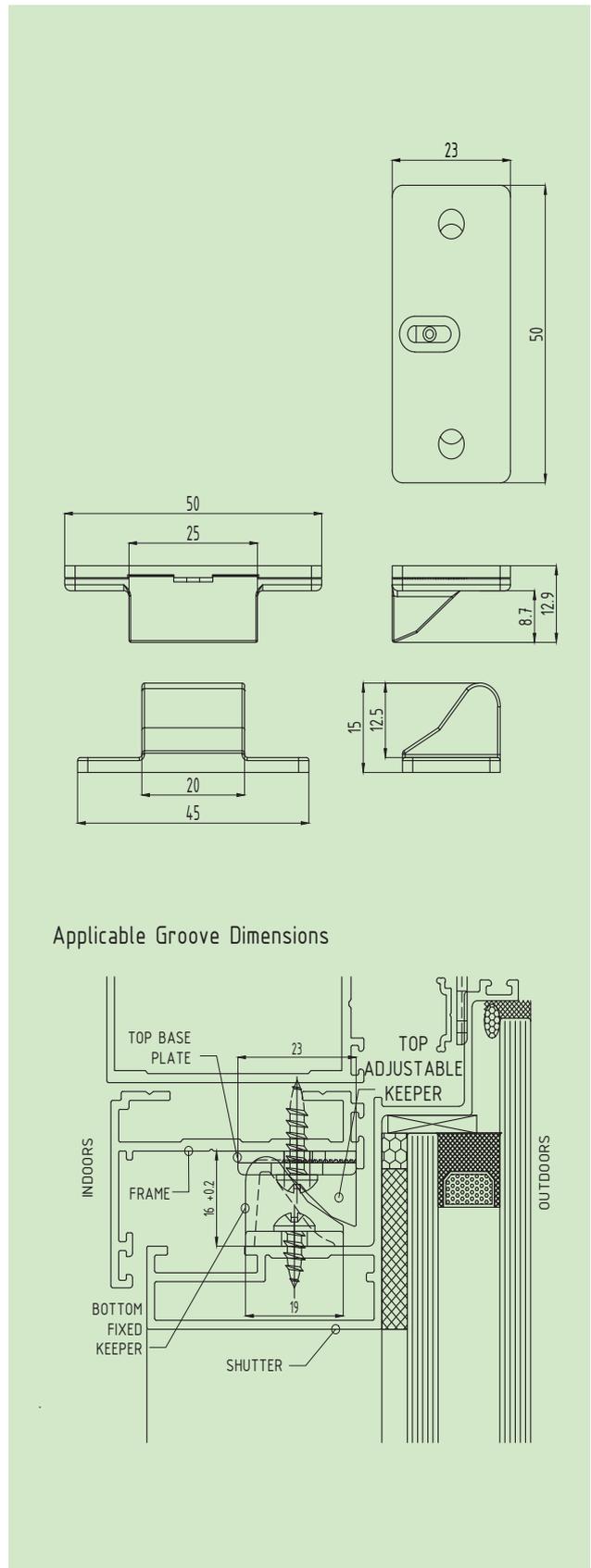
Die-cast ZAMAK;

One kit includes:

- Base plate-1 nos.
- Wedge shaped adjustable striker-1 nos.
- Sash wedge-1 nos.

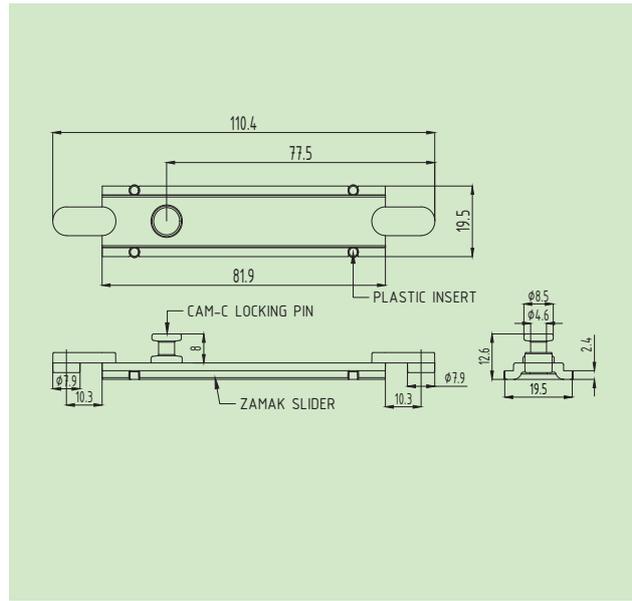
TECHNICAL FEATURES

- Applicable for suitable groove-less aluminium frames with 16.5..17.5mm inner gap between sash and frame profiles.
- Frame part of the kit has a corrugated base plate and adjustable wedge-shaped striker with oval screw holes for adjustment. Counterpart wedge to be fixed on the sash.
- Most suitable for top hung windows where there are no possibilities to provide locking points on the top of the window.
- It is suggestible to use one kit, if the width of the top hung window exceeds 1.1 m, and additional one kit on every additional 0.5 m of width size.
- Also, could be used on side hung windows, as well as for bottom hung windows, on the hinge side, with some machining on the profiles, if it is necessary.



Packaging: 250 kits/box

AC-15 I Locking Slider



FUNCTION

Locking kit contents the nib, striking plate, and if necessary, plastic adapter. All together with embedded sliding handle. It provides secure locking of the sash to the frame profile.

FINISH

Black Electroplated

MATERIAL SPECIFICATION

ZAMAK Slider-1 nos;
Polyamide Insert-2 nos;
CAM-1 nos.

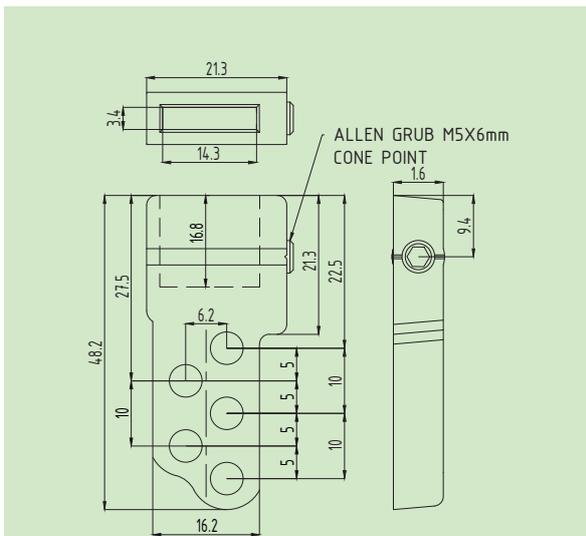
TECHNICAL FEATURES

- Applicable for suitable aluminium sliding frames and embedded handles. Nibs have various lengths and different bend steps values to suit for different sliding profiles designs. Plastic adapter provides additional anti-burglar protection.

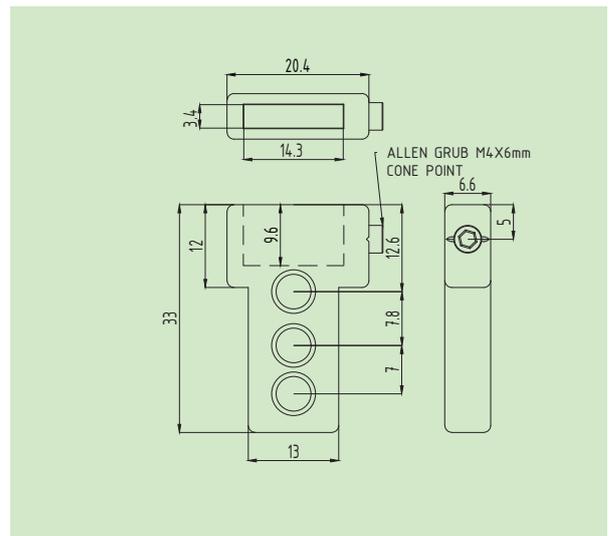
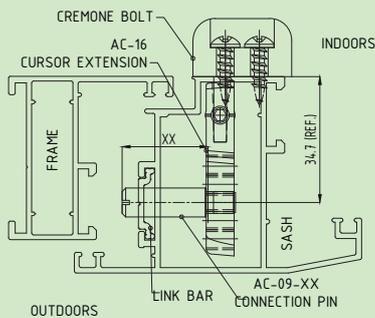
Art. Code	AC-15- X
	"X"- Type of Cam

Packaging: 250 kits/box

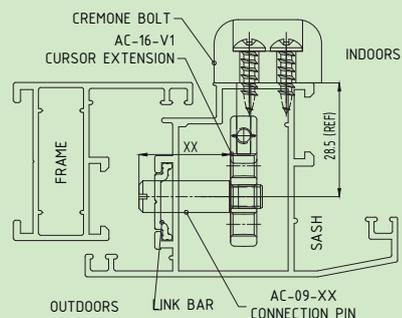
AC-16 & AC-16V1 | Cursor Extension



Applicable Groove Dimensions



Applicable Groove Dimensions



FUNCTION

Cursor extension connects cremone bolts with link bars when there is no direct access for connection. Used for outward openable casement windows.

PARTS WITH MATERIAL SPECIFICATION

ZAMAK Body-1 nos.
Stainless steel Hex socket screw with cone point M5x6 DIN914 A4-1 nos.

TECHNICAL FEATURES

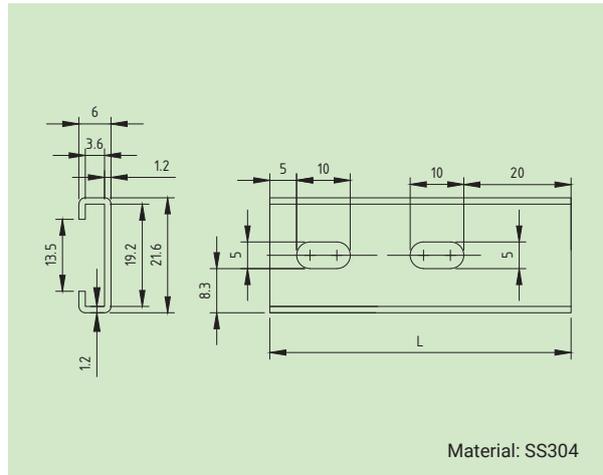
- Applicable for suitable aluminium casement frames with 15/20mm, or 15/18mm Euro groove profiles.
- To be used with AC-09-11, AC-09-16, AC-09-23 or AC-09-30 connection pins and ADT-122, ADT-123 link bars.

FINISH

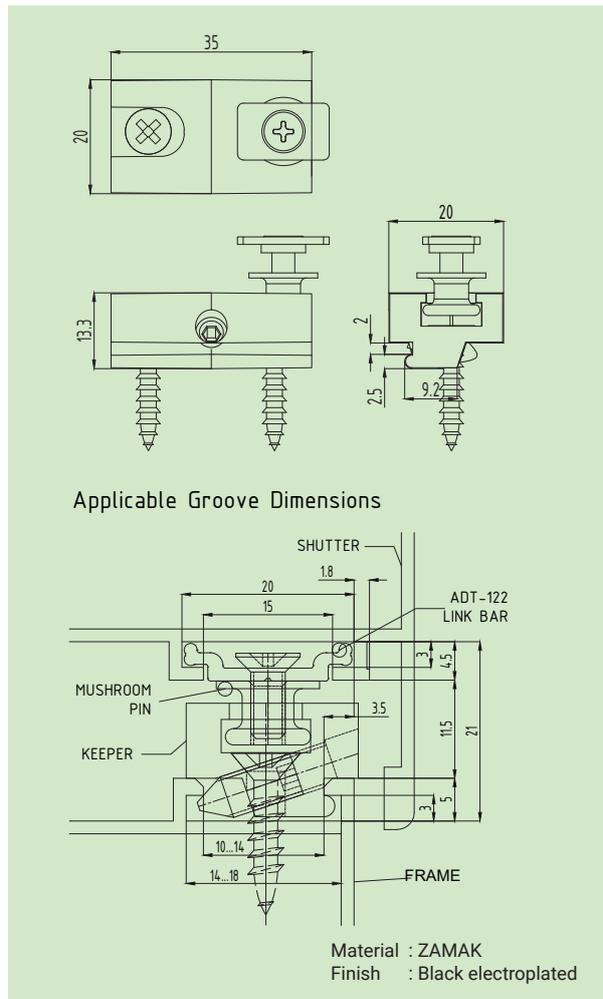
Black Electroplated

Packaging: 500 pcs/box

AC-17I C-channel

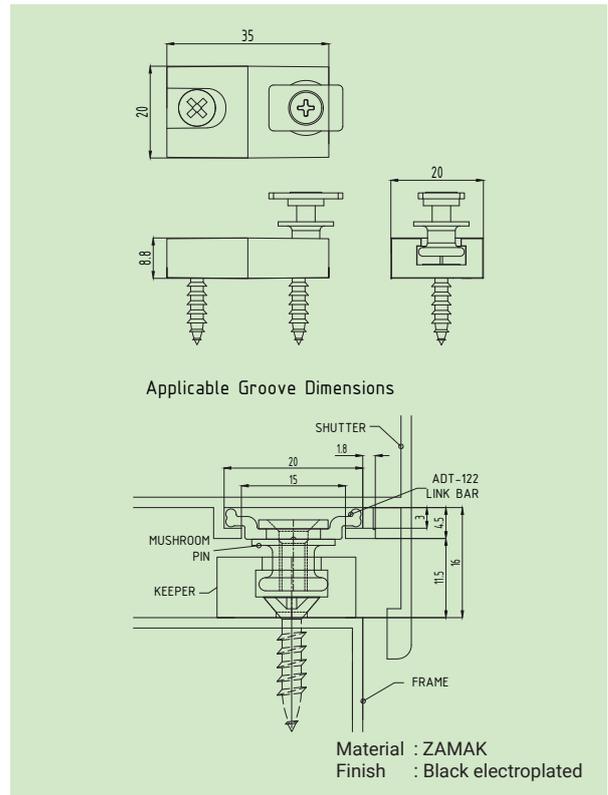


AC-19I Typhoon Locking Kit (Euro Groove)



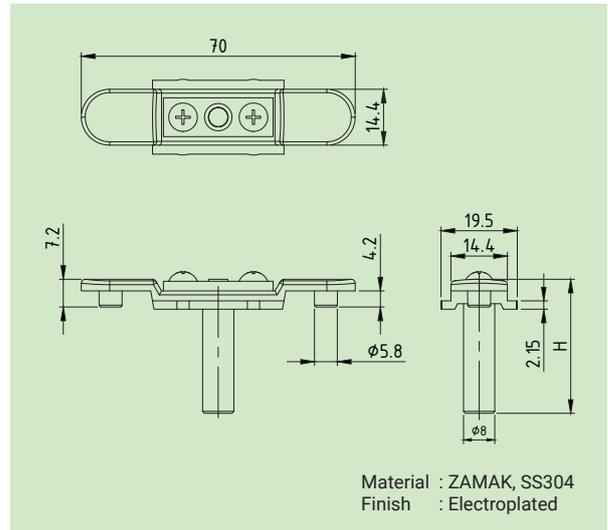
Packaging: 500 pcs/box

AC-20 I Typhoon Locking Kit



Packaging: 500 pcs/box

AC-24 I Rod Connector



Item Code	H,mm
AC-24-RC-14	14
AC-24-RC-34.5	34.5
AC-24-RC-60.5	60.5

Packaging: 250 pcs/box

AC-NB & AC-CP-01 | Sliding Locking Kit



FUNCTION

Locking kit contents the nib, striking plate, and if necessary, plastic adapter. All together with embedded sliding handle. It provides secure locking of the sash to the frame profile.

FINISH

Natural

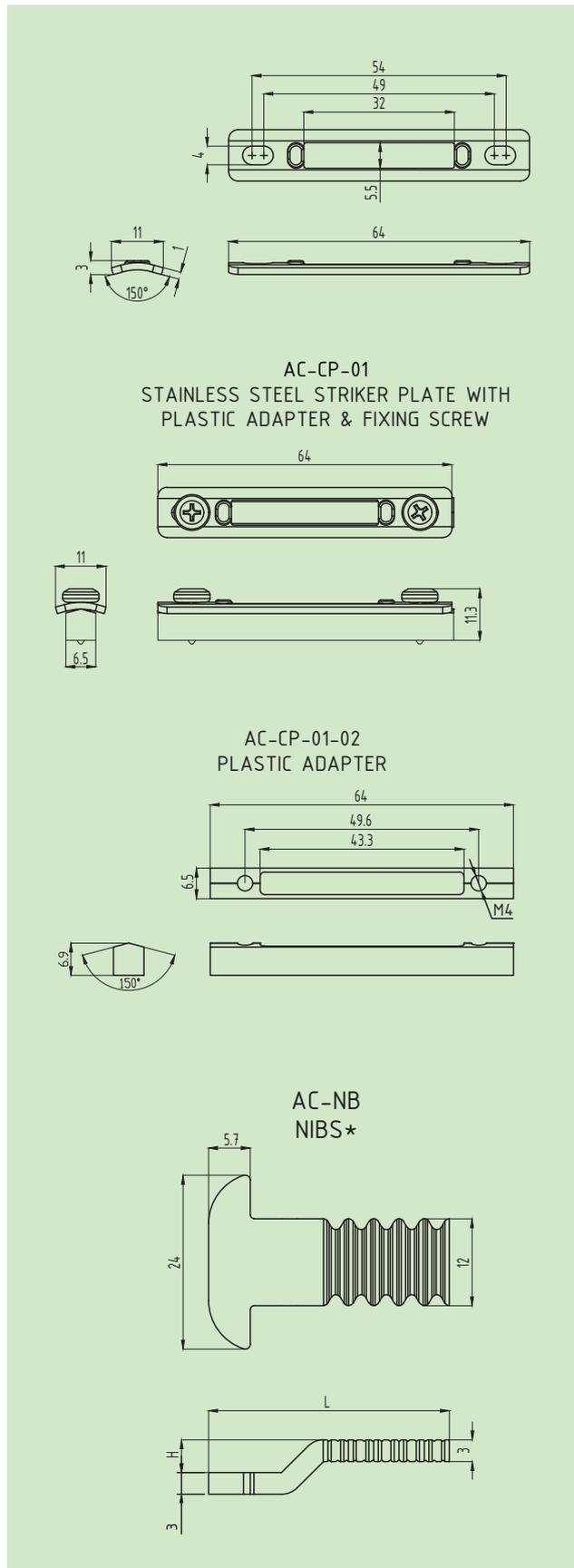
PARTS WITH MATERIAL SPECIFICATION

Polyamide Plastic Adapter;
Stainless steel-304 grade Nibs and Striker Plate;
Pan head screws M4x10 DIN7981 A4 for plastic adapters - 2 nos.

TECHNICAL FEATURES

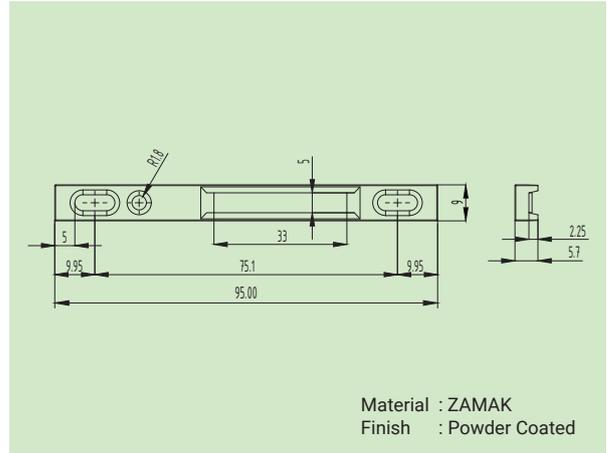
- Applicable for suitable aluminium sliding frames and embedded handles.
- Nibs have various lengths and different bend steps values to suit for different sliding profiles designs.
- Plastic adapter provides additional anti-burglar protection.

Item Code	L (mm)	H (mm)
AC-NB-01	29.5	0.0
AC-NB-02	49.0	0.0
AC-NB-03	33.0	4.5
AC-NB-04	29.0	2.0
AC-NB-05	40.5	4.5
AC-NB-06	49.0	5.5
AC-NB-07	31.0	3.0
AC-NB-08	33.0	3.0
AC-NB-09	33.0	0.0
AC-NB-10	28.5	1.0
AC-NB-11	37.5	2.0
AC-NB-12	33.0	2.0
AC-NB-13	31.0	7.5



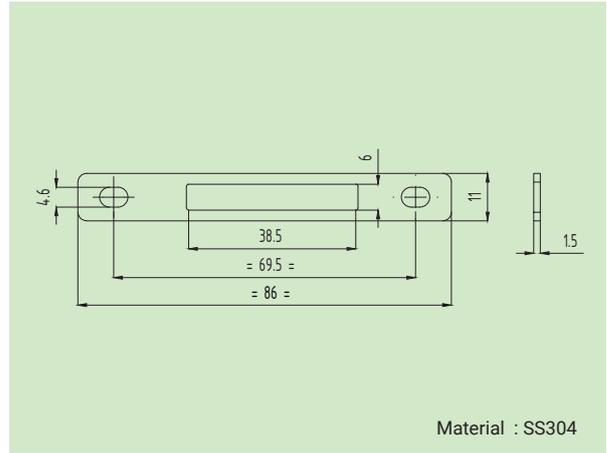
Packaging: 500 pcs/box

KELMISC 00045



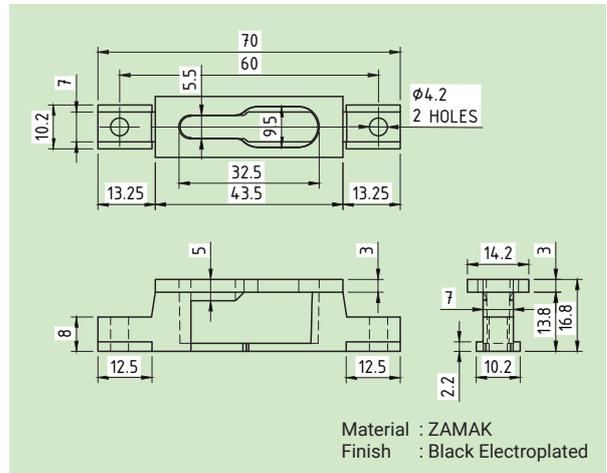
Packaging: 500 pcs/box

KELMISC 00065 | Frame Plate



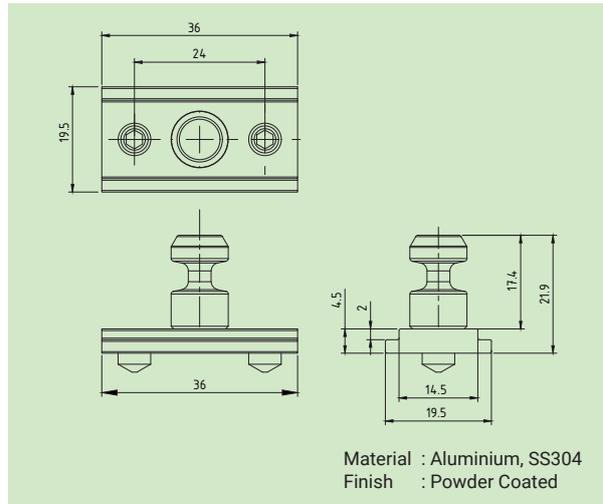
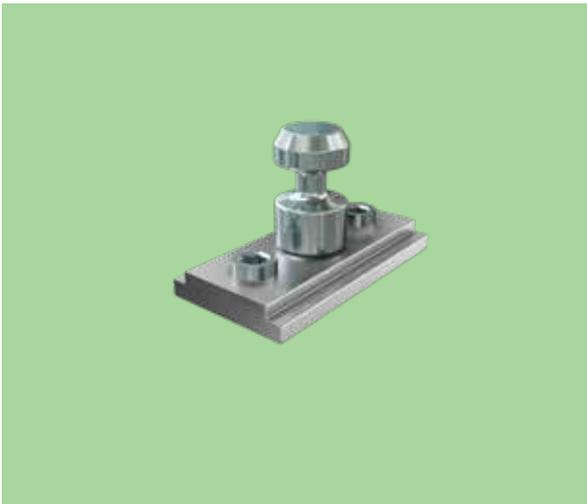
Packaging: 500 pcs/box

KESPG-CS-KPR-18



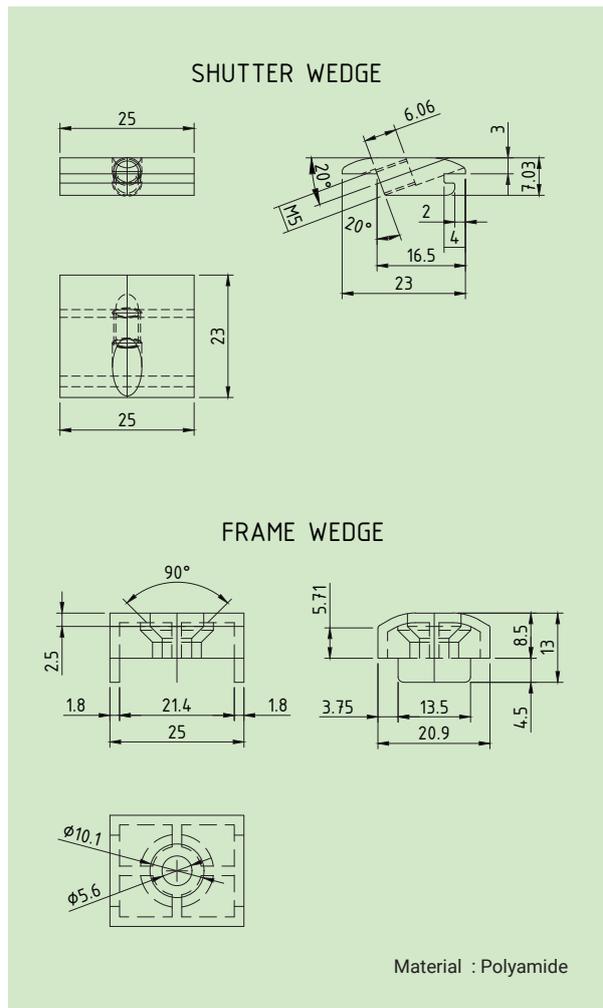
Packaging: 500 pcs/box

KELMISC 00063 | Locking Pin



Packaging: 500 pcs/box

KELMISC 00066 | SASH WEDGES



Packaging: 500 pcs/box

Aluminium Extruded Connection Rods



FUNCTION

Aluminium extruded connection rods are used for aluminium casement and sliding systems to provide connections between cremone bolts, or window locking mechanisms, corner transmissions and other locking devices to maintain multi-points and perimeter locking facilities, using groove provisions in aluminium profiles.

FINISH

Black anodized, Mill finish

MATERIAL SPECIFICATION

Aluminium alloy AA6063, T6.

TECHNICAL FEATURES

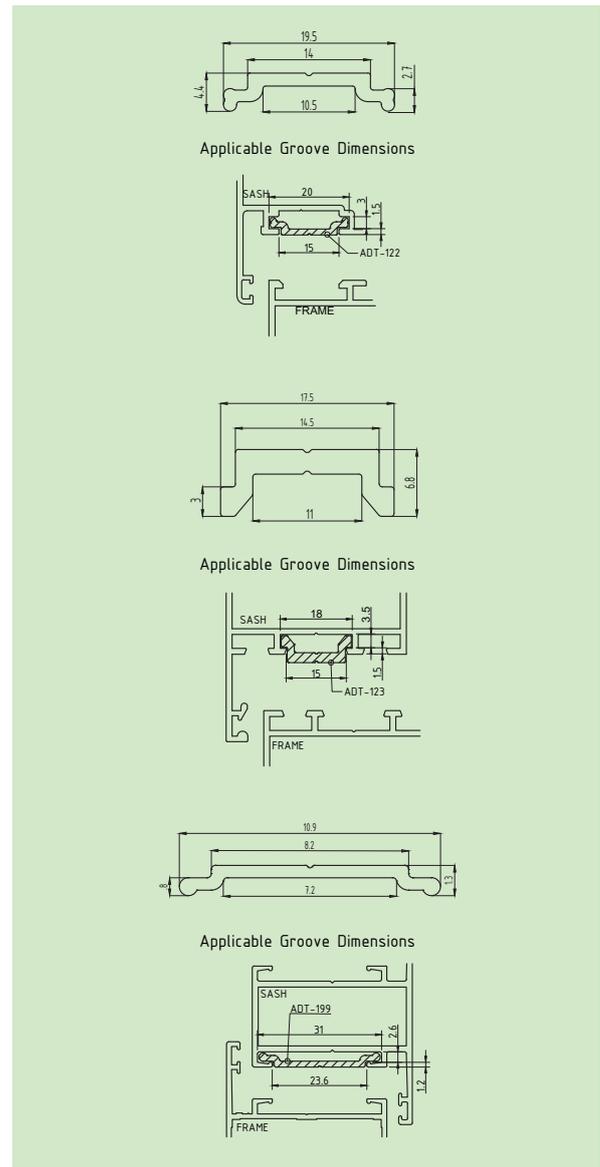
Applicable for aluminium casement, or sliding, frames with concerned groove on sash profile (please see the sketch).

To be used with:

- Cremone bolts;

Unit length: 3.66 mtrs.

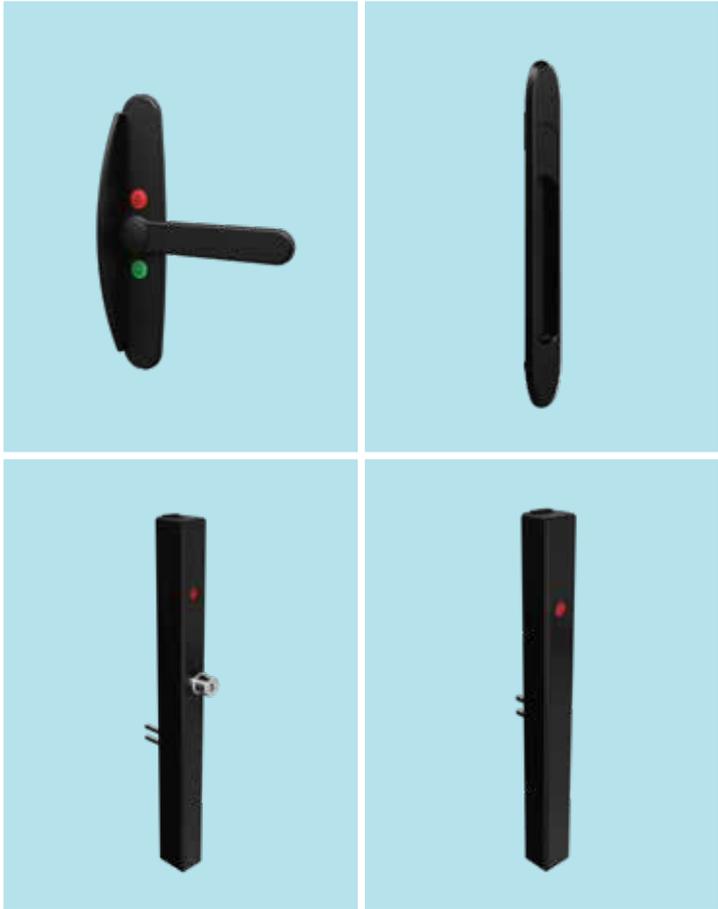
Packaging: 50 pcs/box



- AC-08 connection block and AC-09 connection pins;
 - DLK-CW-02 window locking mechanism;
 - AC-02 sliding nib holder;
 - AC-04 adjustable eccentric locking pins;
 - KCD-02, or KCD-03 corner transmissions;
 - AC-11, AC-12 and AC-15 connection blocks.
- Recommended for perimeter multi-locking application of the different types of the aluminium casement and sliding openings, like:
- Inward and outward operable side hung windows and doors;
 - Top and bottom hung windows;
 - Pivot windows;
 - Tilt and turn windows and doors;
 - Tilt and slide windows;
 - Sliding doors and windows.



Handles



Range

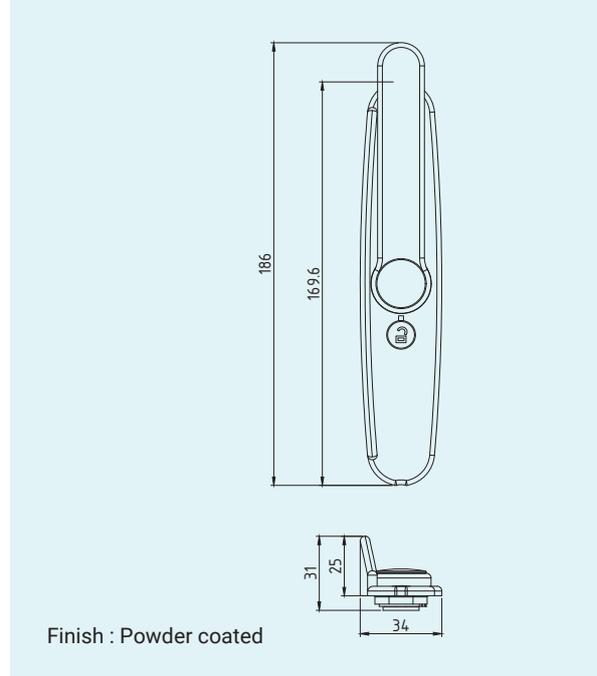
- 1. Spindle Handles for Sliding Door
- 2. Vertical Push Handle

Handles >> Spindle Handles for Sliding Door

VYU-SL-02/03 | Spindle Handles for Sliding Door

VYU-SL-02

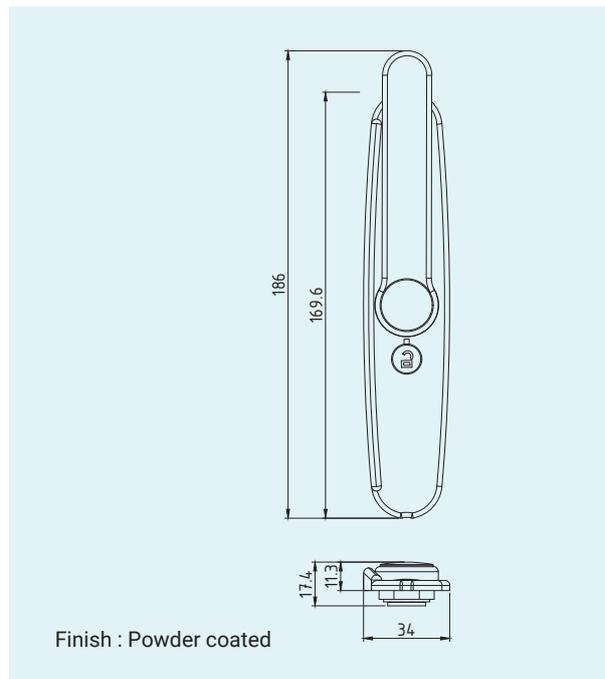
(L x W x H = 169.6 x 34 x 25 mm)



Packaging: 100 pcs/box

VYU-SL-03

(L x W x H = 169.6 x 34 x 11.3 mm)



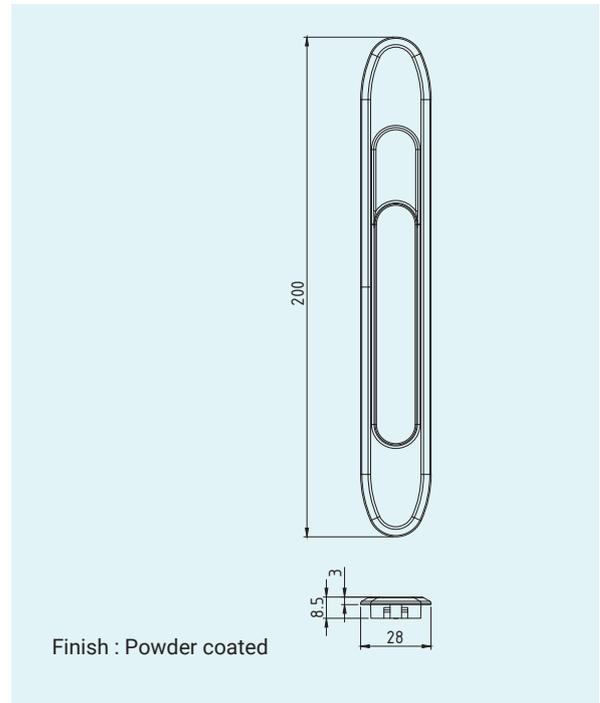
Packaging: 100 pcs/box

Handles >> Spindle Handles for Sliding Door

VYU-SL-05 I Spindle Handles for Sliding Door

VYU-SL-05

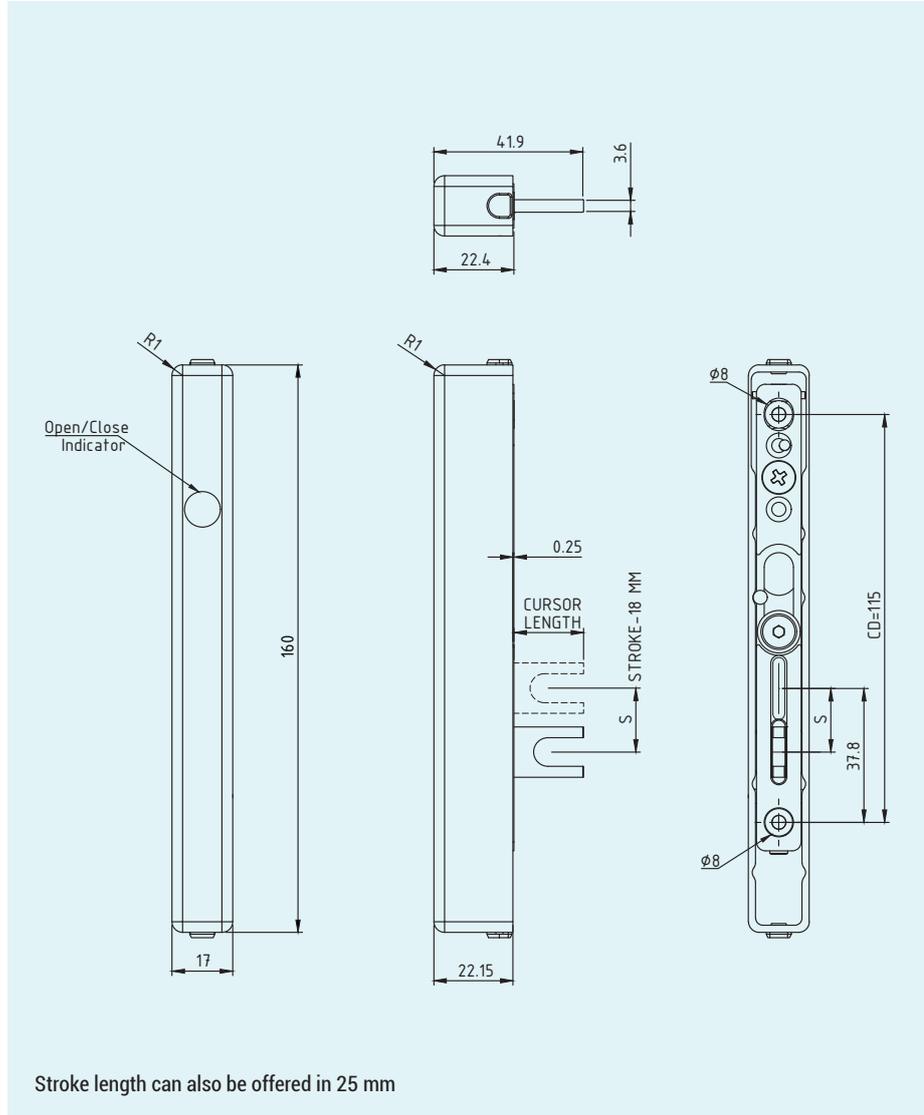
(L x W x H = 200 x 28 x 3 mm)



Packaging: 100 pcs/box

Handles >> Vertical Push Handles

VYU-SL-07-V1 (Mini) I Vertical Push Handles



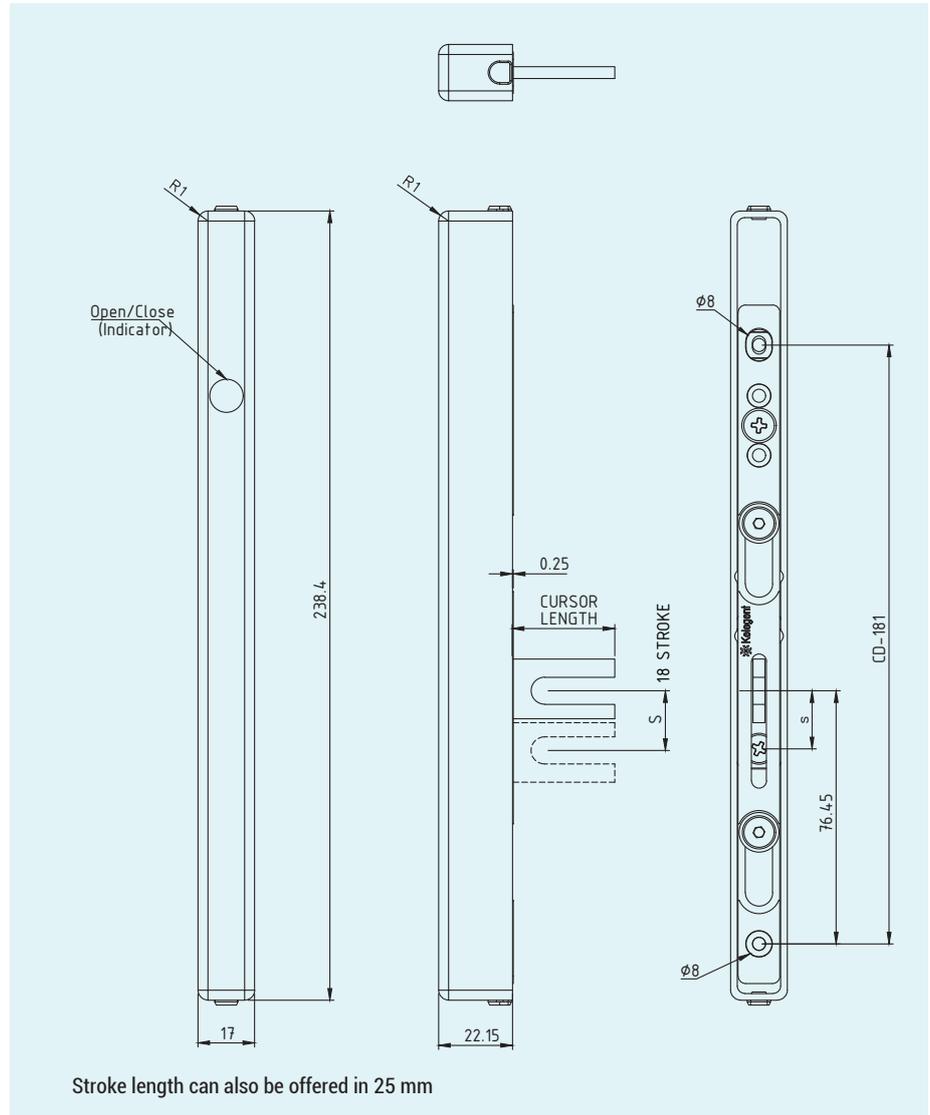
VYU-SL-07-V1-Sxx-CUxx-Rx-INx-Fxx-YY

Item Code	For x/Y		Description
S	Stroke	xx	S= 18mm
CUxx / CFxx	Cursor Length	xx	16L, 20L, 24L, 25L, 30L, 40L
Rx	Radius	x	R0= Radius 1mm R1= Radius 3mm
INx	Indicator Option	x	1= Round 2= Capsule
Fxx	Finish	xx	01 = Powder Coating 02 = Anodizing
YY	Color	YY	01=Black (RAL9005) 02=White (RAL9010) 03=Champagne

Packaging: 100 pcs/box

Handles >> Vertical Push Handles

VYU-SL-07I Vertical Push Handles



VYU-SL-07-Sxx-CUxx-Rx-INx-Fxx-YY

Item Code	For x/Y		Description
S	Stroke	xx	S= 18mm
CUxx / CFxx	Cursor Length	xx	16L, 20L, 24L, 25L, 30L, 40L
Rx	Radius	x	R0= Radius 1mm R1= Radius 3mm
INx	Indicator Option	x	1= Round 2= Capsule
Fxx	Finish	xx	01 = Powder Coating 02 = Anodizing
YY	Color	YY	01=Black (RAL9005) 02=White (RAL9010) 03=Champagne

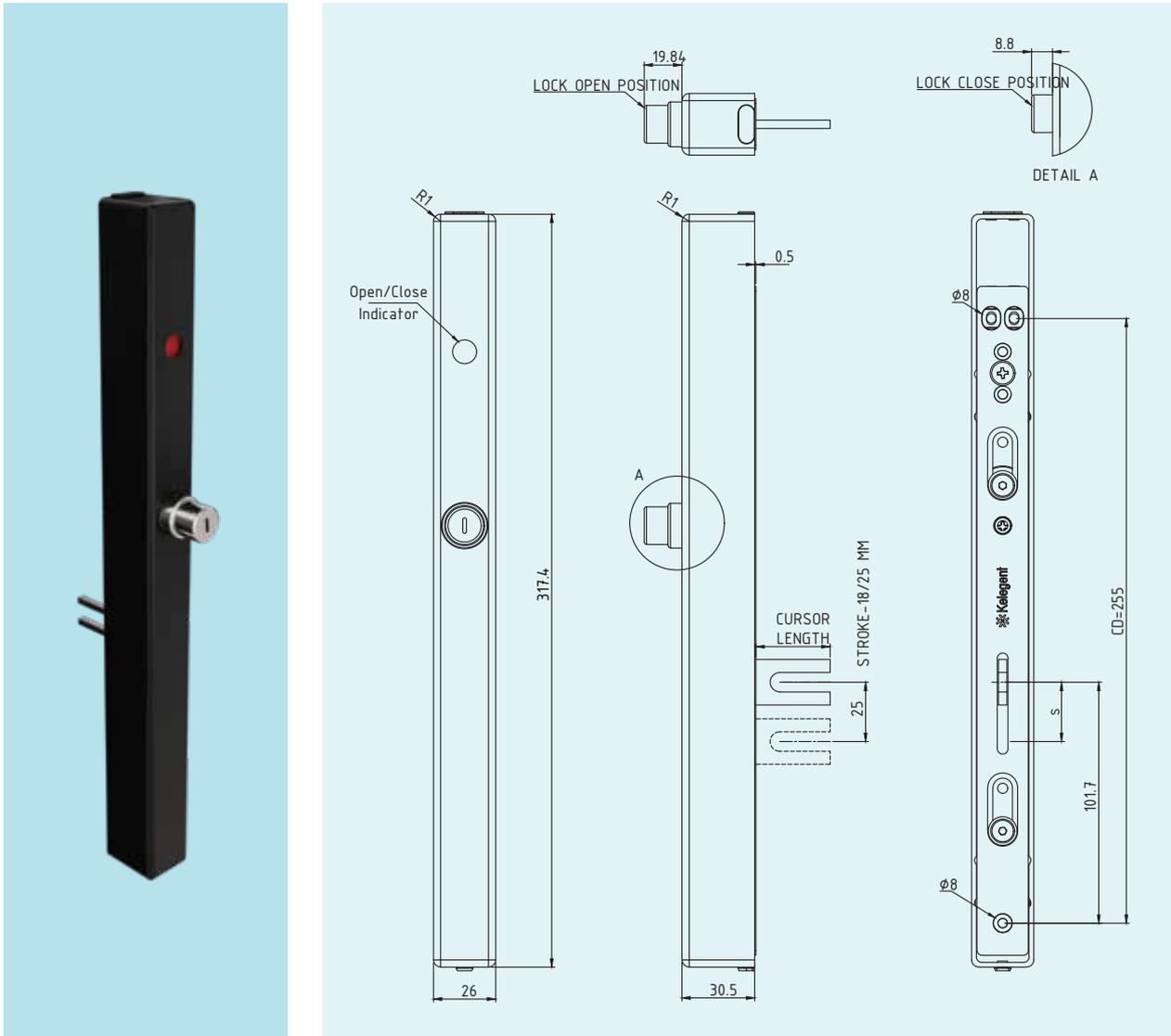
Packaging: 100 pcs/box

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All dimensions above are in mm

Handles >> Vertical Push Handles

VYU-SL-08-KL I Vertical Push Handles



VYU-SL-08-KL-Sxx-CUxx-Rx-INx-Fxx-YY

Item Code	For x/Y	Description
S	Stroke xx	S= 18mm, 25mm
CUxx / CFxx	Cursor Length xx	16L, 20L, 24L, 25L, 30L, 40L
Rx	Radius x	R0= Radius 1mm R1= Radius 3mm
INx	Indicator Option x	1= Round 2= Capsule
Fxx	Finish xx	01 = Powder Coating 02 = Anodizing
YY	Color YY	01=Black (RAL9005) 02=White (RAL9010) 03=Champagne

Dummy model also available

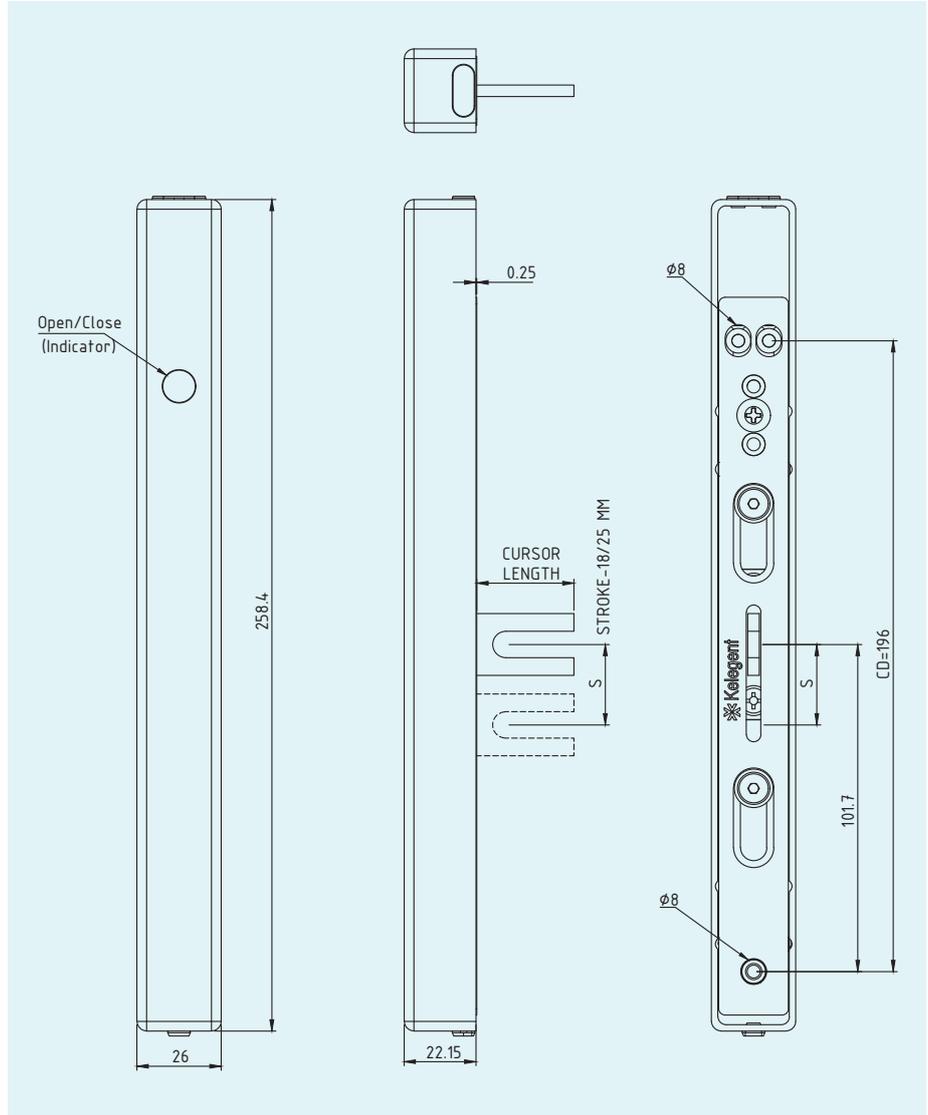
Packaging: 100 pcs/box

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All dimensions above are in mm

Handles >> Vertical Push Handles

VYU-SL-09 I Vertical Push Handles



VYU-SL-09-Sxx-CUxx-Rx-INx-Fxx-YY

Item Code	For x/Y		Description
S	Stroke	xx	S= 18mm, 25mm
CUxx / CFxx	Cursor Length	xx	16L, 20L, 24L, 25L, 30L, 40L
Rx	Radius	x	R0= Radius 1mm R1= Radius 3mm
INx	Indicator Option	x	1= Round 2= Capsule
Fxx	Finish	xx	01 = Powder Coating 02 = Anodizing
YY	Color	YY	01=Black (RAL9005) 02=White (RAL9010) 03=Champagne

Packaging: 100 pcs/box



Butt Hinges

A muscular range of hardware with load capacity ranging from 75kgs to 160kgs.



Range

1. 40mm Casement Series
2. Type-1 Eurogroove Casement Series
3. Type-7 Eurogroove Casement Series

Butt Hinges

KHNG-03 | Butt Hinge



FUNCTION

RH/LH reversible hinge for aluminium overlapped profiles of doors and windows. It featured with the reliability and precision, and is fitted to the frames extremely quickly, even if the frames have already been assembled.

FINISH

Natural, Powder coated, Anodized

PARTS WITH MATERIAL SPECIFICATION

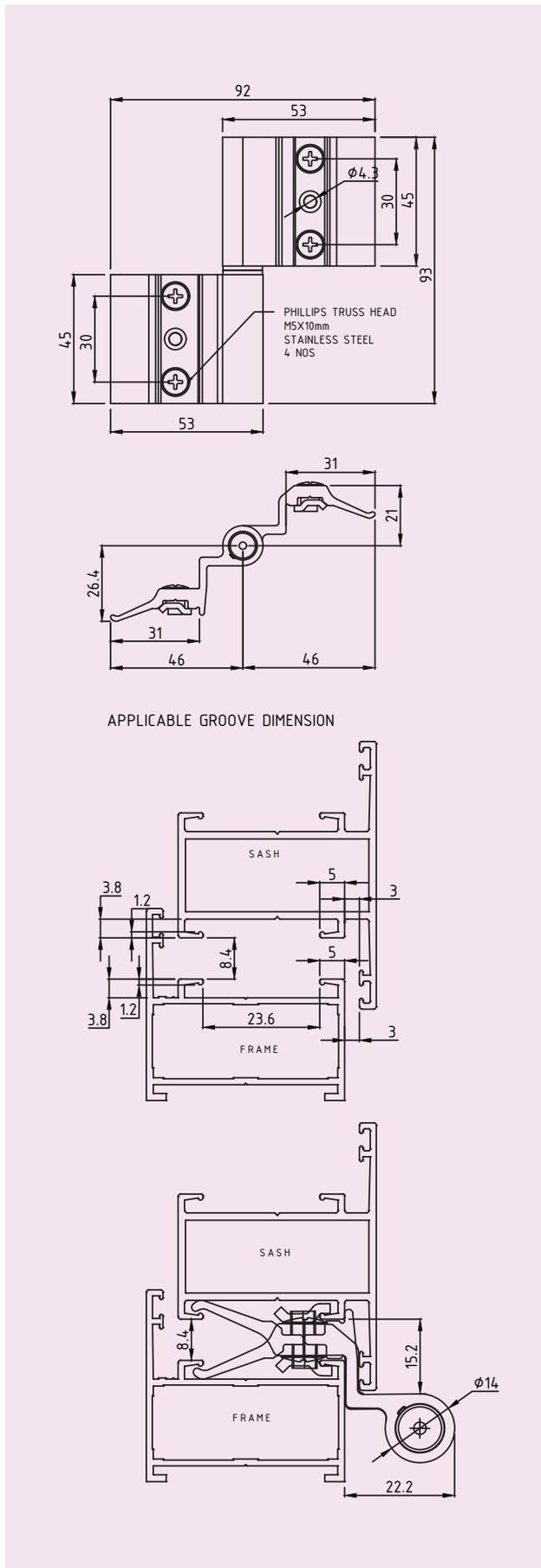
Extruded aluminium: Hinge Frame and Sash Parts;
Stainless Steel: Pivot Pin, Screws (M5 x 10) and Plates;
Polyamide: Pivot Pin Bushes.

CAPACITIES

With 2 Hinges: 75 kg;
With 3 Hinges: 85 kg
for WxH 1000 x 2000 mm size of the door/window.

TECHNICAL FEATURES

- Flash base hinges are supplied ready assembled and featured with quick fixing system using aluminium frame and sash grooves.
- RH and LH reversible.
- Special shape of the hinge and fixing plates made for practical and quick installation on pre-assembled frames and ensures that the hinge remains correctly positioned while the screws are tightened.



Packaging: 100 pcs/box

Butt Hinges

KHNG-03A | Butt Hinge



FUNCTION

RH/LH reversible hinge for aluminium overlapped profiles of doors and windows. It featured with the reliability and precision, and is fitted to the frames extremely quickly, even if the frames have already been assembled.

FINISH

Natural, Powder coated, Anodized

PARTS WITH MATERIAL SPECIFICATION

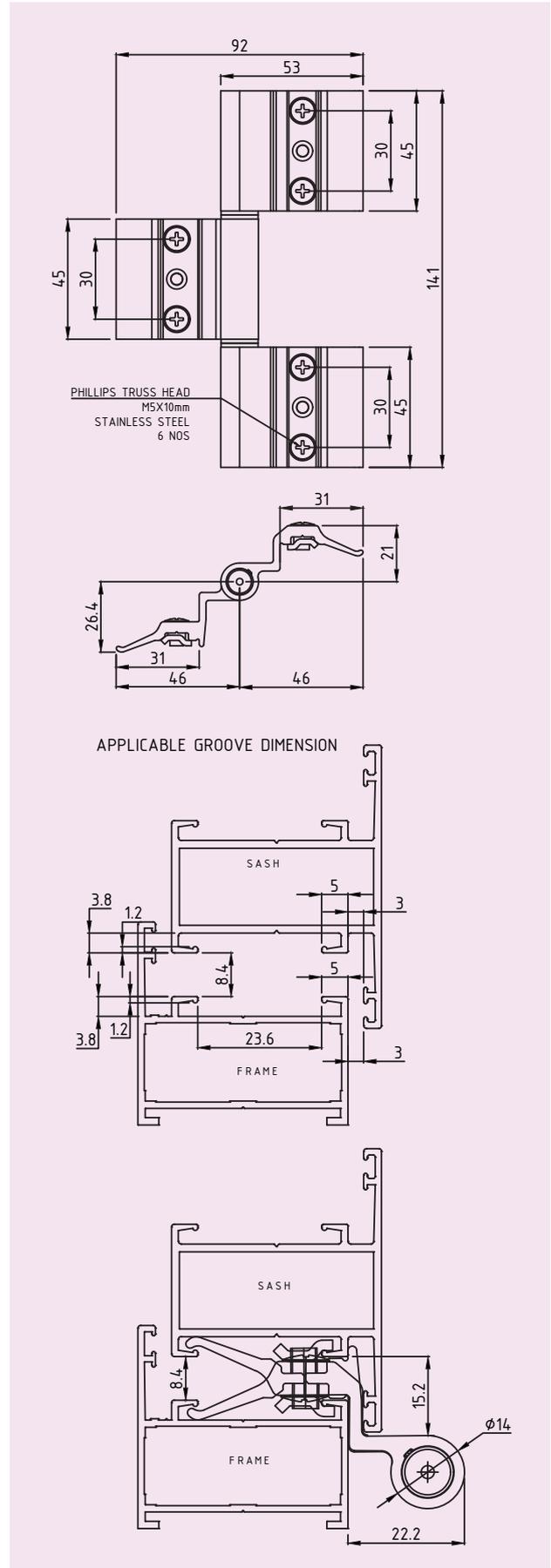
Extruded aluminium: Hinge Frame and Sash Parts;
Stainless Steel: Pivot Pin, Screws (M5 x 10) and Plates; Polyamide: Pivot Pin Bushes.

CAPACITIES

With 2 Hinges: 90 kg;
With 3 Hinges: 100 kg
for WxH 1000 x 2000 mm size of the door/window.

TECHNICAL FEATURES

- Flash base hinges are supplied ready assembled and featured with quick fixing system using aluminium frame and sash grooves.
- RH and LH reversible.
- Special shape of the hinge and fixing plates made for practical and quick installation on pre-assembled frames and ensures that the hinge remains correctly positioned while the screws are tightened.



Packaging: 100 pcs/box

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All dimensions above are in mm

Butt Hinges

KHNG-05 | Butt Hinge



FUNCTION

RH/LH reversible hinge for aluminium overlapped profiles of doors and windows. It featured with the reliability and precision, and is fitted to the frames extremely quickly, even if the frames have already been assembled.

FINISH

Natural, Powder coated, Anodized

PARTS WITH MATERIAL SPECIFICATION

Extruded aluminium: Hinge Frame and Sash Parts;
Stainless Steel: Pivot Pin, Screws (M5 x 10) and Plates;
Black: Pivot Pin Bushes.

CAPACITIES

With 2 Hinges: 75 kg

With 3 Hinges: 85 kg

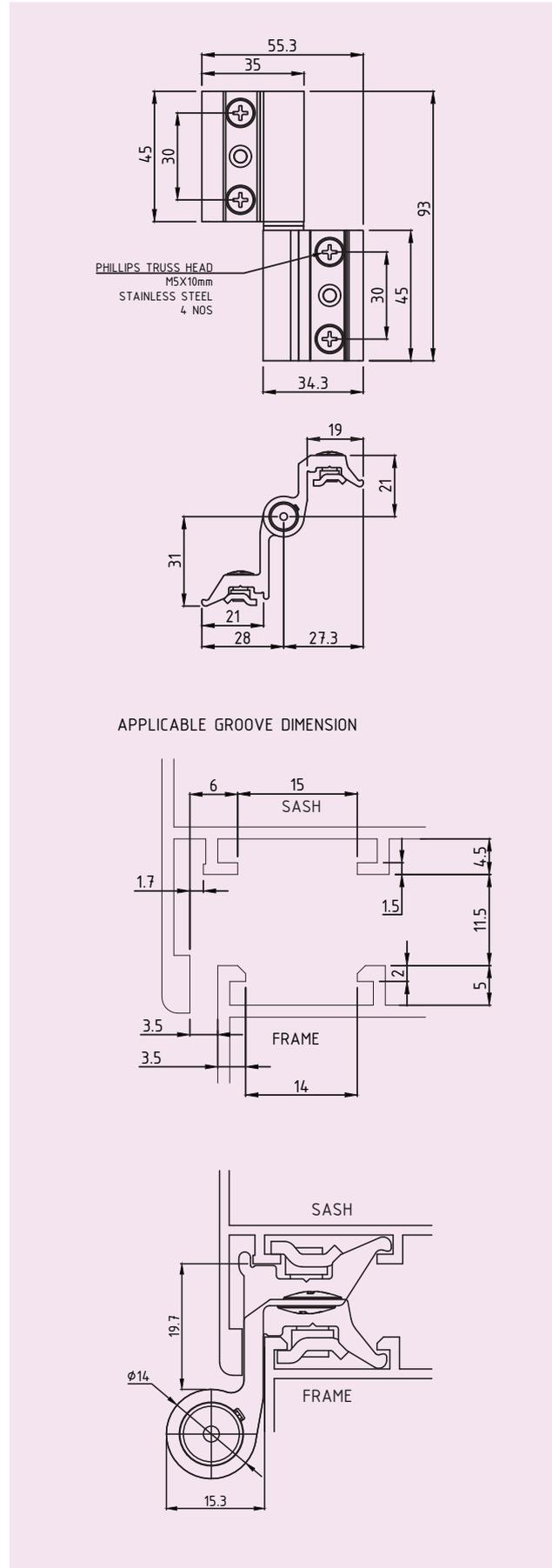
For WxH 1000x2000 mm size of the door/window.

TECHNICAL FEATURES

- Flash base hinges are supplied ready assembled and featured with quick fixing system using aluminium frame and sash grooves.
- RH and LH reversible.
- Special shape of the hinge and fixing plates made for practical and quick installation on pre-assembled frames and ensures that the hinge remains correctly positioned while the screws are tightened.

Packaging: 100 pcs/box

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All dimensions above are in mm

Butt Hinges

KHNG-05B | Butt Hinge



FUNCTION

RH/LH reversible hinge for aluminium overlapped profiles of doors and windows. It featured with the reliability and precision, and is fitted to the frames extremely quickly, even if the frames have already been assembled.

FINISH

Natural, Powder coated, Anodized

PARTS WITH MATERIAL SPECIFICATION

Extruded aluminium: Hinge Frame and Sash Parts;
Stainless Steel: Pivot Pin, Screws (M5 x 10) and Plates; Black: Pivot Pin Bushes.

CAPACITIES

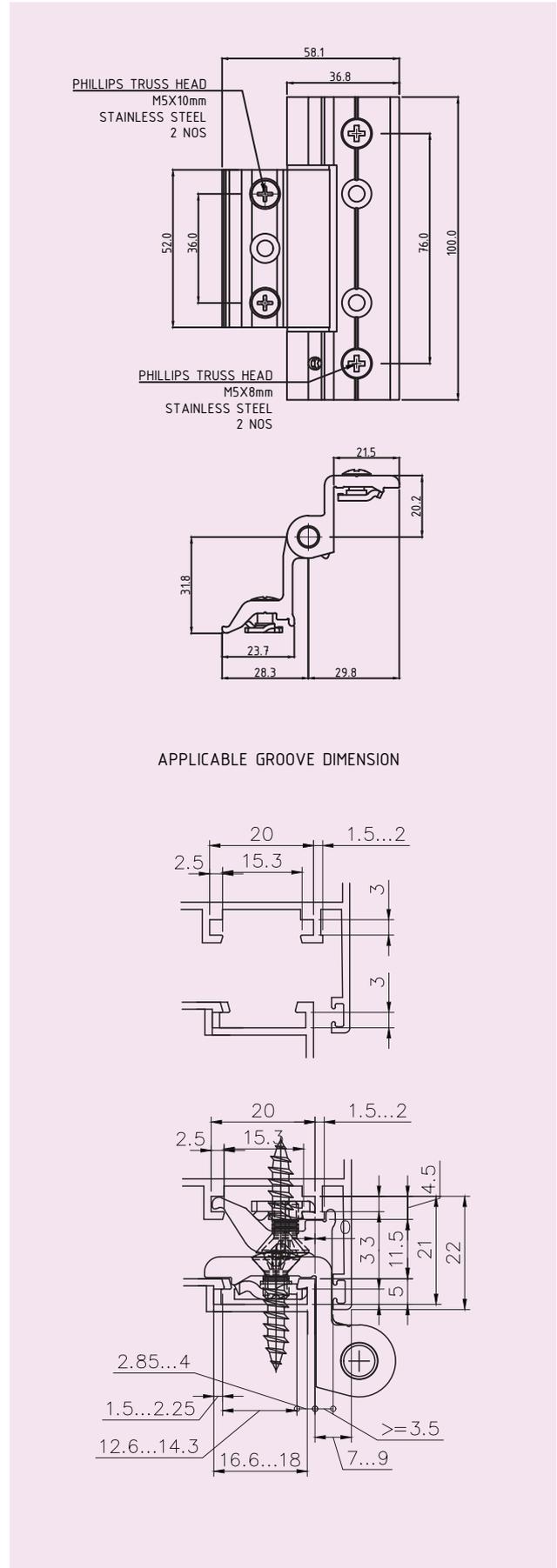
With 2 Hinges: 90 kg

With 3 Hinges: 100 kg

For WxH 1000x2000 mm size of the door/window.

TECHNICAL FEATURES

- Flash base hinges are supplied ready assembled and featured with quick fixing system using aluminium frame and sash grooves.
- RH and LH reversible.
- Special shape of the hinge and fixing plates made for practical and quick installation on pre-assembled frames and ensures that the hinge remains correctly positioned while the screws are tightened.



Packaging: 100 pcs/box

Butt Hinges

KHNG-06 | Butt Hinge



FUNCTION

RH/LH reversible hinge for aluminium overlapped profiles of doors and windows. It featured with the reliability and precision and is fitted to the frames extremely quickly.

FINISH

Natural, Anodized, RAL powder coated.

PARTS WITH MATERIAL SPECIFICATION

Extruded aluminium: Hinge Frame and Sash Parts, Fixing Plates; Stainless Steel: Pivot Pin, Screws; Black nylon: Pivot Pin Bushes.

CAPACITIES

With 2 Hinges: 75 kg

With 3 Hinges: 85 kg

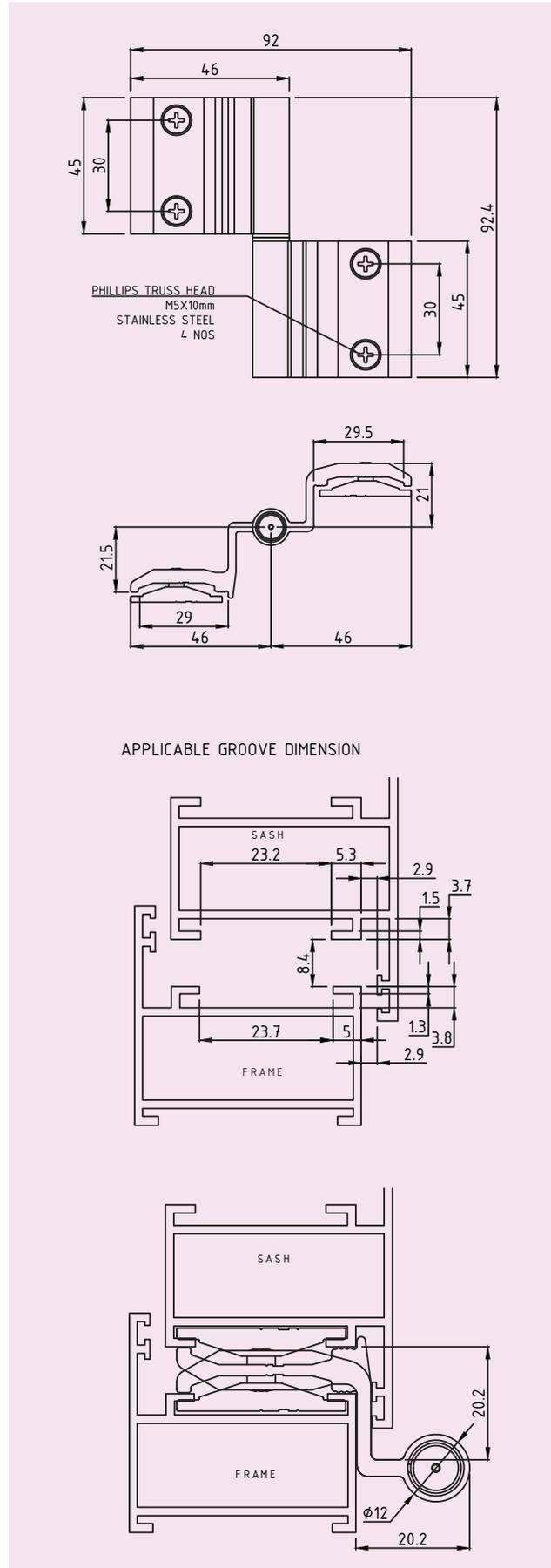
For WxH 1000x2000 mm size of the door/window.

TECHNICAL FEATURES

- Flash base hinges are supplied ready assembled and featured with quick fixing system using aluminium frame and sash grooves.
- RH and LH reversible.
- Aluminium extruded fixing plates to be slid inside the grooves before assembling of the frames, or part of the groove to be machined for fixing plates access.
- Special shape of the hinge and fixing plates made for practical and quick installation on frames and ensures that the hinge remains correctly positioned while the screws are tightened.

Packaging: 100 pcs/box

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All dimensions above are in mm

Butt Hinges

KHNG-07 | Butt Hinge



FUNCTION

RH/LH reversible hinge for aluminium overlapped profiles of doors and windows. It featured with the reliability and precision, and is fitted to the frames extremely quickly, even if the frames have already been assembled.

FINISH

Natural, Anodized, RAL powder coated.

PARTS WITH MATERIAL SPECIFICATION

Extruded aluminium: Hinge Frame and Sash Parts;
Stainless Steel: Pivot Pin, Screws (M5 x 10) and Plates;
Black: Pivot Pin Bushes.

CAPACITIES

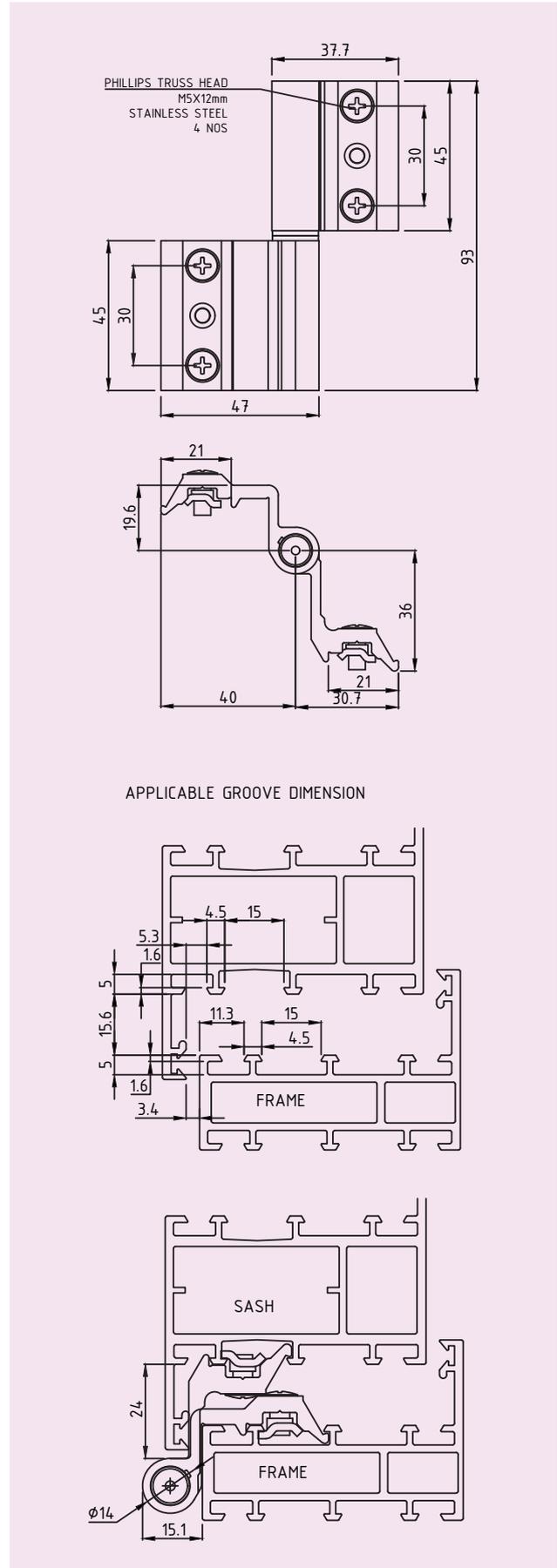
With 2 Hinges: 75 kg

With 3 Hinges: 85 kg

For WxH 1000x2000 mm size of the door/window.

TECHNICAL FEATURES

- Flash base hinges are supplied ready assembled and featured with quick fixing system using aluminium frame and sash grooves.
- RH and LH reversible.
- Special shape of the hinge and fixing plates made for practical and quick installation on pre-assembled frames and ensures that the hinge remains correctly positioned while the screws are tightened.



Packaging: 100 pcs/box

Butt Hinges

KHNG-09 | Butt Hinge



FUNCTION

RH/LH reversible hinge for aluminium overlapped profiles of doors and windows. It featured with the reliability and precision, and is fitted to the frames extremely quickly, even if the frames have already been assembled.

FINISH

Natural, Anodized, RAL powder coated.

PARTS WITH MATERIAL SPECIFICATION

Extruded aluminium: Hinge Frame and Sash Parts;
Stainless Steel: Pivot Pin, Screws (M5 x 10) and Plates;
Black: Pivot Pin Bushes.

CAPACITIES

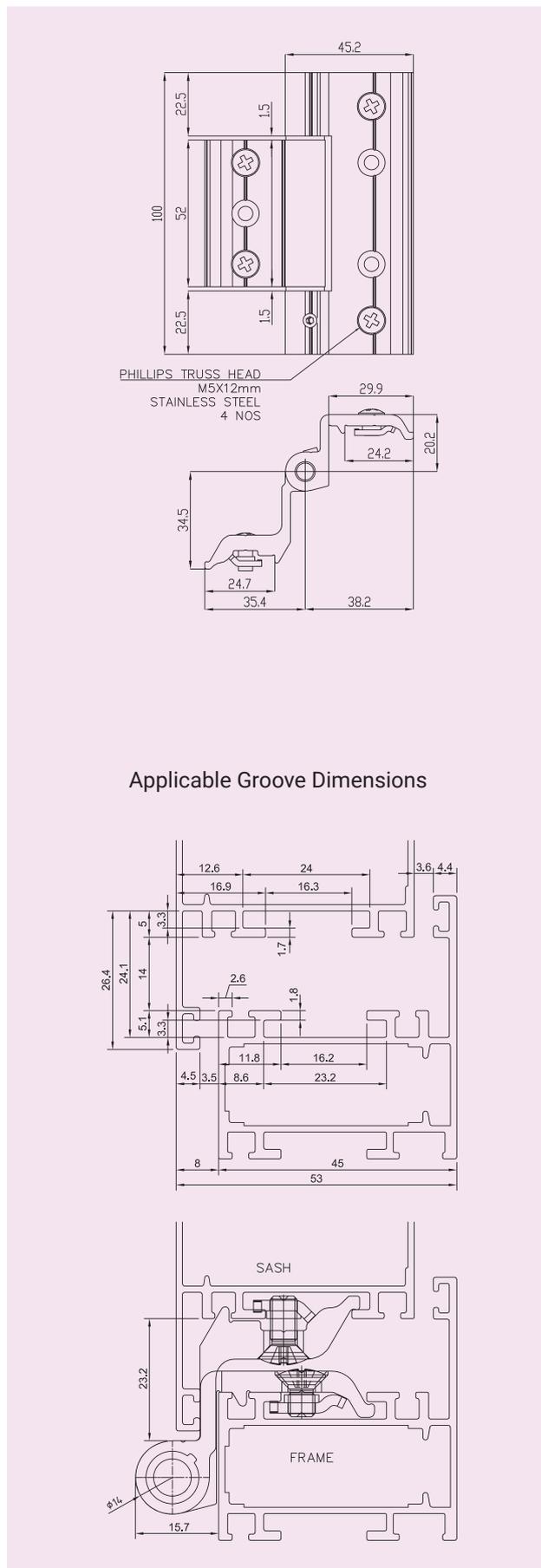
With 2 Hinges: 90 kg
With 3 Hinges: 100 kg
For WxH 1000x2000 mm size of the door/window.

TECHNICAL FEATURES

- Flash base hinges are supplied ready assembled and featured with quick fixing system using aluminium frame and sash grooves.
- RH and LH reversible.
- Special shape of the hinge and fixing plates made for practical and quick installation on pre-assembled frames and ensures that the hinge remains correctly positioned while the screws are tightened.

Packaging: 100 pcs/box

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Applicable Groove Dimensions

All dimensions above are in mm

Butt Hinges

7100/s | Butt Hinge



FUNCTION

RH/LH reversible hinge for aluminum overlapped profiles of medium duty doors and windows. It is featured with the reliability and precision, and is fitted to the frames extremely quickly.

FINISH

Natural, anodized, RAL powder coated.

PARTS WITH MATERIAL SPECIFICATION

Extruded aluminum: hinge frame and sash parts, fixing plates; Stainless steel: pivot pin, screws; Black Nylon: bushes.

CAPACITIES

With 2 Hinges: 120 kg

With 3 Hinges: 130 kg

For WxH 1000x2000 mm size of the door/window.

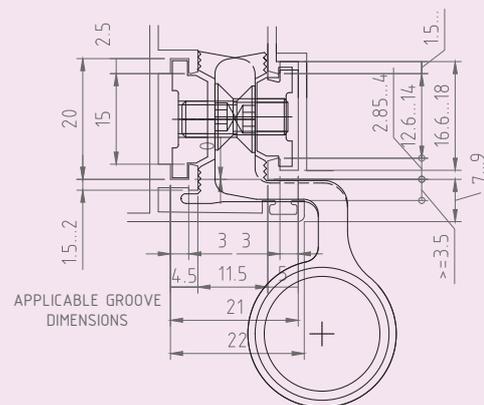
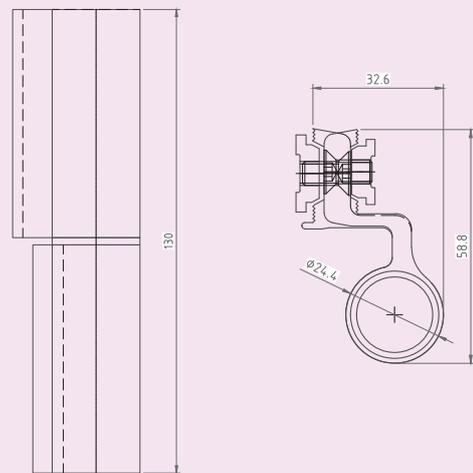
TECHNICAL FEATURES

- Hinges are supplied ready assembled and featured with quick fixing system using aluminum frame and sash grooves.
- RH and LH reversible.
- Aluminum extruded fixing plates to be slide inside the grooves before assembling of the frames, or part of the groove to be machined for fixing plates access.
- Special shape of the hinge and fixing plates made for practical and quick installation on frames and ensures that the hinge remains correctly positioned while the screws are tightened (torque ≥ 2 Nm).

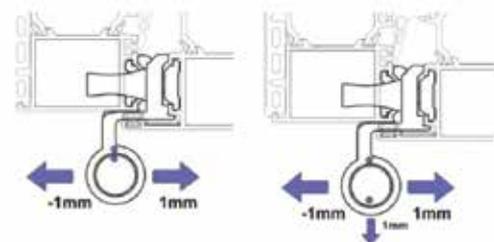
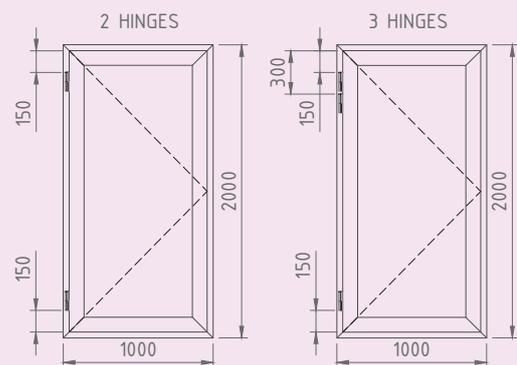
Packaging: 6 nos.

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HINGE DIMENSIONS



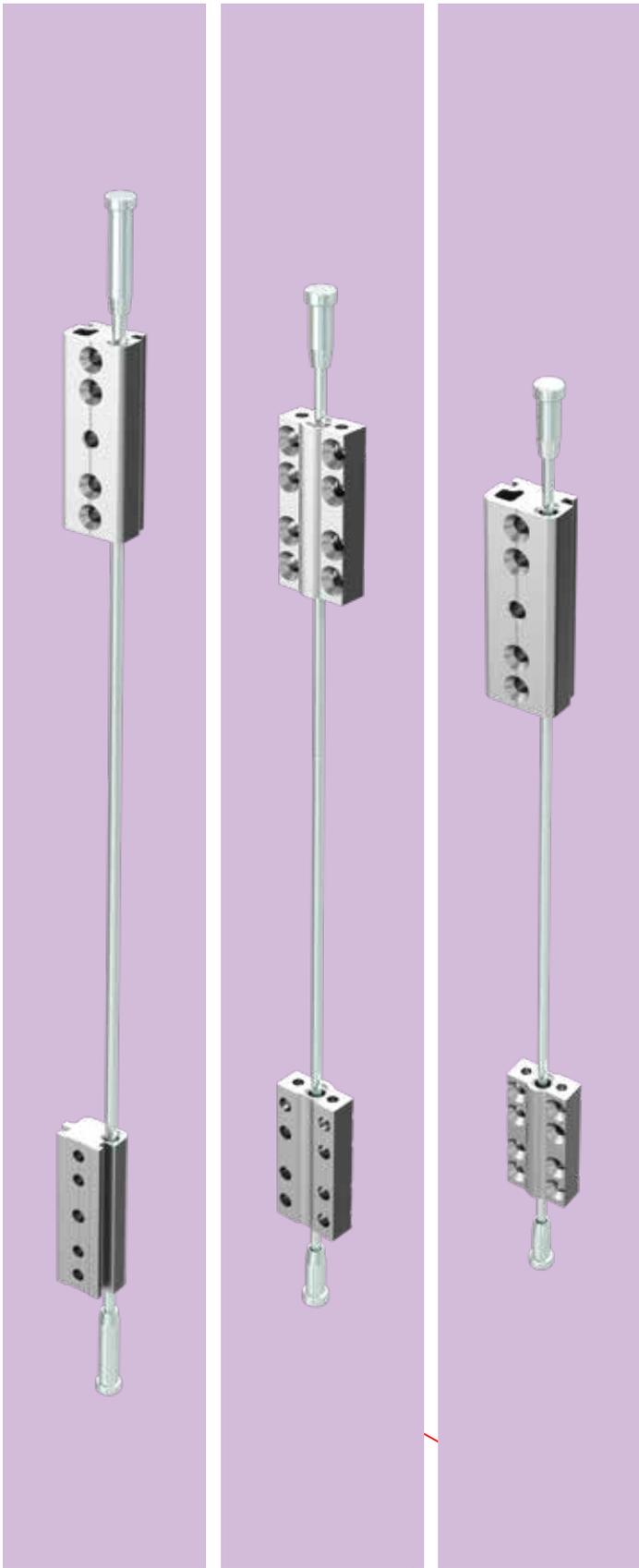
HINGE APPLICATION



All dimensions above are in mm



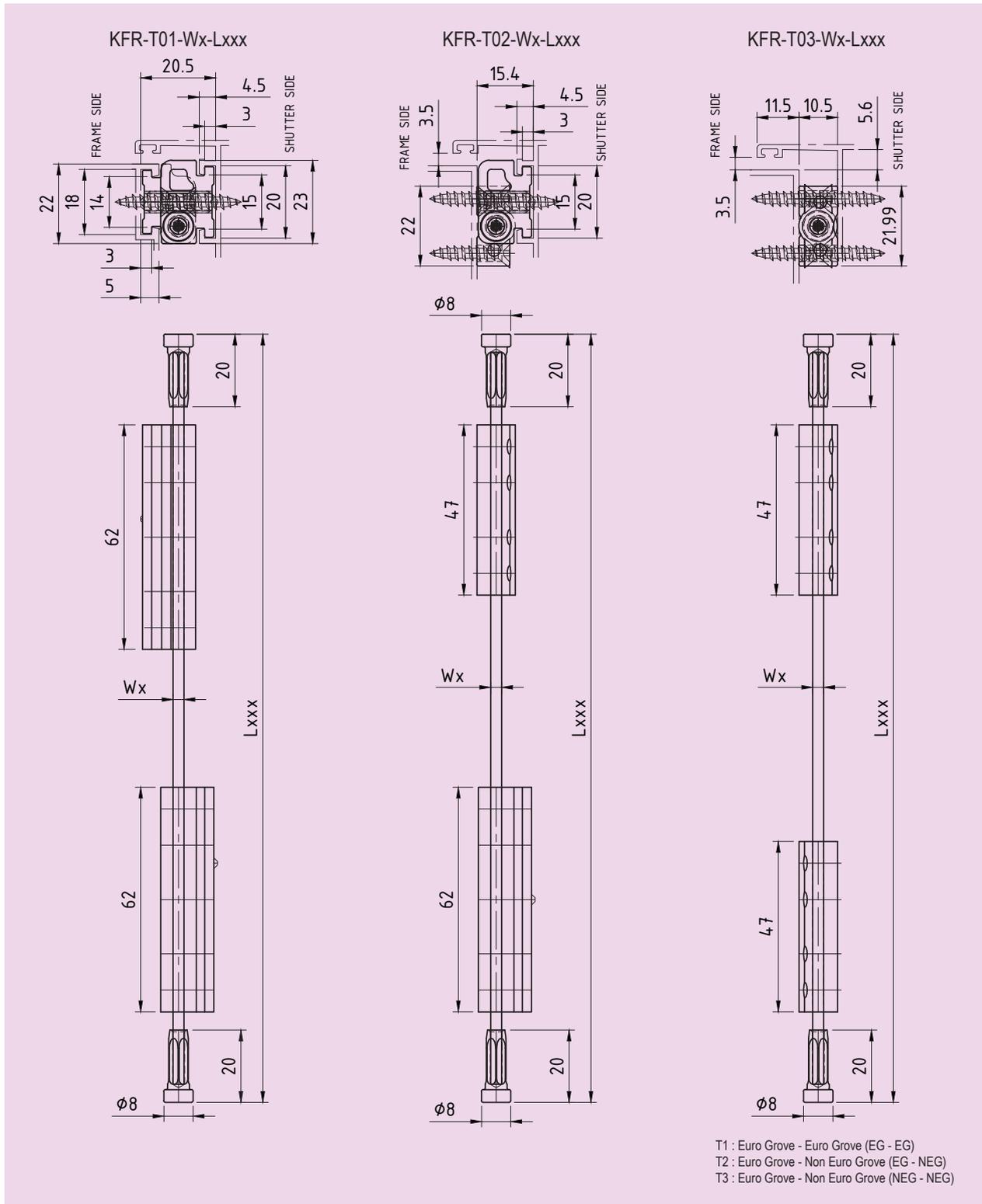
Fall Arrestors



Range

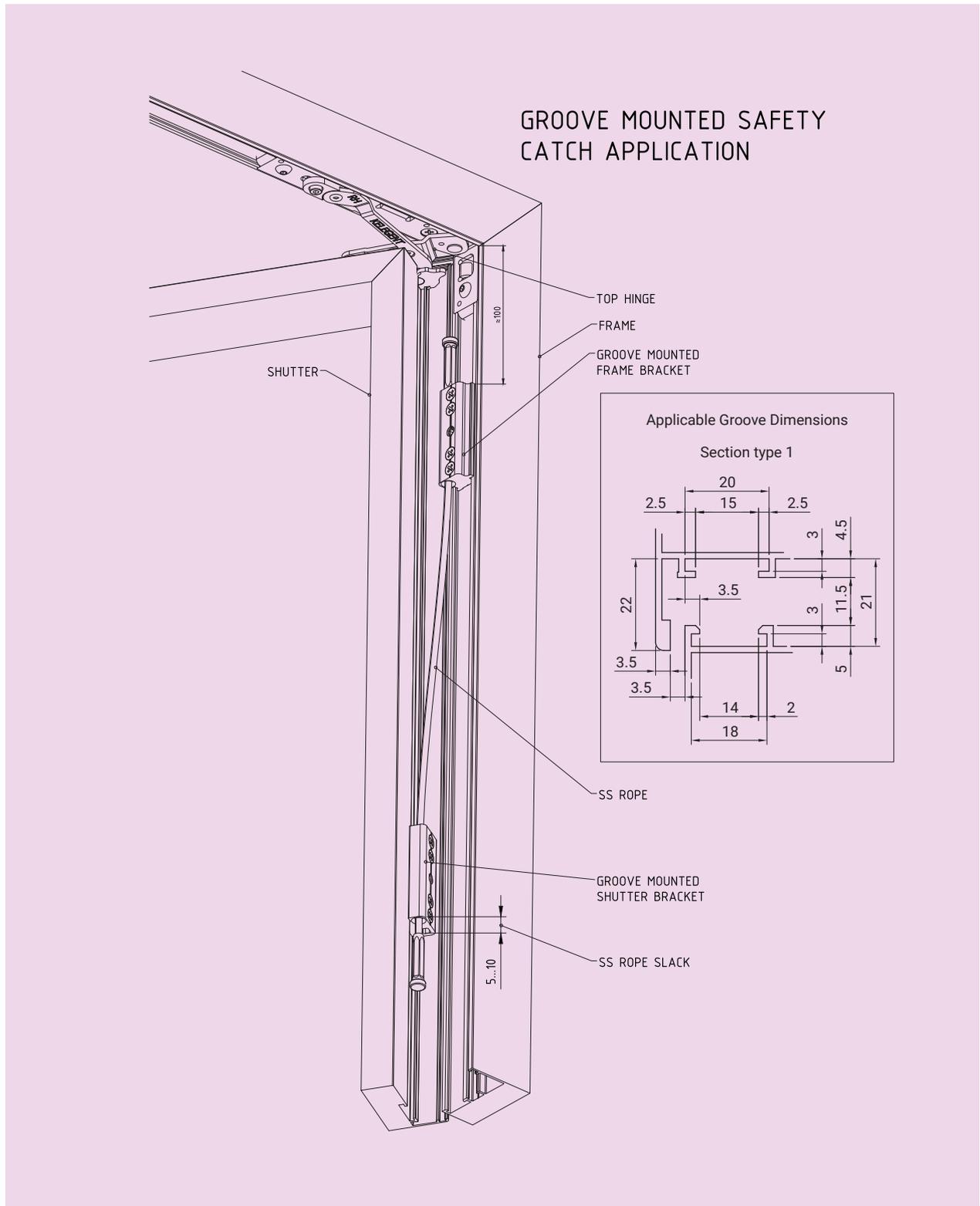
- 1. Euro Groove / Euro Groove (EG/EG)
- 2. Euro Groove / Non-Euro Groove (EG/NEG)
- 3. Non-Euro Groove / Non-Euro Groove (NEG/NEG)

Fall Arrestors



LOAD RATING DETAILS

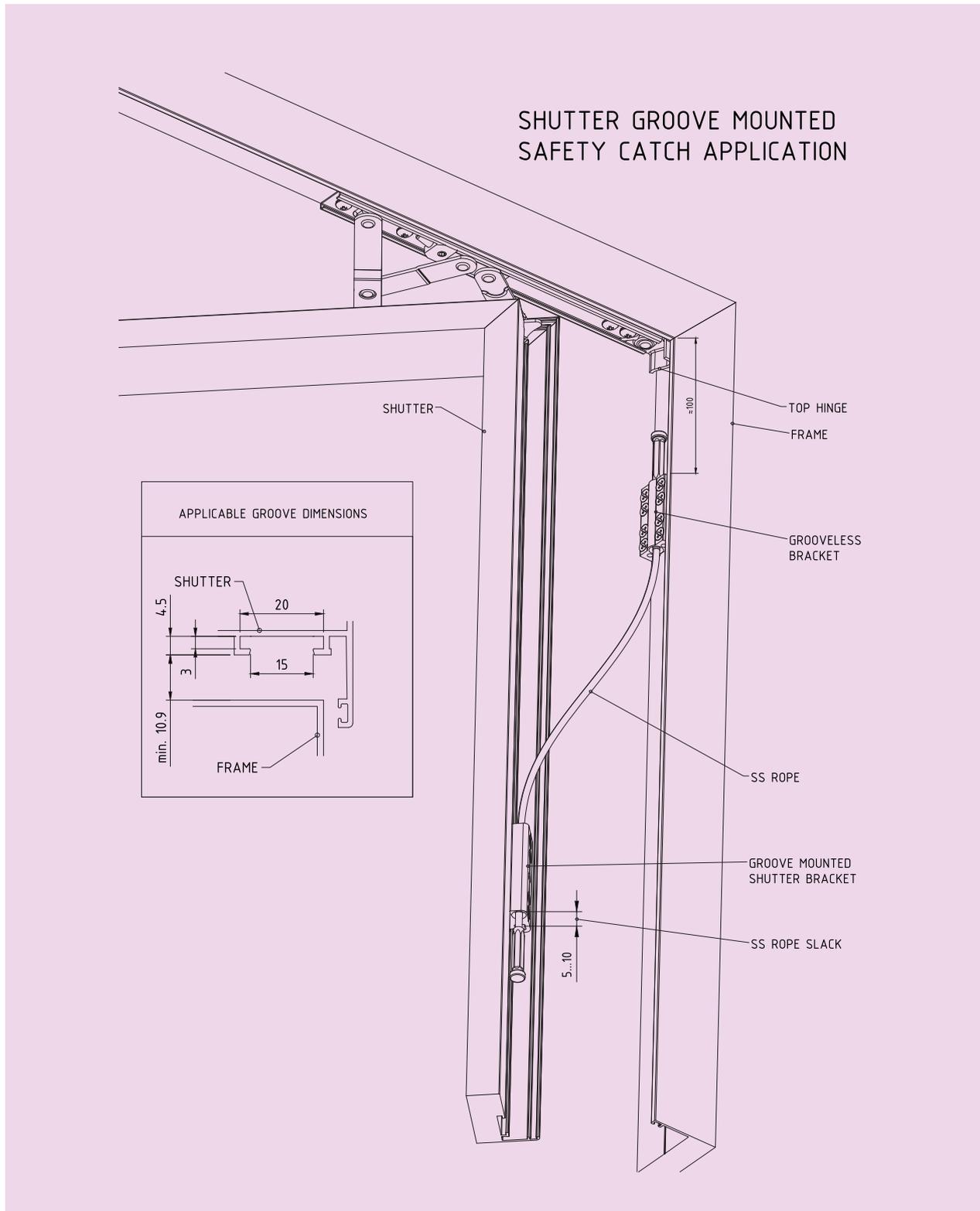
#	Art. Code	Grove Type	Wire Dia. Wx (mm)	Static Load (kgf)	Max. Vent weight (Kgs)
1	KFR-T01-W3-L435	EG - EG	3	450	90
2	KFR-T02-W3-L435	EG - NEG	3	450	90
3	KFR-T03-W3-L435	NEG - NEG	3	450	90
4	KFR-T01-W4-L535	EG - EG	4	815	160

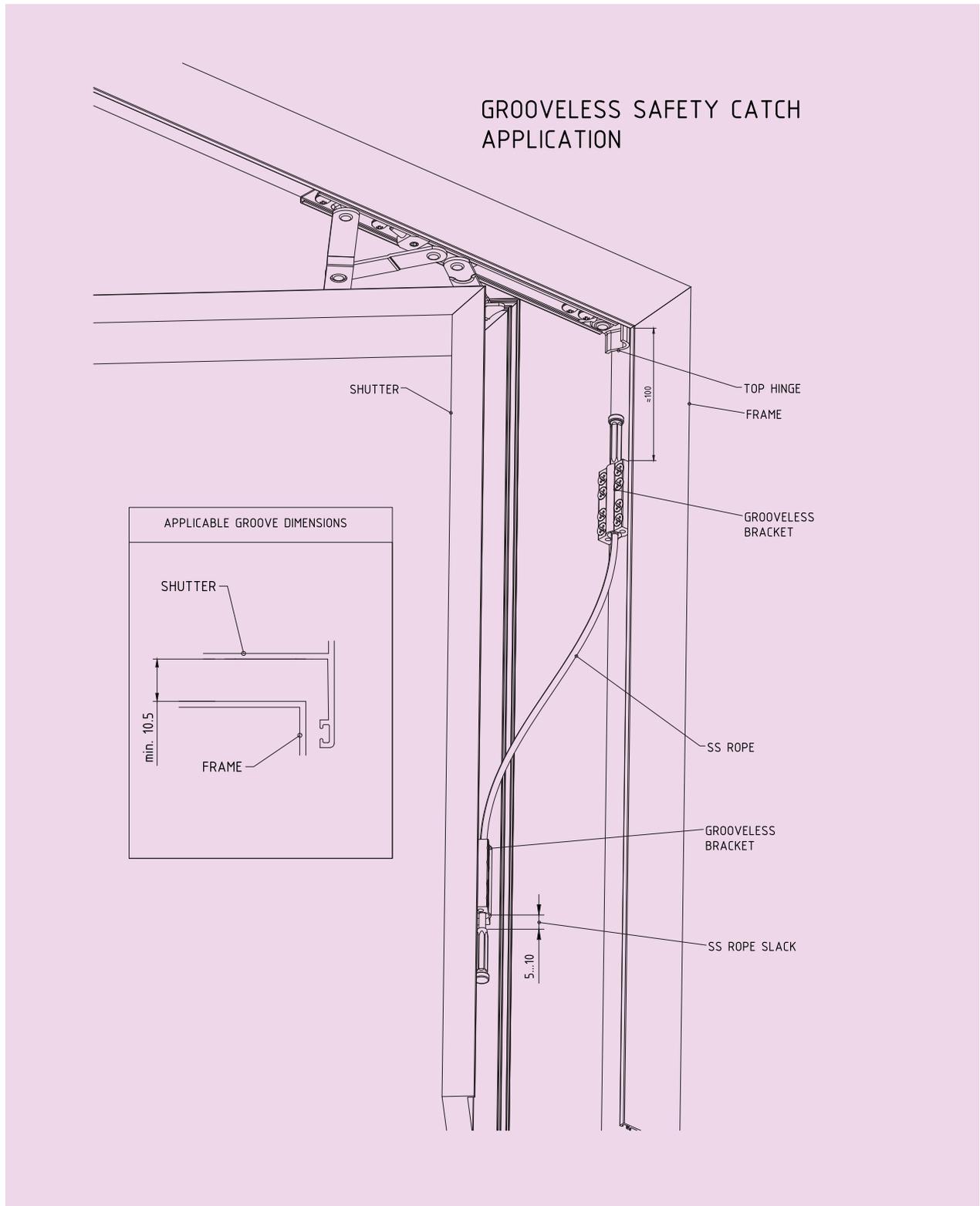


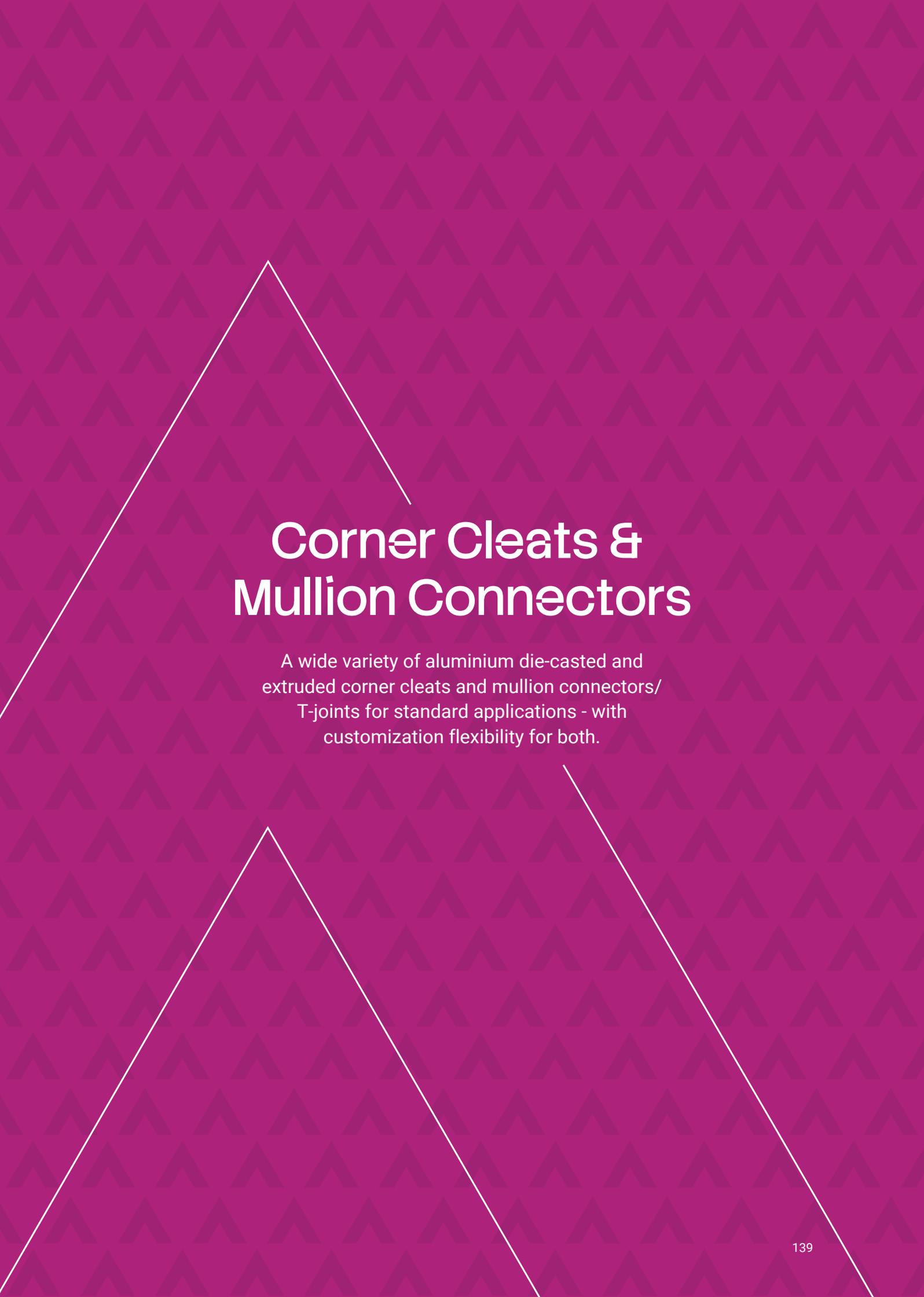
Fall Arrestors

Technical Application

KFR-T02-WX-LXXX







Corner Cleats & Mullion Connectors

A wide variety of aluminium die-casted and extruded corner cleats and mullion connectors/ T-joints for standard applications - with customization flexibility for both.



Range

1. Corner Cleats
2. Shutter Alignment Corners
3. Transom Mullion Connectors

KCJ-02 | Corner Cleat



FUNCTION

Die-cast aluminium corner cleat with external spring-loaded buttons provides quick click-on assembling of aluminium frames with 45° cutting profiles ends.

FINISH

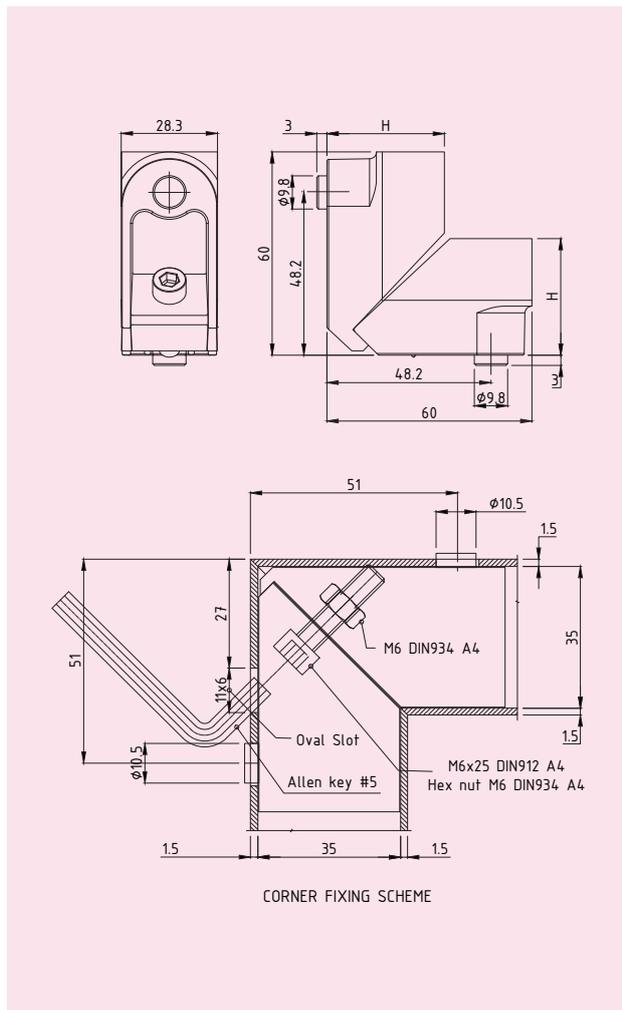
Natural

PARTS WITH MATERIAL SPECIFICATION

Die-cast aluminium body, 2 parts;
 Aluminium buttons;
 Stainless Steel springs;
 Galvanized steel spring covers;
 Hex socket cap head screw M6x25 DIN912 A4-1 nos.
 Hex nut M6 DIN934 A4-1 nos.

TECHNICAL FEATURES

- Die-cast aluminium corner cleat with external spring-loaded buttons (Ø9.8 mm) designed for quick and secure aluminium frames corner assembling.
- Fixation processed by click-on fixation of the spring-loaded buttons on provided Ø10.5 mm holes in aluminium profiles and tightening of the socket button head screw using hex Allen key #5.
- Applicable profile camera dimensions 35.0x29.2 mm.



Item Code	Size (mm)	H (mm)	Profile camera dimensions (mm)
KCJ-02	34.5 X 28.3	34.5	35.0 x 29.0
KCJ-02-V1	21.5 X 28.3	21.5	22.0 x 29.0
KCJ-02-V2	31.5 X 28.3	31.5	32.0 x 29.0
KCJ-02-V3	30.5 X 28.3	30.5	31.0 x 29.0
KCJ-02-V4	33.0 X 28.3	33.0	33.0 x 28.3
KCJ-02-V5	25.5 X 28.3	25.5	25.5 x 28.3
KCJ-02-V4-SP1 (with spacer)	34.5 X 28.3	34.5	35.0 x 29.0

Packaging: 250 pcs/box

Corner Cleats & Mullion Connectors >> Corner Cleats

KCJ-04, KCJ-08, KCJ-09, KCJ-13 | Corner Cleat



FUNCTION

Die-cast aluminium corner cleat with external spring-loaded buttons provides quick click-on assembling of aluminium frames with 45° cutting profiles ends.

FINISH

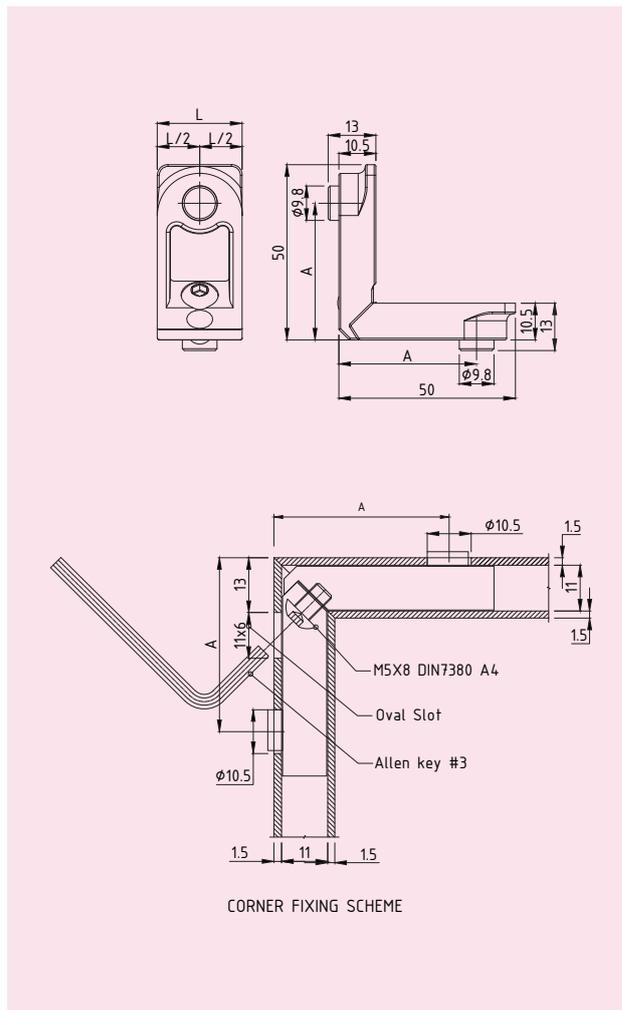
Natural

PARTS WITH MATERIAL SPECIFICATION

Die-cast aluminium body, 2 parts;
 Aluminium buttons;
 Stainless Steel springs;
 Galvanized steel spring covers;
 Hex socket cap head screw M6x25 DIN912 -1 nos.

TECHNICAL FEATURES

- Die-cast aluminium corner cleat with external spring-loaded buttons (Ø9.8 mm) designed for quick and secure aluminium frames corner assembling.
- Fixation processed by click-on fixation of the spring-loaded buttons on provided Ø10.5 mm holes in aluminium profiles and tightening of the socket button head screw using hex Allen key #3.



Code	L (mm)	A (mm)	Size (mm)	Profile Camera Dimensions (mm)
KCJ-04	24.0	39.0	10.5 X 24.0	11.0 X 24.5
KCJ-08	19.0	37.5	10.5 X 19.0	11.0 X 19.5
KCJ-09	21.5	37.5	10.5 X 21.5	11.0 X 22.0
KCJ-13	28.5	41.0	10.5 X 28.5	11.0 X 29.0

Packaging: 250 pcs/box

KCJ-11 | Corner Cleat



FUNCTION

Die-cast aluminium corner cleat with external spring-loaded buttons provides quick click-on assembling of aluminium frames with 45° cutting profiles ends.

FINISH

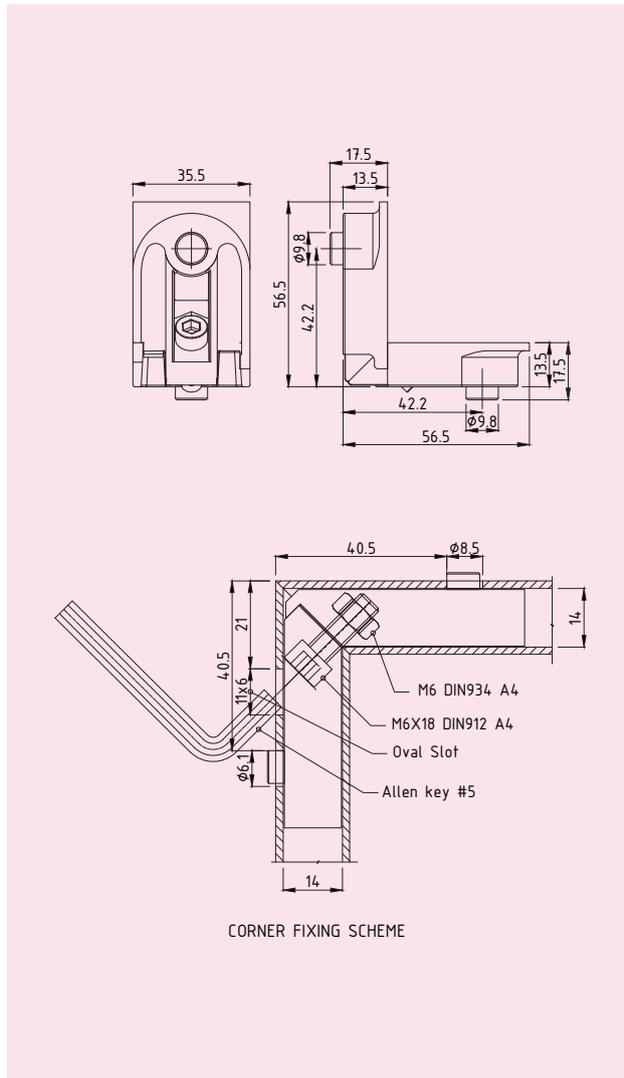
Natural

PARTS WITH MATERIAL SPECIFICATION

Die-cast aluminium Body, 2 parts;
 Aluminium buttons;
 Stainless steel springs;
 Galvanized steel spring covers;
 Hex socket cap head screw M6x20 DIN912 A4-1 nos.
 Hex nut M6 DIN934 A4-1 nos.

TECHNICAL FEATURES

- Die-cast aluminium corner cleat with external spring-loaded buttons (Ø9.8 mm) designed for quick and secure aluminium frames corner assembling.
- Fixation processed by click-on fixation of the spring-loaded buttons on provided Ø10.5 mm holes in aluminium profiles and tightening of the hex socket cap head screw through oval slot using hex Allen key #5.
- Applicable profile camera dimensions 14.0x36.0 mm.



Packaging: 250 pcs/box

KCJ-12 | Corner Cleat



FUNCTION

Die-cast aluminium corner cleat with external spring-loaded buttons provides quick click-on assembling of aluminium frames with 45° cutting profiles ends.

FINISH

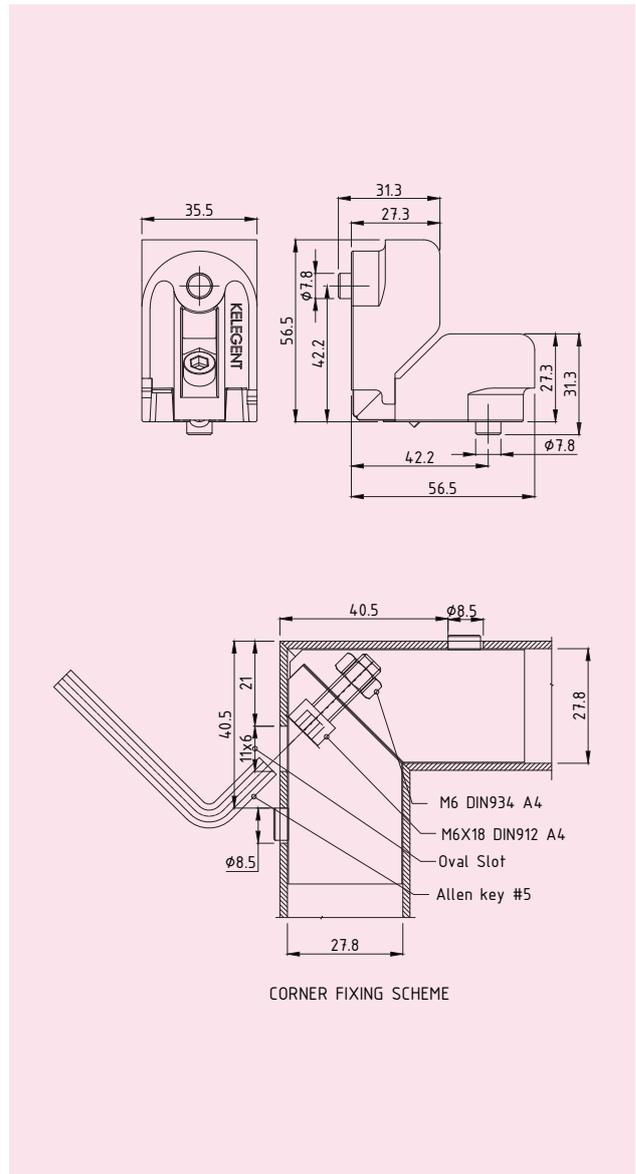
Natural

PARTS WITH MATERIAL SPECIFICATION

Die-cast aluminium Body, 2 parts;
 Aluminium buttons;
 Stainless steel springs;
 Galvanized steel spring covers;
 Hex socket cap head screw M6x20 DIN912 A4-1 nos.
 Hex nut M6 DIN934 A4-1 nos.

TECHNICAL FEATURES

- Die-cast aluminium corner cleat with external spring-loaded buttons (Ø7.8 mm) designed for quick and secure aluminium frames corner assembling.
- Fixation processed by click-on fixation of the spring-loaded buttons on provided Ø8.5 mm holes in aluminium profiles and tightening of the hex socket cap head screw through the oval slot using hex Allen key #5.
- Applicable profile camera dimensions 27.8 x 36.0 mm.



Packaging: 250 pcs/box

KCJ-14 | Corner Cleat



FUNCTION

Die-cast aluminium corner cleat with external spring-loaded buttons provides quick click-on assembling of aluminium frames with 45° cutting profiles ends.

FINISH

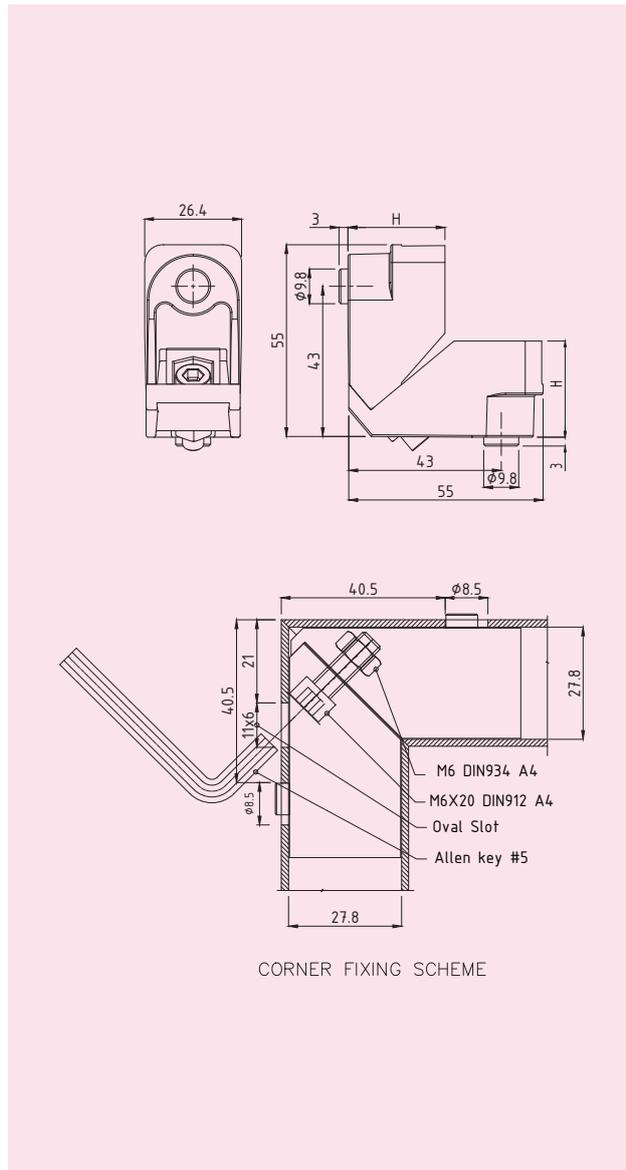
Natural

PARTS WITH MATERIAL SPECIFICATION

- Die-cast aluminium Body, 2 parts;
- Aluminium buttons;
- Stainless steel springs;
- Galvanized steel spring covers;
- Hex socket cap head screw M6x20 DIN912 A4-1 nos.
- Hex nut M6 DIN934 A4-1 nos.

TECHNICAL FEATURES

- Die-cast aluminium corner cleat with external spring-loaded buttons (Ø9.8 mm) designed for quick and secure aluminium frames corner assembling.
- Fixation processed by click-on fixation of the spring-loaded buttons on provided Ø10.5 mm holes in aluminium profiles and tightening of the hex socket cap head screw through the oval slot using hex Allen key #5.
- Applicable profile camera dimensions 27.8 x 27.0 mm.



Code	H (mm)	Size (mm)	Profile Camera Dimensions HXW (mm)
KCJ-14	27.2	27.2 X 26.4	27.7 x 27.0
KCJ-14-V1	25.5	25.5 X 26.4	26.0 x 27.0
KCJ-14-V2	21.5	21.5 X 26.4	22.0 x 27.0

Packaging: 250 pcs/box

KCJ-EXT 9.5mm series | Corner Cleat



FUNCTION

Aluminium extruded corner cleat with external spring-loaded buttons provides quick click-on assembling of aluminium frames with 45° cutting profiles ends.

FINISH

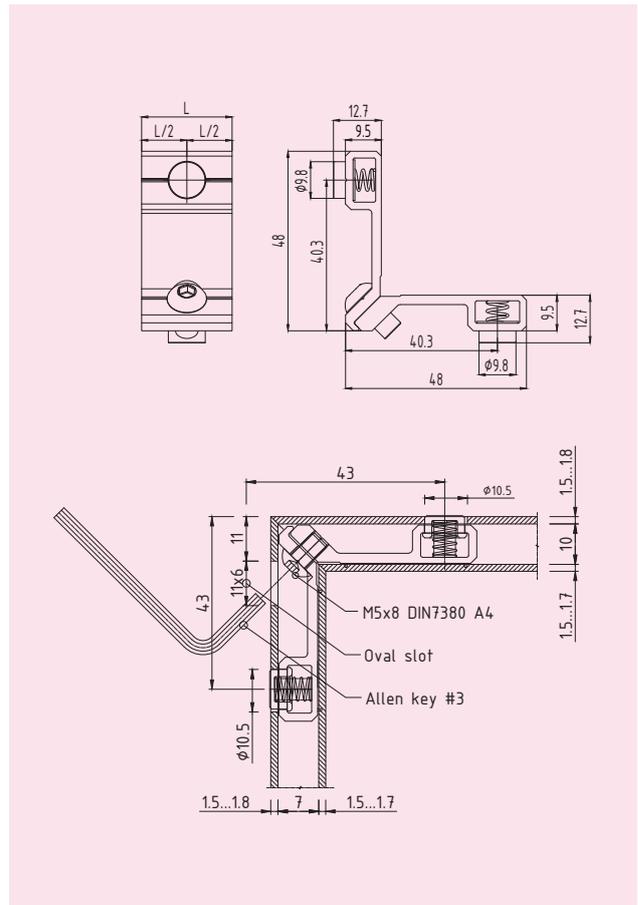
Natural

PARTS WITH MATERIAL SPECIFICATION

Aluminium extruded Body, 2 parts;
Aluminium buttons;
Stainless steel springs;
Carbon steel socket button head screw M6x12
DIN7380-1 nos.

TECHNICAL FEATURES

- Aluminium extruded corner cleat with external spring-loaded buttons (Ø9.8 mm) for quick and secure aluminium frames corner assembling.
- Fixation processed by click-on fixation of the spring-loaded buttons on provided Ø10.5 mm holes in aluminium profiles and tightening of the socket button head screw using hex Allen key #3.



Item Code	L (mm)	Size (mm)	Profile Camera Dimensions HXW (mm)
KCJ-EXT-01	41.0	9.5 x 41.0	10.0 X 41.5
KCJ-EXT-10	19.0	9.5 x 19.0	10.0 X 19.5
KCJ-EXT-11	21.5	9.5 x 21.5	10.0 X 22.0
KCJ-EXT-12	24.0	9.5 x 24.0	10.0 X 24.5
KCJ-EXT-15	35.5	9.5 x 35.5	10.0 X 36.0
KCJ-EXT-22	17.5	9.5 x 17.5	10.0 X 18.0

Packaging: 250 pcs/box

KCJ-EXT 10mm series | Corner Cleat



FUNCTION

Aluminium extruded corner cleat with external spring-loaded buttons provides quick click-on assembling of aluminium frames with 45° cutting profiles ends.

FINISH

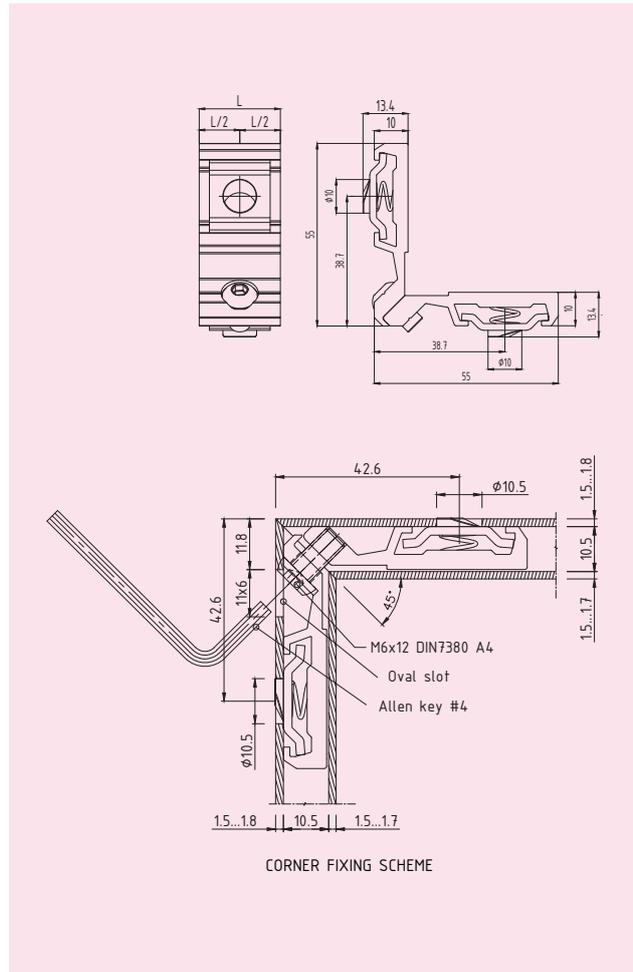
Natural

PARTS WITH MATERIAL SPECIFICATION

Aluminium extruded body, 2 parts;
Galvanized steel buttons;
Stainless steel springs;
Socket button head screw M6x12 DIN7380 -1 nos.

TECHNICAL FEATURES

- Aluminium extruded corner cleat with external spring-loaded buttons (ø10 mm) for quick and secure aluminium frames corner assembling.
- Fixation processed by click-on fixation of the spring-loaded buttons on provided ø10.5 mm holes in aluminium profiles and tightening of the socket button head screw using hex Allen key #3.



Item Code	L (mm)	Size (mm)	Profile Camera Dimensions HXW (mm)
KCJ-EXT-18	21.5	10.0 x 21.5	10.5 X 22.0
KCJ-EXT-19	24.0	10.0 x 24.0	10.5 X 24.5
KCJ-EXT-21	41.0	10.0 x 41.0	10.5 X 41.5
KCJ-EXT-25	26.5	10.0 x 26.5	10.5 X 27.0
KCJ-EXT-28	36.0	10.0 x 36.0	10.5 X 36.5
KCJ-EXT-29	29.8	10.0 x 29.8	10.5 X 30.3

Packaging: 250 pcs/box

KCJ-EXT 13.2mm series | Corner Cleat



FUNCTION

Aluminium extruded corner cleat with external spring-loaded buttons provides quick click-on assembling of aluminium frames with 45° cutting profiles ends.

FINISH

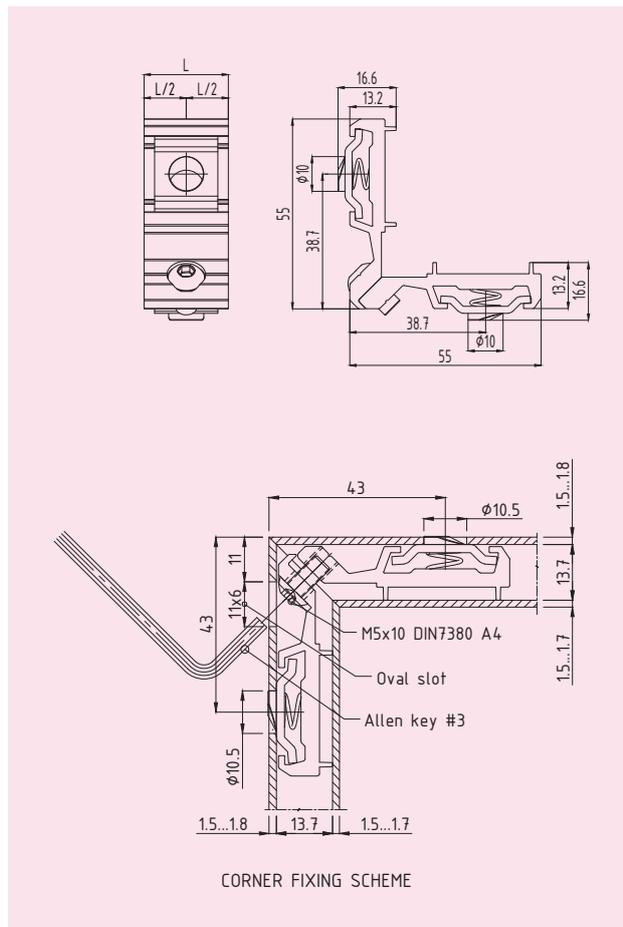
Natural

PARTS WITH MATERIAL SPECIFICATION

Aluminium extruded body, 2 parts;
Galvanized steel buttons;
Stainless steel springs;
Socket button head screw M6x12 DIN7380 -1 nos.

TECHNICAL FEATURES

- Aluminium extruded corner cleat with external spring-loaded buttons (ø10 mm) for quick and secure aluminium frames corner assembling.
- Fixation processed by click-on fixation of the spring-loaded buttons on provided ø10.5 mm holes in aluminium profiles and tightening of the socket button head screw using hex Allen key #3.

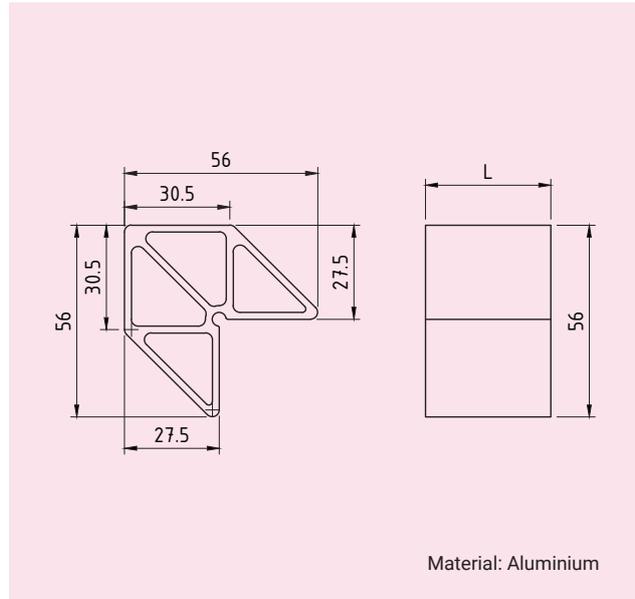


Item Code	L (mm)	Size (mm)	Profile Camera Dimensions HXW (mm)
KCJ-EXT-20	27.0	13.2 x 27.0	13.7 X 28.5
KCJ-EXT-24	24.0	13.2 x 24.0	13.7 X 24.5

Packaging: 250 pcs/box

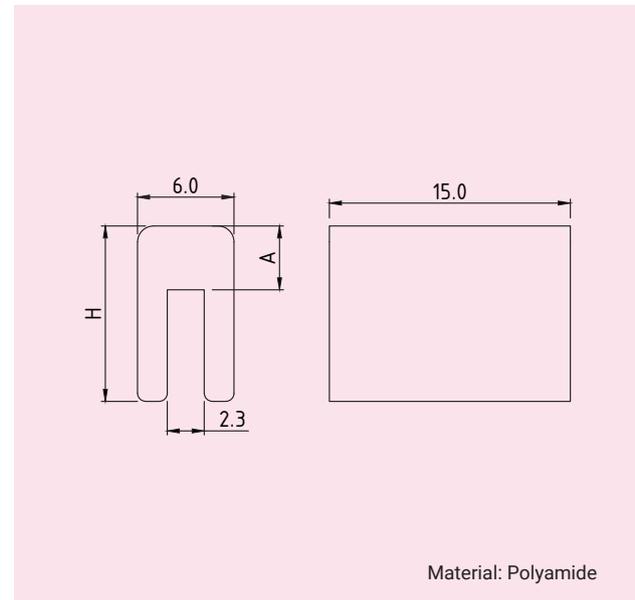
Corner Cleats & Mullion Connectors >> Corner Cleats

KCJ-EXT (Spacer) | H:27.5mm



Packaging: 250 pcs/box

KCJ-MI-01/02 | Corner Cleat Adapter

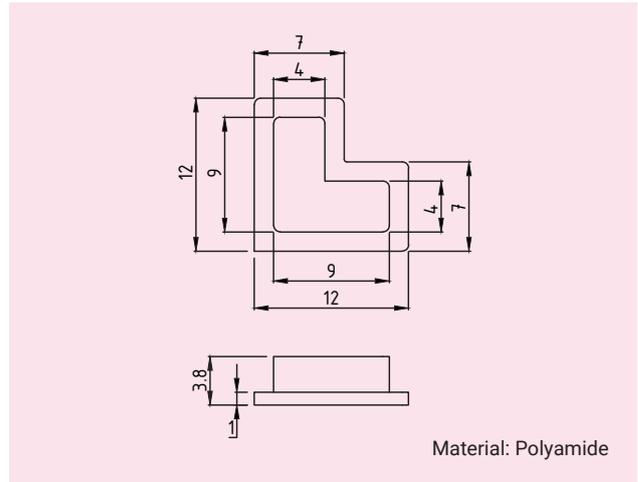


Item Code	A (mm)	H (mm)
KCJ-MI-01	3.0	8.0
KCJ-MI-02	6.0	11.0

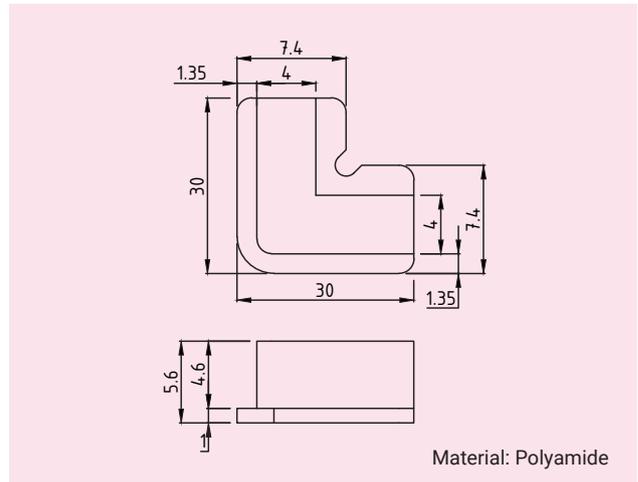
Packaging: 1000 pcs/box

Corner Cleats & Mullion Connectors >> Shutter Alignment Corners

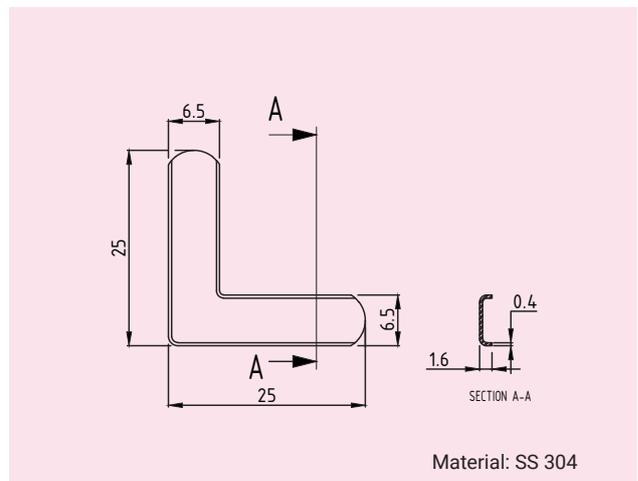
AC-06 | Alignment Shoulder for Frame



AC-06-V1 | Alignment Shoulder for Frame



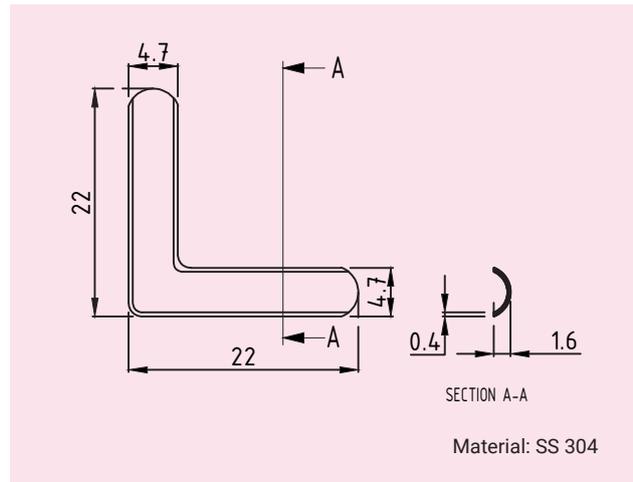
2650 | SS - Corner



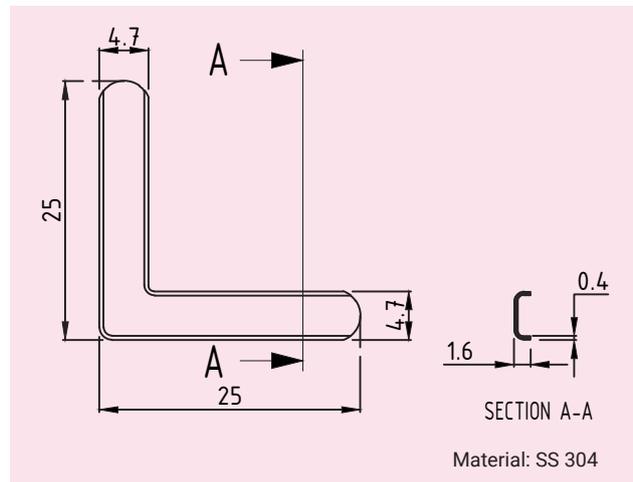
Packaging: 1000 pairs/box

Corner Cleats & Mullion Connectors >> Shutter Alignment Corners

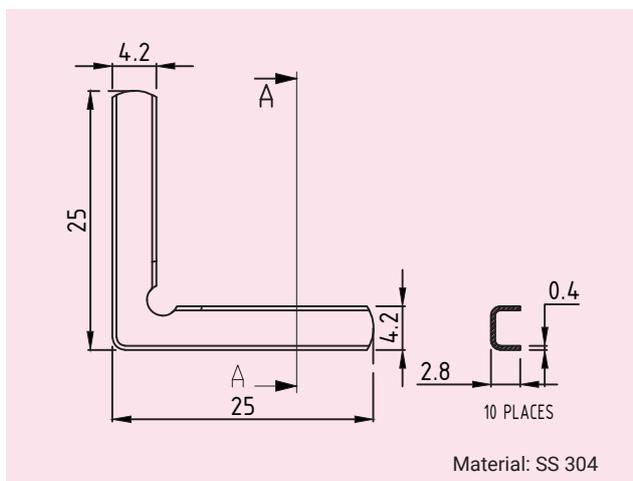
00365 | SS – Corner



F023C | SS – Corner



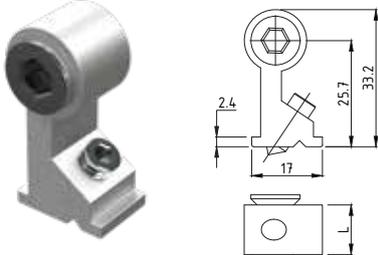
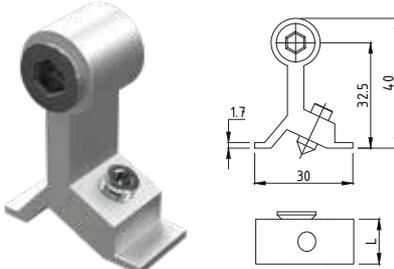
KMI-MW-01 | SS – Corner



Packaging: 1000 pairs/box

Corner Cleats & Mullion Connectors >> Transom Mullion Connectors

KCN-06 / 13 | Mullion Connectors

KCN #	Drawing	Material Specification	Item Code	L(mm)
KCN-06		<p>Extruded aluminium body, Galvanized steel screw and grub screw.</p> <p>M8 x 12 CSK Lock Screw M6 x 16 Allen Grub Screw</p>	KCN-06	12.0
			KCN-06-V1	10.5
			KCN-06-V2	9.5
			KCN-06-V3	33.5
			KCN-06-V4	13.5
			KCN-06-V5	15.0
			KCN-06-V6	25.0
KCN-13		<p>Extruded aluminium body, Galvanized steel screw and grub screw.</p> <p>M8 x 12 CSK Lock Screw M6 x 16 Allen Grub Screw</p>	KCN-13	13.8
			KCN-13-V1	30.1

FINISH

Natural

TECHNICAL FEATURES

Tee and cross connector support for joining extruded aluminium profile sections. Quick to install and very secure. Supplied with a special lock screw that does not interfere with the glass top.

Packaging: 500 pcs/box

Corner Cleats & Mullion Connectors >> Transom Mullion Connectors

KCN-02 / 04 / 05 / 07 / 14 | Transom / Mullion Connectors

KCN-02



KCN-04



KCN-07



KCN-14



PRODUCT DETAILS

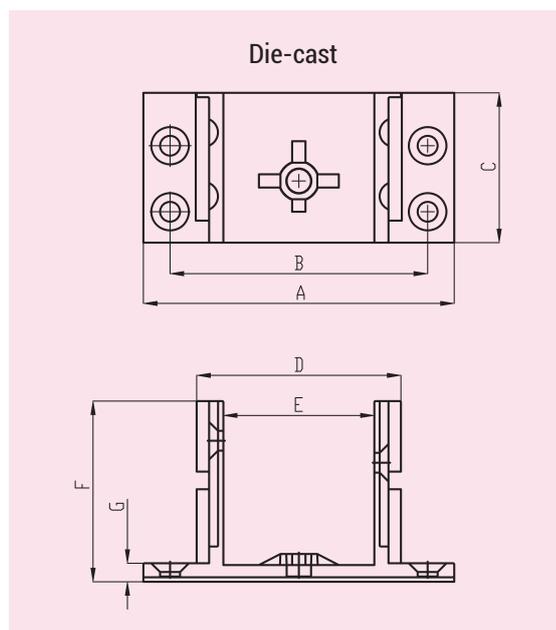
Item Code	A	B	C	D	E	F	G
KCN-02	70.0	58.0	34.0	46.0	34.0	41.0	4.2
KCN-04	70.0	59.0	31.5	54.5	40.5	40.0	3.5
KCN-07	72.0	60.0	36.5	59.0	37.0	38.0	3.0
KCN-14	56.0	44.0	22.0	32.0	19.8	41.0	4.0

FINISH

Electroplated / Powder coated

MATERIAL SPECIFICATION

ZAMAK



Packaging: 500 pcs/box





Miscellaneous Accessories

This category includes everything from caps to shock absorbers to glass packing shims.



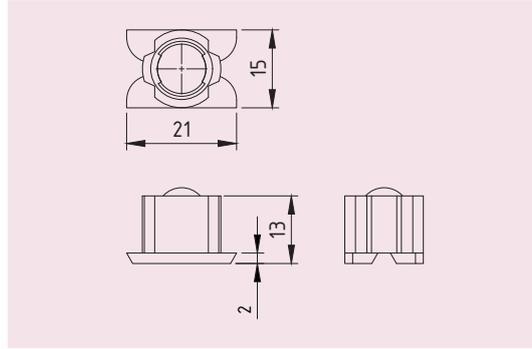
Range

1. Deflector Valves
2. Interlock Caps
3. Shock Absorbers
4. Anti-Dust Plugs
5. Flimesh Screen Handle
6. Screw Hole Cap
7. Glass Packing Shims

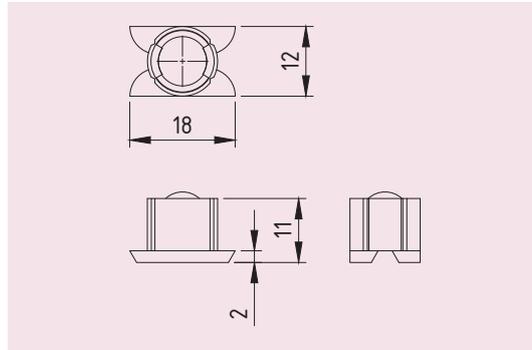
Miscellaneous Accessories >> Deflector Valves

Deflector Valves

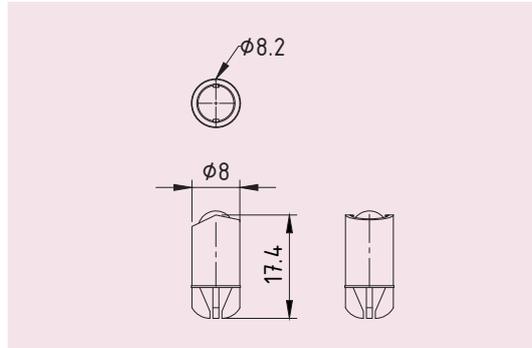
KELMISC00009



KELMISC00019



KELMISC00029



Packaging: 1000 pcs/box

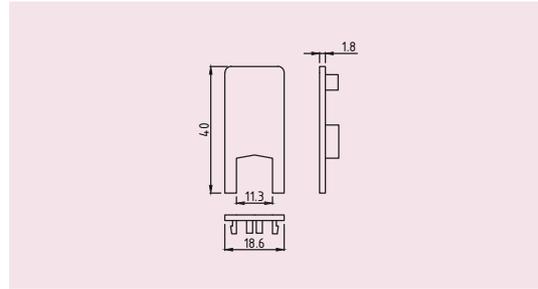
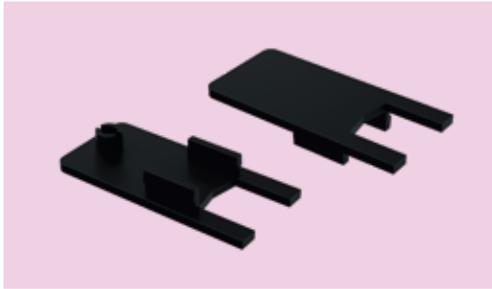
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All dimensions above are in mm

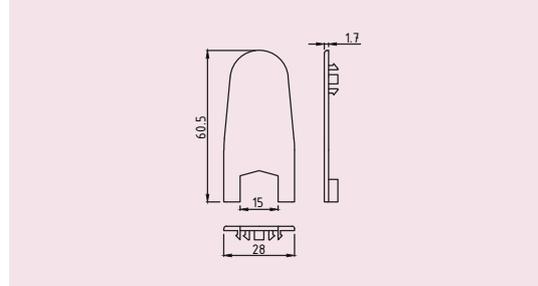
Miscellaneous Accessories >> Interlock Caps

AC-IC

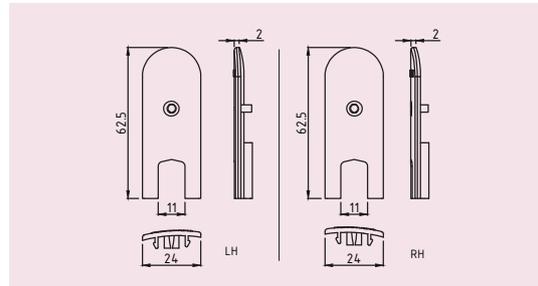
AC-IC-01



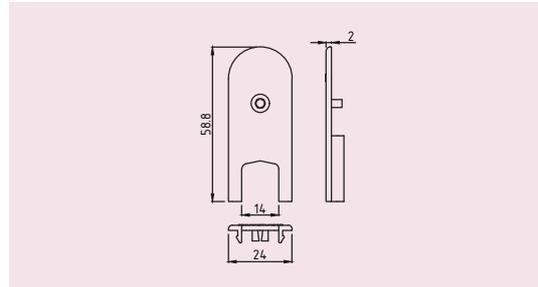
AC-IC-02



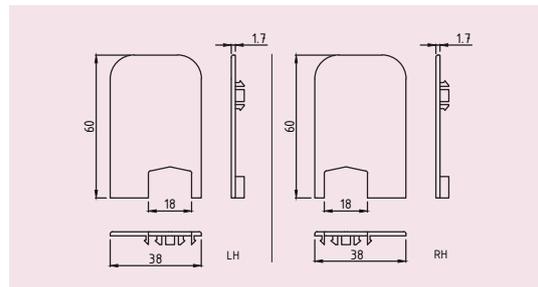
AC-IC-03



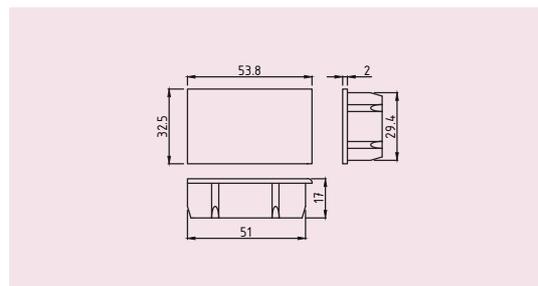
AC-IC-04



AC-IC-05



AC-IC-06



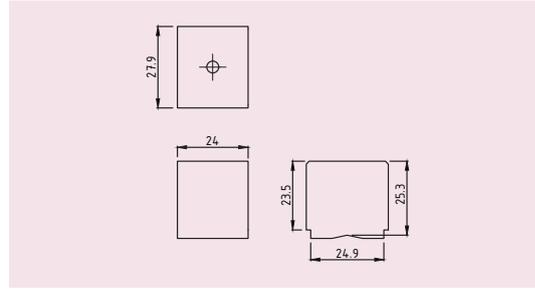
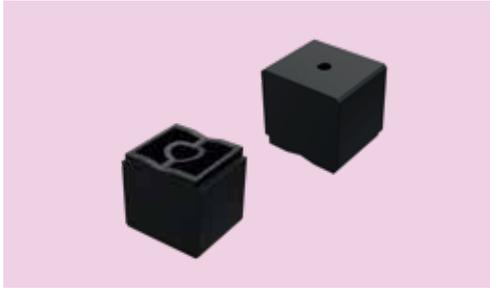
Packaging: 500 pcs/box

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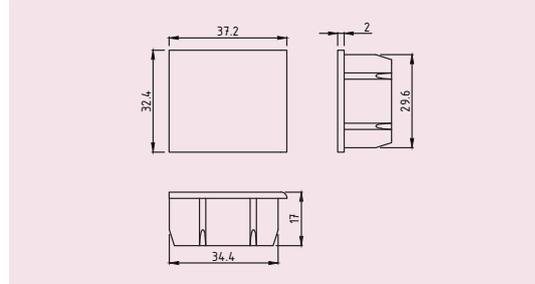
All dimensions above are in mm

Miscellaneous Accessories >> Interlock Caps

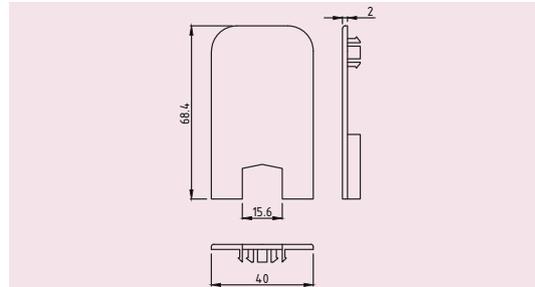
AC-IC-07



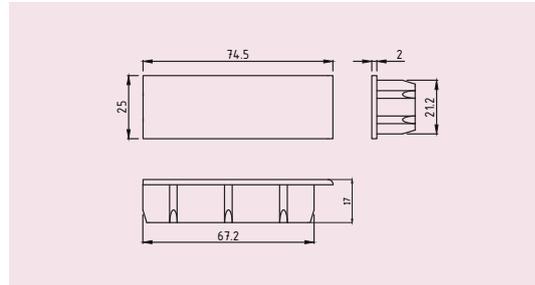
AC-IC-08



AC-IC-09



AC-IC-10



FUNCTION

Designed to cover machining on profiles after sash installation and adjustment inside the frames.

FINISH

Natural

MATERIAL SPECIFICATION

Polyamide

TECHNICAL FEATURES

- Caps bodies are made of black NYLON. To be fixed on the top and bottom parts of the interlock profiles after installation and adjustments of the sash inside the frames.
- Fixation on profiles provided by the "hook" type clips, or small screws with expanded plastic ribs on the back side of the caps, to have a nice aesthetic view.
- Recommended for suitable sliding interlock profiles to cover machined slots and improve aesthetic view.

Packaging: 500 pcs/box

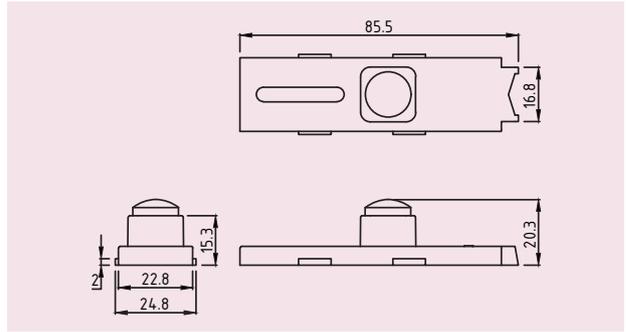
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All dimensions above are in mm

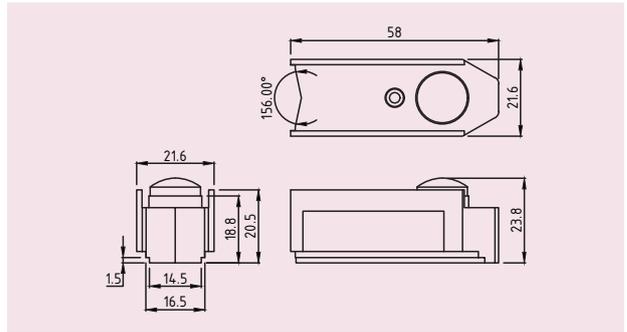
Miscellaneous Accessories >> Shock Absorbers

AC-SA

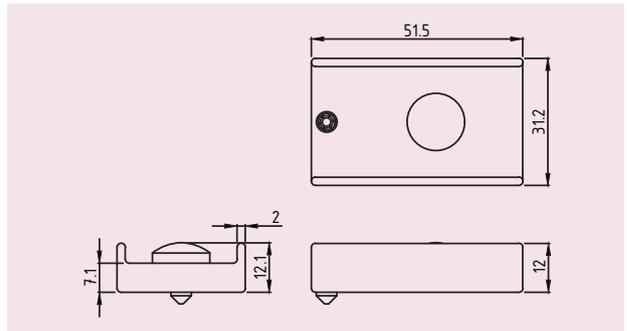
AC-SA-01



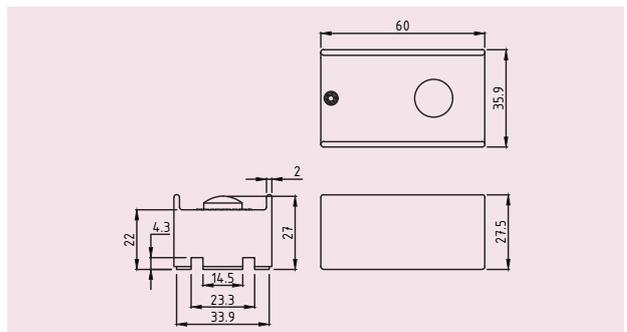
AC-SA-03



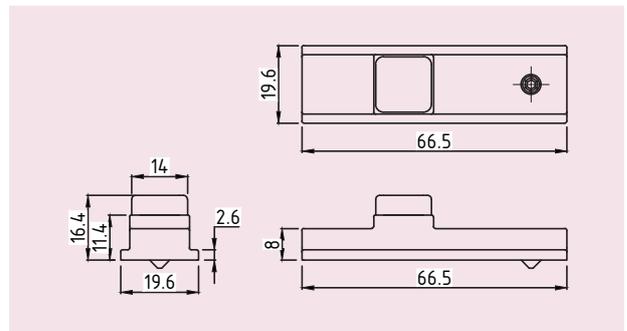
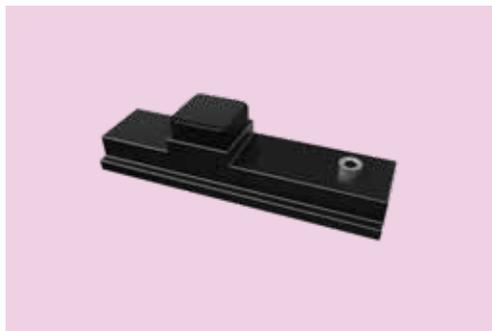
AC-IC-04



AC-SA-05



AC-SA-17



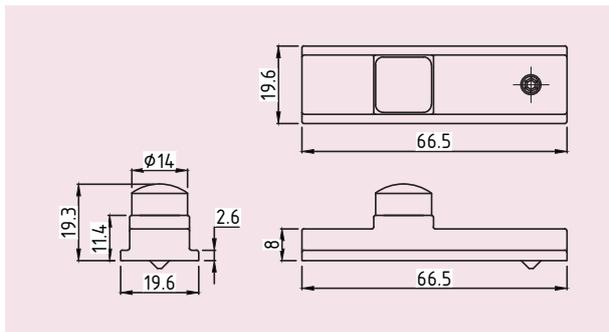
Packaging: 250 pcs/box

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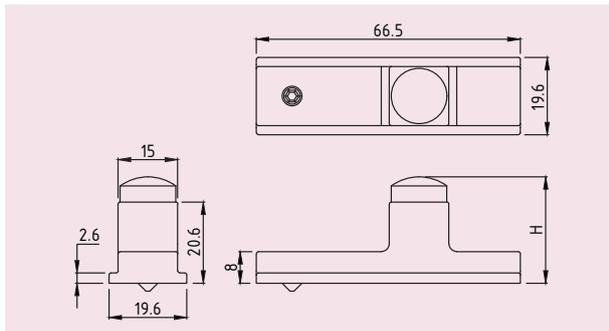
All dimensions above are in mm

Miscellaneous Accessories >> Shock Absorbers

AC-SA-18

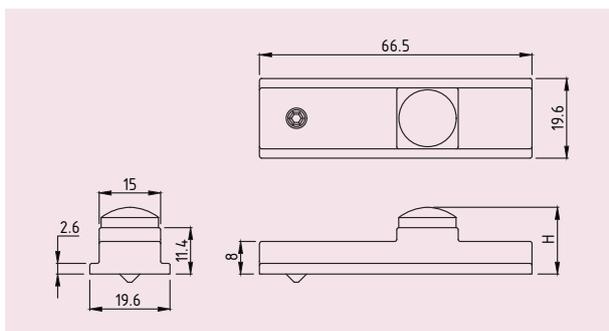


AC-SA-07
AC-SA-08
AC-SA-09
AC-SA-10
AC-SA-15



Item Code	H (mm)
AC-SA-07	27.0
AC-SA-08	34.7
AC-SA-09	25.6
AC-SA-10	23.1
AC-SA-15	30.2

AC-SA-12
AC-SA-13
AC-SA-14

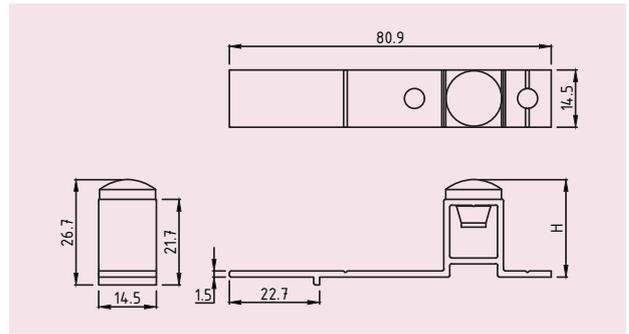


Item Code	H (mm)
AC-SA-12	16.4
AC-SA-13	17.8
AC-SA-14	13.9

Packaging: 250 pcs/box

Miscellaneous Accessories >> Shock Absorbers

AC-SA-02
AC-SA-06
AC-SA-11



Item Code	H (mm)
AC-SA-02	24.7
AC-SA-06	26.0
AC-SA-11	33.7

FUNCTION

Prevents damage of the frames when the sash crashes against the frame profile, locks the sash inside the frame, prevents the sash to be lifted and removed out of the frame.

FINISH

Natural

PARTS WITH MATERIAL SPECIFICATION

Polyamide or extruded aluminium body;
EPDM moulded rubber round pad.

TECHNICAL FEATURES

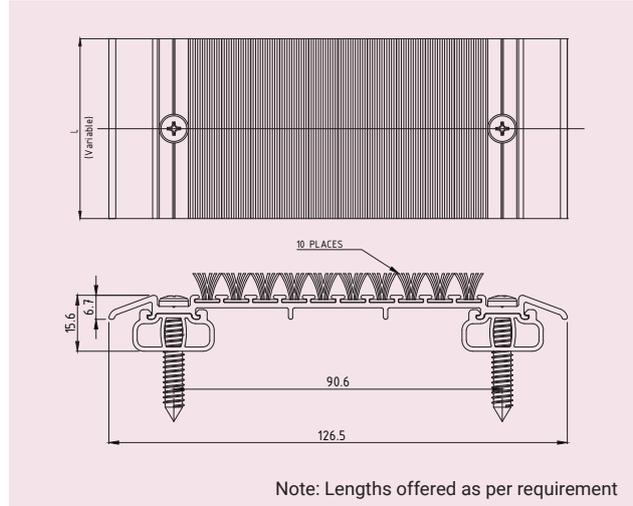
Devices body could be made of Polyamide or aluminium

- Extruded profile.
- Equipped with:
 - » Round rubber pad for shock absorbance;
 - » Steel grub screw, or screw holes (or oval slots) for adjustment and fixation on sash profile.
- To be fixed on the top and bottom parts of the sash profile vertical groove and adjusted for anti-lift function after sash installed inside the frame.
- Recommended for suitable sliding sash and frame profiles for safety and security purpose.

Packaging: 250 pcs/box

Miscellaneous Accessories >> Anti-Dust Plugs

AC-AD-03 | Anti-Dust Plugs



FUNCTION

Anti-dust plugs used to conceal the gap between sliding frame rails and the sash profiles interlock on the middle of the top and bottom frame profile.

FINISH

Black anodized, natural.

PARTS WITH MATERIAL SPECIFICATION

2 nos. 4.2x19 DIN7982 A4 pan-head self-tapping screws, stainless steel.

Pile brush, Extruded aluminum, EPDM gasket.

TECHNICAL FEATURES

Anti-dust plug contents:

- Aluminum extruded brush holder,
- 6 mm pile brush strips,
- 2 nos. of EPDM gasket,
- 2 nos. 4.2x19 stainless steel pan-head self-tapping screws.

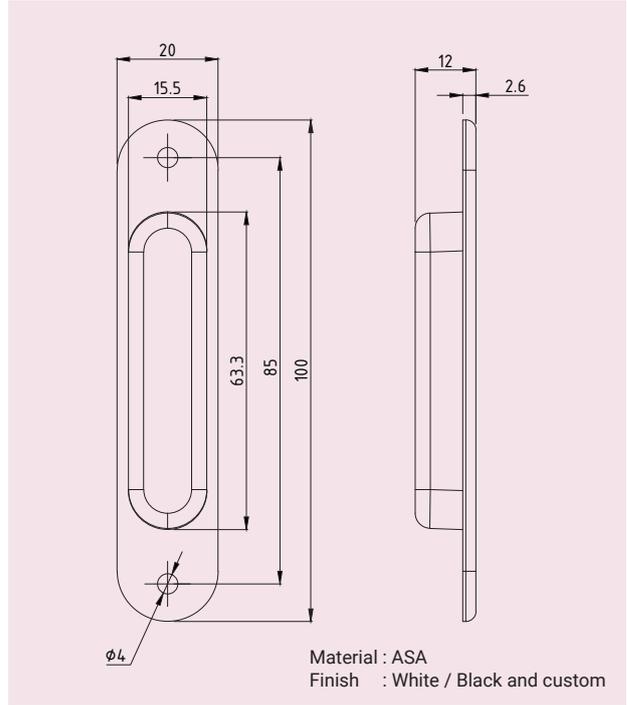
Brush holder, pile brush strips and EPDM gaskets could have various cut lengths, depends from the gap between rails of the sliding frame. EPDM gaskets act as a spring, pushing aluminum brush holder upwards, against the base surface. Tightening, or loosening, of the screws steadily adjusts necessary height of the anti-dust plugs from the bottom surface of the gap between sliding frame rails, to achieve required value. For less than 15.1 mm required height, anti-dust plug could be used without EPDM gaskets.

Different pile brush height size could be applied, if required.

Packaging: 250 pcs/box

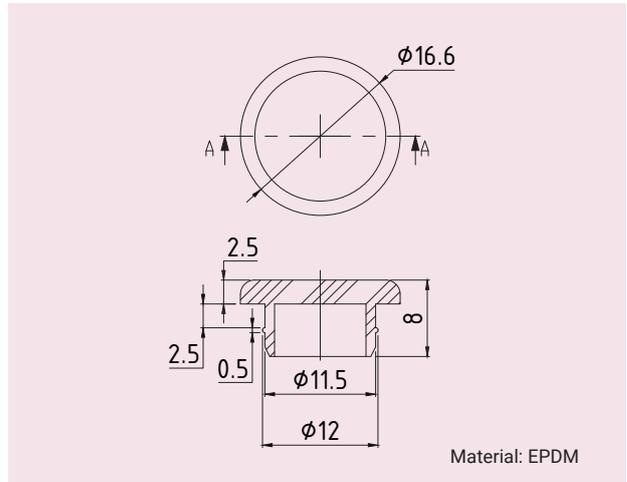
Miscellaneous Accessories

KMI-HDL-01 | Flymesh Screen Handle



Packaging: 500 pcs/box

AC-07 | Screw Hole Cap



Packaging: 2500 pcs/box

Glass Packing Shims



Rectangular Glass Packers

Size (L x W) in mm	Thickness range
100 X 20	2 - 6 mm
100 X 26	2 - 6 mm
100 X 30	2 - 6 mm

Material: PP

Packaging: 500 pcs/box



 +91 82376 33555  solutions@kelegent.com  kelegent.com

 **Shree Mahavir Metal Industries**

Gat No. 230 & 231, Shivapur-Kondhanpur Road, Near Chitale Mithaiwale Factory, At Post Ranje, Tal. Bhor, Pune – 412205, India.