



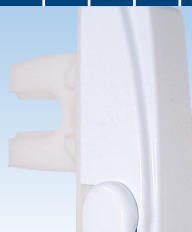
WINDOW TECHNOLOGY
DOOR TECHNOLOGY
AUTOMATIC ENTRANCE SYSTEMS
BUILDING MANAGEMENT SYSTEMS



WINDOW TECHNOLOGY – TECHNICAL DOCUMENTATION | SECTION 02T.1



Casement & Awning Windows Hardware



Securing technology for you





02T.1

Casement & Awning Hardware

Casement Window Scheme..... 02T.1.2

Window Casement System..... 02T.1.4

Dyad Arm Operator for Casement Windows..... 02T.1.5

Dyad Operator for Casement Windows with short arm 02T.1.6

Dual Arm Operator & Track for Casement Windows..... 02T.1.8

Dual Operator with short arm 02T.1.9

Fixing bracket for Casement Operators 02T.1.9

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Series 6-C2700 Multipoint Locking Bars 02T.1.21

Series 6-C2760 Multipoint Locking Bars 02T.1.22

Series 6-C2741 Multipoint Locking Bars 02T.1.23

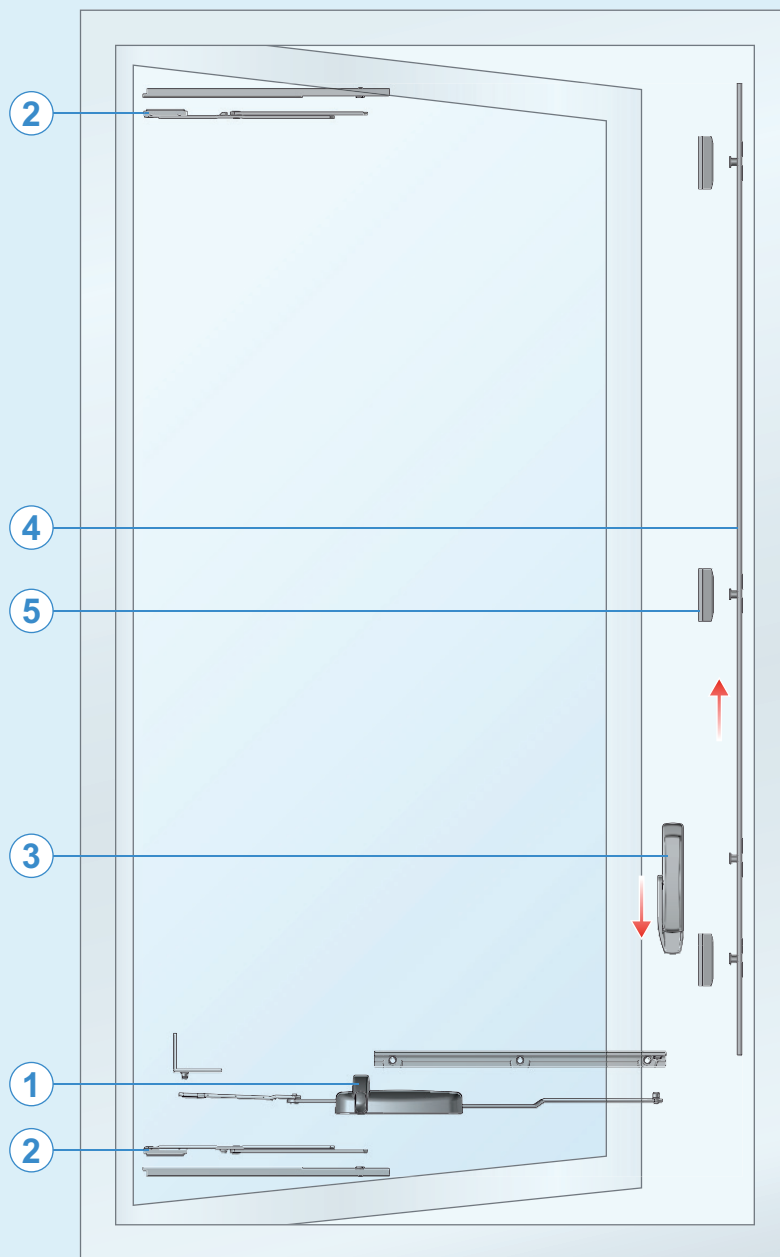
Series 6-C2742 Multipoint Locking Bars 02T.1.24

Series 6-C2715 Multipoint Locking Bars 02T.1.25

Multipoint Keepers 02T.1.26

Single Point Keepers..... 02T.1.28

Snubbers..... 02T.1.29



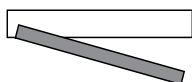
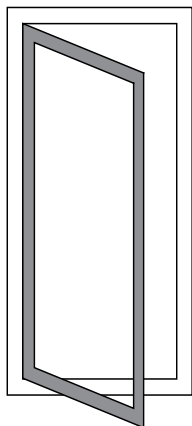
INSIDE VIEW

Casement window

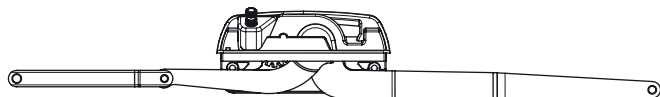
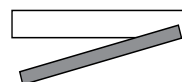
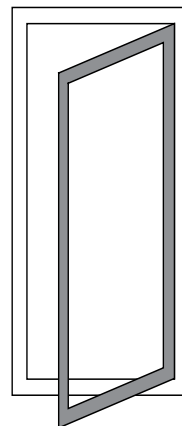
- | | |
|---|---------------------------------|
| 1 | Operator with bracket and track |
| 2 | Casement hinges |
| 3 | Multipoint locking handle |
| 4 | Multipoint locking bar |
| 5 | Keepers |

Casement & Awning Window Hardware

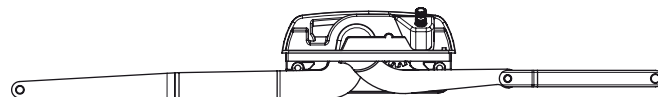
Left/Right Identification for The Operators



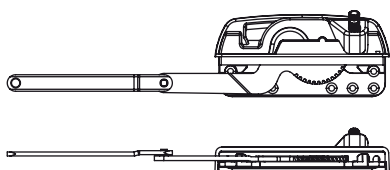
**OUTSWING WINDOWS
(VIEWED FROM OUTSIDE)**



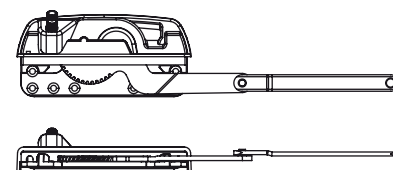
LEFT-HAND DUAL ARM OPERATOR
6-C2331-00-L-8
(use cover kit type A)



RIGHT-HAND DUAL ARM OPERATOR
6-C2331-00-R-8
(use cover kit type B)



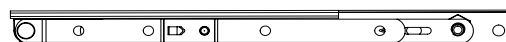
LEFT-HAND DYAD OPERATOR
6-C2332-00-L-8
(use cover kit type B)



RIGHT-HAND DYAD OPERATOR
6-C2332-00-R-8
(use cover kit type A)



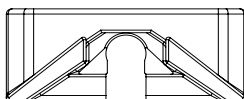
CASEMENT HINGES
6-C2431-XX-A/B-8B
6-C2480-XX-A/B-8B
(For this window position, use type A)



CASEMENT HINGES
6-C2431-XX-A/B-8B
6-C2480-XX-A/B-8B
(For this window position, use type B)



HALF REACHING WEDGE (A)
9-C0148-00-A-6



UNIVERSEL WEDGE
9-C0948-00-0-6

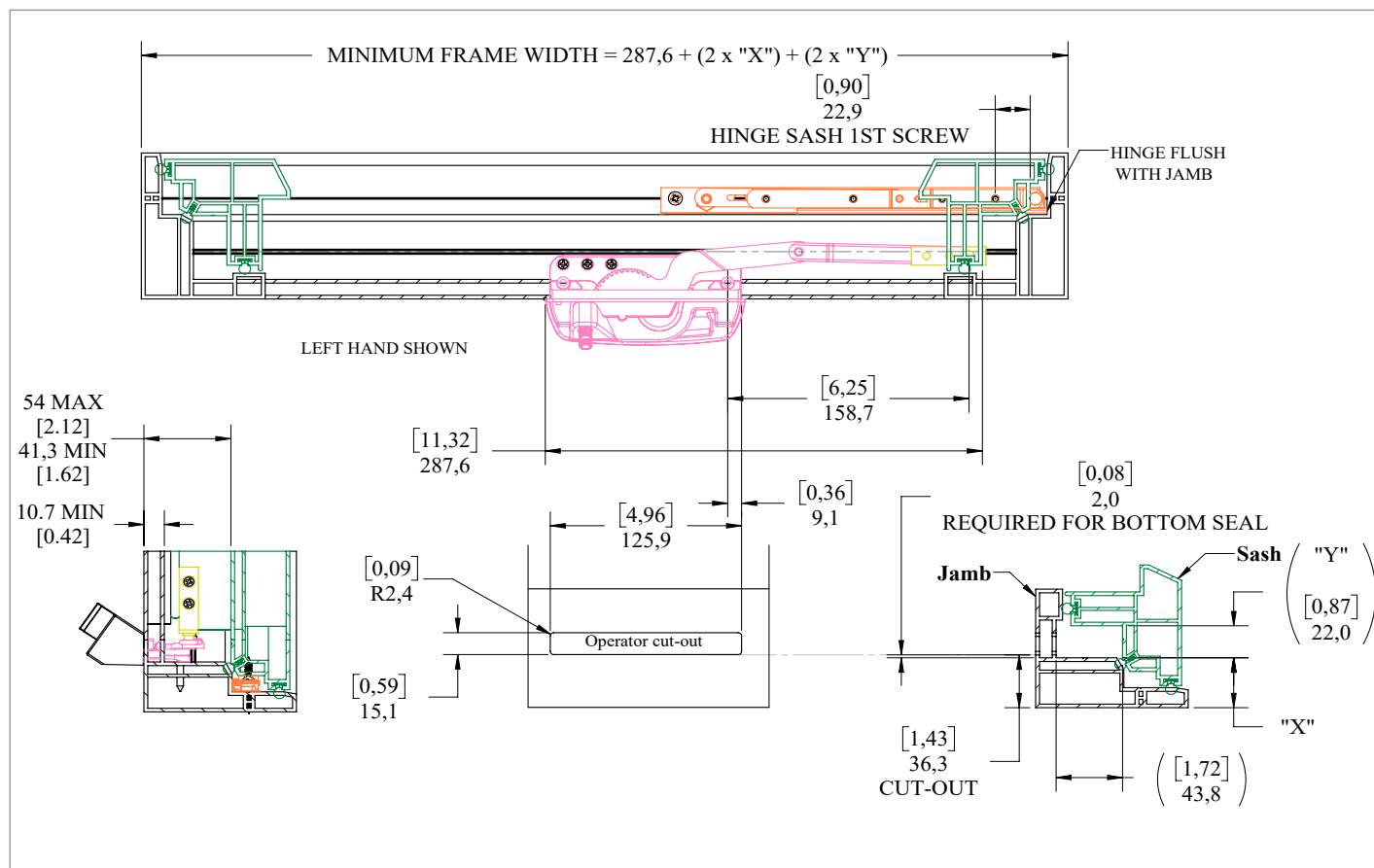


HALF REACHING WEDGE (B)
9-C0148-00-B-6

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Casement & Awning Window Hardware

Window Casement System



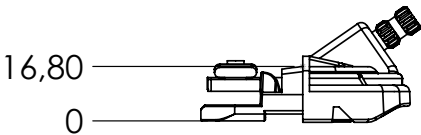
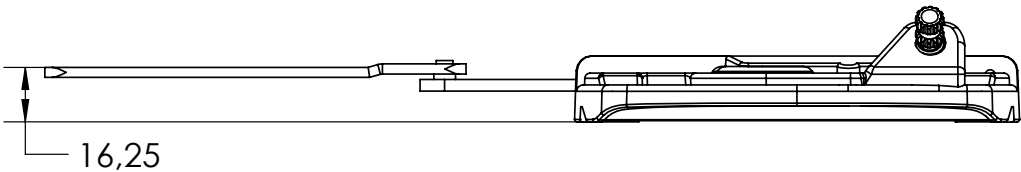
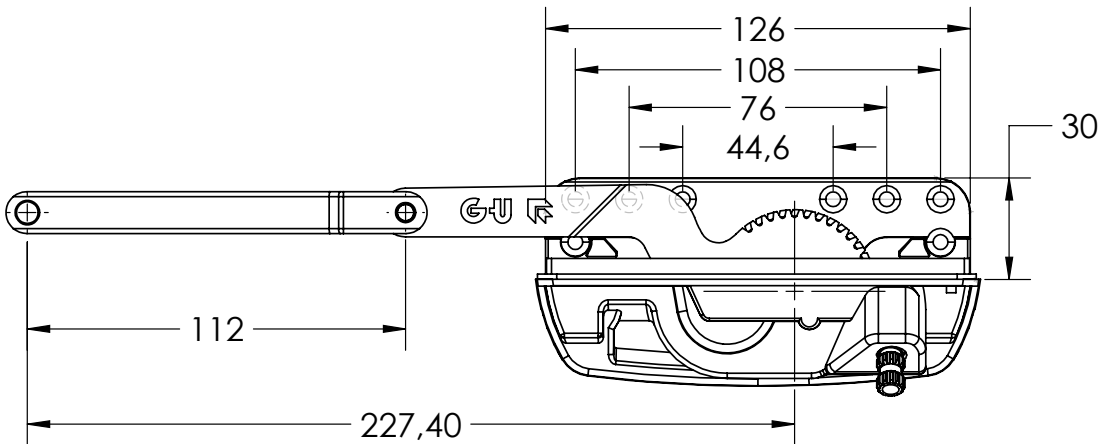
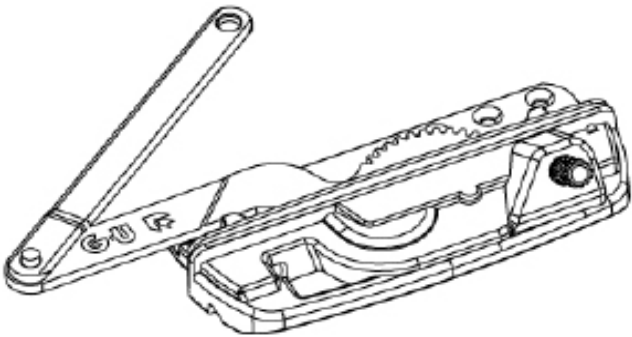
02
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Dyad Arm Casement Operator

Description	Part Number
Operator	6-C2332-00-L/R-8

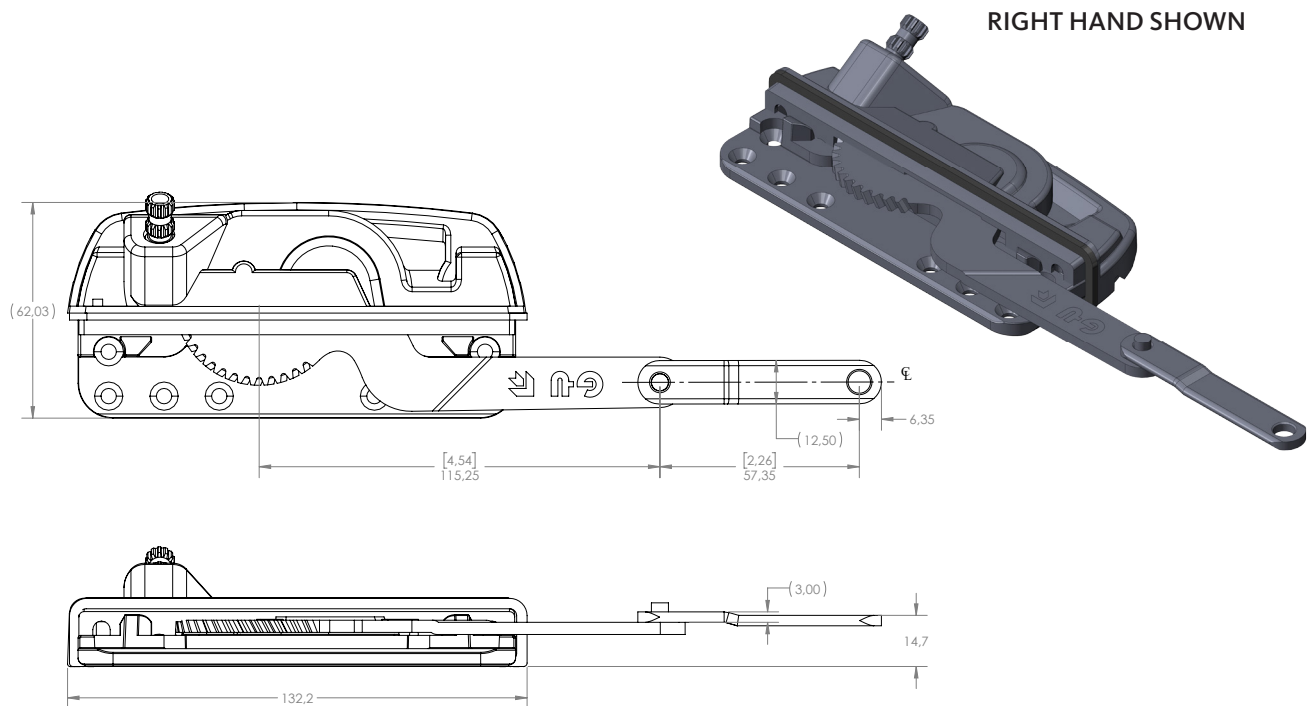
RIGHT HAND SHOWN





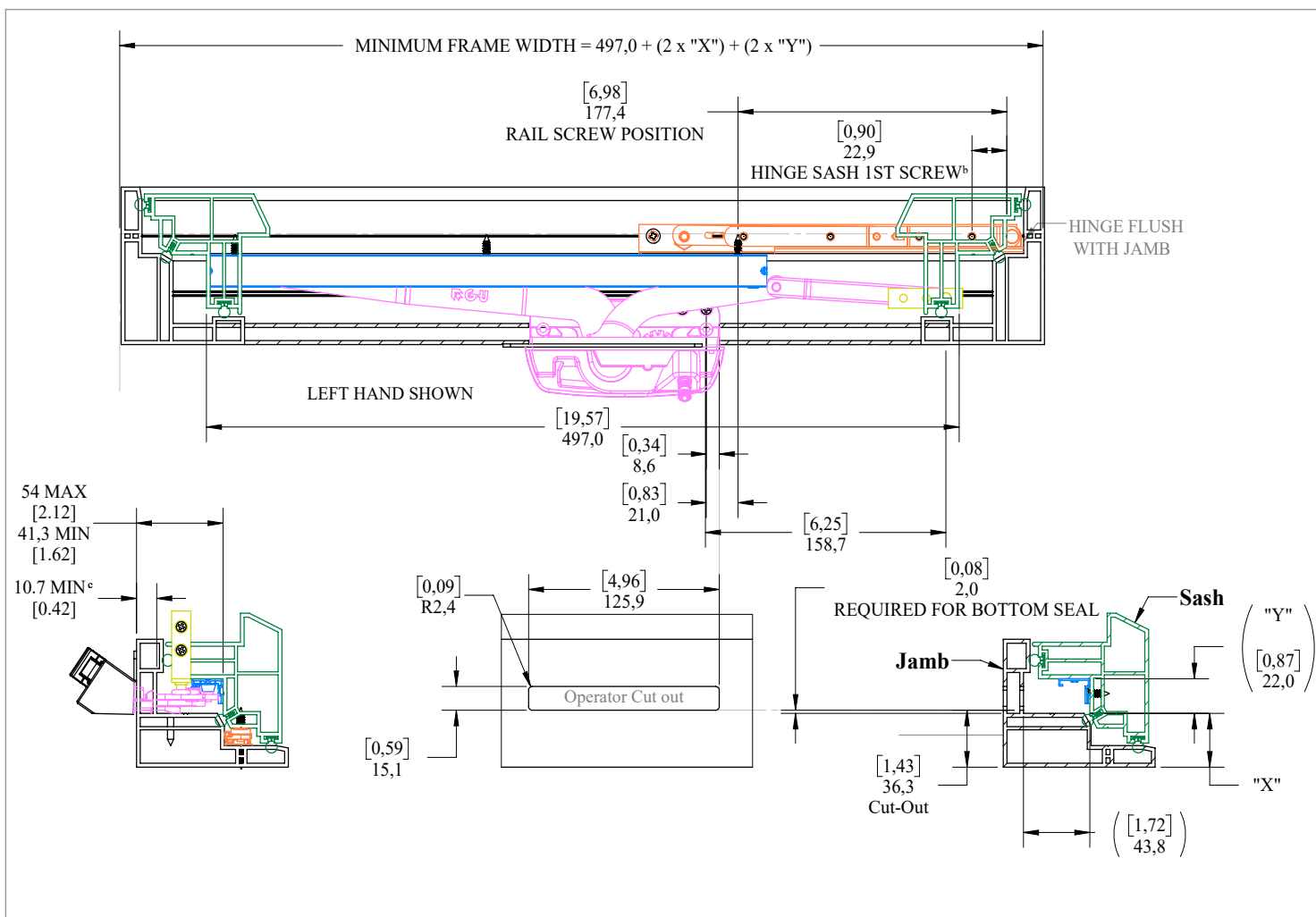
Dyad Casement Operator with Short Arm

Description	Part Number
Operator	6-C2332-MC-L/R-8



Casement & Awning Window Hardware

Window Casement System

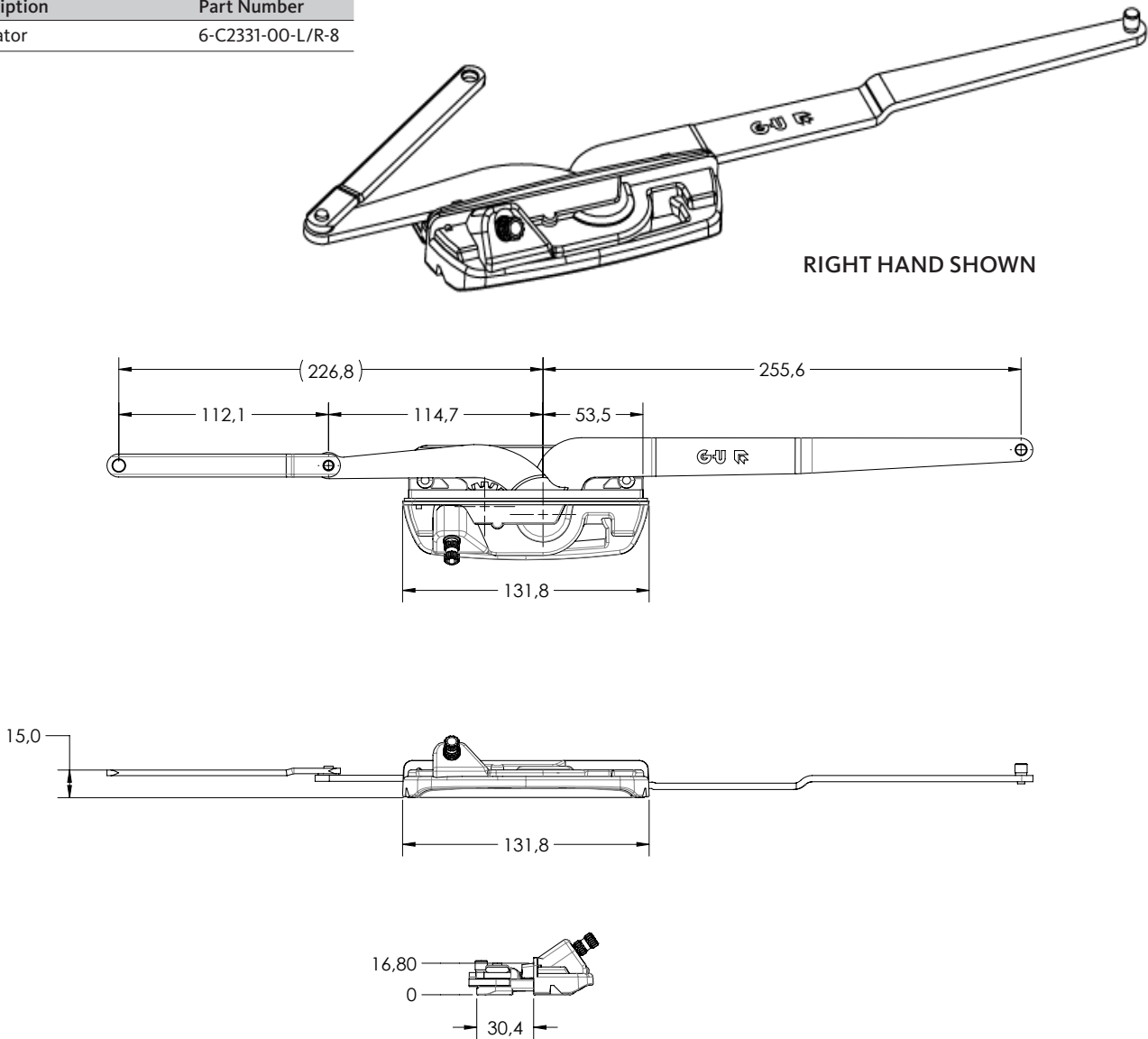


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Dual Arm Casement Operator

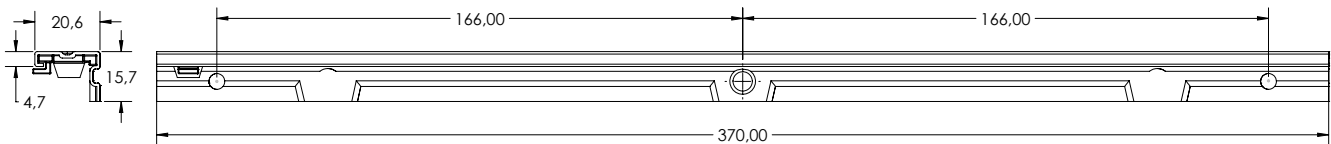
Description	Part Number
Operator	6-C2331-00-L/R-8



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Track for Dual Arm Casement Operator

Description	Part Number
Track	9-C2336-00-0-8

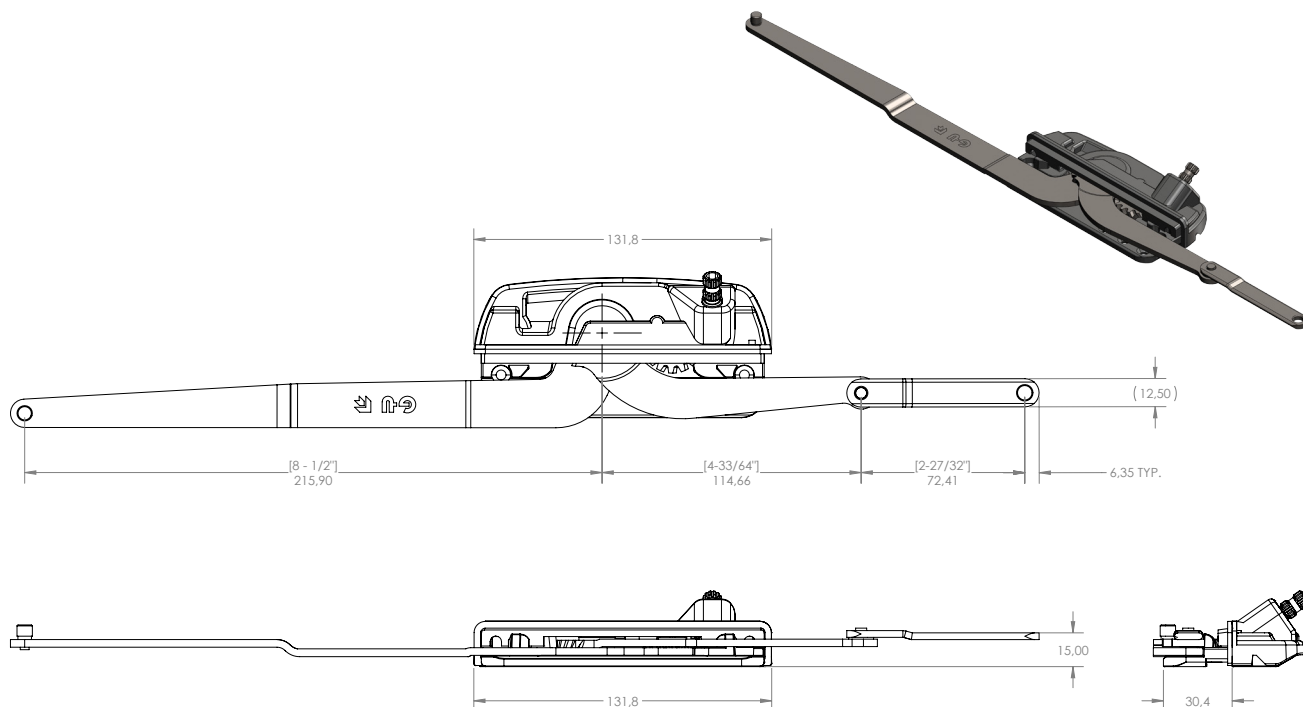




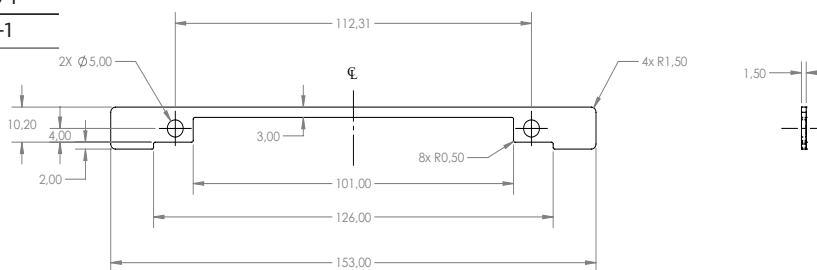
Dual Arm Casement Operator with short arm

Description	Part Number
Operator	6-C2331-MC-L/R-8

RIGHT HAND SHOWN

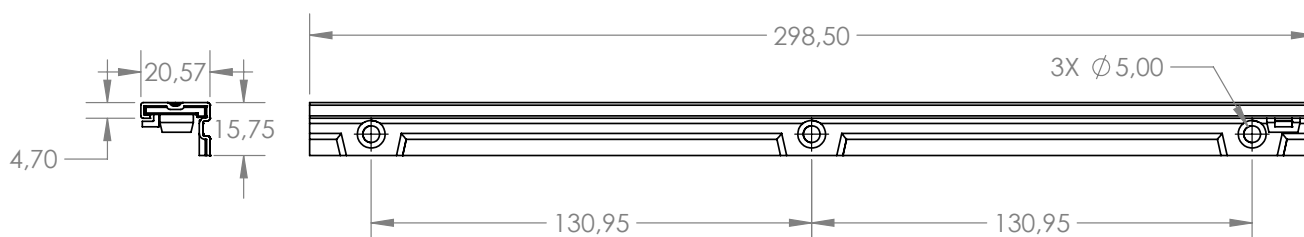


Description	Part Number
Fixing bracket	9-C2341-00-0-1
For Thermoplast profiles use screws	E-12562-20-0-1
For other profiles use screws	E-12562-16-0-1



Track for Dual Arm Casement Operator

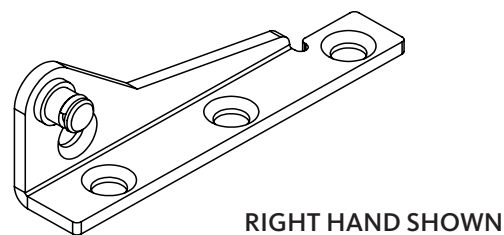
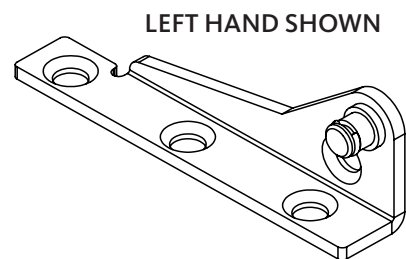
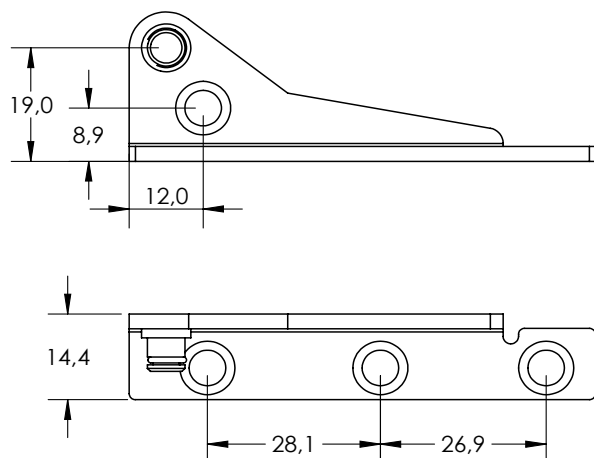
Description	Part Number
Track	9-C2336-MC-0-8





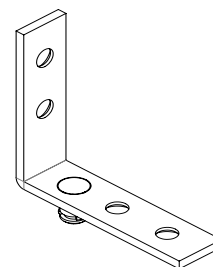
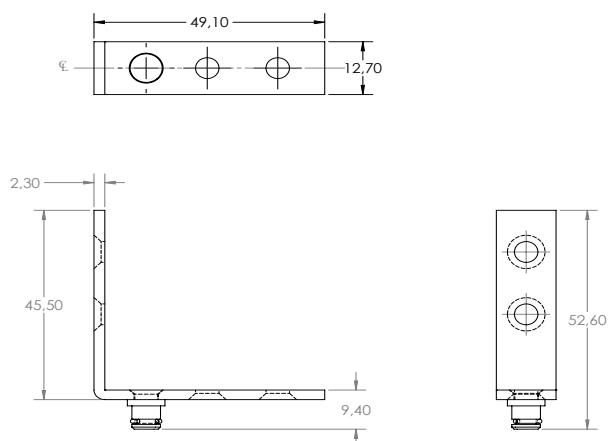
Stud Bracket for Casement Operator

Description	Part Number
Bracket	6-C2607-25-L/R-2



Bracket for Casement Operator

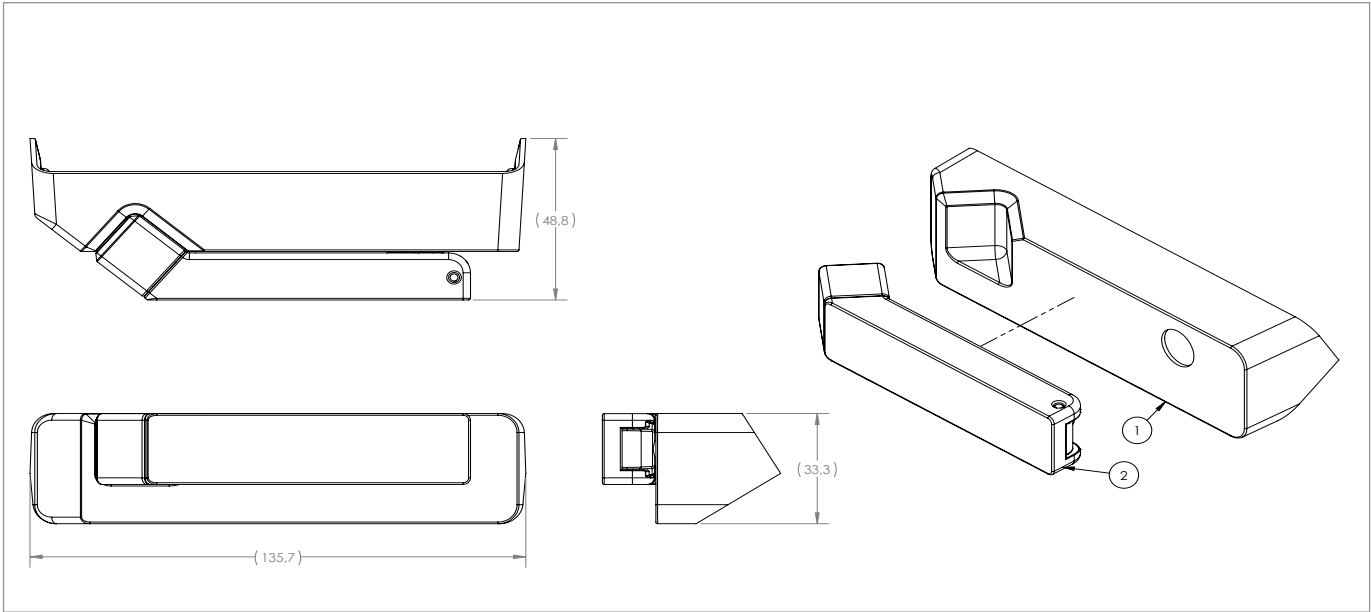
Description	Part Number
90° Bracket	6-C2320-00-0-8





FENIX EVO2 Removable Cover & Fold-in Handle kit

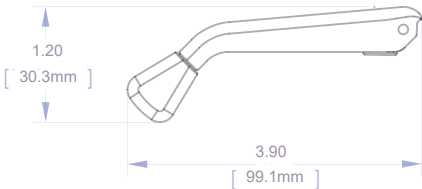
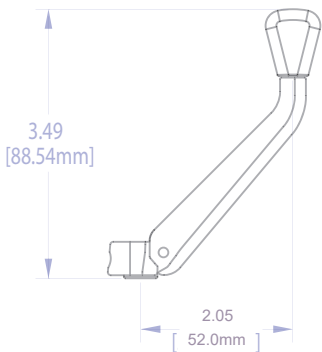
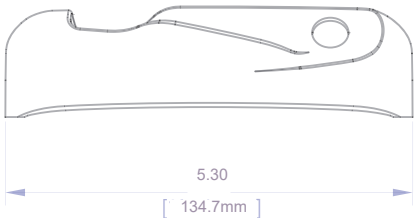
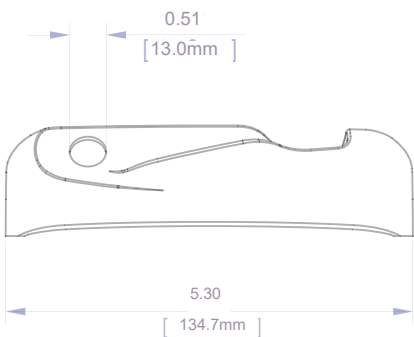
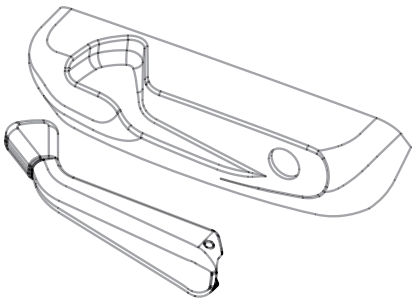
Description	Part Number
Kit type A	6-C2352-00-A-*
Kit Type B	6-C2352-00-B-*

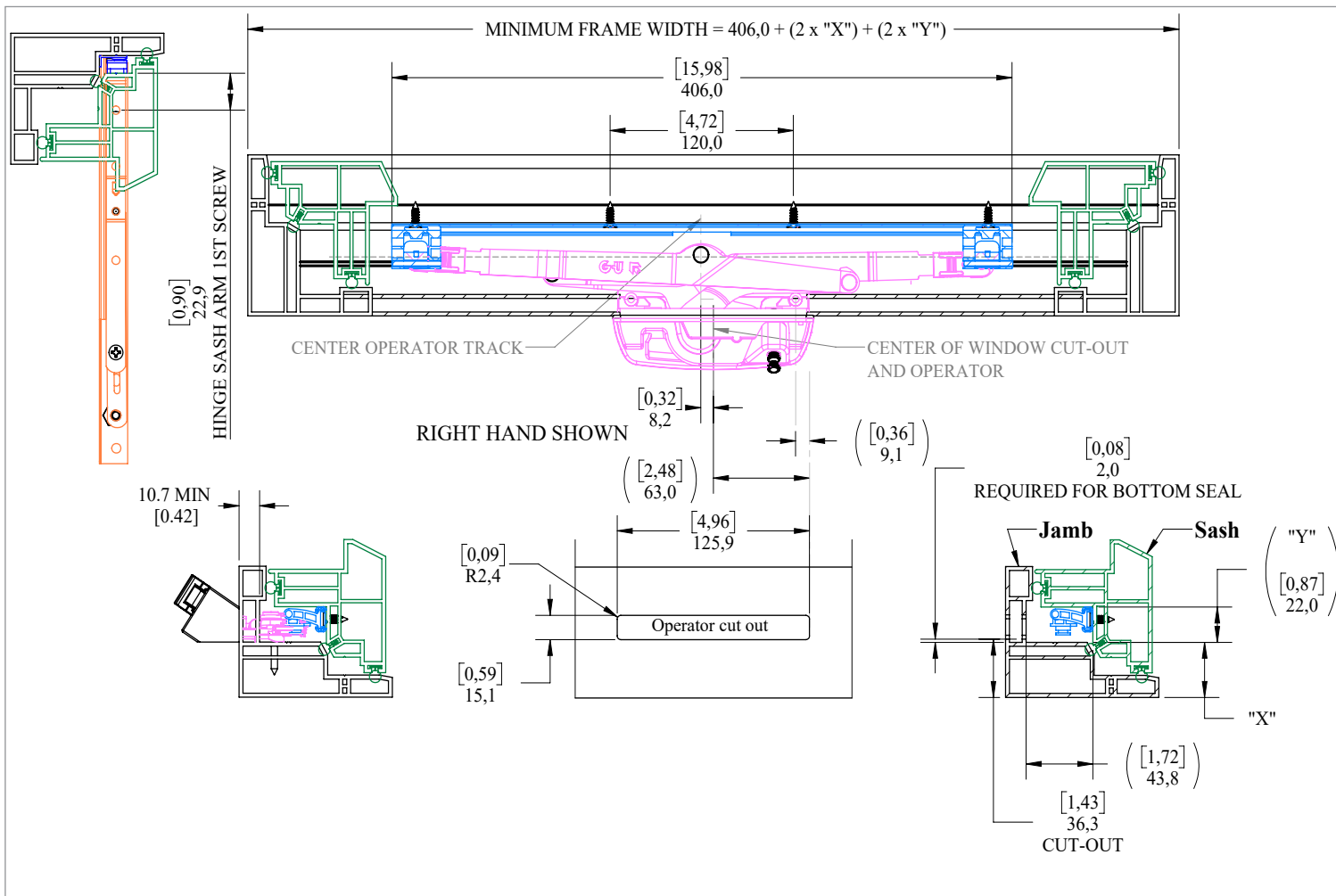




FENIX Classic Cover & Fold-in Handle Kit

Description	Part Number
Kit type A	6-C2345-02-A-*
Kit type B	6-C2345-02-B-*

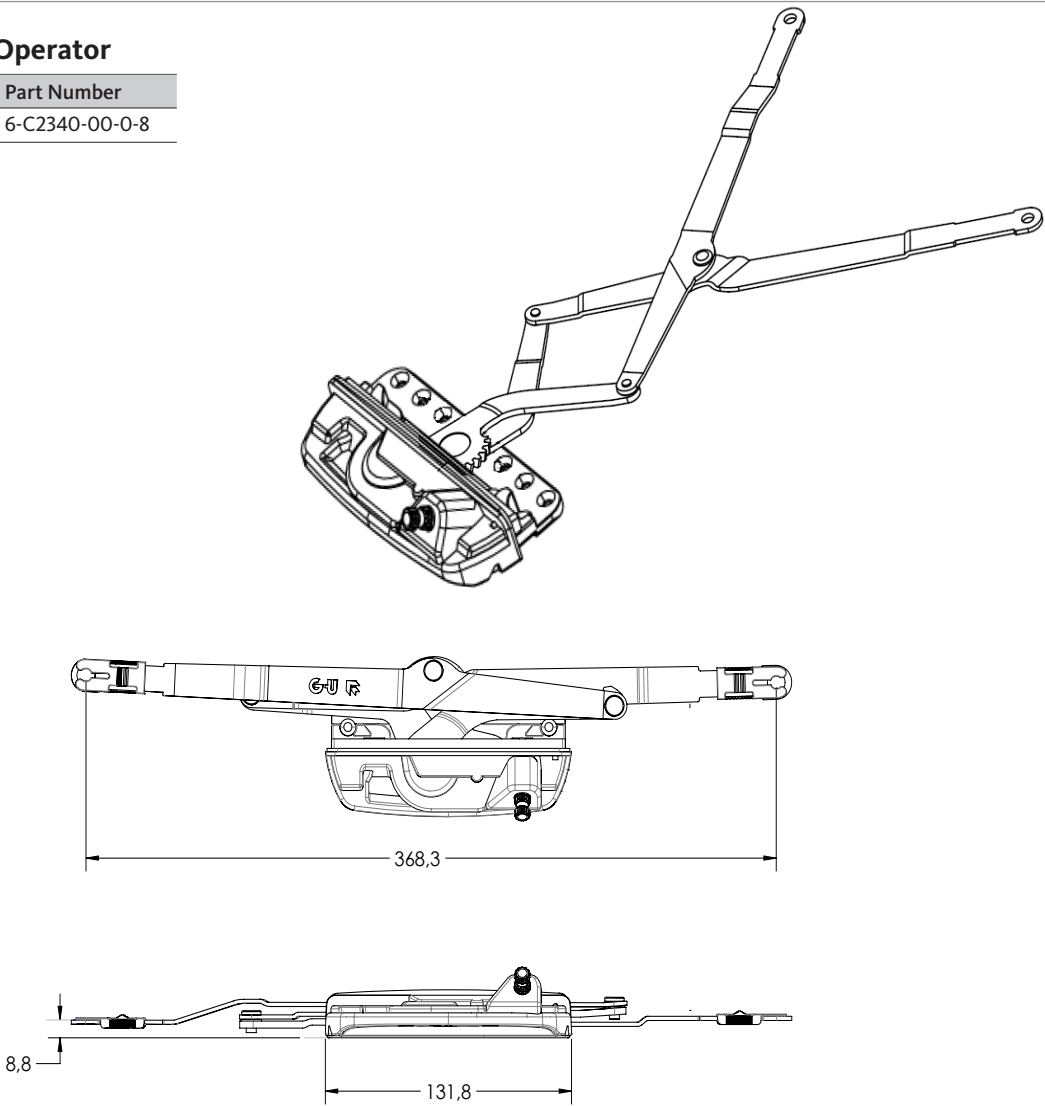






Scissor Arm Awning Operator

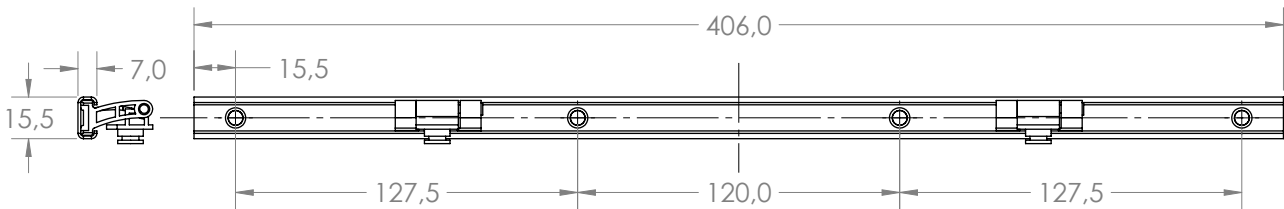
Description	Part Number
Operator	6-C2340-00-0-8



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Track for Awning Operator

Description	Part Number
Track	9-C2335-01-0-8



Casement & Awning Window Hardware

Window Casement Hinges

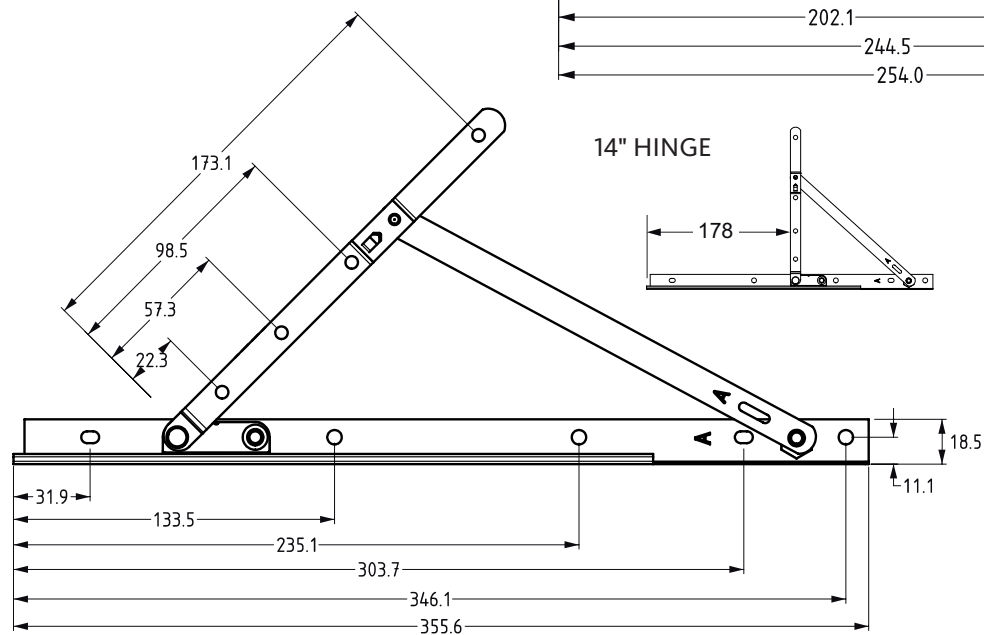
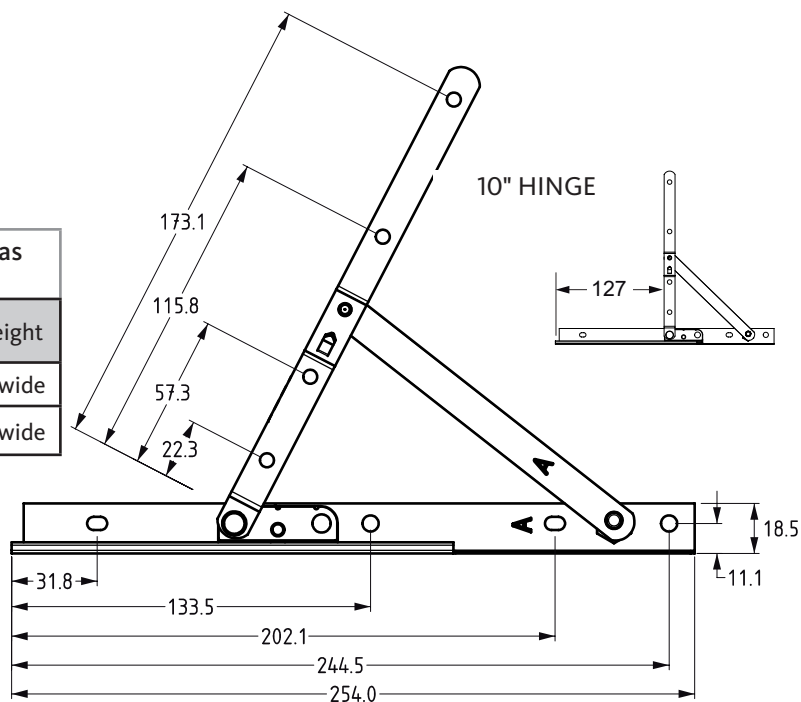


Snap-on 10" & 14" Adjustable Hinges

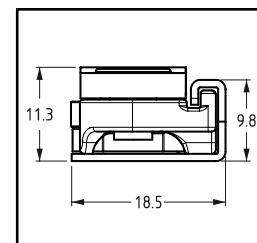
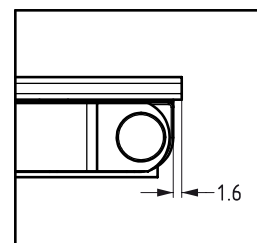
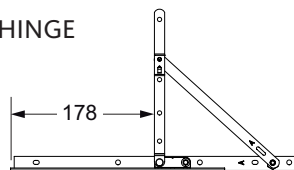
Description	Part Number
Arms for 10" hinge	6-C2431-10-A/B-8B
Tracks for 10" hinge	6-C2480-10-A/B-8B
Arms for 14" hinge	6-C2431-14-A/B-8B
Tracks for 14" hinge	6-C2480-14-A/B-8B

Ferco Casement hinges recommendations (as certified to AAMA 904)

Casement hinges	Sash width range	Sash max weight
10" hinges	10"-36"	90lbs at 36" wide
14" hinges	14"-36"	90lbs at 36" wide

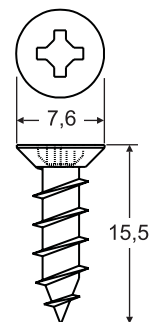
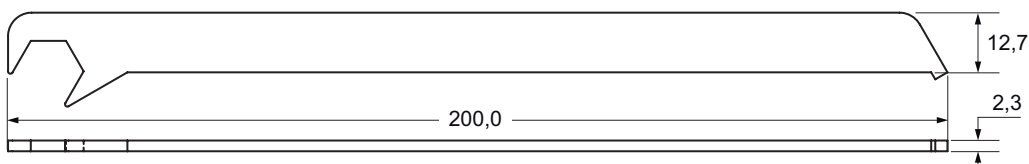


14" HINGE



Hinge Accessories

Description	Part Number
13mm (1/2") wrench	9-C2452-20-0-1
#10 x 5/8" (16mm) screws	9-C9681-1M-0-8



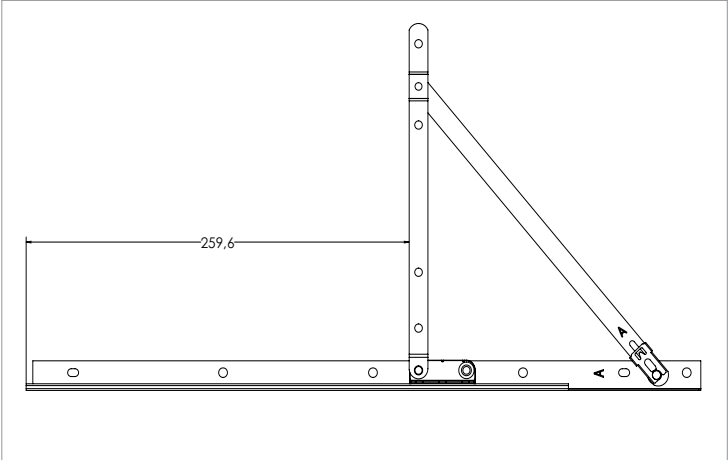


Awning Fixed Hinges *(25 pairs arms and 25 pairs track per box)*

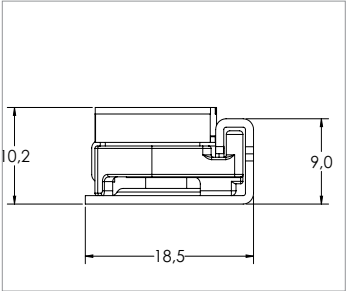
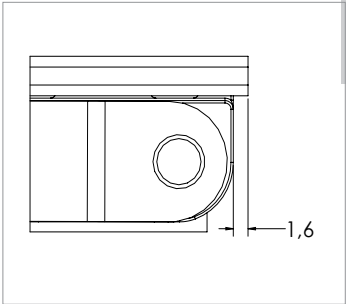
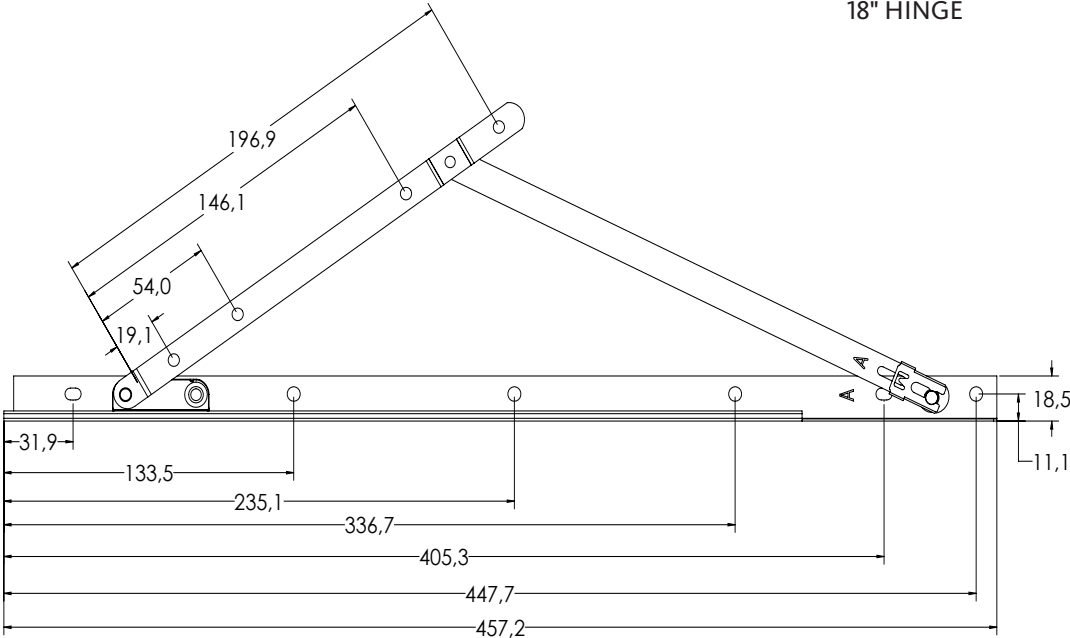
Description	Part Number
14" hinge	6-C2472-14-A/B-8B
18" hinge	6-C2472-18-A/B-8B
22" hinge	6-C2472-22-A/B-8B
26" hinge	6-C2472-26-A/B-8B

Ferco awning hinges recommendations (as certified to AAMA 904)

Awning hinges	Sash width range	Sash max weight
14" hinges	14"-36"	60lbs at 36" high
18" hinges	18"-36"	60lbs at 36" high
22" hinges	22"-36"	60lbs at 36" high
26" hinges	26"-36"	60lbs at 36" high



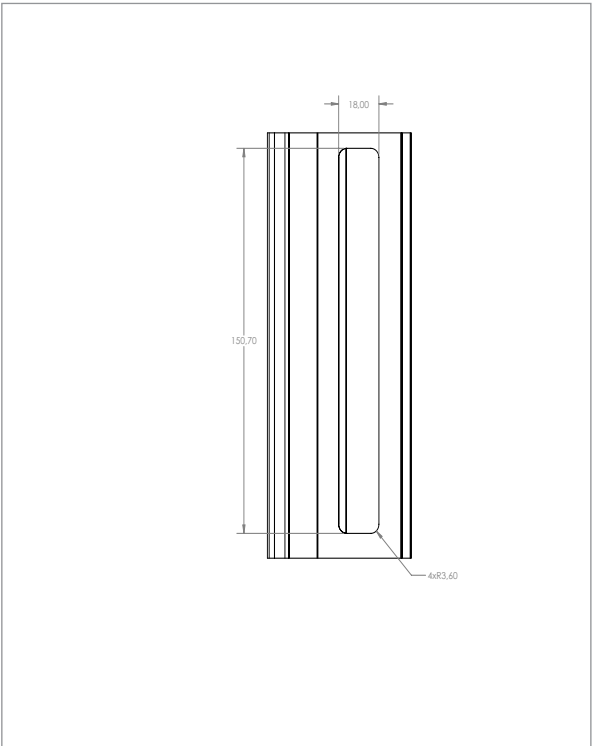
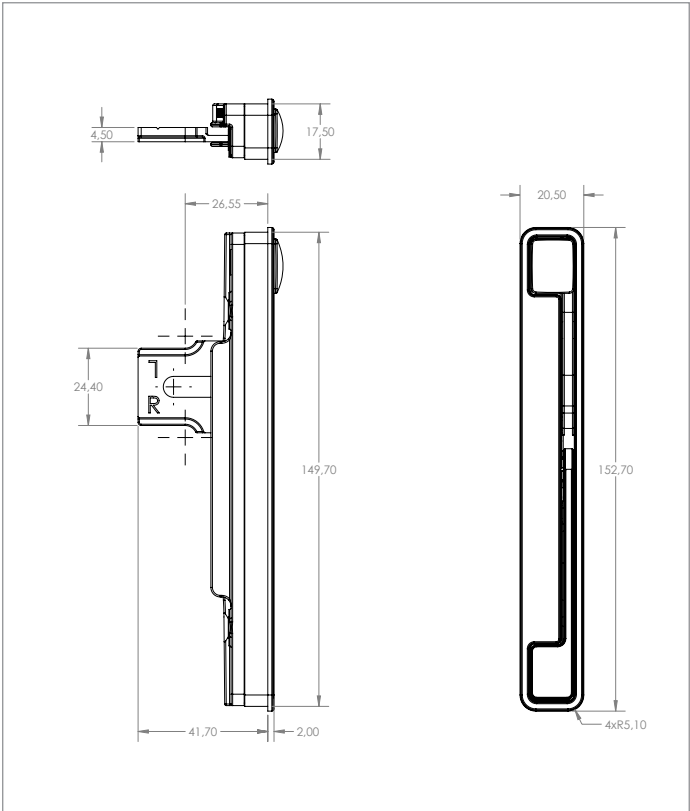
18" HINGE





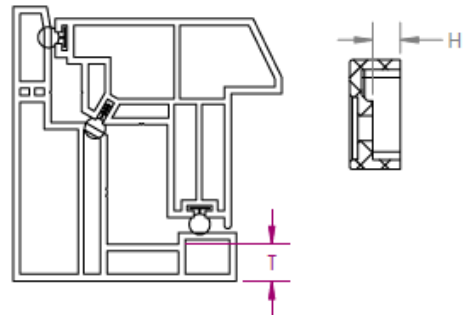
FENIX Evo2 Cover & Handle Kit

Description	Part Number
Locking handle	6-C7031-00-0-*

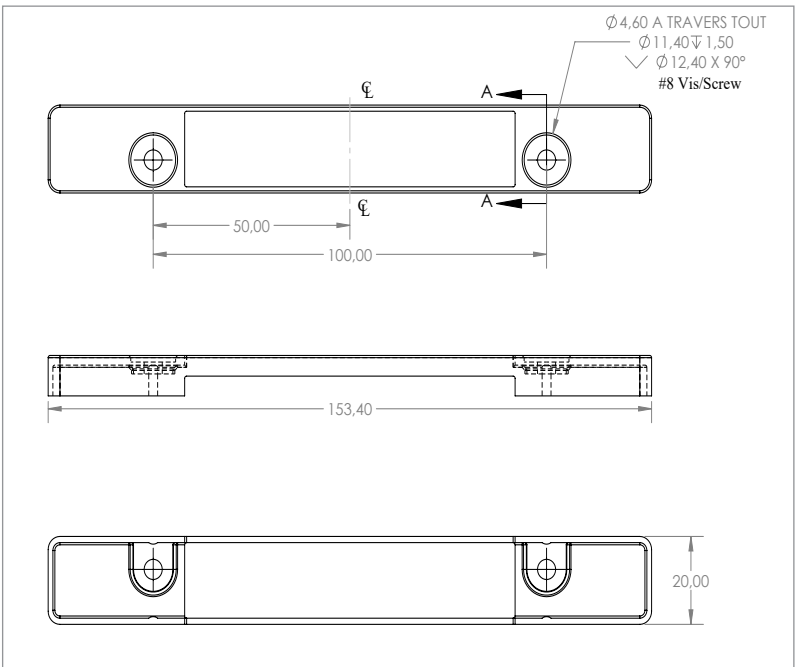


Locking Handle Accessories

Description	Part Number
Fixing bracket	9-C2721-0*-0-6
#8 x 5/8" (15.88mm) screws	9-C9652-00-0-1



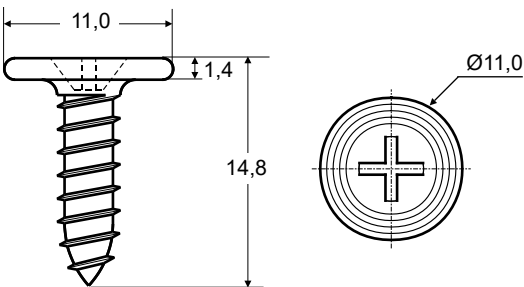
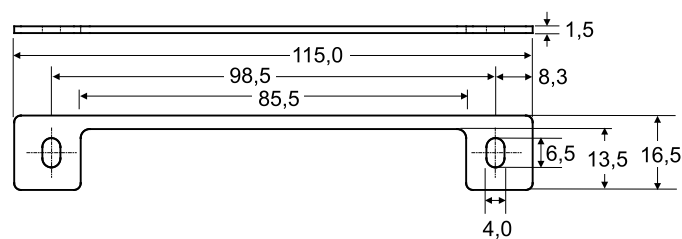
Reference	H (mm)	T (mm)
9-C2721-00-0-6	0	13.7mm
9-C2721-03-0-6	3	10.7mm
9-C2721-05-0-6	5	8.5 - 9mm





Locking Handle Accessories

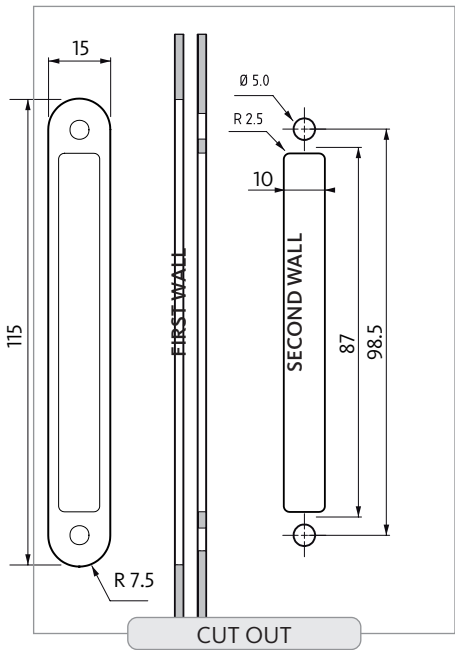
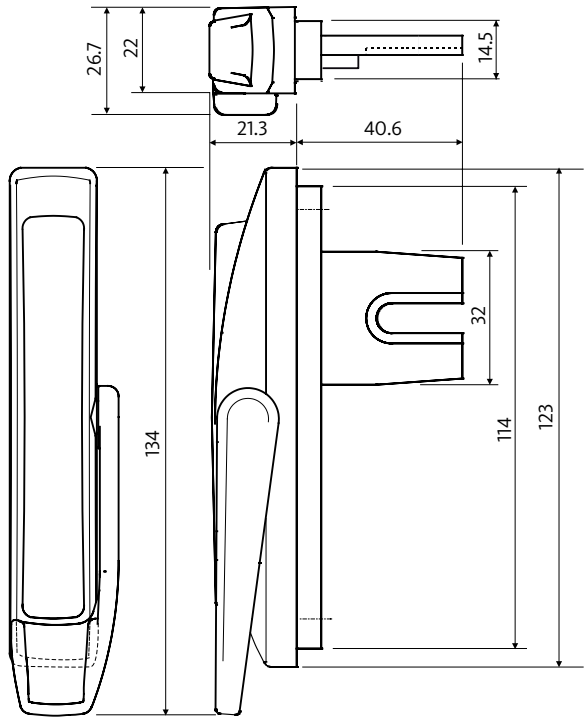
Description	Part Number
Fixing bracket	9-C2720-04-0-0
#8 x 1/2" (12mm) screws	9-C2451-2C-0-1 (long)





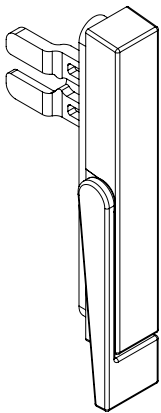
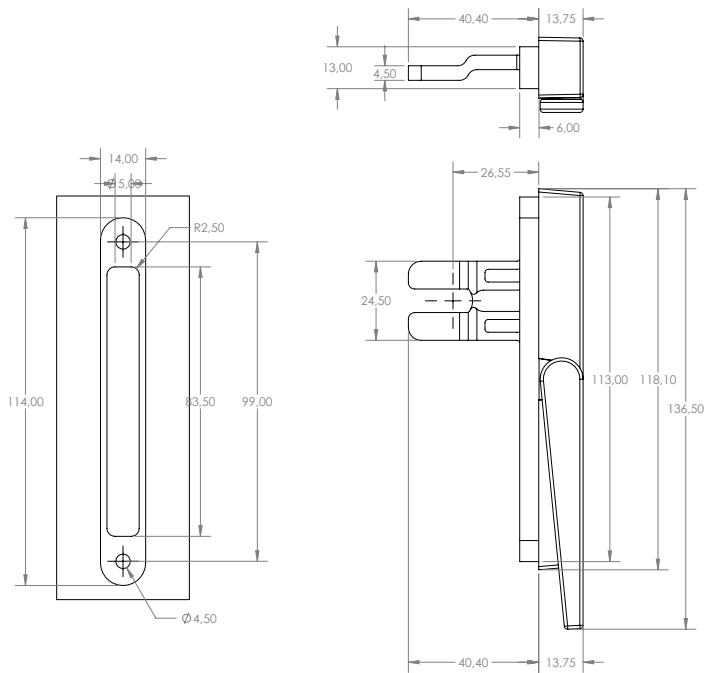
FENIX Classic Multipoint Locking Handle

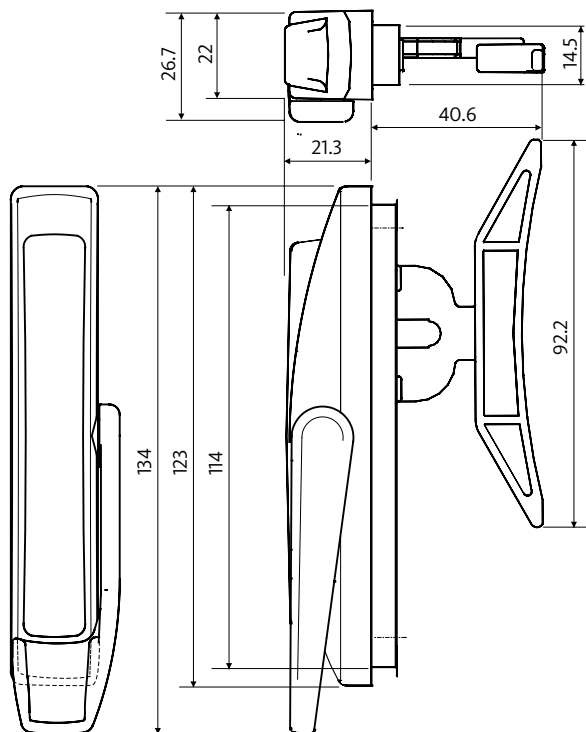
Description	Part Number
Locking handle	6-C7010-35-0-*



FENIX Edge Multipoint Locking Handle

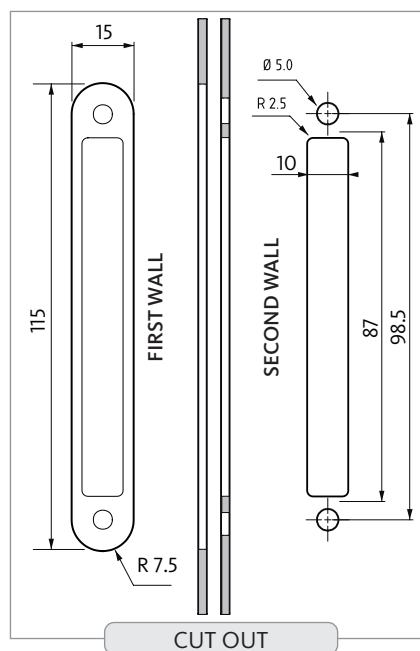
Description	Part Number
Locking handle	6-C6440-35-0-*





Single Point Locking Handle

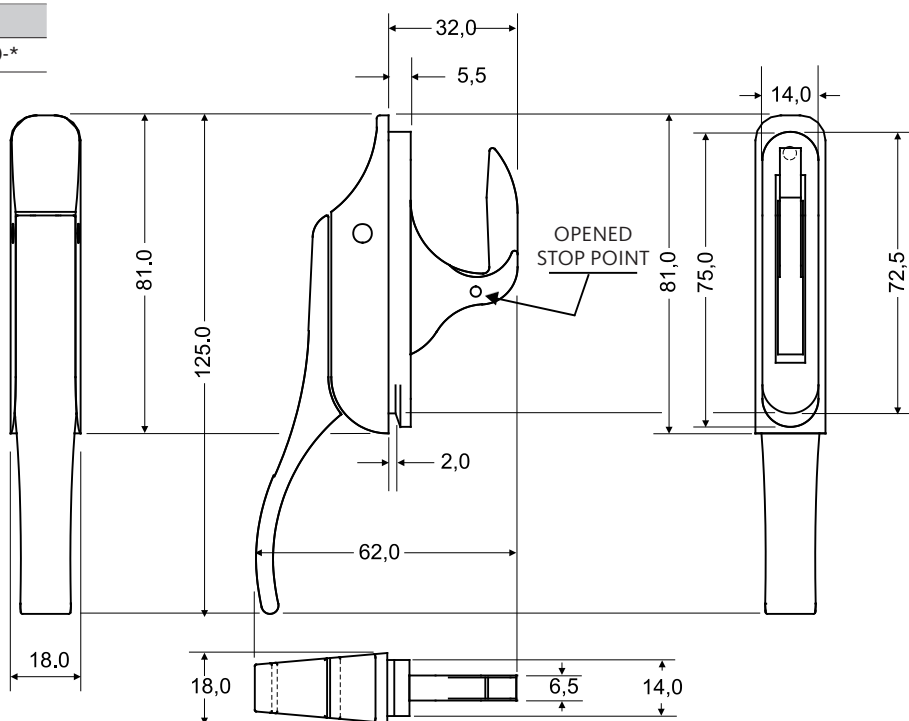
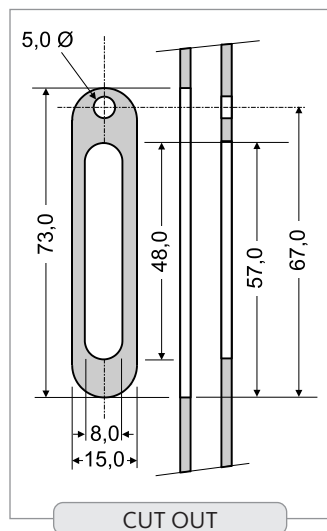
Description	Part Number
Locking handle	6-C7011-00-0-*



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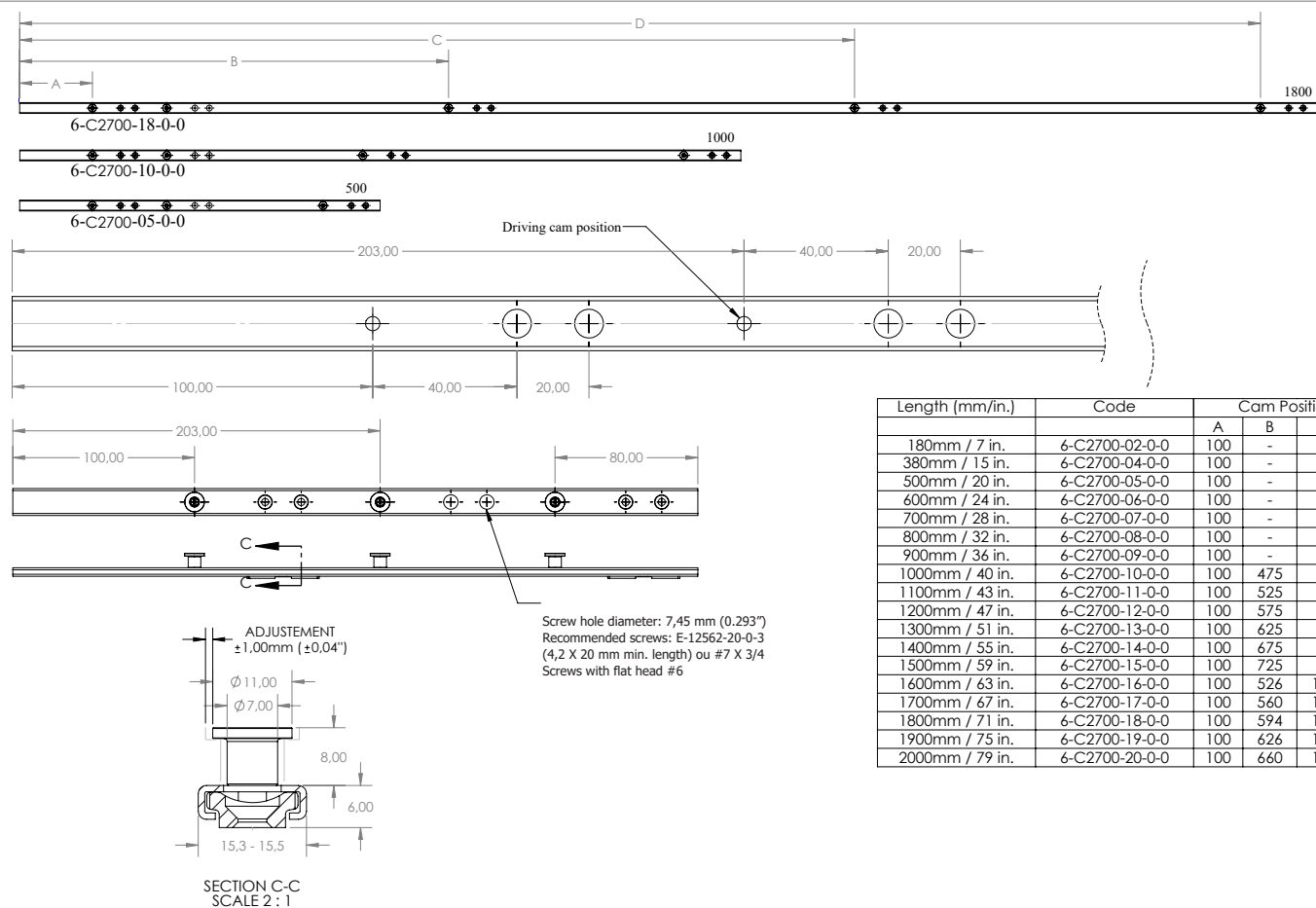
Single Point Locking Handle

Description	Part Number
Locking handle	6-C6470-00-0-*



Casement & Awning Window Hardware

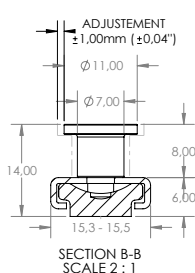
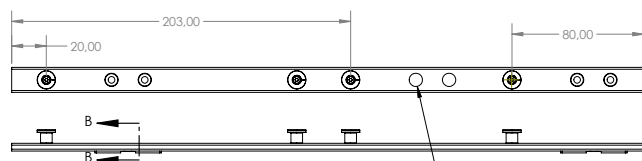
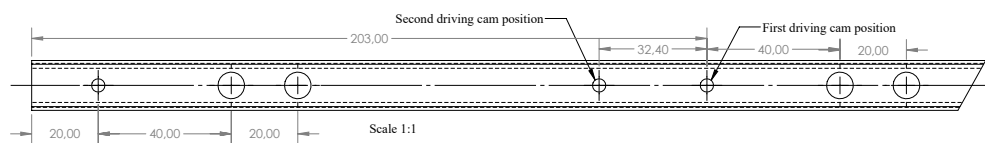
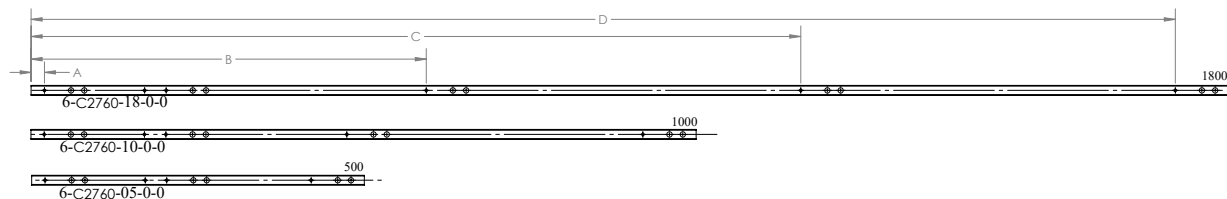
Series 6-C2700 Multipoint Locking Bars



Length (mm/in.)	Code	Cam Position (mm)			
		A	B	C	D
180mm / 7 in.	6-C2700-02-0-0	100	-	-	100
380mm / 15 in.	6-C2700-04-0-0	100	-	-	300
500mm / 20 in.	6-C2700-05-0-0	100	-	-	420
600mm / 24 in.	6-C2700-06-0-0	100	-	-	520
700mm / 28 in.	6-C2700-07-0-0	100	-	-	620
800mm / 32 in.	6-C2700-08-0-0	100	-	-	720
900mm / 36 in.	6-C2700-09-0-0	100	-	-	820
1000mm / 40 in.	6-C2700-10-0-0	100	475	-	920
1100mm / 43 in.	6-C2700-11-0-0	100	525	-	1020
1200mm / 47 in.	6-C2700-12-0-0	100	575	-	1120
1300mm / 51 in.	6-C2700-13-0-0	100	625	-	1220
1400mm / 55 in.	6-C2700-14-0-0	100	675	-	1320
1500mm / 59 in.	6-C2700-15-0-0	100	725	-	1420
1600mm / 63 in.	6-C2700-16-0-0	100	526	1023	1520
1700mm / 67 in.	6-C2700-17-0-0	100	560	1090	1620
1800mm / 71 in.	6-C2700-18-0-0	100	594	1157	1720
1900mm / 75 in.	6-C2700-19-0-0	100	626	1223	1820
2000mm / 79 in.	6-C2700-20-0-0	100	660	1290	1920

Casement & Awning Window Hardware

Series 6-C2760 Multipoint Locking Bars

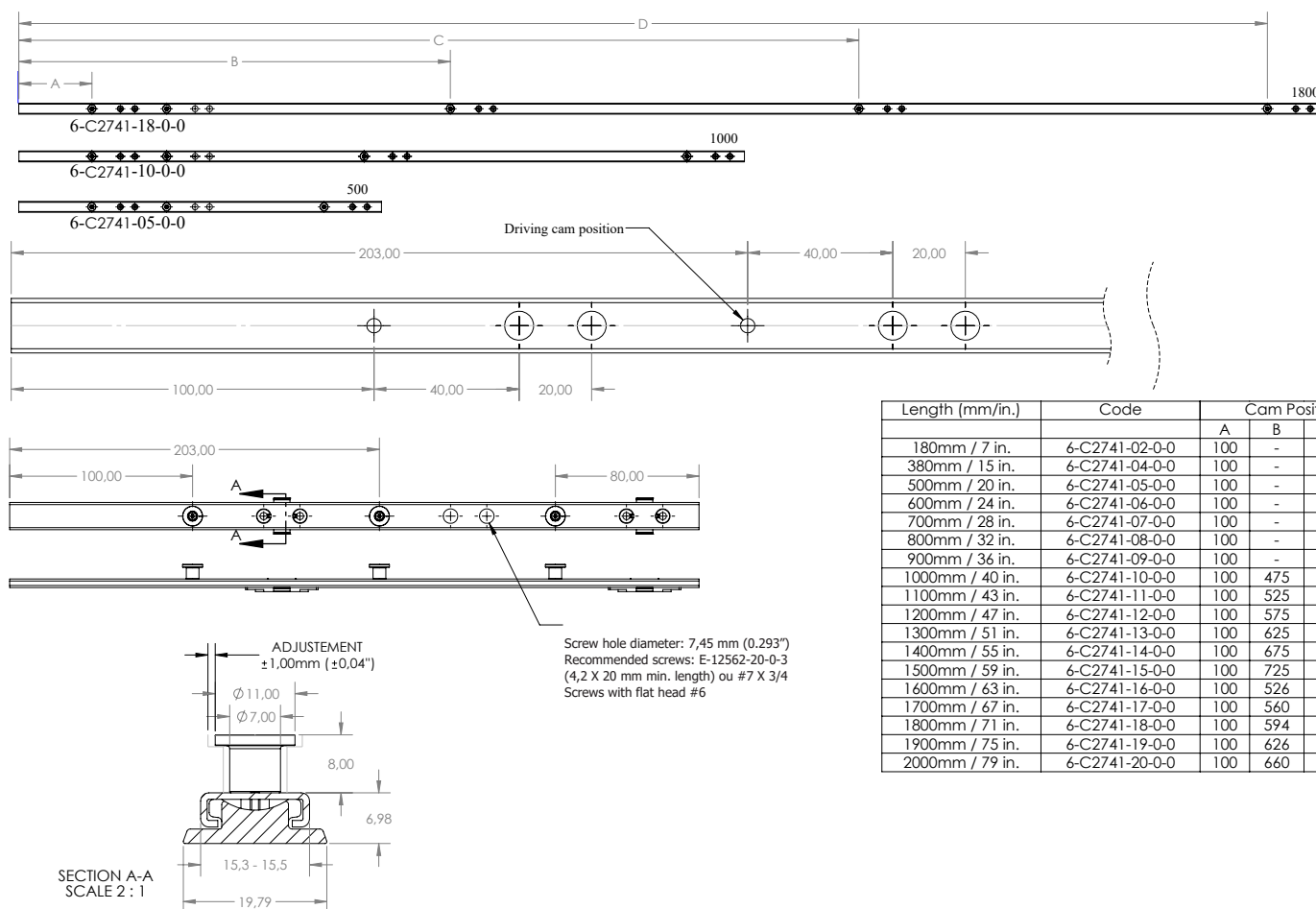


Screw hole diameter: 7,45 mm (0.293")
Recommended screws: E-12562-20-0-3
(4,2 X 20 mm min. length) ou #7 X 3/4
Screws with flat head #6

Length (mm/in.)	Code	Cam Position (mm)			
		A	B	C	D
180mm / 7 in.	6-C2760-02-0-0	20	-	-	100
380mm / 15 in.	6-C2760-04-0-0	20	-	-	300
500mm / 20 in.	6-C2760-05-0-0	20	-	-	420
600mm / 24 in.	6-C2760-06-0-0	20	-	-	520
700mm / 28 in.	6-C2760-07-0-0	20	-	-	620
800mm / 32 in.	6-C2760-08-0-0	20	-	-	720
900mm / 36 in.	6-C2760-09-0-0	20	-	-	820
1000mm / 40 in.	6-C2760-10-0-0	20	475	-	920
1100mm / 43 in.	6-C2760-11-0-0	20	525	-	1020
1200mm / 47 in.	6-C2760-12-0-0	20	575	-	1120
1300mm / 51 in.	6-C2760-13-0-0	20	625	-	1220
1400mm / 55 in.	6-C2760-14-0-0	20	675	-	1320
1500mm / 59 in.	6-C2760-15-0-0	20	725	-	1420
1600mm / 63 in.	6-C2760-16-0-0	20	526	1023	1520
1700mm / 67 in.	6-C2760-17-0-0	20	560	1090	1620
1800mm / 71 in.	6-C2760-18-0-0	20	594	1157	1720
1900mm / 75 in.	6-C2760-19-0-0	20	626	1223	1820
2000mm / 79 in.	6-C2760-20-0-0	20	660	1290	1920

Casement & Awning Window Hardware

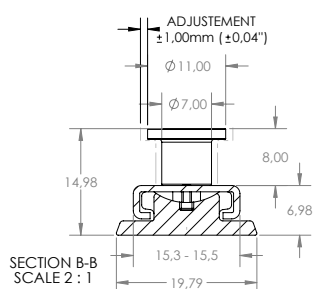
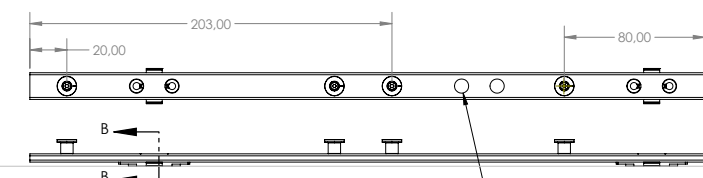
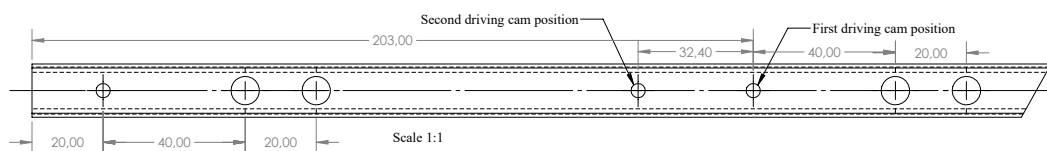
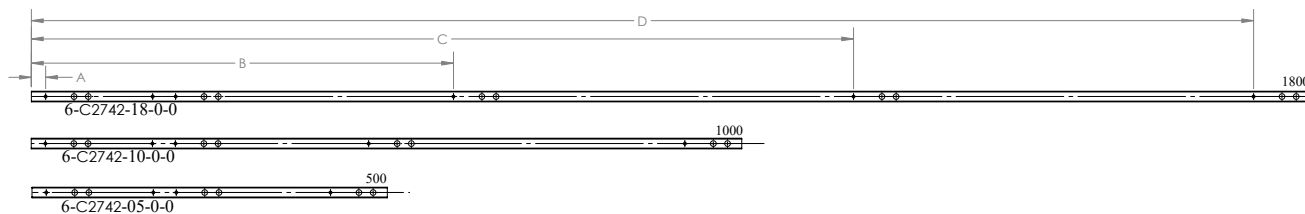
Series 6-C2741 Multipoint Locking Bars



Length (mm/in.)	Code	Cam Position (mm)			
		A	B	C	D
180mm / 7 in.	6-C2741-02-0-0	100	-	-	100
380mm / 15 in.	6-C2741-04-0-0	100	-	-	300
500mm / 20 in.	6-C2741-05-0-0	100	-	-	420
600mm / 24 in.	6-C2741-06-0-0	100	-	-	520
700mm / 28 in.	6-C2741-07-0-0	100	-	-	620
800mm / 32 in.	6-C2741-08-0-0	100	-	-	720
900mm / 36 in.	6-C2741-09-0-0	100	-	-	820
1000mm / 40 in.	6-C2741-10-0-0	100	475	-	920
1100mm / 43 in.	6-C2741-11-0-0	100	525	-	1020
1200mm / 47 in.	6-C2741-12-0-0	100	575	-	1120
1300mm / 51 in.	6-C2741-13-0-0	100	625	-	1220
1400mm / 55 in.	6-C2741-14-0-0	100	675	-	1320
1500mm / 59 in.	6-C2741-15-0-0	100	725	-	1420
1600mm / 63 in.	6-C2741-16-0-0	100	526	1023	1520
1700mm / 67 in.	6-C2741-17-0-0	100	560	1090	1620
1800mm / 71 in.	6-C2741-18-0-0	100	594	1157	1720
1900mm / 75 in.	6-C2741-19-0-0	100	626	1223	1820
2000mm / 79 in.	6-C2741-20-0-0	100	660	1290	1920

Casement & Awning Window Hardware

Series 6-C2742 Multipoint Locking Bars



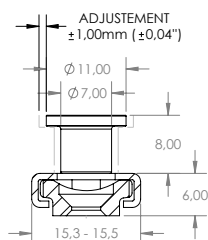
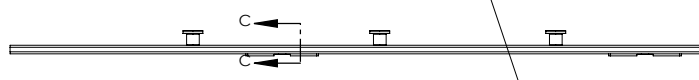
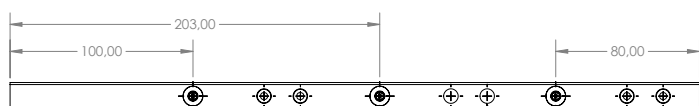
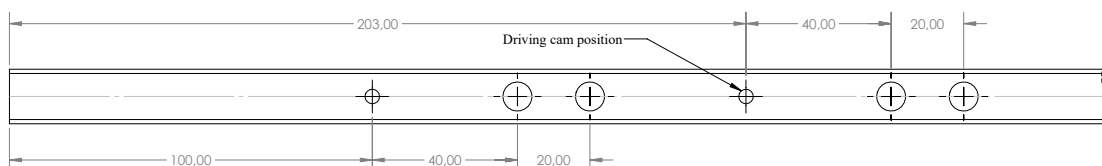
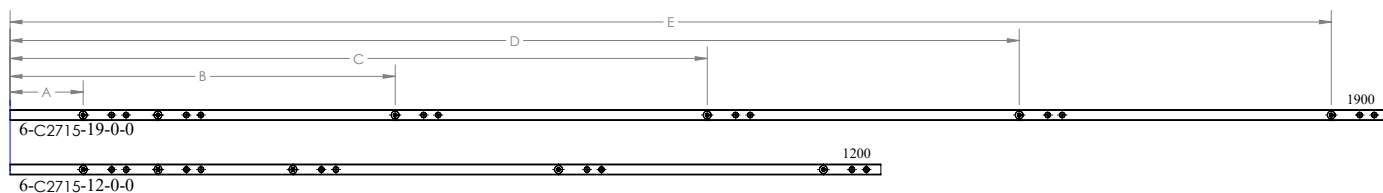
Screw hole diameter: 7,45 mm (0,293")
Recommended screws: E-12562-20-0-3
(4,2 X 20 mm min. length) ou #7 X 3/4
Screws with flat head #6

Length (mm/in.)	Code	Cam Position (mm)			
		A	B	C	D
180mm / 7 in.	6-C2742-02-0-0	20	-	-	100
380mm / 15 in.	6-C2742-04-0-0	20	-	-	300
500mm / 20 in.	6-C2742-05-0-0	20	-	-	420
600mm / 24 in.	6-C2742-06-0-0	20	-	-	520
700mm / 28 in.	6-C2742-07-0-0	20	-	-	620
800mm / 32 in.	6-C2742-08-0-0	20	-	-	720
900mm / 36 in.	6-C2742-09-0-0	20	-	-	820
1000mm / 40 in.	6-C2742-10-0-0	20	475	-	920
1100mm / 43 in.	6-C2742-11-0-0	20	525	-	1020
1200mm / 47 in.	6-C2742-12-0-0	20	575	-	1120
1300mm / 51 in.	6-C2742-13-0-0	20	625	-	1220
1400mm / 55 in.	6-C2742-14-0-0	20	675	-	1320
1500mm / 59 in.	6-C2742-15-0-0	20	725	-	1420
1600mm / 63 in.	6-C2742-16-0-0	20	526	1023	1520
1700mm / 67 in.	6-C2742-17-0-0	20	560	1090	1620
1800mm / 71 in.	6-C2742-18-0-0	20	594	1157	1720
1900mm / 75 in.	6-C2742-19-0-0	20	626	1223	1820
2000mm / 79 in.	6-C2742-20-0-0	20	660	1290	1920

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Casement & Awning Window Hardware

Series 6-C2715 Multipoint Locking Bars



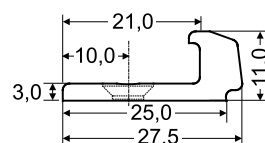
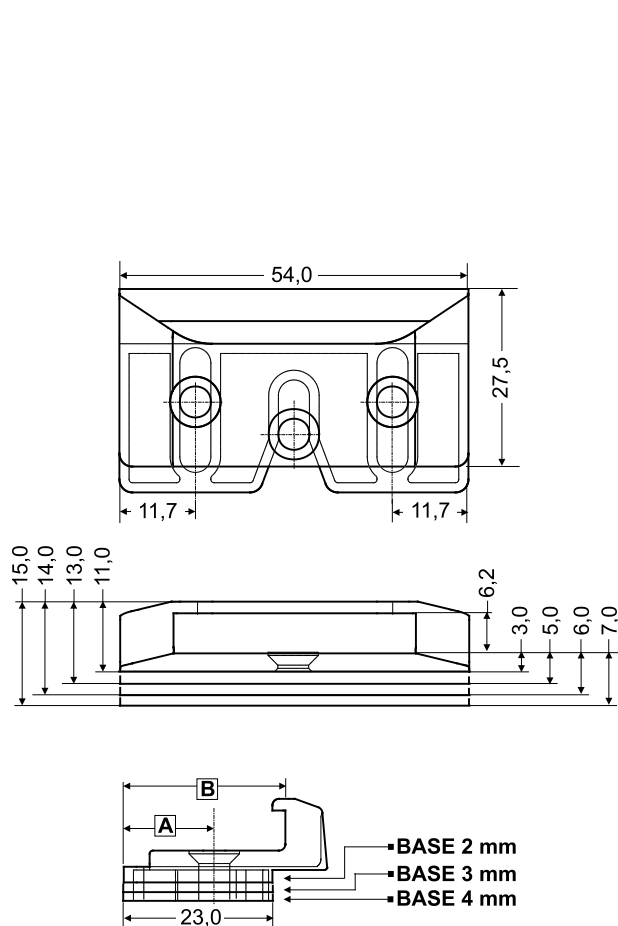
SECTION C-C
SCALE 2 : 1

Screw hole diameter: 7,45 mm (0.293")
Recommended screws: E-12562-20-0-3
(4,2 X 20 mm min. length) ou #7 X 3/4
Screws with flat head #6

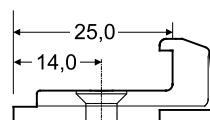
Length (mm/in.)	Code	Cam Position (mm)				
		A	B	C	D	E
1200mm / 47 in.	6-C2715-12-0-0	100	389	755	-	1120
1300mm / 51 in.	6-C2715-13-0-0	100	423	822	-	1220
1400mm / 55 in.	6-C2715-14-0-0	100	457	889	-	1320
1500mm / 59 in.	6-C2715-15-0-0	100	492	956	-	1420
1600mm / 63 in.	6-C2715-16-0-0	100	455	810	1165	1520
1700mm / 67 in.	6-C2715-17-0-0	100	480	860	1240	1620
1800mm / 71 in.	6-C2715-18-0-0	100	505	910	1315	1720
1900mm / 75 in.	6-C2715-19-0-0	100	530	960	1390	1820
2000mm / 79 in.	6-C2715-20-0-0	100	555	1010	1465	1920



Keepers 11 - 13 - 14 and 15mm



BASE 0 : 9-C2423-00-o-7

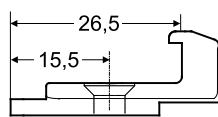


POSITION 1

BASE 2 : 9-C2423-21-o-7

BASE 3 : 9-C2423-31-o-7

BASE 4 : 9-C2423-41-o-7

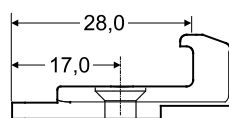


POSITION 2

BASE 2 : 9-C2423-22-o-7

BASE 3 : 9-C2423-32-o-7

BASE 4 : 9-C2423-42-o-7

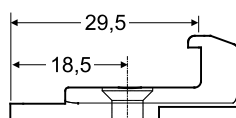


POSITION 3

BASE 2 : 9-C2423-23-o-7

BASE 3 : 9-C2423-33-o-7

BASE 4 : 9-C2423-43-o-7

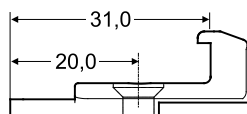


POSITION 4

BASE 2 : 9-C2423-24-o-7

BASE 3 : 9-C2423-34-o-7

BASE 4 : 9-C2423-44-o-7

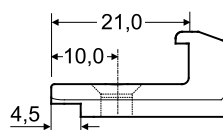


POSITION 5

BASE 2 : 9-C2423-25-o-7

BASE 3 : 9-C2423-35-o-7

BASE 4 : 9-C2423-45-o-7

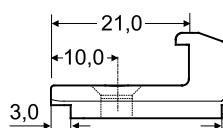


POSITION 6

BASE 2 : 9-C2423-26-o-7

BASE 3 : 9-C2423-36-o-7

BASE 4 : 9-C2423-46-o-7

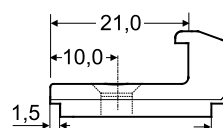


POSITION 7

BASE 2 : 9-C2423-27-o-7

BASE 3 : 9-C2423-37-o-7

BASE 4 : 9-C2423-47-o-7

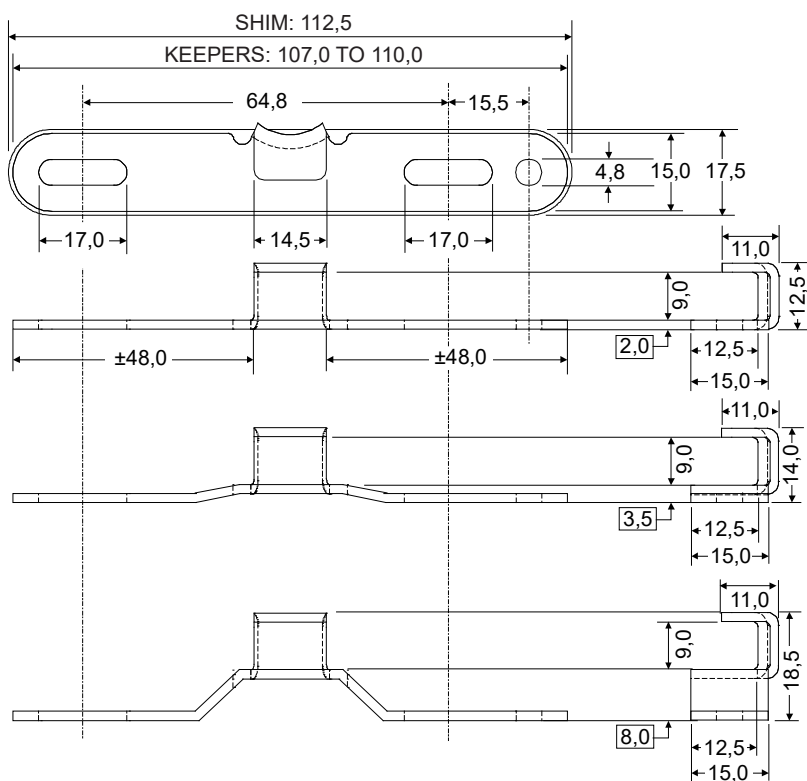


POSITION 8

BASE 2 : 9-C2423-28-o-7

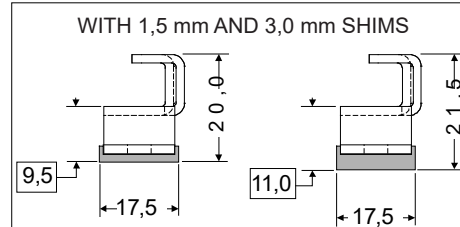
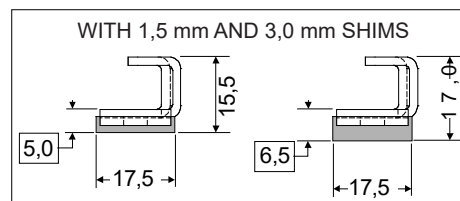
BASE 3 : 9-C2423-38-o-7

BASE 4 : 9-C2423-48-o-7



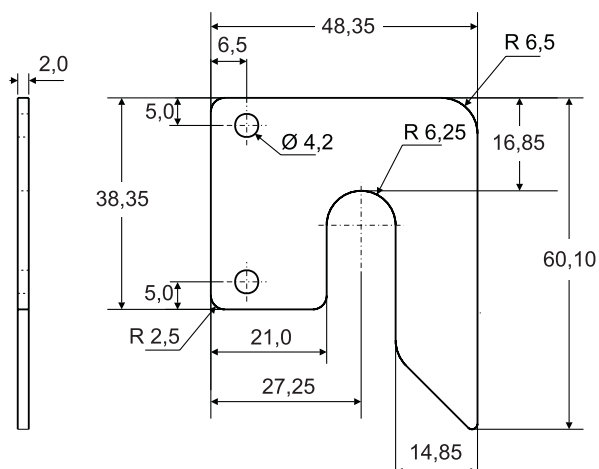
Keepers

Description	Part Number
Keeper 2mm height	9-C2440-02-0-8
Keeper 3,5mm height	9-C2440-03-0-1
Keeper 5mm height (with nylon shim)	6-C2440-05-0-1
Keeper 6,5mm height (with nylon shim)	6-C2440-06-0-1
Keeper 8mm height	9-C2440-08-0-1
Keeper 9,5mm height (with nylon shim)	6-C2440-09-0-1
Keeper 11mm height (with nylon shim)	6-C2440-11-0-1



Keeper

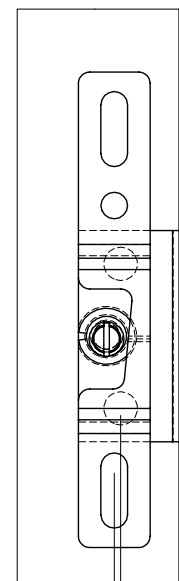
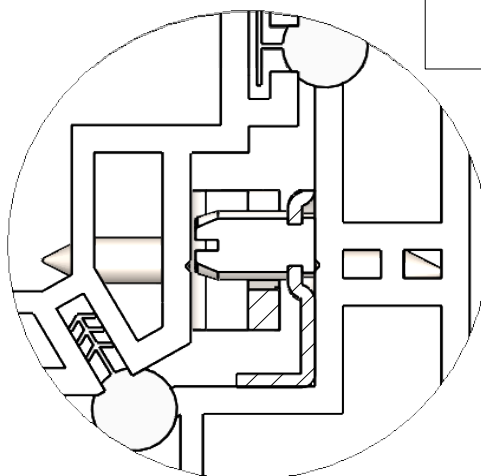
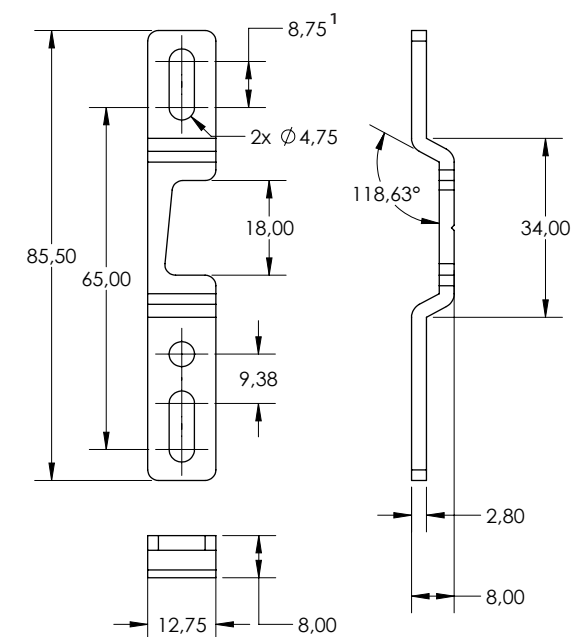
Description	Part Number
Keeper	9-C2725-00-0-2



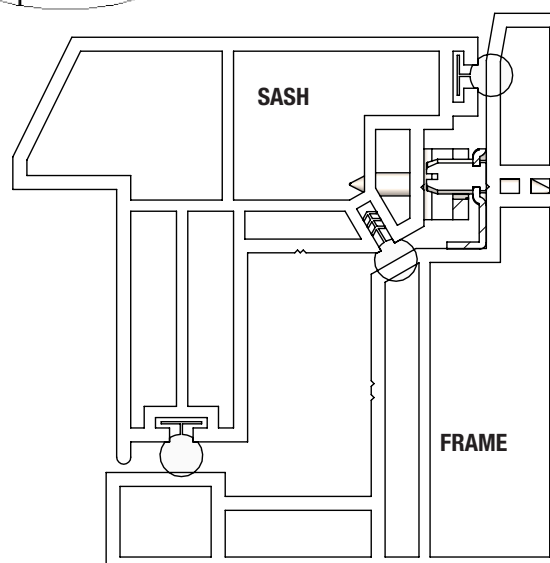
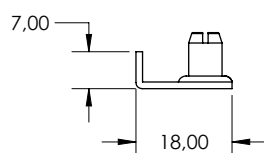
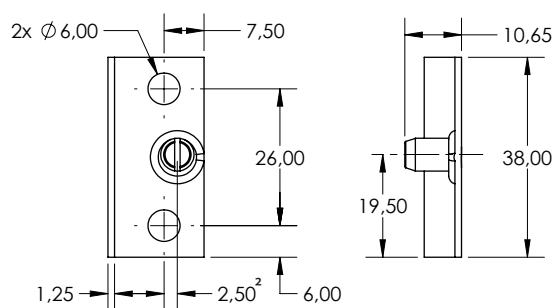


Adjustable Snubber

Description	Part Number
Snubber	6-C9207-00-0-1



Center distance
Max 1,1mm



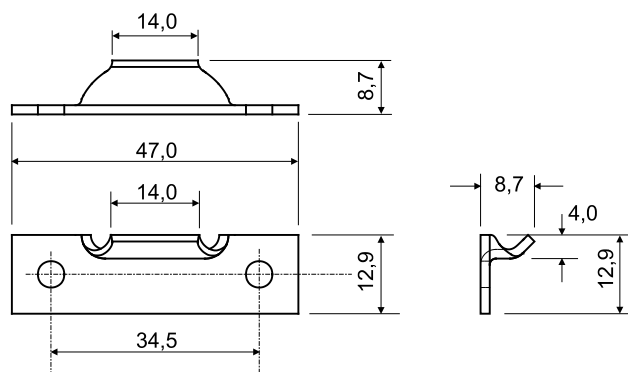
¹ +/- 0.42mm compression adjustment

² +/- 0.50mm compression adjustment

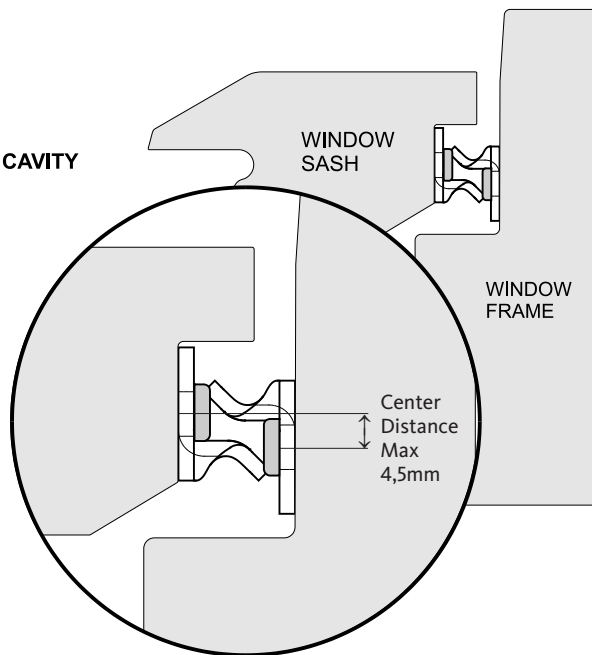


Snubber

Description	Part Number
Snubber	9-C9202-09-0-*



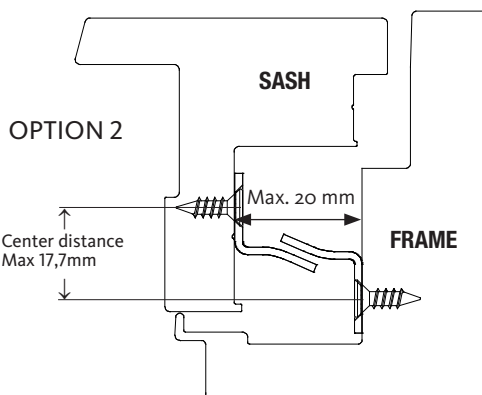
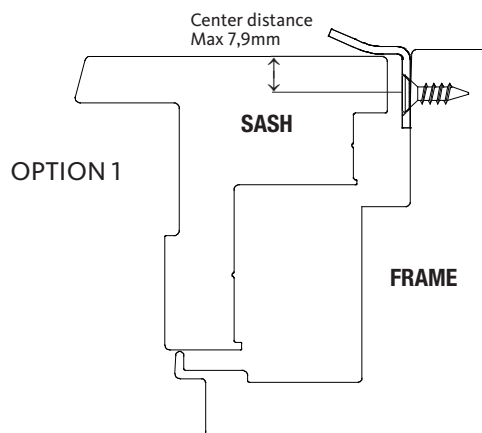
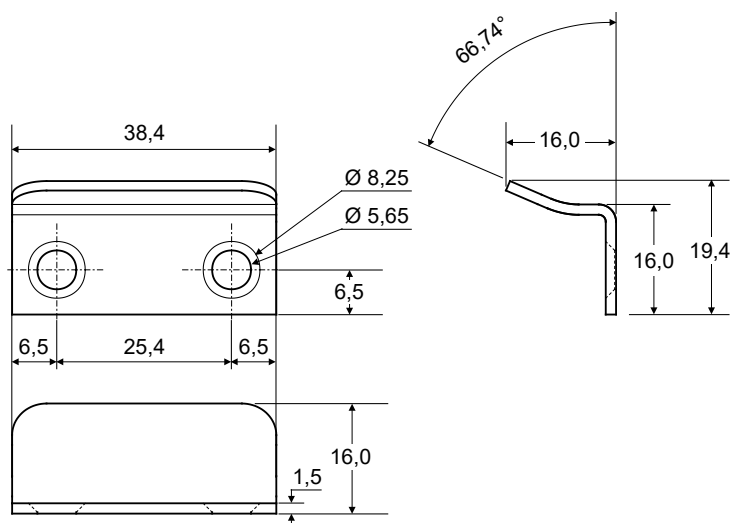
HINGE CAVITY



*Center distance to be validated according to the profile

Snubber (exterior)

Description	Part Number
Snubber	9-C2723-00-0-7

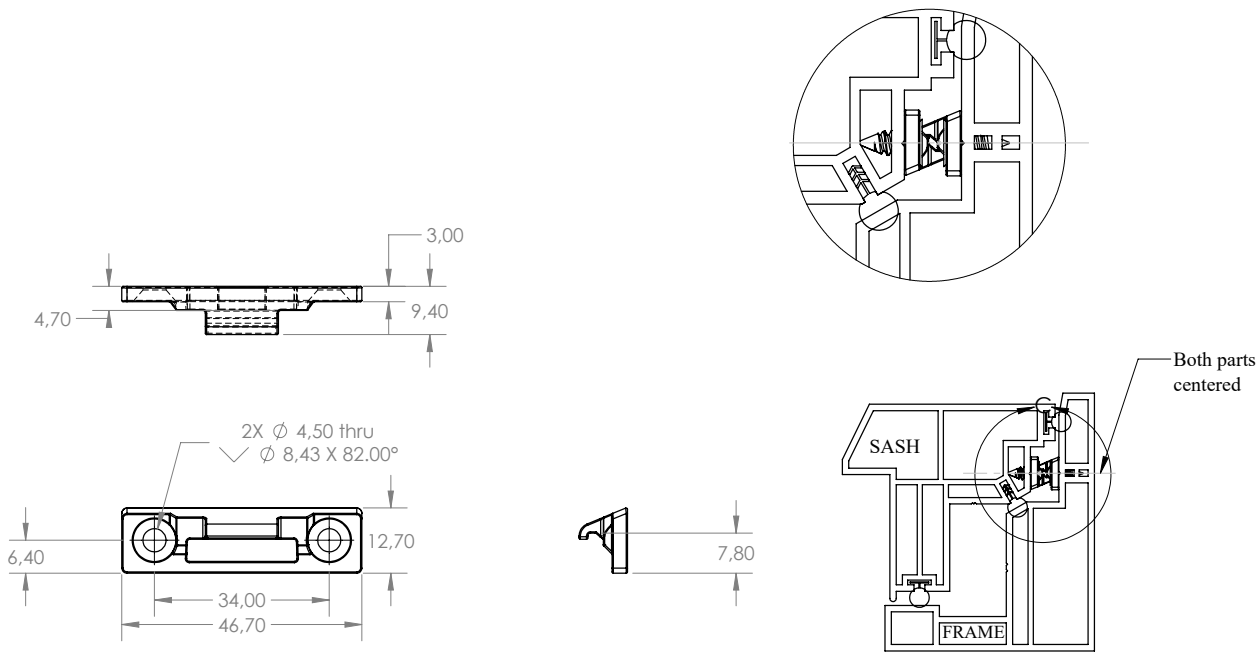


*Center distance to be validated according to the profile



Snubber 9x12x46mm

Description	Part Number
Snubber	9-C9201-00-0-1





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