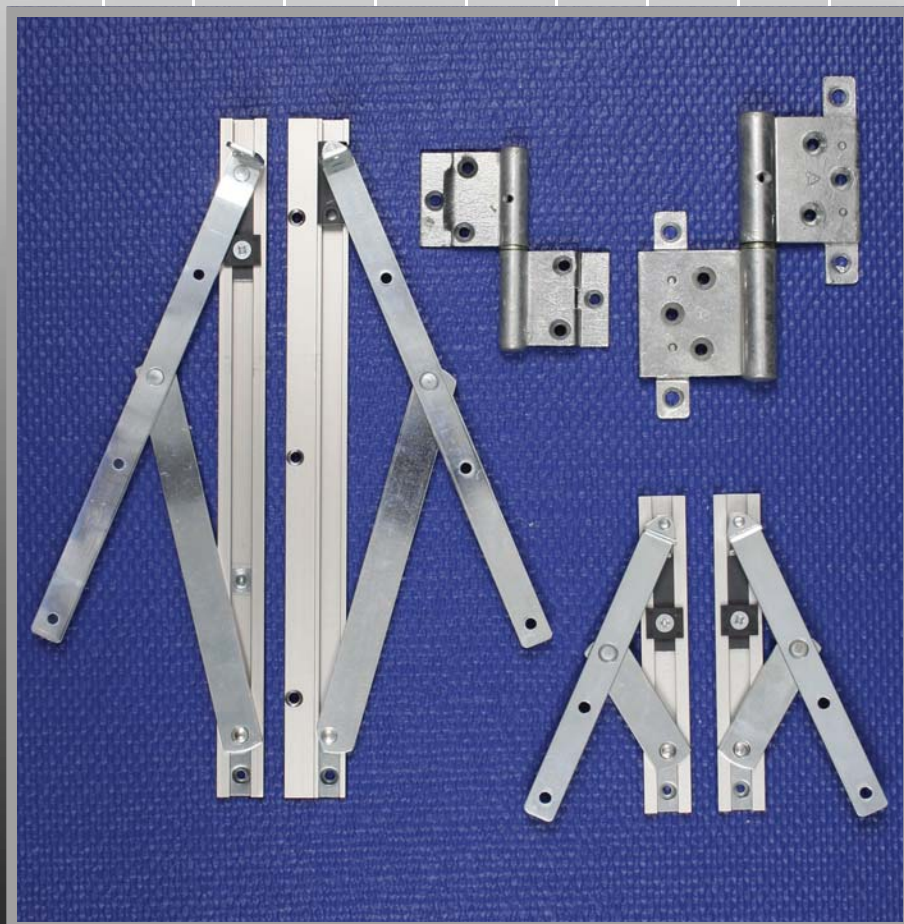


# IPA FITTINGS

## FOR 16 X 9 MM GROOVE



2019



**A/S J. PETERSENS BESLAGFABRIK**

JACOB PETERSENSVEJ 9, DK-9240 NIBE

TEL: (+45) 98 35 15 00







# FITTINGS FOR 16 X 9 GROOVE

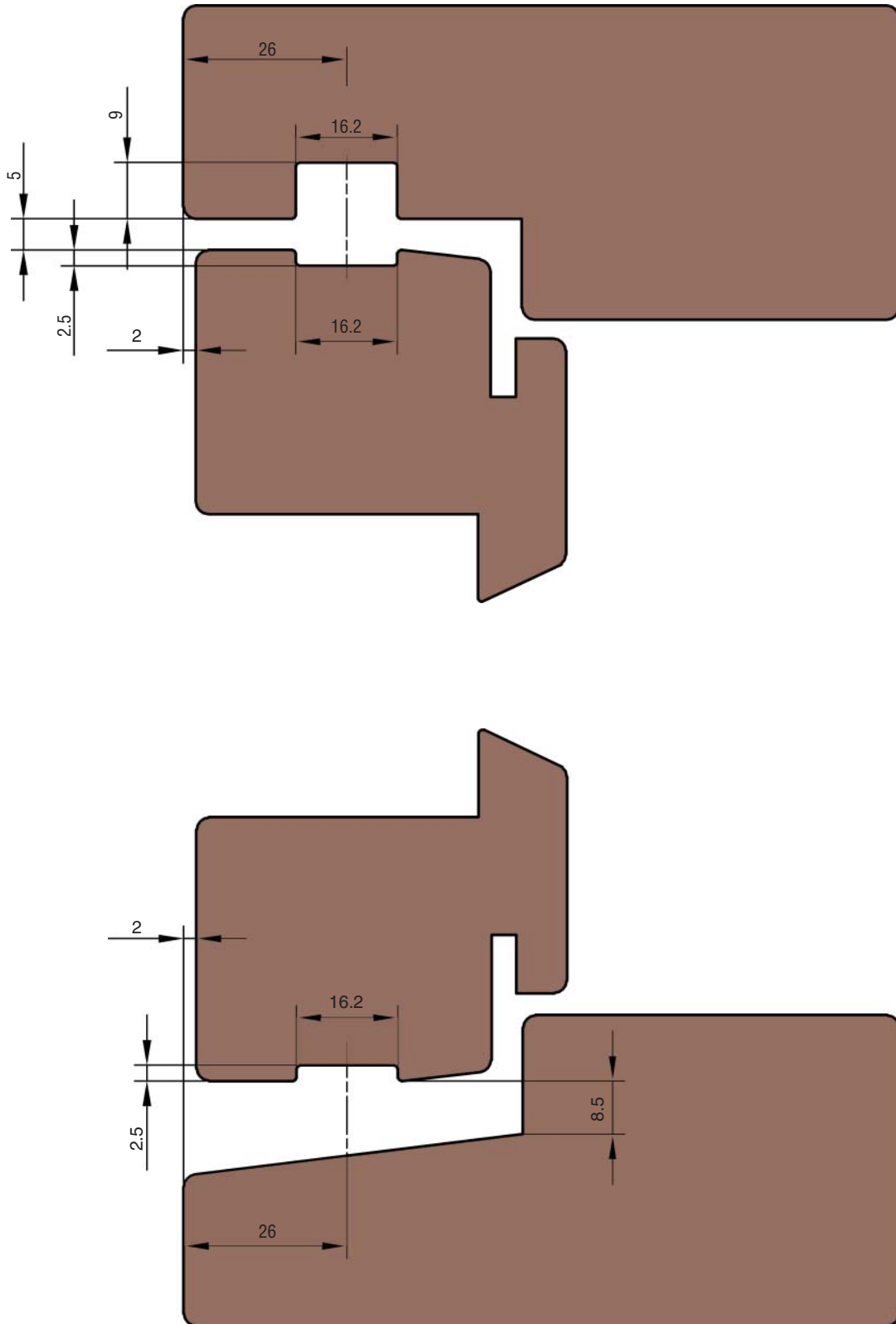
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# 16 X 9 MM GROOVE

## Example Wood Profile





## SUGGESTION - NUMBER OF HINGES

The charts below show the number of hinges, we suggest to use on different sizes of windows and doors. The charts shall ONLY be considered as a guidance, as the number of hinges also will depend on the use and weight of the window/door. If the window/door is mounted in a public building with many users (Schools, Railway Stations etc.) then more or even larger hinges are recommended.

Also we suggest to use a support fitting whenever possible.

**WINDOW HINGES:** Valid for the window hinges shown in this catalogue.

All window hinges meets the requirements of class 9 (60 Kgs.) in accordance with DS/EN 1935. The numbers in brackets are number of hinges in windows with 3-layer glass.

Width \ Height	< 500	501 - 600	601 - 700	701 - 800
1401 - 1500	2 (3)	3 (3)	3 (3)	3 (4)
1301 - 1400	2 (3)	3 (3)	3 (3)	3 (4)
1201 - 1300	2 (3)	3 (3)	3 (3)	3 (4)
1101 - 1200	2 (3)	3 (3)	3 (3)	3 (4)
1001 - 1100	2 (3)	3 (3)	3 (3)	3 (3)
901 - 1000	2 (2)	2 (2)	2 (2)	3 (3)
801 - 900	2 (2)	2 (2)	2 (2)	3 (3)
701 - 800	2 (2)	2 (2)	2 (2)	3 (3)
601 - 700	2 (2)	2 (2)	2 (2)	
501 - 600	2 (2)	2 (2)		
< 500	2 (2)			

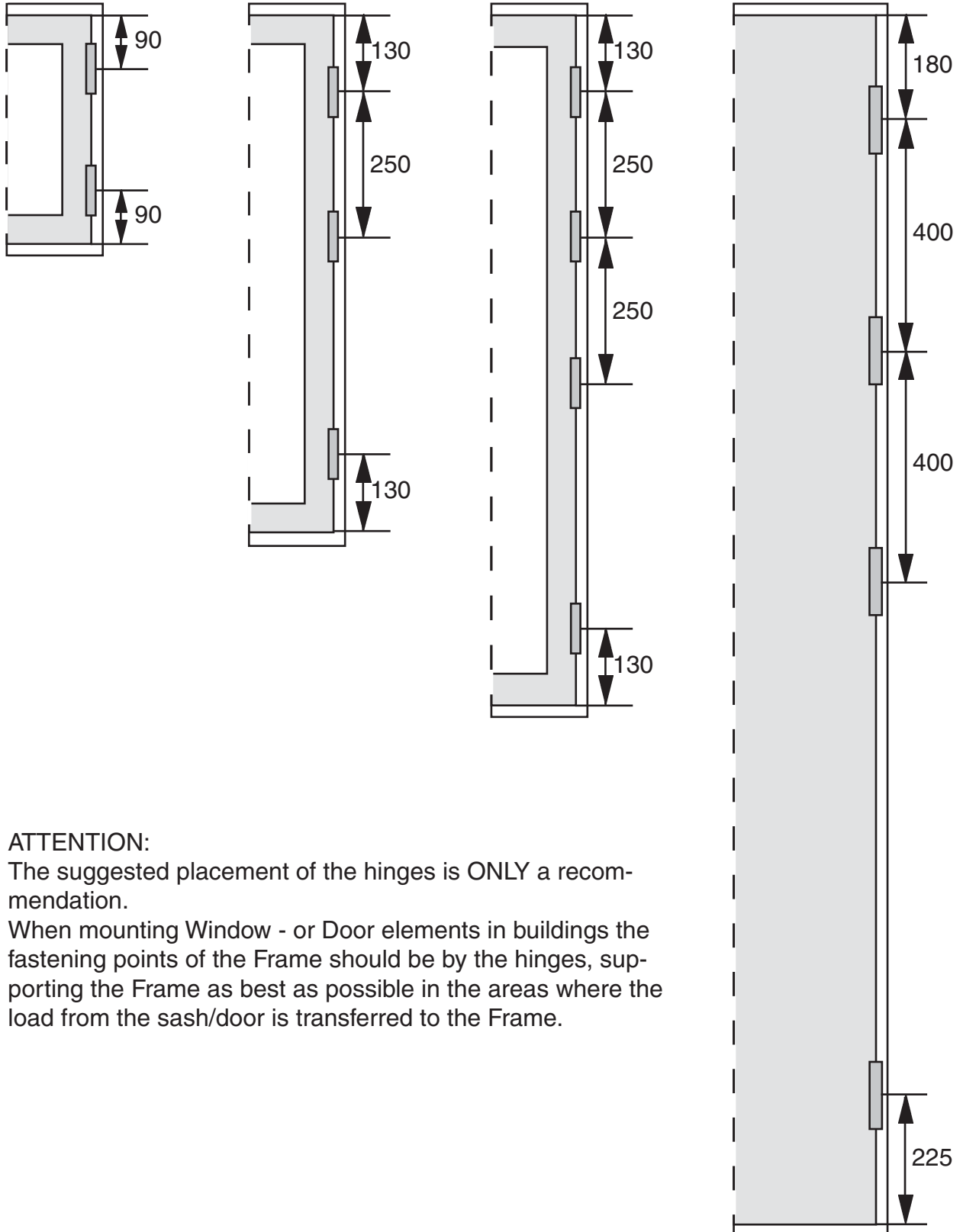
**DOORHINGES:** Valid for door hinges shown in this catalogue.

All door hinges with steel pin meets the requirements of class 13 (120 Kgs.) in accordance with DS/EN 1935. The same hinges with brass pin meets the requirements of class 11 (80 Kgs.) in accordance with DS/EN 1935

Width \ Height	< 700	701 - 800	801 - 900	901 - 1000	1001 - 1100
2501 - 2600	5	5	5		
2401 - 2500	5	5	5	5	
2301 - 2400	4	4	4	5	5
2201 - 2300	4	4	4	4	5
2101 - 2200	3	3	3	4	4
2001 - 2100	3	3	3	3	4
< 2000	3	3	3	3	4



## SUGGESTION - HINGE POSITIONS



### ATTENTION:

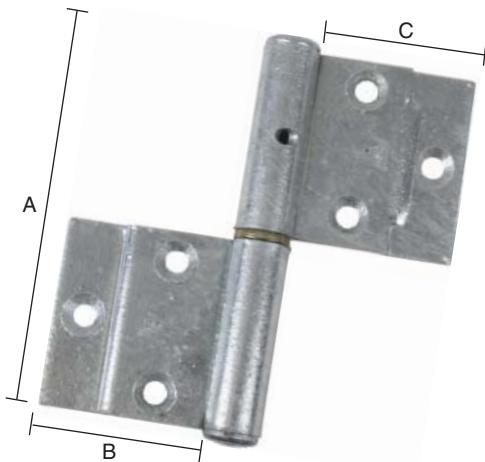
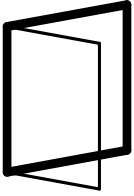
The suggested placement of the hinges is **ONLY** a recommendation.

When mounting Window - or Door elements in buildings the fastening points of the Frame should be by the hinges, supporting the Frame as best as possible in the areas where the load from the sash/door is transferred to the Frame.



# WINDOW HINGE

## IPA NO. 61974



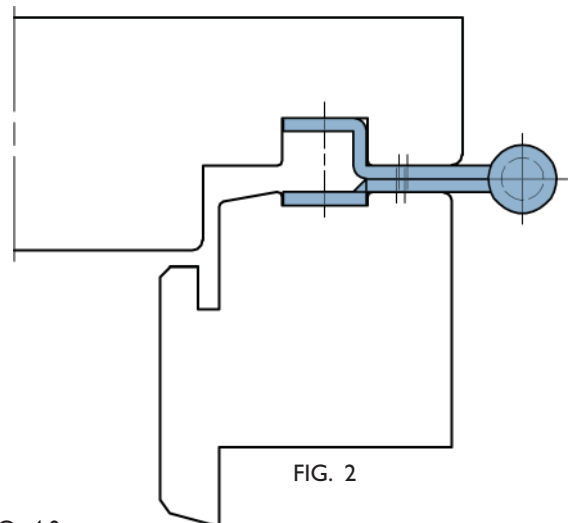
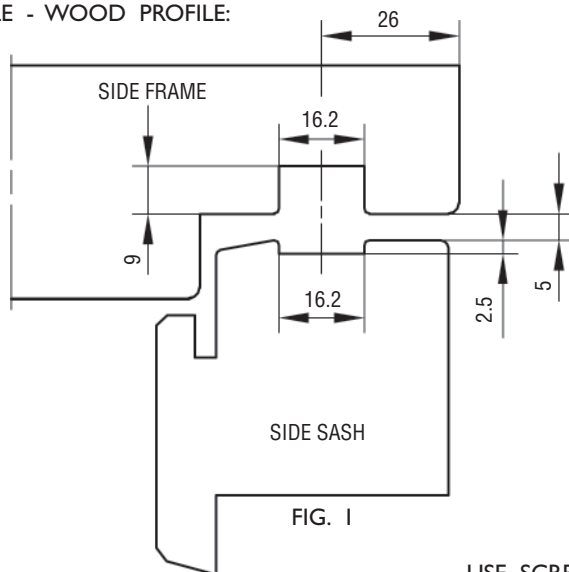
ORDERING NO.													
IPA NO.	MATERIAL		SQUARE EDGES LEFT	SQUARE EDGES RIGHT	SURFACE	INDUSTRY PACKING IN BOXES OF 100 PIECES	A MM	B MM	C MM	MATERIAL MM	PIN MM	SCREW	APPROX. WEIGHT KG./PC.
	STEEL FIXED STEEL PIN	STEEL FIXED BRASS PIN											
61974	2	3	3	4	87	2	90	38,5	38,5	2,5	8	4,0	0,17



# IPA NO. 61974

## FITTING INSTRUCTIONS

EXAMPLE - WOOD PROFILE:



USE SCREW NO. 4.0.

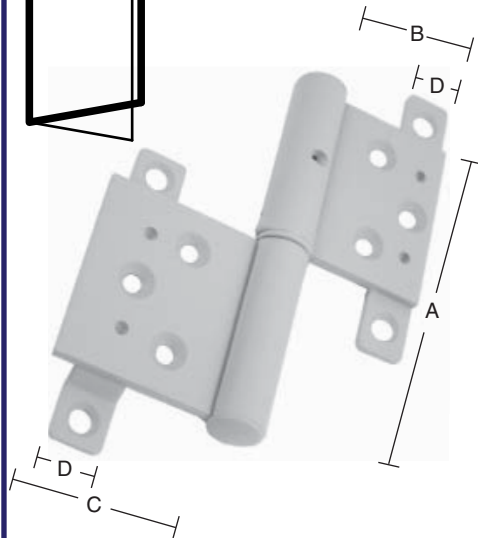
**MAINTENANCE:**

TEST THE OPERATION FROM TIME TO TIME. WHEN FITTING - GREASE THE PIVOT/MOVABLE METAL PARTS OF THE MECHANISM WHILE ACTIVATING REPEATEDLY. HEREAFTER GREASE MINIMUM TWICE A YEAR. SEE ALSO INSTRUCTIONS ON PAGE 37 - 38.



# DOORHINGE

## IPA NO. 61998



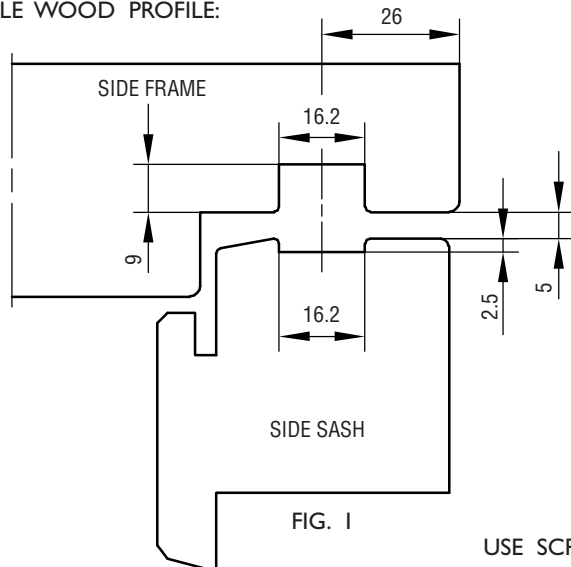
IPA NO.	ORDERING NO.						A MM	B MM	C MM	D MM	MATERIAL MM	PIN MM	SCREW	APPROX. WEIGHT KG./PIECES.
	MATERIAL		SQUARE EDGES LEFT	SQUARE EDGES RIGHT	SURFACE									
	STEEL FIXED STEEL PIN	STEEL FIXED BRASS PIN			GALVANIZED	INDUSTRY PACKING IN BOXES OF 50 PIECES								
<b>61998</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>87</b>	<b>2</b>	120	41	49	16	4	9,5	5,0	0,43



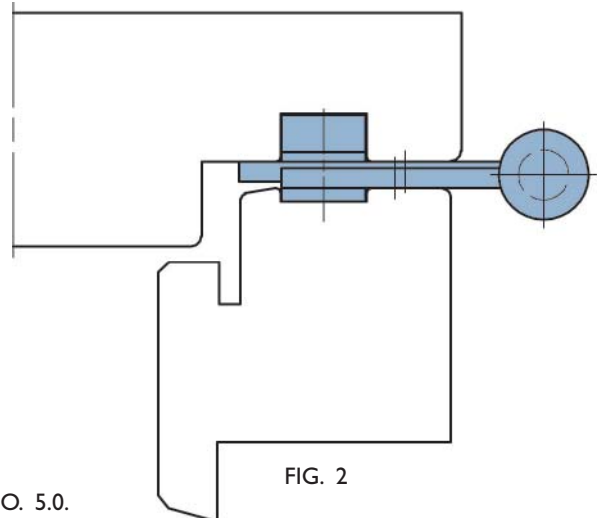
# IPA NO. 61998

## FITTING INSTRUCTIONS

EXAMPLE WOOD PROFILE:



USE SCREW NO. 5.0.



**MAINTENANCE:**

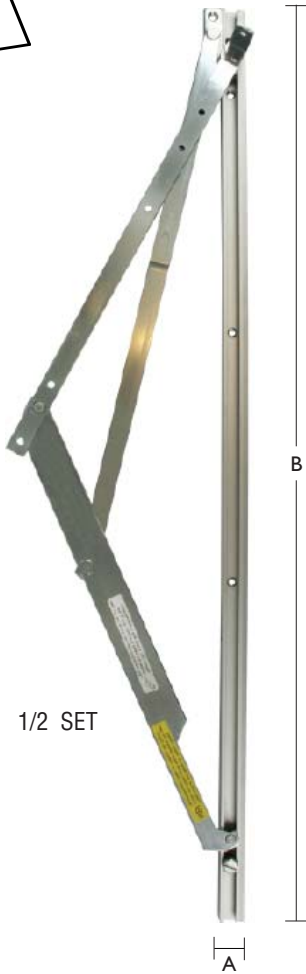
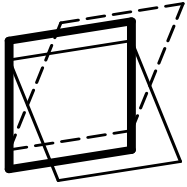
TEST THE OPERATION FROM TIME TO TIME. WHEN FITTING - GREASE THE PIVOT/MOVABLE METAL PARTS OF THE MECHANISM WHILE ACTIVATING REPEATEDLY. HEREAFTER GREASE MINIMUM TWICE A YEAR. SEE ALSO INSTRUCTIONS ON PAGE 37 - 38.





# TOP SWING FITTING WOOD/ALU

IPA NO.s 62906-12, IPA NO. 62762 & IPA NO. 62155



1/2 SET

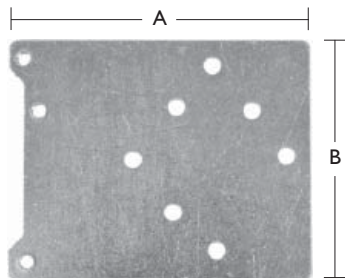
ORDERING NO.					A MM	B MM	FRAME DIMENSIONS INSIDE MM	SCREW	APPROX. WEIGHT KGS / SET
IPA NO.	MATERIAL	W/O SPECIFICATION	SURFACE						
	STEEL		ELECTROPLATED	STANDARD PACKING IN BOXES OF 1 SET					
62906	1	0	21	1	18	744	744-843	4,0	1,48
62907	1	0	21	1	18	844	844-943	4,0	1,66
62908	1	0	21	1	18	944	944-1043	4,0	1,84
62909	1	0	21	1	18	1044	1044-1143	4,0	2,02
62910	1	0	21	1	18	1144	1144-1243	4,0	2,20
62911	1	0	21	1	18	1244	1244-1343	4,0	2,38
62912	1	0	21	1	18	1344	1344-1443	4,0	2,56

- CONSEALED FITTING
- ADJUSTABLE FRICTION
- FULLY REVERSIBLE 170°
- OPENS CLEAR OF CURTAINS AND WINDOW FRAME
- ANODIZED ALUMINIUM RAILS

FIRE-ESCAPE OPENING:  
PLEASE SEE [WWW.IPAFITTINGS.COM/RESCUE](http://WWW.IPAFITTINGS.COM/RESCUE)



SAFETY CATCH  
IPA NO. 62762



THREADED PLATE  
IPA NO. 62155

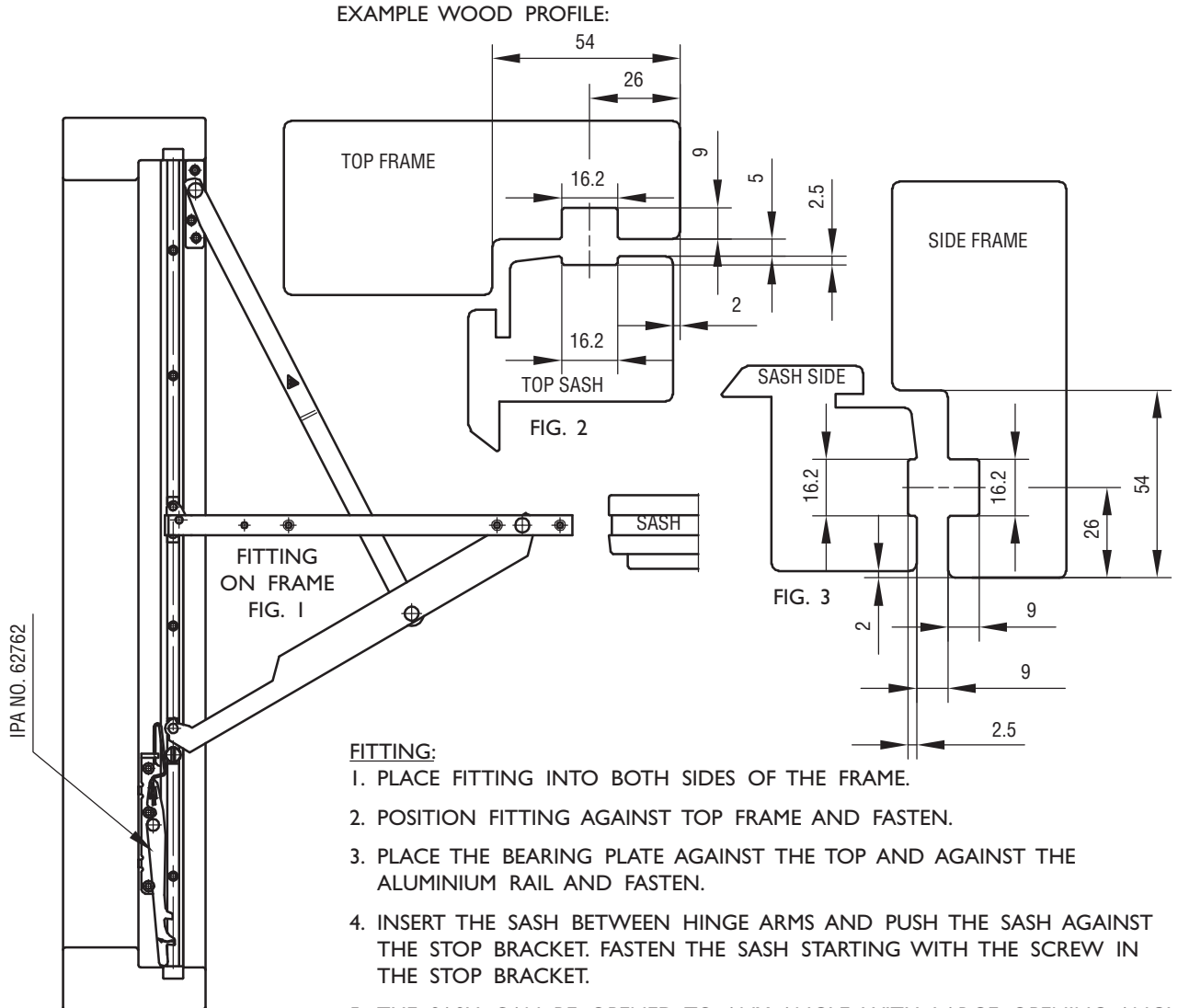
ORDERING NO.							A MM	SCREW	APPROX. WEIGHT KGS / PC.
IPA NO.	MATERIAL	LEFT	SURFACE		STANDARD PACKING IN BOXES OF 20 PCS.				
	STEEL		ELECTROPLATED						
62762	1	7	21	1	170	3,5	0,08		

ORDERING NO.								SCREW	APPROX. WEIGHT KGS / PC.
IPA NO.	MATERIAL	W/O SPECIFICATION	SURFACE		STANDARD PACKING IN BOXES OF 25 PCS.	A MM	B MM		
	STEEL		ELECTROPLATED						
62155	1	0	21	1	80	70	4,0	0,12	



# IPA NO.s 62906-12 & 62762 FITTING INSTRUCTIONS

IMPORTANT: THE SIDE FRAMES MUST BE STRAIGHT TO THE EFFECT THAT THE DISTANCE BETWEEN THE SIDE FRAMES (SLIDING RAILS) IS EXACTLY THE SAME FOR ANY HEIGHT OF THE FRAME. THIS IS IMPERATIVE FOR THE SLIDES TO TRAVEL FREELY IN THEIR ALUMINIUM RAILS.



**FITTING:**

1. PLACE FITTING INTO BOTH SIDES OF THE FRAME.
2. POSITION FITTING AGAINST TOP FRAME AND FASTEN.
3. PLACE THE BEARING PLATE AGAINST THE TOP AND AGAINST THE ALUMINIUM RAIL AND FASTEN.
4. INSERT THE SASH BETWEEN HINGE ARMS AND PUSH THE SASH AGAINST THE STOP BRACKET. FASTEN THE SASH STARTING WITH THE SCREW IN THE STOP BRACKET.
5. THE SASH CAN BE OPENED TO ANY ANGLE. WITH LARGE OPENING ANGLE A LIGHT FRICTION CAN BE OBTAINED BY MEANS OF THE FRICTION SCREWS IN THE SIDES. THE FRICTION HAS TO BE THE SAME ON BOTH SIDES. PLEASE NOTE THAT THE SASH IS NOT SECURED FOR HEAVY WINDS AND OTHER HEAVY INFLUENCE.
6. FIT THE RESTRICTOR IPA NO. 62762 ON THE LEFT SIDE, SEE FIG. 1.

USE SCREW NO. 4.0.

**OPERATION INSTRUCTIONS:**

1. OPEN THE WINDOW - THE RESTRICTOR WILL AUTOMATICALLY RESTRICT THE WINDOW.
2. PULL THE SASH 20 MM - PRESS THE RESTRICTOR IN THE DIRECTION OF THE ARROW AND OPEN THE WINDOW.
3. WHEN THE WINDOW IS REVERSED FOR CLEANING, THE RESTRICTOR WILL ENGAGE AUTOMATICALLY. DISENGAGE AS MENTIONED IN POINT 2.

**MAINTENANCE:**

THE FITTINGS ARE NOT TO BE PAINTED. WHEN FITTING - LUBRICATE THE PIVOT/MOVABLE METAL PARTS OF THE MECHANISM WHILE ACTIVATING REPEATEDLY. HEREAFTER LUBRICATE MINIMUM TWICE A YEAR. DO NOT GREASE THE ALUMINIUM RAILS. TEST THE OPERATION FROM TIME TO TIME. SEE ALSO INSTRUCTIONS ON PAGE 37 - 38.

IPA NO.	FITTING LENGTH MM	MAX. WEIGHT KGS	INSIDE FRAME MM
62906	744	45	744-843
62907	844	45	844-943
62908	944	60	944-1043
62909	1044	60	1044-1143
62910	1144	60	1144-1243
62911	1244	60	1244-1343
62912	1344	45	1344-1444

**USE THE LARGEST POSSIBLE FITTING**

**ATTENTION: MAX. WIDTH = HEIGHT + 300 MM, HOWEVER MAX. 1600 MM.**



# TOP SWING FITTING

180°

IPA NO.s 62944-52, IPA NO. 62762 & IPA NO. 62155



1/2 SET

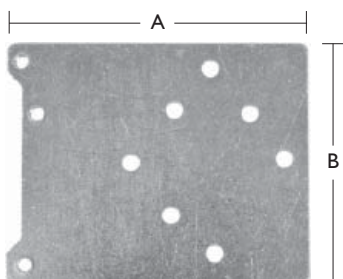
ORDERING NO.									
IPA NO.	MATERIAL		SURFACE		A MM	B MM	FRAME DIMENSIONS INSIDE MM	SCREW	APPROX. WEIGHT KGS / SET
	STEEL	W/O SPECIFICATION	ELECTROPLATED	STANDARD PACKING IN BOXES OF 1 SET					
62944	1	0	21	1	18	544	544-643	4,0	1,08
62945	1	0	21	1	18	644	644-743	4,0	1,26
62946	1	0	21	1	18	744	744-843	4,0	1,44
62947	1	0	21	1	18	844	844-943	4,0	1,62
62948	1	0	21	1	18	944	944-1043	4,0	1,80
62949	1	0	21	1	18	1044	1044-1143	4,0	1,98
62950	1	0	21	1	18	1144	1144-1243	4,0	2,16
62951	1	0	21	1	18	1244	1244-1343	4,0	2,34
62952	1	0	21	1	18	1344	1344-1443	4,0	2,52

- CONSEALED FITTING
- ADJUSTABLE FRICTION
- FULLY REVERSIBLE 170°
- OPENS CLEAR OF CURTAINS AND WINDOW FRAME
- ANODIZED ALUMINIUM RAILS

FIRE-ESCAPE OPENING:  
PLEASE SEE [WWW.IPAFITTINGS.COM/RESCUE](http://WWW.IPAFITTINGS.COM/RESCUE)



SAFETY CATCH  
IPA NO. 62762



THREADED PLATE  
IPA NO. 62155

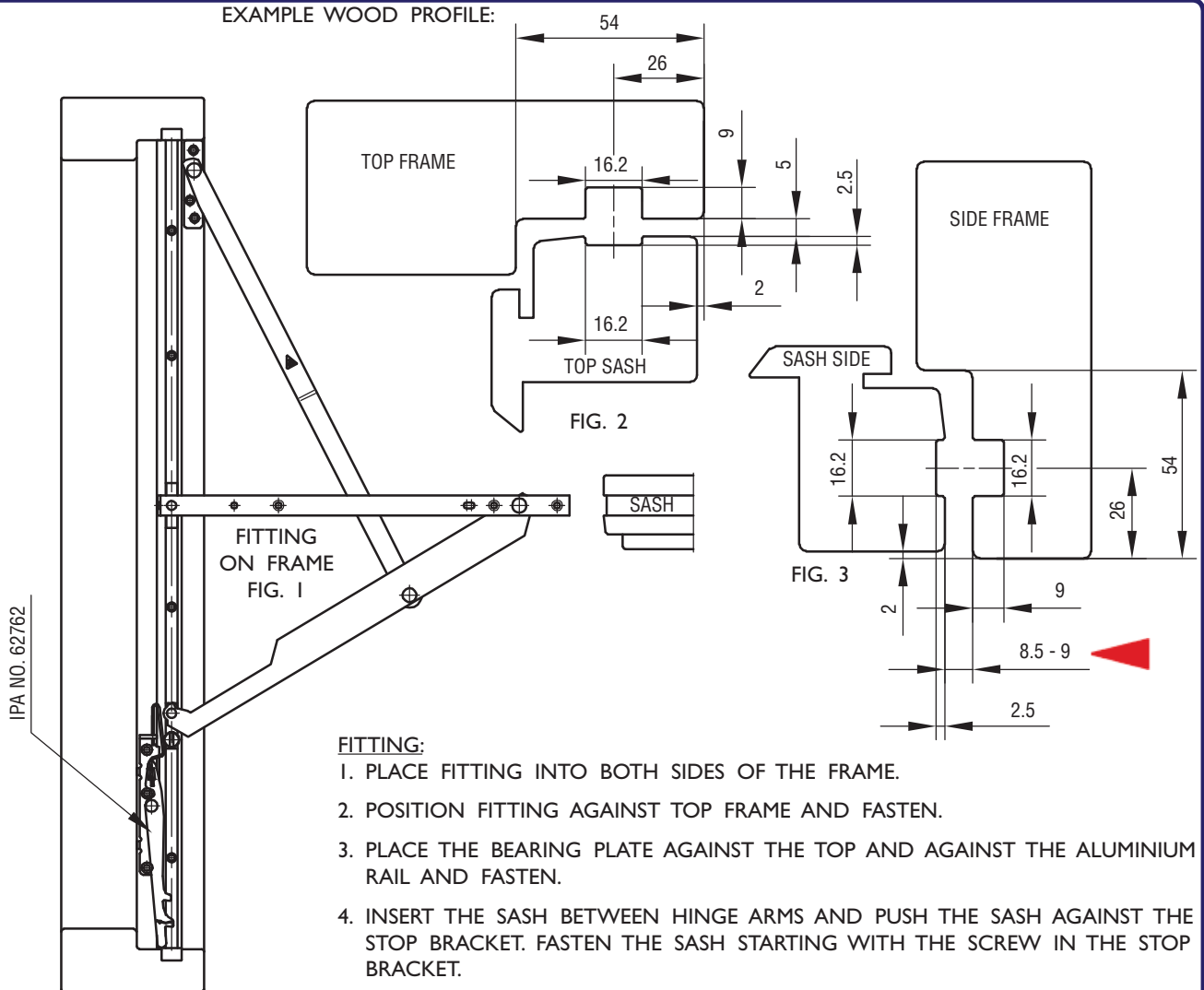
ORDERING NO.							
IPA NO.	MATERIAL		SURFACE		A MM	SCREW	APPROX. WEIGHT KGS / PC.
	STEEL	LEFT	ELECTROPLATED	STANDARD PACKING IN BOXES OF 20 PCS.			
62762	1	7	21	1	170	3,5	0,08

ORDERING NO.								
IPA NO.	MATERIAL		SURFACE		A MM	B MM	SCREW	APPROX. WEIGHT KGS / PC.
	STEEL	W/O SPECIFICATION	ELECTROPLATED	STANDARD PACKING IN BOXES OF 25 PCS.				
62155	1	0	21	1	80	70	4,0	0,12



# IPA NO.s 62944-52 & IPA No. 62762 FITTING INSTRUCTIONS

IMPORTANT: THE SIDE FRAMES MUST BE STRAIGHT TO THE EFFECT THAT THE DISTANCE BETWEEN THE SIDE FRAMES (SLIDING RAILS) IS EXACTLY THE SAME FOR ANY HEIGHT OF THE FRAME. THIS IS IMPERATIVE FOR THE SLIDES TO TRAVEL FREELY IN THEIR ALUMINIUM RAILS.



**FITTING:**

1. PLACE FITTING INTO BOTH SIDES OF THE FRAME.
2. POSITION FITTING AGAINST TOP FRAME AND FASTEN.
3. PLACE THE BEARING PLATE AGAINST THE TOP AND AGAINST THE ALUMINIUM RAIL AND FASTEN.
4. INSERT THE SASH BETWEEN HINGE ARMS AND PUSH THE SASH AGAINST THE STOP BRACKET. FASTEN THE SASH STARTING WITH THE SCREW IN THE STOP BRACKET.
5. THE SASH CAN BE OPENED TO ANY ANGLE. WITH LARGE OPENING ANGLE A LIGHT FRICTION CAN BE OBTAINED BY MEANS OF THE FRICTION SCREWS IN THE SIDES. THE FRICTION HAS TO BE THE SAME ON BOTH SIDES. PLEASE NOTE THAT THE SASH IS NOT SECURED FOR HEAVY WINDS AND OTHER HEAVY INFLUENCE.
6. FIT THE RESTRICTOR IPA NO. 62762 ON THE LEFT SIDE, SEE FIG. 1.

USE SCREW NO. 4.0.

**OPERATION INSTRUCTIONS:**

1. OPEN THE WINDOW - THE RESTRICTOR WILL AUTOMATICALLY RESTRICT THE WINDOW.
2. PULL THE SASH 20 MM - PRESS THE RESTRICTOR IN THE DIRECTION OF THE ARROW AND OPEN THE WINDOW.
3. WHEN THE WINDOW IS REVERSED FOR CLEANING, THE RESTRICTOR WILL ENGAGE AUTOMATICALLY. DISENGAGE AS MENTIONED IN POINT 2.

**MAINTENANCE:**

THE FITTINGS ARE NOT TO BE PAINTED. WHEN FITTING - LUBRICATE THE PIVOT/MOVABLE METAL PARTS OF THE MECHANISM WHILE ACTIVATING REPEATEDLY. HEREAFTER LUBRICATE MINIMUM TWICE A YEAR. DO NOT GREASE THE ALUMINIUM RAILS. TEST THE OPERATION FROM TIME TO TIME. SEE ALSO INSTRUCTIONS ON PAGE 37 - 38.

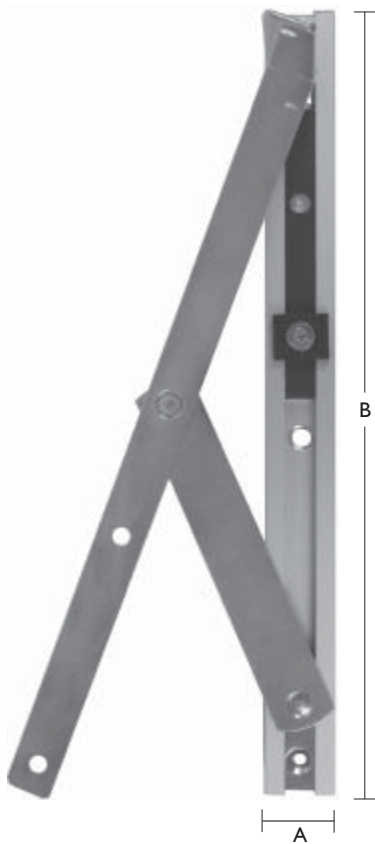
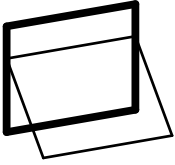
I P A NO.	FITTING LENGTH MM	MAX. WEIGHT KGS	INSIDE FRAME MM
62944	544	60	544-643
62945	644	45	644-743
62946	744	45	744-843
62947	844	45	844-943
62948	944	60	944-1043
62949	1044	60	1044-1143
62950	1144	60	1144-1243
62951	1244	60	1244-1343
62952	1344	45	1344-1443

**USE THE LARGEST POSSIBLE FITTING**

**ATTENTION: MAX. WIDTH = HEIGHT + 300 MM, HOWEVER MAX. 1600 MM.**



# CANOPY STAYS WITH FRICTION IPA NO.s 62970-75

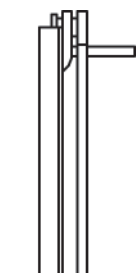


1/2 SET

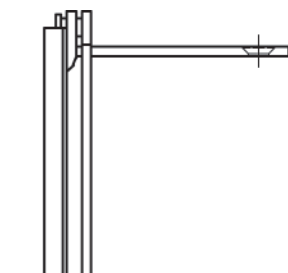
ORDERING NO.									
IPA NO.	MATERIAL	W/O SPECIFICATION	SURFACE	STANDARD PACKING IN BOXES OF 5 SETS.	INDUSTRY PACKING IN BOXES OF 25 SETS.	A MM	B MM	SCREW	APPROX. WEIGHT KGS / SET
	STEEL		ELECTROPLATED						
62970	1	0	21	-	2	19	255	4.0	0.48
62973	1	0	21	-	2	19	445	4.0	0.70
62974	1	0	21	1	-	19	703	4.0	1.10
62975	1	0	21	1	-	19	152	4.0	0.28

- ADJUSTABLE FRICTION
- CONCEALED FITTINGS
- ANODIZED ALUMINIUM RAILS

FIRE-ESCAPE OPENING:  
PLEASE SEE [WWW.IPAFITTINGS.COM/RESCUE](http://WWW.IPAFITTINGS.COM/RESCUE)



IPA NO. 62975



IPA NO.s 62970-74



# IPA No. 62970 - 75 FITTING INSTRUCTIONS

EXAMPLE WOOD PROFILE:

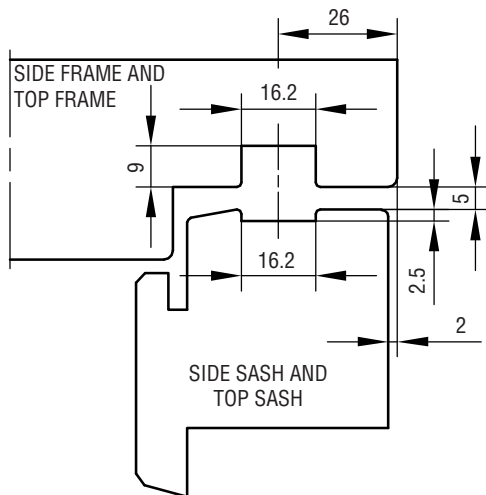


FIG. 1

HORIZONTAL PLANE

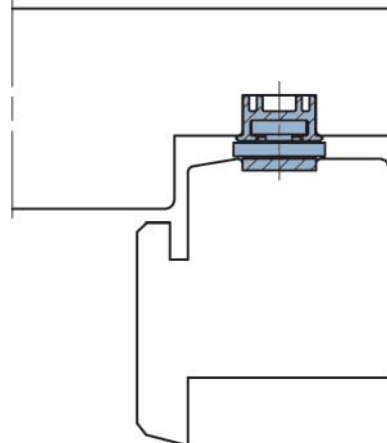


FIG. 2

**OBS! RE. IPA NO. 62973:**  
FOR BIG WINDOWS (>1200 MM) WITH 3-LAYER GLASS AND NO REQUIREMENTS FOR EGRESS OPENINGS THE USE OF IPA NO. 62974 IS RECOMMENDED, AS THE VENTILATION POSITION OTHERWISE MAY BE DIFFICULT TO ACHIEVE BECAUSE OF THE OPENING GEOMETRY OF THE GEARS.

IPA NO.	62970	62973	62974	62975
MAX. SASH WEIGHT KG	40	50	70	20
MAX. INSIDE FRAME HEIGHT MM	844	1344	1544	310
USE SCREW NO.	4.0	4.0	4.0	4.0

**ESPECIALLY FOR IPA NO. 62973 OG 62974:**  
THE SCREW IN THE TOP OF THE FRICTION ELEMENT IS ONLY TO ENSURE THAT THE GLIDING ELEMENT BELOW MOVES CORRECTLY IN THE ALUMINIUM RAIL. THEREFORE THIS SCREW MUST NOT BE ADJUSTED.

## FITTING:

- CLOSE THE FITTING AND PLACE IT IN THE GROOVE OF THE SIDE FRAME. PLACE THE FITTING AGAINST THE TOP FRAME. PLACE AND FASTEN THE SCREW IN THE BOTTOM HOLE OF THE FITTING.  
62973: FASTEN THE STOP PLATE THROUGH THE UPPER SCREW HOLE IN THE STOP PLATE AND THROUGH THE UPPER SCREW HOLE IN THE ALURAIL. THIS ENABLES MAX. FIRE ESCAPE OPENING. USE LOWER SCREW HOLE IN STOP PLATE TO ACHIEVE A MAX. SASH LOAD OF 60 KGS. IF LOWER SCREW HOLE IS USED THE FIRE ESCAPE OPENING WILL BE REDUCED.  
62974: ALWAYS USE THE UPPER SCREW HOLE IN THE ALURAIL FOR FASTENING THE STOP PLATE. USE THE UPPER SCREW HOLE IN STOP PLATE FOR MAX. FIRE ESCAPE OPENING. USE THE MIDDLE SCREW HOLE IN THE STOP PLATE TO ACHIEVE A MAX. SASH LOAD OF 85 KGS. USE THE LOWER SCREW HOLE IN THE STOP PLATE TO ACHIEVE A MAX. SASH LOAD OF 100 KGS. IF MIDDLE OR LOWER SCREW HOLES IN STOP PLATE ARE USED THE FIRE ESCAPE OPENING WILL BE REDUCED.
- PUSH THE SASH INTO ITS PLACE BY INSERTING IT BETWEEN THE HINGE ARMS, GUIDED BY THE GROOVES IN THE SASH, UNTIL THE SASH HITS THE STOPS OF THE FITTING. THESE STOPS WILL GUARANTEE A 5 MM GAB BETWEEN FRAME AND SASH. FASTEN THE FITTING STARTING WITH THE SCREW IN THE STOP BRACKET (IPA NO. 62570-74).
- NOW THE FRICTION MAY BE ADJUSTED BY MEANS OF THE SCREWS IN THE SLIDES. THE BEST RESULT FOR THE WINDOW MOVEMENT IS ACHIEVED BY EQUAL FRICTION IN EITHER SIDE.

## MAINTENANCE:

THE FITTINGS ARE NOT TO BE PAINTED. TEST THE OPERATION FROM TIME TO TIME. WHEN FITTING - LUBRICATE THE PIVOT/MOVABLE METAL PARTS OF THE MECHANISM WHILE ACTIVATING REPEATEDLY. HEREAFTER LUBRICATE MINIMUM TWICE A YEAR. DO NOT LUBRICATE THE ALUMINIUM RAILS. SEE ALSO INSTRUCTIONS ON PAGE 37 - 38.

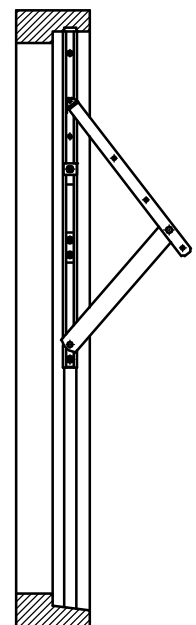
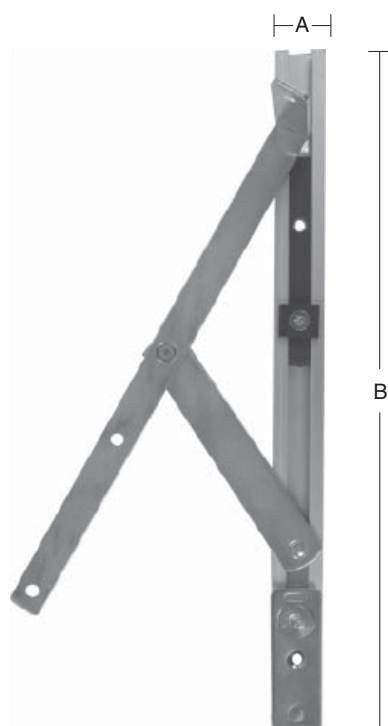
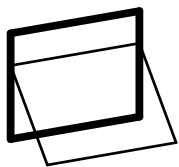


FIG. 3

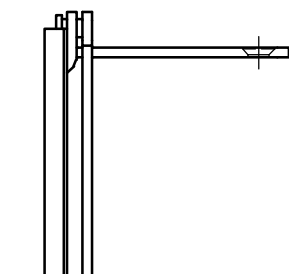


# ADJUSTABLE CANOPY STAYS WITH FRICTION

## IPA NO.s 62986-87 + 89



1/2 SET



ORDERING NO.								
IPA NO.	MATERIAL	W/O SPECIFICATION	SURFACE	INDUSTRY PACKING IN BOXES OF 25 SETS.	A MM	B MM	SCREW	APPROX. WEIGHT KGS / SET
	STEEL		ELECTROPLATED					
62986	1	0	21	2	19	306	4,0	0,58
62987	1	0	21	2	19	496	4,0	0,80
62989	1	0	21	2	19	755	4,0	1,20

- VERTICALLY ADJUSTABLE  $\pm 1.5$  MM
- ADJUSTABLE FRICTION
- CONCEALED FITTINGS
- ANODIZED ALUMINIUM RAILS

FIRE-ESCAPE OPENING:  
PLEASE SEE [WWW.IPAFITTINGS.COM/RESCUE](http://WWW.IPAFITTINGS.COM/RESCUE)





# IPA NO.s 62986 - 87 + 89 FITTING INSTRUCTIONS

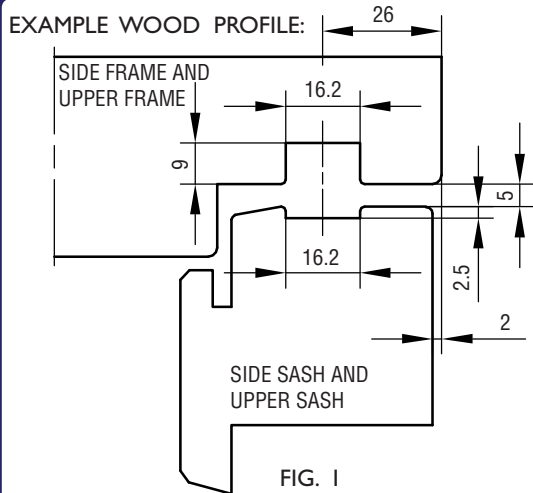


FIG. 1

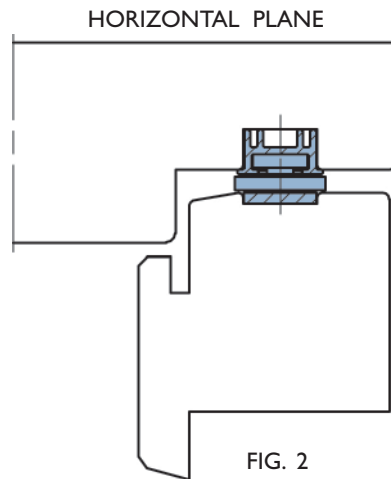


FIG. 2

**OBS! RE. IPA NO. 62587:**  
FOR BIG WINDOWS (>1200 MM) WITH 3-LAYER GLASS AND NO REQUIREMENTS FOR EGRESS OPENINGS THE USE OF IPA NO. 62989 IS RECOMMENDED, AS THE VENTILATION POSITION OTHERWISE MAY BE DIFFICULT TO ACHIEVE BECAUSE OF THE OPENING GEOMETRY OF THE GEARS.

IPA NO.	62986	62987	62989
MAX. SASH WEIGHT KG	40	50	70
MAX. INSIDE FRAME HEIGHT MM	844	1344	1544
USE SCREW NO.	4.0	4.0	4.0

**ESPECIALLY FOR IPA NO. 62987 OG 62989:**  
THE SCREW IN THE TOP OF THE FRICTION ELEMENT IS ONLY TO ENSURE THAT THE GLIDING ELEMENT MOVES CORRECTLY IN THE ALUMINIUM RAIL. THEREFORE THIS SCREW MUST NOT BE ADJUSTED.

## FITTING:

- CLOSE THE FITTING AND PLACE IT IN THE GROOVE OF THE SIDE FRAME. PLACE THE FITTING AGAINST THE TOP FRAME. PLACE AND FASTEN THE SCREW IN THE BOTTOM HOLE OF THE FITTING.
  - 62987: FASTEN THE STOP PLATE THROUGH THE UPPER SCREW HOLE IN THE STOP PLATE AND THROUGH THE UPPER SCREW HOLE IN THE ALURAIL. THIS ENABLES MAX. FIRE ESCAPE OPENING. USE LOWER SCREW HOLE IN STOP PLATE TO ACHIEVE A MAX. SASH LOAD OF 60 KGS. IF LOWER SCREW HOLE IS USED THE FIRE ESCAPE OPENING WILL BE REDUCED.
  - 62989: ALWAYS USE THE UPPER SCREW HOLE IN THE ALURAIL FOR FASTENING THE STOP PLATE. USE THE UPPER SCREW HOLE IN STOP PLATE FOR MAX. FIRE ESCAPE OPENING. USE THE MIDDLE SCREW HOLE IN THE STOP PLATE TO ACHIEVE A MAX. SASH LOAD OF 85 KGS. USE THE LOWER SCREW HOLE IN THE STOP PLATE TO ACHIEVE A MAX. SASH LOAD OF 100 KGS. IF MIDDLE OR LOWER SCREW HOLES IN STOP PLATE ARE USED THE FIRE ESCAPE OPENING WILL BE REDUCED.
- PUSH THE SASH INTO ITS PLACE BY INSERTING IT BETWEEN THE HINGE ARMS, GUIDED BY THE GROOVES IN THE SASH, UNTILL THE SASH HITS THE STOPS OF THE FITTING. THESE STOPS WILL GUARANTEE A 5 MM GAB BETWEEN FRAME AND SASH. FASTEN THE FITTING STARTING WITH THE SCREW IN THE STOP BRACKET.
- NOW THE FRICTION MAY BE ADJUSTED BY MEANS OF THE SCREWS IN THE SLIDES. THE BEST RESULT FOR THE WINDOW MOVEMENT IS ACHIEVED BY EQUAL FRICTION AT EITHER SIDE.
- THE SASH CAN BE ADJUSTED  $\pm 1.5$  MM UP OR DOWN. ADJUST BY USING A TORX-20 KEY TO TURN THE ECCENTRIC SCREW. BY DELIVERY THE MARK ON THE ECCENTRIC SCREW IS IN A VERTICAL POSITION INDICATING THE 0-POSITION. WHEN THE MARK IS IN HORIZONTAL POSITION IN EITHER TOP OR BOTTOM, THE FITTING IS ADJUSTED TO IT'S MAX OF  $\pm 1.5$  MM.

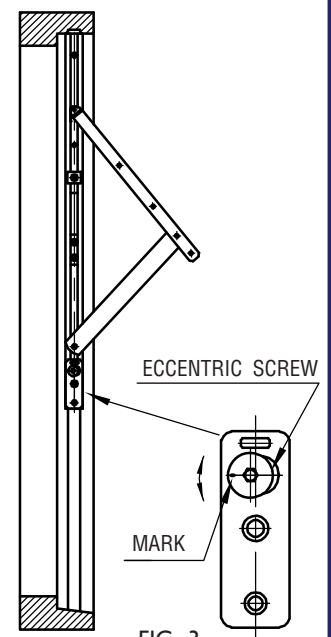


FIG. 3

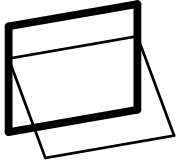
## MAINTENANCE:

THE FITTINGS ARE NOT TO BE PAINTED. TEST THE OPERATION FROM TIME TO TIME. WHEN FITTING - LUBRICATE THE PIVOT/MOVABLE METAL PARTS OF THE MECHANISM WHILE ACTIVATING REPEATEDLY. HEREAFTER LUBRICATE MINIMUM TWICE A YEAR. DO NOT LUBRICATE THE ALUMINIUM RAILS. SEE ALSO INSTRUCTIONS ON PAGE 37 - 38

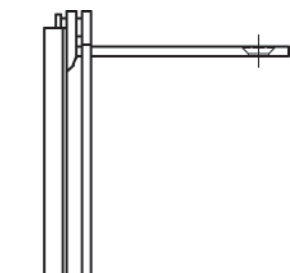




# ADJUSTABLE CANOPY STAY WITH ADJUSTABLE FRICTION IPA NO. 62988



1/2 SÆT



ORDERING NO.								
IPA NO.	MATERIAL	W/O SPECIFICATION	SURFACE	STANDARD PACKING IN BOXES OF 5 SETS.	A MM	B MM	SCREW	APPROX. WEIGHT KGS / SET
	STEEL		ELECTROPLATED					
62988	1	0	21	1	19	537	4.0	0,82

- VERTICALLY ADJUSTABLE ± 1.5 MM
- ADJUSTABLE FRICTION
- CONCEALED FITTINGS
- ANODIZED ALUMINIUM RAILS

FIRE-ESCAPE OPENING:  
PLEASE SEE [WWW.IPAFITTINGS.COM/RESCUE](http://WWW.IPAFITTINGS.COM/RESCUE)



# IPA NO. 62988 FITTING INSTRUCTIONS

EXAMPLE WOOD PROFILE:

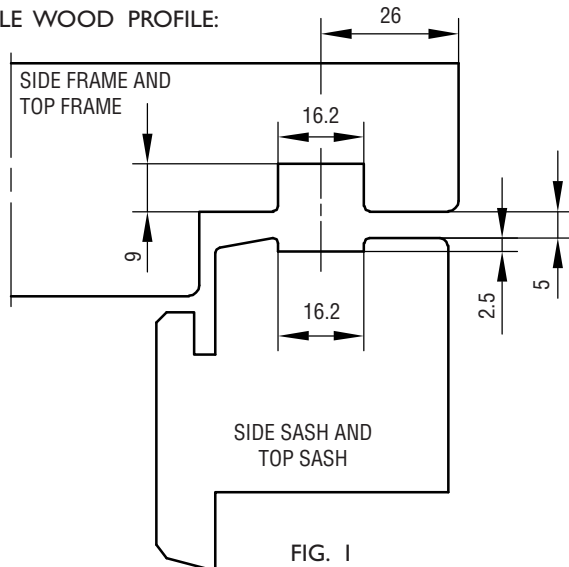


FIG. 1

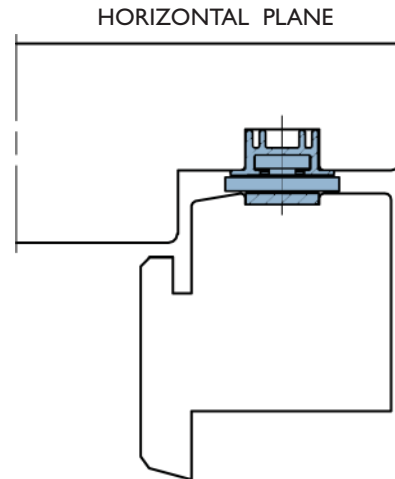


FIG. 2

IPA NO.	62988
MAX. SASH WEIGHT KG	50
MAX. INSIDE FRAME HEIGHT MM	1144
USE SCREW NO.	4.0

#### FITTING:

1. CLOSE THE FITTING AND PLACE IT IN THE GROOVE OF THE SIDE FRAME. PLACE THE FITTING AGAINST THE TOP FRAME. PLACE AND FASTEN THE SCREW IN THE BOTTOM HOLE OF THE FITTING. OPEN THE FITTING AND FASTEN THE REMAINING SCREWS.
2. PUSH THE SASH INTO ITS PLACE BY INSERTING IT BETWEEN THE HINGE ARMS, GUIDED BY THE GROOVES IN THE SASH, UNTILL THE SASH HITS THE STOPS OF THE FITTING. THESE STOPS WILL GUARANTEE A 5 MM GAB BETWEEN FRAME AND SASH. FASTEN THE FITTING STARTING WITH THE SCREW IN THE STOP BRACKET.
3. NOW THE FRICTION MAY BE ADJUSTED BY MEANS OF THE SCREWS IN THE SLIDES. WHEN ADJUSTING LET THE TOP GLIDER MOVE DOWN TO THE STOP. THE BEST RESULT FOR THE WINDOW MOVEMENT IS ACHIEVED BY EQUAL FRICTION IN EITHER SIDE.
4. THE SASH CAN BE ADJUSTED  $\pm 1.5$  MM UP OR DOWN. ADJUST BY USING A TORX-20 KEY TO TURN THE ECCENTRIC SCREW. BY DELIVERY THE MARK ON THE ECCENTRIC SCREW IS IN A VERTICAL POSITION INDICATING THE 0-POSITION. WHEN THE MARK IS IN HORIZONTAL POSITION IN EITHER TOP OR BOTTOM, THE FITTING IS ADJUSTED TO IT'S MAX OF  $\pm 1.5$  MM.

#### MAINTENANCE:

THE FITTINGS ARE NOT TO BE PAINTED. TEST THE OPERATION FROM TIME TO TIME. WHEN FITTING - LUBRICATE THE PIVOT/MOVABLE METAL PARTS OF THE MECHANISM WHILE ACTIVATING REPEATEDLY. HEREAFTER LUBRICATE MINIMUM TWICE A YEAR. DO NOT LUBRICATE THE ALUMINIUM RAILS. SEE ALSO INSTRUCTIONS ON PAGE 37 - 38.

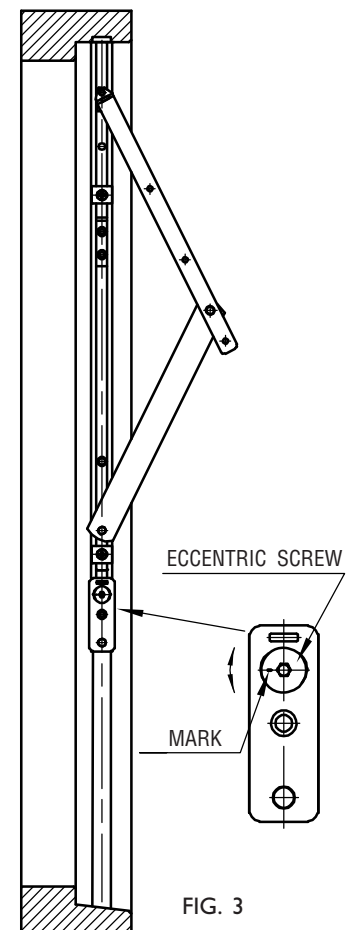
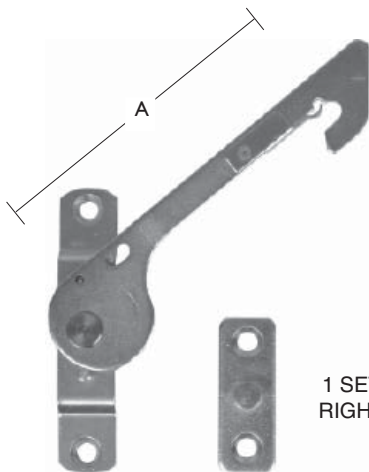
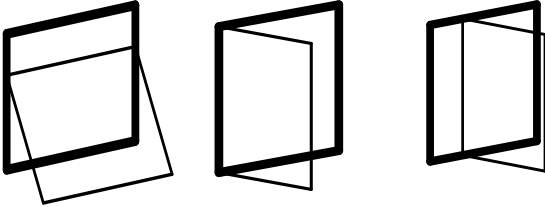


FIG. 3



# SAFETY CATCH

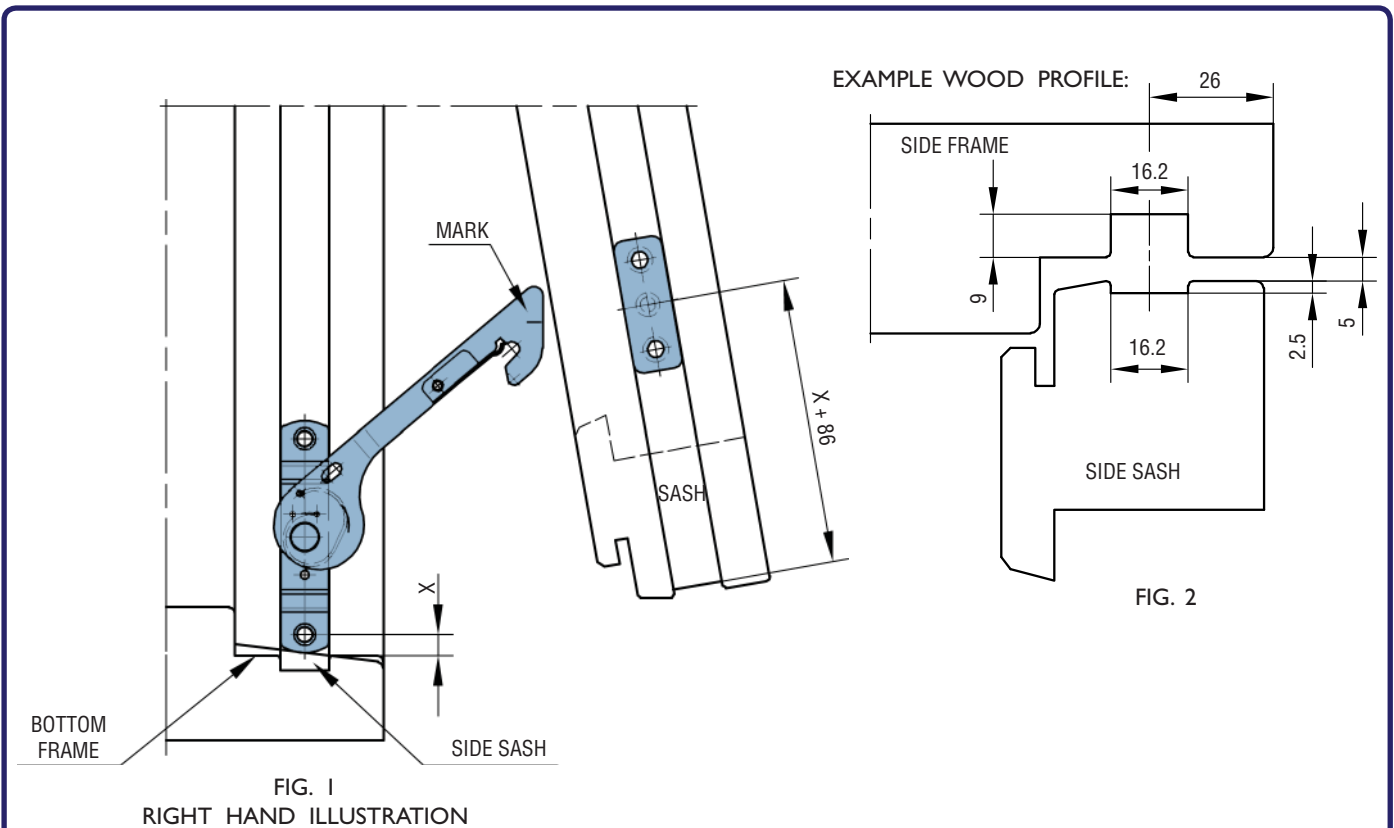
IPA NO. 62936



ORDERING NO.								
IPA NO.	MATERIAL			SURFACE	STANDARD PACKING IN BOXES OF 5 SETS	A MM	SCREW	APPROX. WEIGHT KG / SET
	STEEL	LEFT	RIGHT	ELECTROPLATED				
<b>62936</b>	<b>1</b>	<b>7</b>	<b>8</b>	<b>21</b>	<b>1</b>	92	4.0	0.06



# IPA NO. 62936 FITTING INSTRUCTIONS



THE FITTING CAN BE USED ON BOTH TOPHUNG/TOPGUIDED AS WELL AS SIDEHUNG/SIDEGUIDED WINDOWS. ON TOPHUNG/TOPGUIDED WINDOWS THE RESTRICTOR IS PLACED IN THE BOTTOM OF THE SIDE FRAME AND THE RECEIVER IS PLACED IN THE BOTTOM OF THE SIDE SASH. ON THE SIDEHUNG/SIDEGUIDED WINDOWS THE RESTRICTOR IS PLACED IN TOP FRAME ON THE OPPOSITE SIDE OF THE HINGES AND THE RECEIVER IS PLACED IN THE TOP SASH OPPOSITE THE HINGES.

X-DIMENSION IS OPTIONAL. ON TOPHUNG/TOPGUIDED WINDOWS X MUST MINIMUM BE 7 MM. BY USING LARGER X-DIMENSION THE VENTILATION OPENING WILL BE EXTENDED.

**IMPORTANT:** THE RECEIVER MUST BE MOUNTED SO THAT IT HITS THE MARK ON THE RESTRICTOR ARM WHEN THE WINDOW IS CLOSED. SEE FIG. 1

#### OPERATING INSTRUCTIONS:

1. OPEN THE WINDOW UNTIL THE RESTRICTOR ENGAGES.
2. PULL THE SASH APPROXIMATELY 20 MM BACKWARDS.
3. PRESS THE RESTRICTOR OUTWARDS AS YOU OPEN THE WINDOW.
4. WHEN THE WINDOW IS CLOSED THE RESTRICTOR RE-ENGAGES AUTOMATICALLY.

USE SCREW NO. 4.0

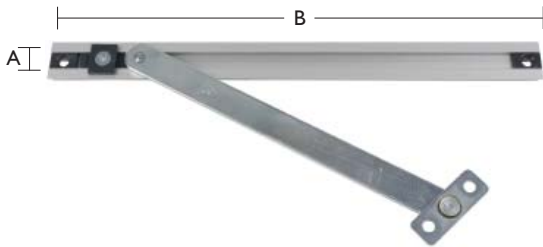
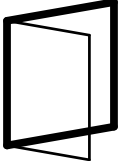
#### MAINTENANCE:

THE FITTINGS ARE NOT TO BE PAINTED. TEST THE OPERATION FROM TIME TO TIME. WHEN FITTING - LUBRICATE THE PIVOT/MOVABLE METAL PARTS OF THE MECHANISM WHILE ACTIVATING REPEATEDLY. HEREAFTER LUBRICATE MINIMUM TWICE A YEAR. DO NOT LUBRICATE THE ALUMINIUM RAILS. SEE ALSO INSTRUCTIONS ON PAGE 37 - 38.



# FRICITION STAY for windows

## IPA NO. 62927



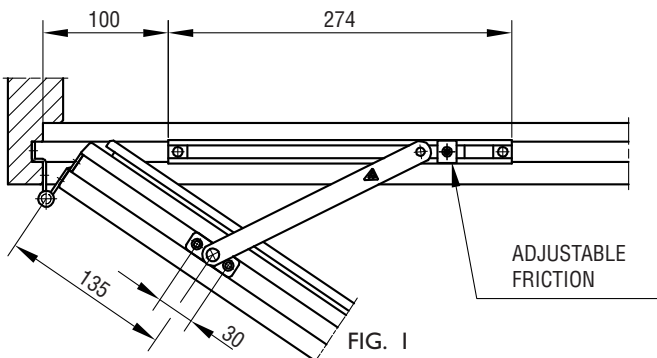
ORDERING NO.					A MM	B MM	MATERIAL MM	SCREW	APPROX.WEIGHT KG / PC.
IPA NO.	MATERIAL	SURFACE		STANDARD PACKING IN BOXES OF 25 PCS.					
	STEEL	W/O SPECIFICATION	ELECTROPLATED						
<b>62927</b>	<b>1</b>	<b>0</b>	<b>21</b>	<b>1</b>	23	274	17X3	4,0	0,16

- CONCEALED FITTING
- OPENS UP TILL 100°
- FRICTION IN ALL POSITIONS
- ADJUSTABLE FRICTION
- ANODIZED ALUMINIUM RAIL

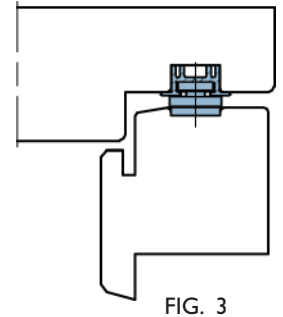
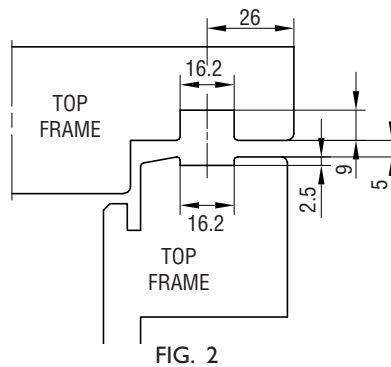


# IPA NO. 62927

## FITTING INSTRUCTIONS



EXAMPLE WOOD PROFILE:



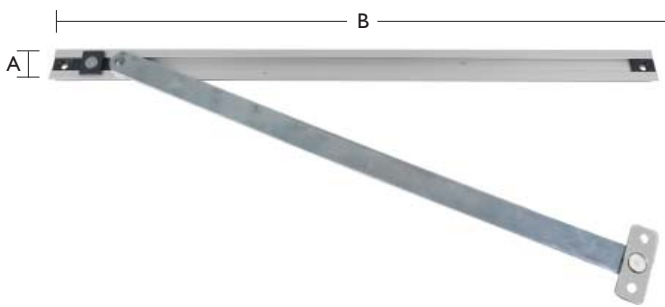
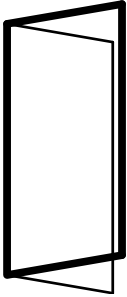
**MAINTENANCE:**

THE FITTING ARE NOT TO BE PAINTED. TEST THE OPERATION FROM TIME TO TIME. WHEN MOUNTING - LUBRICATE THE PIVOT/MOVABLE METAL PARTS OF THE MECHANISM WHILE ACTIVATING REPEATEDLY. HERAFTER LUBRICATE MINIMUM TWICE A YEAR. DO NOT LUBRICATE THE ALUMINIUM RAIL. SEE ALSO INSTRUCTIONS ON PAGE PAGE 37 - 38.



# FRICITION STAY for doors

IPA NO. 63911



ORDERING NO.									
IPA NO.	MATERIAL	SURFACE			A MM	B MM	MATERIAL MM	SCREW	APPROX. WEIGHT KG / PCS.
	STEEL	W/O SPECIFICATIONS	ELECTROPLATED	STANDARD PACKING IN BOXES OF 10 PCS.					
63911	1	0	21	1	19	414	17X3	4,0	0,24

- CONCEALED FITTING
- OPENS UP TILL 100°
- FRICTION IN ALL POSITIONS
- ADJUSTABLE FRICTION
- ANODIZED ALUMINIUM RAIL



IPA NO. 63911

# FITTING INSTRUCTIONS

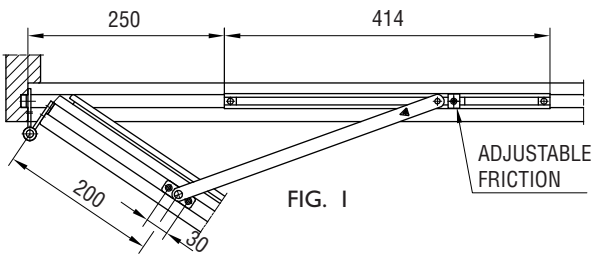


FIG. 1

EXAMPLE WOOD PROFILE:

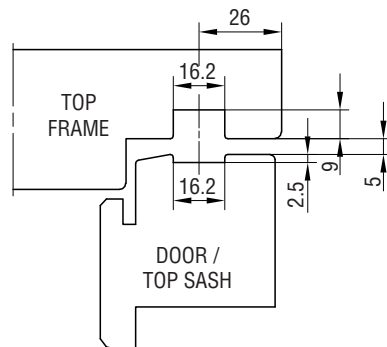


FIG. 2

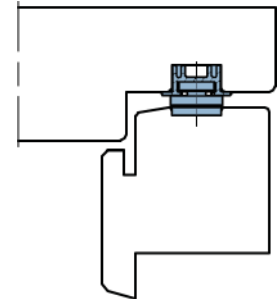


FIG. 3

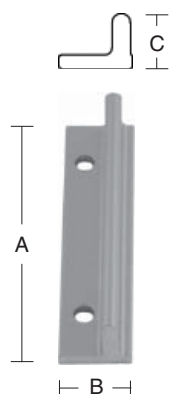
**MAINTENANCE:**

THE FITTING ARE NOT TO BE PAINTED. TEST THE OPERATION FROM TIME TO TIME. WHEN MOUNTING - LUBRICATE THE PIVOT/MOVABLE METAL PARTS OF THE MECHANISM WHILE ACTIVATING REPEATEDLY. HERAFTER LUBRICATE MINIMUM TWICE A YEAR. DO NOT LUBRICATE THE ALUMINIUM RAIL. SEE ALSO INSTRUCTIONS ON PAGE 37 - 38.



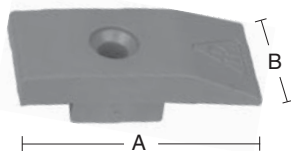
# ACCESSORIES

## SUPPORT FITTING AND GUIDE BLOCK

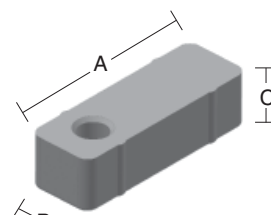


SUPPORT FITTING  
IPA NO. 62222

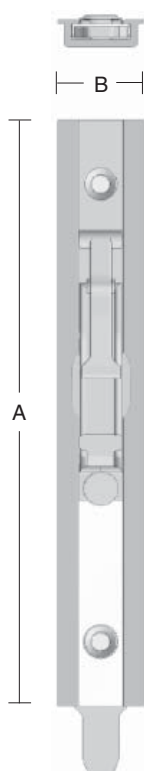
ORDERING NR.												A MM	B MM	C MM	SCREW HOLES MM	SCREW	APPROX. WEIGHT KG / PIECES
IPA NO.	MATERIAL		W/O SPECIFICATION	SURFACE				STANDARD PACKING IN BOXES OF 20 PIECES	STANDARD PACKING IN BOXES OF 25 PIECES	INDUSTRY PACKING IN BOXES OF 100 PIECES	INDUSTRY PACKING IN BOXES OF 500 PIECES						
	ALUMINIUM	PLASTIC		ANODIZED	GREY	WHITE	BLACK										
62222	0	-	0	00	-	-	-	-	1	-	-	70	16	12	5	-	0,05
63230	-	9	0	-	54	-	-	1	-	-	-	42	20	10	-	4,0	0,04
	-	9	0	-	-	-	58	-	-	2	-						
62933	-	9	0	-	-	56	-	-	-	-	2	35	12,5	9	-	4,0	0,01



GUIDE BLOCK  
IPA NO. 63230



SCREW SUPPORT  
IPA NO. 62933



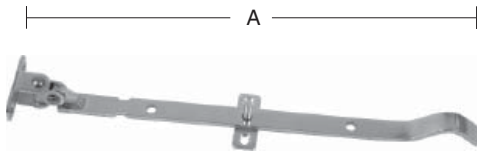
IPA NO.s 63508-09

## FLUSH BOLT

BESTILLINGSNR.					A MM	B MM	THICKNESS MM	BOLT MM	LENGTH BOLT MM	SCREW	APPROX. WEIGHT KG / PIECES
IPA NO.	MATERIAL	SURFACE	STANDARD PACKING IN BOXES OF 20 PIECES	STEEL							
	SQUARE EDGES				ELECTROPLATED						
63508	1	5	21	1	128	19	6	8,5 X 2,5	15	3,5	0,04
63509	1	5	21	1	128	19	6	8,5 X 2,5	20	3,5	0,04



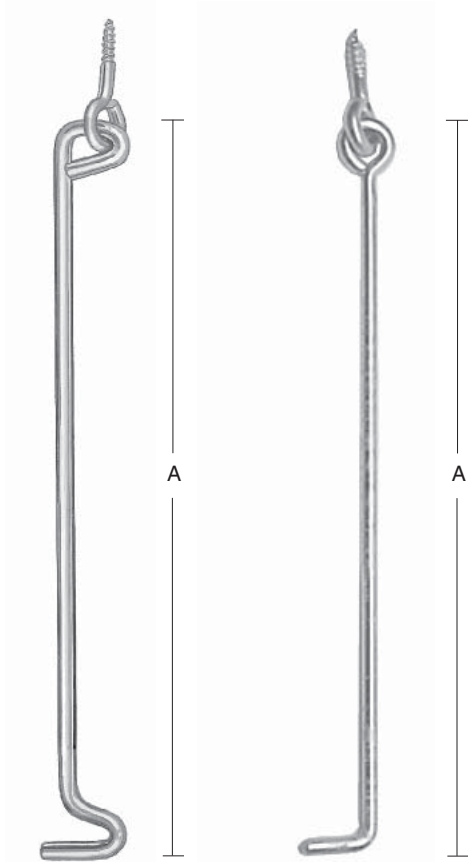
# ACCESSORIES



IPA NO.s 21311-13

## CASEMENT STAYS

ORDERING NO.											
IPA NO.	MATERIAL	WITHOUT SPECIFICATION	SURFACE				STANDARD PACKING IN BOXES OF 10 PCS.	A MM	MATERIAL MM	SCREW	APPROX. WEIGHT KG / PIECES
	STEEL		ELECTROPL. / WHITE	ELECTROPLATED	ELECTROPL. YELLOW						
<b>21311</b>	<b>1</b>	<b>0</b>	<b>06</b>	<b>21</b>	<b>25</b>	<b>1</b>	220	15 X 4	4,0	0,17	
<b>21313</b>	<b>1</b>	<b>0</b>	<b>06</b>	<b>21</b>	<b>25</b>	<b>1</b>	310	15 X 4	4,0	0,21	



IPA NO.s 21343-55

IPA NO. 21357

## CASEMENT HOOKS

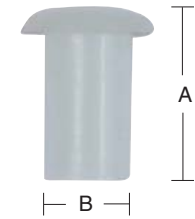
BESTILLINGSNR.											
IPA NO.	MATERIAL	WITHOUT SPECIFICATION	SURFACE				STANDARD PACKING IN BOXES OF 25 PIECES.	SINGLE PIECES	A MM	THICKNESS MM	APPROX. WEIGHT KG / 100 PIECES
	STEEL		ELECTROPL. / WHITE	ELECTROPLATED	ELECTROPL. YELLOW	GALVANIZED					
<b>21343</b>	<b>1</b>	<b>0</b>	<b>06</b>	-	<b>25</b>	<b>87</b>	<b>1</b>	-	105	6	5,0
<b>21345</b>	<b>1</b>	<b>0</b>	<b>06</b>	<b>21</b>	<b>25</b>	<b>87</b>	<b>1</b>	-	155	6	6,4
<b>21347</b>	<b>1</b>	<b>0</b>	<b>06</b>	<b>21</b>	<b>25</b>	<b>87</b>	<b>1</b>	-	210	6	7,5
<b>21349</b>	<b>1</b>	<b>0</b>	<b>06</b>	-	<b>25</b>	<b>87</b>	<b>1</b>	-	260	6	8,8
<b>21351</b>	<b>1</b>	<b>0</b>	<b>06</b>	-	<b>25</b>	<b>87</b>	<b>1</b>	-	310	6	10,0
<b>21353</b>	<b>1</b>	<b>0</b>	<b>06</b>	-	<b>25</b>	<b>87</b>	<b>1</b>	-	390	6	11,8
<b>21355</b>	<b>1</b>	<b>0</b>	<b>06</b>	-	-	<b>87</b>	<b>1</b>	-	470	6	13,5
<b>21357</b>	<b>1</b>	<b>0</b>	-	-	-	<b>87</b>	-	<b>3</b>	625	8	36,6





# ACCESSORIES

## HOOK HOLDERS



IPA NO. 21359



IPA NO. 21360

ORDERING NO.											
IPA NO.	MATERIAL		WITHOUT SPECIFICATION	SURFACE		STANDARD PACKING IN BOXES OF 25 PIECES	STANDARD PACKING IN BOXES OF 100 PIECES	A MM	B MM	SCREW	APPROX. WEIGHT KG / 100 PIECES
	PLASTIC			GREY	WHITE						
<b>21359</b>	<b>9</b>	<b>0</b>	-	<b>56</b>	-	<b>1</b>		18,5	9,5	-	0,10
<b>21360</b>	<b>9</b>	<b>0</b>	<b>54</b>	<b>56</b>	<b>1</b>	-		19	12	3,5	0,19

## HOOK CATCHES AND NAILS



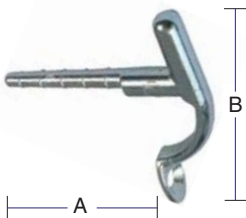
IPA NO.s 21361-63



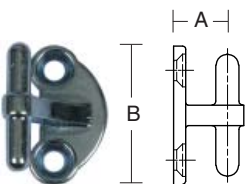
IPA NO. 21369

ORDERING NO.														
IPA NO.	MATERIAL		WITHOUT SPECIFICATION	SURFACE				STANDARD PACKING IN BOXES OF 25 PIECES	STANDARD PACKING IN BOXES OF 100 PIECES	STANDAR DPACKING IN BOXES OF 1 KG	A MM	HOLE MM	THICKNESS MM	APPROX. WEIGHT KG / PIECES
	STEEL			ELECTROPL. / WHITE	ELECTROPLATED	ELECTROPL. YELLOW	GALVANIZED							
<b>21361</b>	<b>1</b>	<b>0</b>	-	<b>21</b>	<b>25</b>	-	-	<b>1</b>	-		25	8	4,0	0,6
<b>21363</b>	<b>1</b>	<b>0</b>	<b>06</b>	<b>21</b>	<b>25</b>	<b>87</b>	<b>1</b>	-	-		25	8	4,7	0,8
<b>21369</b>	<b>1</b>	<b>0</b>	<b>06</b>	<b>21</b>	<b>25</b>	-	-	-	<b>1</b>		25	-	2,5	0,1

## HOOK CATCHES



IPA NO. 21381



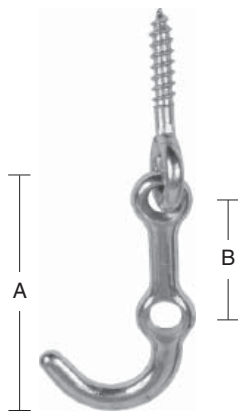
IPA NO. 21382

ORDERING NO.																		
IPA NR.	MATERIAL			WITHOUT SPECIFICATION	SURFACE				STANDARD PACKING IN BOXES OF 50 PIECES	STANDARD PACKING IN BOXES OF 100 PIECES	INDUSTRY PACKING IN BOXES OF 100 PIECES	INDUSTRY PACKING IN BOXES OF 250 PIECES	A MM	B MM	PIN MM	HOLE MM	SCREW	APPROX. WEIGHT KG / 100 PIECES
	STEEL	BRASS	ZINC		ELECTROPL. / WHITE	ELECTROPLATED	ELECTROPL. YELLOW	POLISHED										
<b>21381</b>	<b>1</b>	-	-	<b>0</b>	<b>06</b>	<b>21</b>	<b>25</b>	-	-	<b>1</b>	-	<b>2</b>	28	47	5,5	3,5	-	0,75
	-	<b>6</b>	-	<b>0</b>	-	-	-	<b>85</b>	<b>1</b>	-	<b>2</b>	-						
	-	-	<b>0</b>	<b>0</b>	<b>06</b>	<b>21</b>	<b>25</b>	-	-	-	-	<b>2</b>	26	47	5,8	-	3,0	0,96
<b>21382</b>	<b>1</b>	-	-	<b>0</b>	<b>06</b>	-	-	-	<b>1</b>	-	-	-	13,3	34	5,6	-	3,5	1,4
	<b>1</b>	-	-	<b>0</b>	-	<b>21</b>	<b>25</b>	-	<b>1</b>	-	-	<b>2</b>						



# CASEMENT HOOK

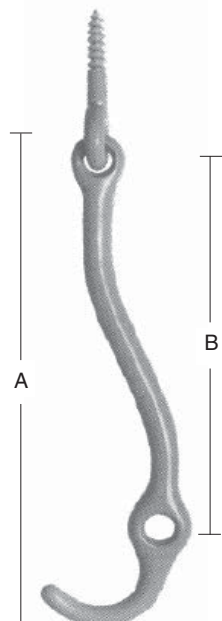
## IPA NO.s 21370 - 79



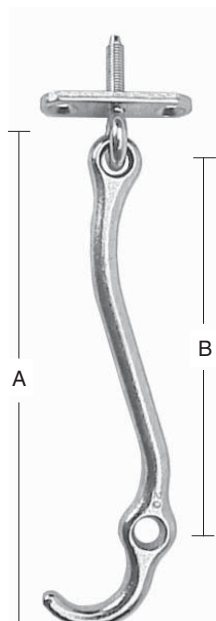
IPA NO. 21376

ORDERING NO.																
IPA NO.	MATERIAL			WITHOUT SPECIFICATION	SURFACE				STANDARD PACKING IN BOXES OF 50 PIECES	STANDARD PACKING IN BOXES OF 100 PIECES	INDUSTRY PACKING IN BOXES OF 100 PIECES	INDUSTRY PACKING IN BOXES OF 250 PIECES	A MM	B MM	HOLE FOR PIN MM	APPROX. WEIGHT KG / 100 PIECES
	ZINK ALLOY	STEEL	BRASS		ELECTROPL. / WHITE	ELECTROPLATED	ELECTROPL. YELLOW	POLISHED								
<b>21370</b>	<b>0</b>	<b>-</b>	<b>-</b>	<b>0</b>	<b>06</b>	<b>21</b>	<b>25</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>	130	95	6	5,0	
<b>21371</b>	<b>0</b>	<b>-</b>	<b>-</b>	<b>0</b>	<b>06</b>	<b>21</b>	<b>25</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>	130	95	6	6,0	
<b>21372</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>0</b>	<b>06</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	130	95	6	5,0	
	<b>-</b>	<b>1</b>	<b>-</b>	<b>0</b>	<b>-</b>	<b>21</b>	<b>25</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>2</b>					
	<b>-</b>	<b>-</b>	<b>6</b>	<b>0</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>85</b>	<b>1</b>	<b>-</b>	<b>2</b>					
<b>21373</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>0</b>	<b>06</b>	<b>21</b>	<b>25</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>2</b>	170	140	6	6,0	
<b>21376</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>0</b>	<b>06</b>	<b>21</b>	<b>25</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	54	27	6	1,3	
	<b>-</b>	<b>1</b>	<b>-</b>	<b>0</b>	<b>-</b>	<b>21</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>					
<b>21378</b>	<b>0</b>	<b>-</b>	<b>-</b>	<b>0</b>	<b>-</b>	<b>-</b>	<b>25</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	120	93	6	4,8	
	<b>0</b>	<b>-</b>	<b>-</b>	<b>0</b>	<b>06</b>	<b>21</b>	<b>25</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>					
<b>21379</b>	<b>0</b>	<b>-</b>	<b>-</b>	<b>0</b>	<b>-</b>	<b>21</b>	<b>25</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	120	93	6	5,6	
	<b>0</b>	<b>-</b>	<b>-</b>	<b>0</b>	<b>06</b>	<b>21</b>	<b>25</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>					

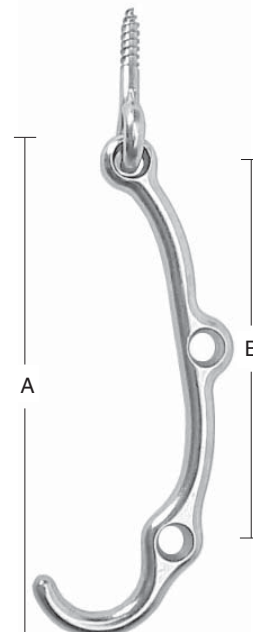
ATTENTION: IPA NO. 21378 + 79 IN POWDER PAINTED VERSIONS CAN ONLY BE USED TOGETHER WITH IPA NO. 21382.



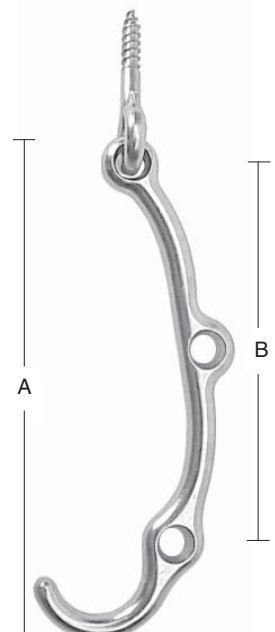
IPA NO.s 21370 + 21372-73



IPA NO. 21371



IPA NO. 21378



IPA NO. 21379



# IPA NO.s 21370 - 73 & 21378 - 79 & 21381-82 FITTINGS INSTRUCTIONS

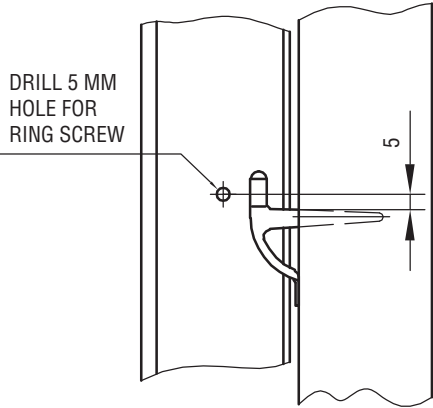


FIG. 1  
IPA NO. 21381  
FOR HOOK-CATCHES Ø3-Ø3,2 MM  
PRE-DRILLING IS RECOMMENDED

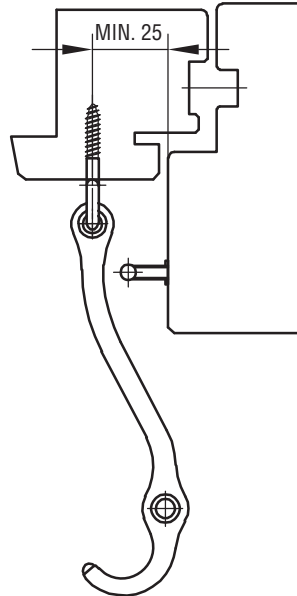


FIG. 2  
IPA NO. 21372 WITH 21381

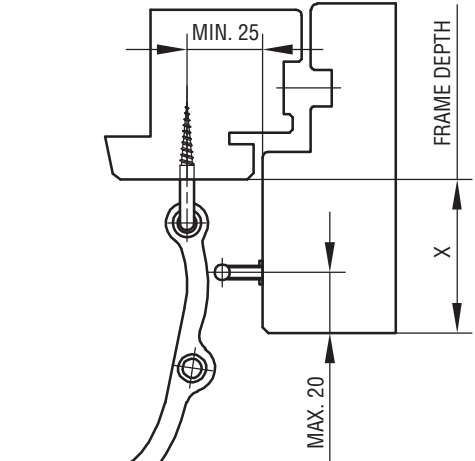


FIG. 3  
IPA NO. 21378 WITH 21381

THE MENTIONED MAX. AND MIN. DIMENSIONS APPLY FOR A FRAME DEPTH (X ON THE DRAWING) OF AS MUCH AS 50 MM. IF X IS BIGGER THAN 50 MM, WE RECOMMEND USING IPA NO. 21372

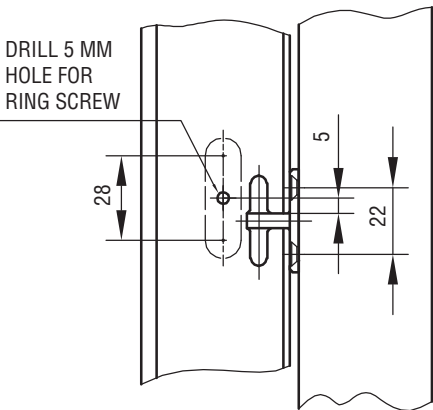


FIG. 4  
IPA NO. 21382

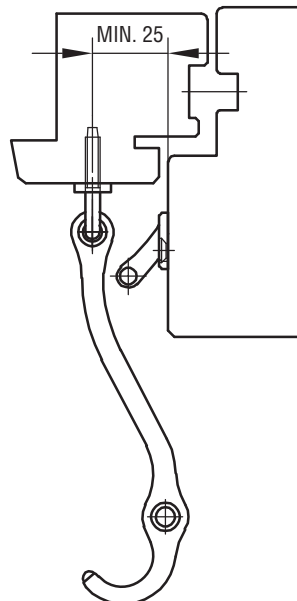


FIG. 5  
IPA NO. 21371 WITH 21382

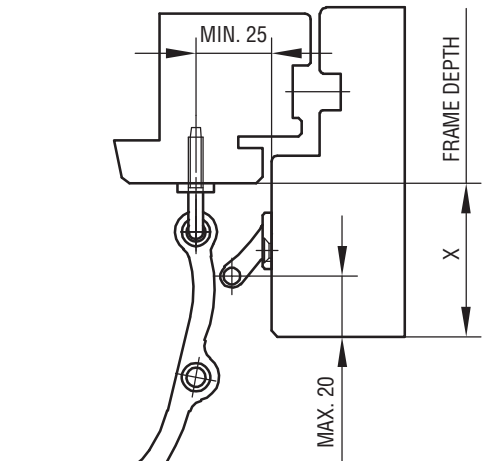


FIG. 3  
IPA NO. 21379 WITH 21382

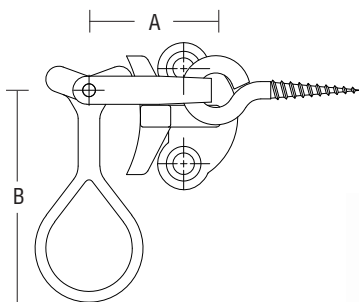
THE MENTIONED MAX. AND MIN. DIMENSIONS APPLY FOR A FRAME DEPTH (X ON THE DRAWING) OF AS MUCH AS 50 MM. IF X IS BIGGER THAN 50 MM, WE RECOMMEND USING IPA NO. 21371



# CASEMENT FASTENERS

## IPA NO.s 21383 - 96 & 21593-94

IPA NO.	ORDERING NO.													A MM	B MM	SCREW	EYE SCREW	APPROX. WEIGHT KG / 100 PICES
	MATERIAL		WITHOUT SPECIFICATION	SURFACE					STANDARD PACKING IN BOXES OF 25 PICES	STANDARD PACKING IN BOXES OF 50 PICES	INDUSTRY PACKING IN BOXES OF 200 PICES	INDUSTRY PACKING IN BOXES OF 500 PICES						
	STEEL	BRASS		ELECTROPL. / WHITE	PHOSPH. BROWN	ELECTROPLATED	ELECTROPL. YELLOW	POLISHED										
21383	1	-	0	-	-	21	25	-	-	-	-	2	24	50	3,5	M5 X 20	4,0	
21385	1	-	0	06	-	21	-	-	-	1	-	-	28	50	3,5	-	4,0	
	1	-	0	-	-	-	25	-	-	1	-	2						
21386	1	-	0	06	-	21	25	-	-	1	-	2	28	50	3,5	M5 X 15	5,0	
21388	1	-	0	06	-	-	-	-	-	1	-	-	21	50	3,5	-	4,0	
	1	-	0	-	-	21	25	-	-	1	-	2						
21389	1	-	0	06	-	-	25	-	-	1	-	-	24	50	3,5	-	4,6	
	1	-	0	-	-	21	-	-	-	1	-	2						
21390	1	-	0	-	-	21	25	-	-	-	-	2	24	50	3,5	-	3,8	
21391	1	-	0	-	12	-	-	-	-	1	-	-	28	50	3,5	-	4,0	
	1	-	0	06	-	21	25	-	-	1	-	2						
21392	1	-	0	-	-	21	25	-	1	-	-	-	28	50	3,5	-	4,4	
21393	1	-	0	-	12	-	-	-	-	1	-	-	28	50	3,5	M5 X 20	4,4	
	1	-	0	06	-	21	25	-	-	1	-	2						
21394	1	-	0	-	-	21	25	-	1	-	-	-	28	50	3,5	M5 X 20	5,0	
21396	1	-	0	06	-	21	25	-	-	-	-	2	24	50	3,5	M5 X 20	5,0	
21593	1	-	0	06	-	21	25	-	-	-	-	2	28	50	3,5	M5 X 20	4,4	
21594	1	-	0	-	-	21	25	-	1	-	-	-	24	50	3,5	M5 X 20	5,0	



IPA no.s 21383-86



IPA nO. 21385



IPA no. 21388



IPA no. 21389



IPA no.s 21390-91



IPA no. 21392



IPA no.s 21393+96+21593



IPA no.s 21394+21594



# IPA NO.s 21383 - 96 & 21593-94 FITTINGS INSTRUCTIONS

CASEMENT HOOK  
WITH EYE SCREW

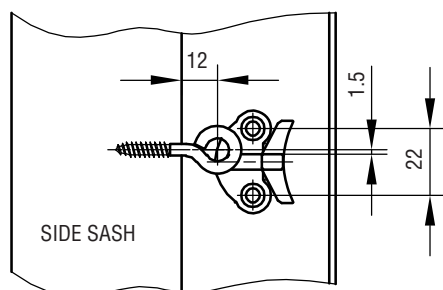
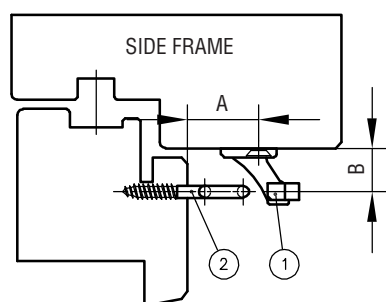
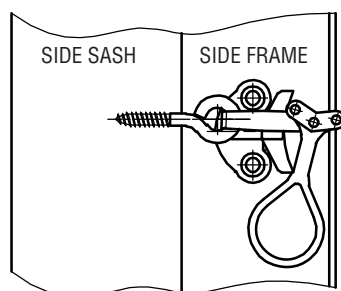


FIG. 1  
IPA NO.s 21385 + 21388-92

CASEMENT HOOK  
WITH SCREW PLATE

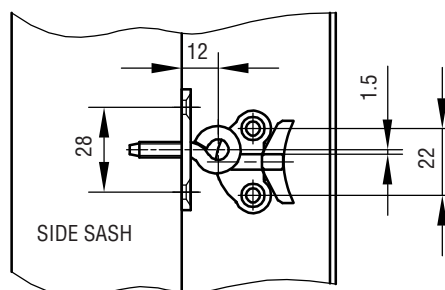
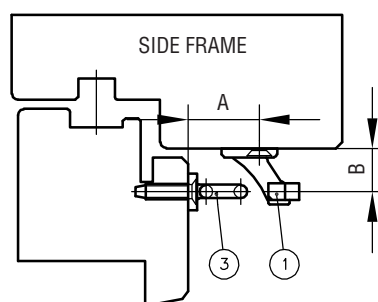
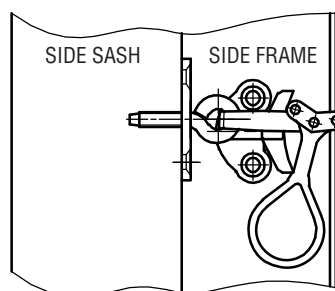


FIG. 2  
IPA NO.s 21383 + 21386 +  
21393-96 + 21593-94

IPA NO.	21385 21391 - 92	21388	21389	21390	21383 + 96	21386 21393 - 94	21593 - 94
A MM	24	19	11	20	23	27	27
B MM	14	14	15	14	14	14	19

## MONTERING:

1. MOUNT THE RECEIVER (1), ON SIDE FRAME IN THE WANTED HEIGHT.

2. IPA NR. 21385 + 21388-92: MEASURE PRECISELY ON THE SIDE SASH FOR THE CASEMENT HOOK WITH EYE SCREW (2).  
PRE-DRILL A HOLE FOR THE EYE SCREW. FASTEN THE CASEMENT HOOK WITH EYE SCREW.

IPA NR. 21383 + 21386 +  
21393-96 + 21593-94: MEASURE PRECISELY ON THE SIDE SASH FOR THE CASEMENT HOOK WITH SCREW PLATE (3).  
PRE-DRILL A 5.0 MM HOLE FOR THE THREADED SCREW AND PRE-DRILL THE HOLES FOR THE EYE SCREWS. MARK UP FOR THE 2 SCREW HOLES ON THE SASH AND PRE-DRILL THE HOLES. FASTEN THE CASEMENT HOOK WITH SCREW PLATE.



# HANDLES & RECEIVERS FOR WINDOW ESPAGNOLETTES



**23228-29+33-34**

RIGHT

## HANDLES

ORDERING NO.												
IPA NO.	MATERIAL		LEFT	RIGHT	SURFACE		STANDARDPACKING IN BOXES OF 10 PCS.	PIN MM	DISTANCE BETWEEN SCREWHOLES MM	LENGTH OF PIN MM	HOLES FOR SCREWS MM	WEIGHT APPROX. KGS / EACH.
	ALLOY				DULL CROME	CROME						
<b>23228</b>	<b>0</b>		<b>7</b>	<b>8</b>	<b>80</b>	-	<b>1</b>	8	42	43	5	0,15
<b>23229</b>	<b>0</b>		<b>7</b>	<b>8</b>	-	<b>81</b>	<b>1</b>	8	42	43	5	0,15
<b>23233</b>	<b>0</b>		<b>7</b>	<b>8</b>	<b>80</b>	-	<b>1</b>	7	42	43	5	0,15
<b>23234</b>	<b>0</b>		<b>7</b>	<b>8</b>	-	<b>81</b>	<b>1</b>	7	42	43	5	0,15



**23238**

## SAFETY LOCK

ORDERING NO.						
IPA NO.	MATERIAL		SURFACE		STANDARDPACKING IN BOXES OF 5 PCS.	HOLE MM
	STEEL	W/O SPECIFICATION	DULL CROME	CROME		
<b>23238</b>	<b>1</b>	<b>0</b>	<b>80</b>	<b>81</b>	<b>1</b>	8 X 8

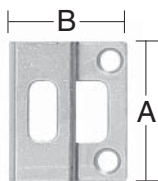
FOR HANDLES 23228-29+33-34

## RECEIVERS

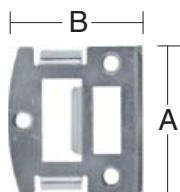
ORDERING NO.														
IPA NO.	MATERIAL			SURFACE		STANDARD PACKING IN BOXES OF 20 PIECES	STANDARD PACKING IN BOXES OF 25 PIECES	INDUSTRY PACKING IN BOXES OF 100 PIECES	A MM	B MM	C MM	MATERIAL MM	SCREW	APPROX. WEIGHT KG/100 PCS.
	STEEL	STAINLESS STEEL	WITHOUT SPECIFICATION	ELECTROPLATED	UNMACHINED									
<b>23269</b>	<b>1</b>	-	<b>0</b>	<b>21</b>	-	<b>1</b>	-	<b>2</b>	46	25	-	7,00	4,0	3,0
<b>23270</b>	-	<b>8</b>	<b>0</b>	-	<b>86</b>	<b>1</b>	-	-	46	38,5	18	1,75	4,0	2,6
<b>63252</b>	<b>1</b>	-	<b>0</b>	<b>21</b>	-	-	<b>1</b>	-	55	50	-	1,50	3,5	2,3



RECEIVER  
IPA NO. 23269



RECEIVER  
IPA NO. 23270



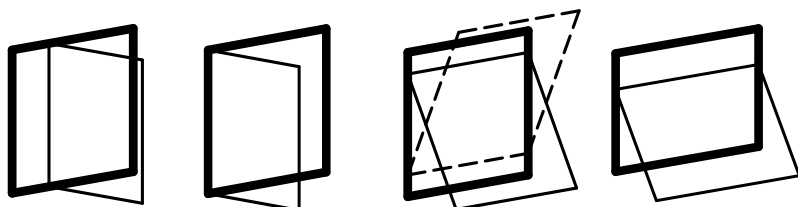
RECEIVER  
IPA NO. 63252



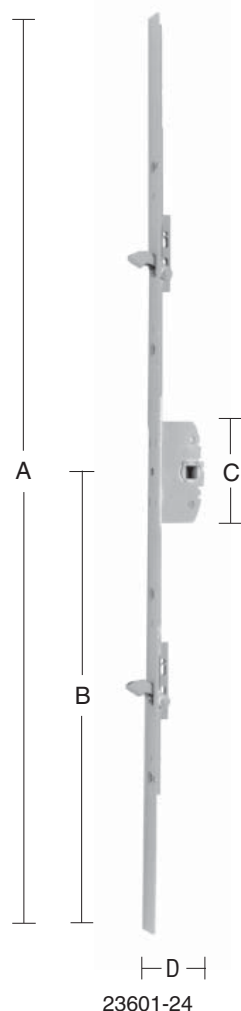
# ESPAGNOLETTES

## WITH SIDE BOLTS

### IPA NO.s 23601-09 & IPA NO.s 23615-24



12 MM SIDE BOLTS



ORDERING NO.															
IPA NO.	MATERIAL		SURFACE		STANDARD PACKING IN BOXES OF 10 PIECES	A MM	B MM	BACKSET MM	PIN MM	C MM	D MM	FACEPLATE MM	THICKNESS PLATE MM	SCREW	APPROX. WEIGHT KG / EACH
	STEEL	SQUARE EDGES	ELECTROPLATED												
23601	1	6	21	1	600	300	25	8	66	34	16	2,5	4,0	0,30	
23602	1	6	21	1	720	360	25	8	66	34	16	2,5	4,0	0,35	
23603	1	6	21	1	820	410	25	8	66	34	16	2,5	4,0	0,40	
23604	1	6	21	1	920	460	25	8	66	34	16	2,5	4,0	0,45	
23605	1	6	21	1	1020	510	25	8	66	34	16	2,5	4,0	0,50	
23606	1	6	21	1	1120	560	25	8	66	34	16	2,5	4,0	0,55	
23607	1	6	21	1	1220	610	25	8	66	34	16	2,5	4,0	0,60	
23608	1	6	21	1	1320	660	25	8	66	34	16	2,5	4,0	0,65	
23609	1	6	21	1	1420	710	25	8	66	34	16	2,5	4,0	0,70	
23615	1	6	21	1	600	300	28	8	66	37	16	2,5	4,0	0,30	
23616	1	6	21	1	720	360	28	8	66	37	16	2,5	4,0	0,35	
23617	1	6	21	1	820	410	28	8	66	37	16	2,5	4,0	0,40	
23618	1	6	21	1	920	460	28	8	66	37	16	2,5	4,0	0,45	
23619	1	6	21	1	1020	510	28	8	66	37	16	2,5	4,0	0,50	
23620	1	6	21	1	1120	560	28	8	66	37	16	2,5	4,0	0,55	
23621	1	6	21	1	1220	610	28	8	66	37	16	2,5	4,0	0,60	
23622	1	6	21	1	1320	660	28	8	66	37	16	2,5	4,0	0,65	
23623	1	6	21	1	1420	710	28	8	66	37	16	2,5	4,0	0,70	
23624	1	6	21	1	1400	700	28	8	66	37	16	2,5	4,0	0,69	

- CONSEALED FITTINGS
- IMPROVED SECURITY IN CLOSED POSITION
- USABLE FOR TOP HUNG WINDOWS ALSO



# IPA NO.s 23601-09 & 23615-24 FITTING INSTRUCTIONS

IPA NO.	L MM	A MM	B MM	D MM
23601 / 23615	600	300	140	12
23602 / 23616	720	360	140	12
23603 / 23617	820	410	190	12
23604 / 23618	920	460	240	12
23605 / 23619	1020	510	290	12
23606 / 23620	1120	560	340	12
23607 / 23621	1220	610	390	12
23608 / 23622	1320	660	440	12
23609 / 23623	1420	710	490	12
23624	1400	700	540	12

FIG. 1

**SHORTENING POSSIBILITIES:****WITHOUT FRICTION STAY:**

- 130 MM AT THE TOP WITH SIDE BOLTS OUT.
- 130 MM AT THE BOTTOM WITH SIDE BOLTS IN.

**WITH FRICTION STAY MOUNTED (TOP):**

(TO MOUNT FRICTION STAY MIN. 60 MM HAS TO BE CUT OF)

- 110 MM AT THE TOP WITH SIDE BOLTS OUT.
- 130 MM AT THE BOTTOM WITH SIDE BOLTS IN.

**WITH FRICTION STAY MOUNTED (BOTTOM):**

(TO MOUNT FRICTION STAY MIN. 60 MM HAS TO BE CUT OF)

- 130 MM AT THE TOP WITH SIDE BOLTS OUT.
- 110 MM AT THE BOTTOM WITH SIDE BOLTS IN.

**IPA NO.s 23601/23615 AND 23624:****WITHOUT FRICTION STAY:**

- 70 MM AT THE TOP WITH SIDE BOLTS OUT.
- 70 MM AT THE BOTTOM WITH SIDE BOLTS IN.

**WITH FRICTION STAY MOUNTED (TOP):**

- 50 MM AT THE TOP WITH SIDE BOLTS OUT.
- 70 MM AT THE BOTTOM WITH SIDE BOLTS IN.

**WITH FRICTION STAY MOUNTED (BOTTOM):**

- 70 MM AT THE TOP WITH SIDE BOLTS OUT.
- 50 MM AT THE BOTTOM WITH SIDE BOLTS IN.

FACE PLATE: 16 MM

USE SCREW NO. 4.

**MAINTENANCE:**

THE FITTINGS ARE NOT TO BE PAINTED. TEST THE OPERATION FROM TIME TO TIME. WHEN MOUNTING - LUBRICATE THE PIVOT/MOVABLE METAL PARTS OF THE MECHANISM WHILE ACTIVATING REPEATEDLY. HEREAFTER LUBRICATE MINIMUM TWICE A YEAR.

SEE ALSO INSTRUCTIONS ON PAGE 37 - 38.

EXAMPLE WOOD PROFILE

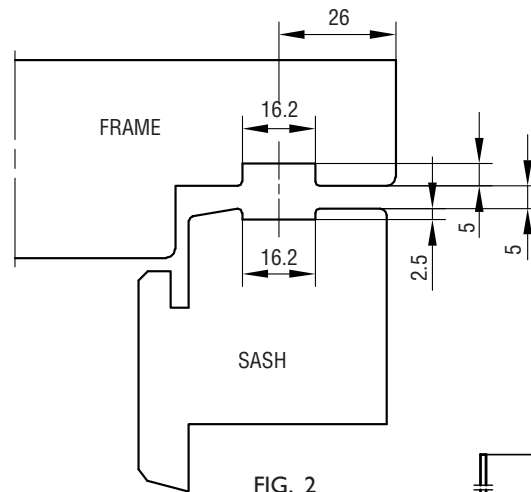


FIG. 2

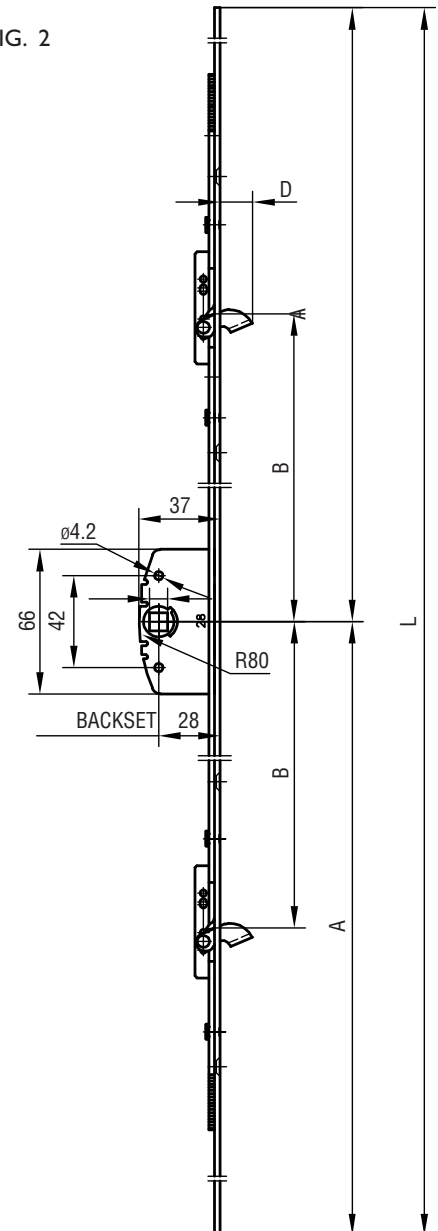


FIG. 3

IPA NO.s 23615-24

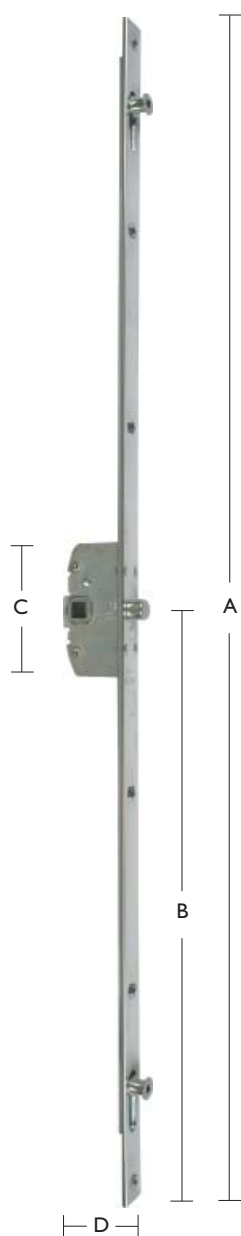
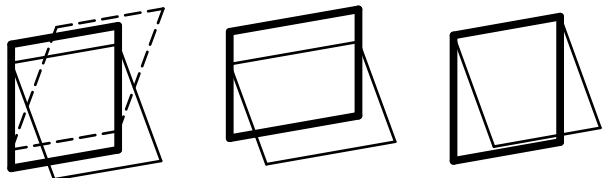




# ESPAGNOLETES

## WITHOUT MUSHROOM HEAD BOLTS

### IPA nr. 63021-30 + 63041-50



ORDERING NO.					A MM	B MM	BACKSET MM	FOR PIN MM	C MM	D MM	FACEPLATE MM	THICKNESS PLATE MM	SCREW	WEIGHT APPROX. KGS / 100 PIECES
IPA NO.	MATERIAL	SURFACE	INDUSTRY PACKING IN BOXES OF 25 PCS.	STEEL										
	SQUARE EDGES				ELECTROPLATED									
63021	1	6	21	2	300	150	28	8	66	37	16	2,5	4,0	0,20
63022	1	6	21	2	400	200	28	8	66	37	16	2,5	4,0	0,24
63024	1	6	21	2	600	300	28	8	66	37	16	2,5	4,0	0,34
63026	1	6	21	2	800	400	28	8	66	37	16	2,5	4,0	0,44
63028	1	6	21	2	1000	500	28	8	66	37	16	2,5	4,0	0,54
63030	1	6	21	2	1200	600	28	8	66	37	16	2,5	4,0	0,64
63041	1	6	21	2	300	150	25	8	66	34	16	2,5	4,0	0,20
63042	1	6	21	2	400	200	25	8	66	34	16	2,5	4,0	0,24
63044	1	6	21	2	600	300	25	8	66	34	16	2,5	4,0	0,34
63046	1	6	21	2	800	400	25	8	66	34	16	2,5	4,0	0,44
63048	1	6	21	2	1000	500	25	8	66	34	16	2,5	4,0	0,54
63050	1	6	21	2	1200	600	25	8	66	34	16	2,5	4,0	0,64



# IPA NO.s 63021-30 & 63041-50 FITTING INSTRUCTIONS

IPA NO.	L MM	A MM	B MM BACKSET
63021	300	195	28
63022	400	295	
63024	600	495	
63026	800	695	
63028	1000	895	
63030	1200	1095	
63041	300	195	25
63042	400	295	
63044	600	495	
63046	800	695	
63048	1000	895	
63050	1200	1095	

FIG. 1

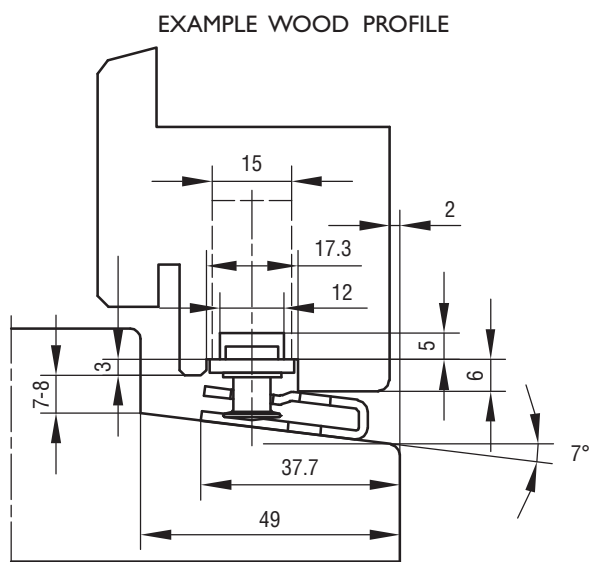


FIG. 2  
SHOWN WITH RECEIVER IPA NO. 23190

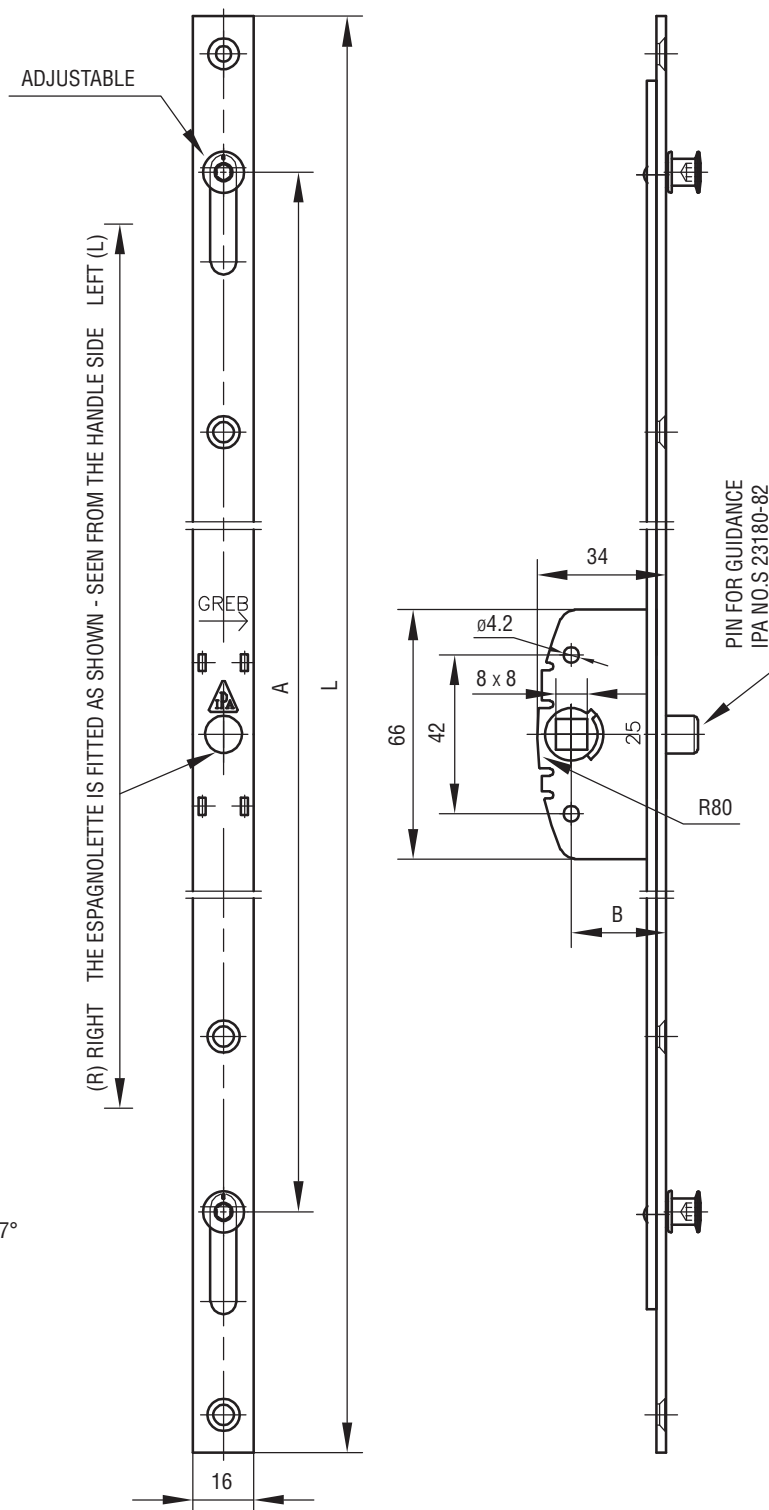


FIG. 3

USE SCREW NO. 4.0.

#### MAINTENANCE:

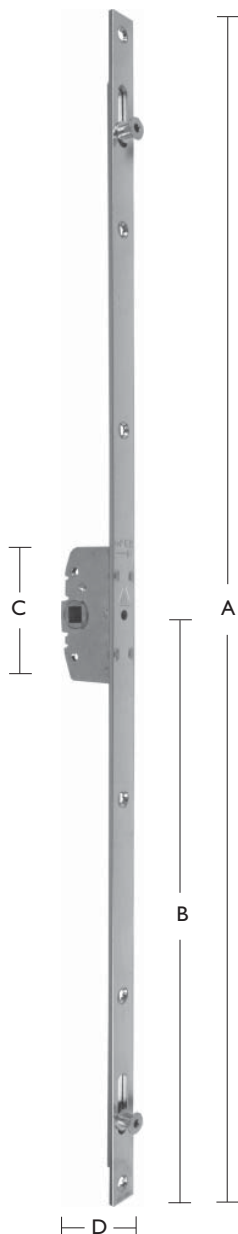
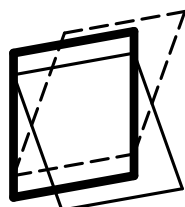
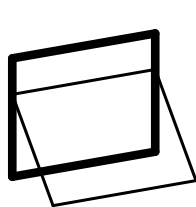
THE FITTINGS ARE NOT TO BE PAINTED. TEST THE OPERATION FROM TIME TO TIME. WHEN MOUNTING - LUBRICATE THE PIVOT/MOVABLE METAL PARTS OF THE MECHANISM WHILE ACTIVATING REPEATEDLY. HERAFTER LUBRICATE MINIMUM TWICE A YEAR. SEE ALSO INSTRUCTIONS ON PAGE 37 - 38.



# ESPAGNOLETTES

## WITHOUT MUSHROOM HEAD BOLTS

### IPA NO.s 63051-60 + 63081 + 23190



ORDERING NO.														
IPA NR.	MATERIAL	SURFACE		STANDARD PACKING IN BOXES OF 25 PCS.	A MM	B MM	C MM	D MM	BACKSET MM	PIN MM	FACEPLATE MM	THICKNESS PLATE MM	SCREW	APPROX. WEIGHT KG / EACH
	STEEL	SQUARE EDGES	ELECTROPLATED											
<b>63051</b>	<b>1</b>	<b>6</b>	<b>21</b>	<b>2</b>	300	150	66	34	25	8	16	2,5	4,0	0,20
<b>63052</b>	<b>1</b>	<b>6</b>	<b>21</b>	<b>2</b>	400	200	66	34	25	8	16	2,5	4,0	0,24
<b>63054</b>	<b>1</b>	<b>6</b>	<b>21</b>	<b>2</b>	600	300	66	34	25	8	16	2,5	4,0	0,34
<b>63056</b>	<b>1</b>	<b>6</b>	<b>21</b>	<b>2</b>	800	400	66	34	25	8	16	2,5	4,0	0,44
<b>63058</b>	<b>1</b>	<b>6</b>	<b>21</b>	<b>2</b>	1000	500	66	34	25	8	16	2,5	4,0	0,54
<b>63060</b>	<b>1</b>	<b>6</b>	<b>21</b>	<b>2</b>	1200	600	66	34	25	8	16	2,5	4,0	0,64

### GUIDE PIN

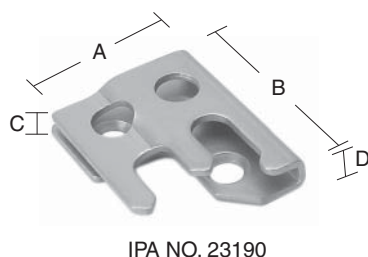


IPA NO. 63081

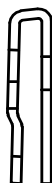
ORDERING NO.									
IPA NR.	MATERIAL	SURFACE		INDUSTRY PACKING IN BOXES OF 100 PCS.	A MM	B MM	SCREW	APPROX. WEIGHT KG / EACH	
	PLASTIC	W/O SPECIFICATION	BLACK						
<b>63081</b>	<b>9</b>	<b>0</b>	<b>57</b>	<b>2</b>	8	8,3	4,0	0,05	

USED TOGETHER WITH ESPAGNOLETTES WITH MUSHROOM HEAD BOLTS W/O GUIDE PIN IPA NO. 63051-60

### RECEIVER



IPA NO. 23190



ORDERING NO.											
IPA NO.	MATERIAL	SURFACE		STANDARD PACKING IN BOXES OF 25 PIECES	INDUSTRY PACKING IN BOXES OF 100 PIECES	A MM	B MM	C MM	D MM	SCREW	WEIGHT APPROX. KG / 100 PIECES
	STAINLESS STEEL	W/O SPECIFICATION	UNMACHINED								
<b>23190</b>	<b>8</b>	<b>0</b>	<b>86</b>	<b>1</b>	<b>2</b>	32,5	40	7	8	4,0	0,024



# IPA No.s 63051-60 + 63081 FITTING INSTRUCTIONS

IPA NO.	L MM	A MM
63051	300	195
63052	400	295
63054	600	495
63056	800	695
63058	1000	895
63060	1200	1095

FIG. 1

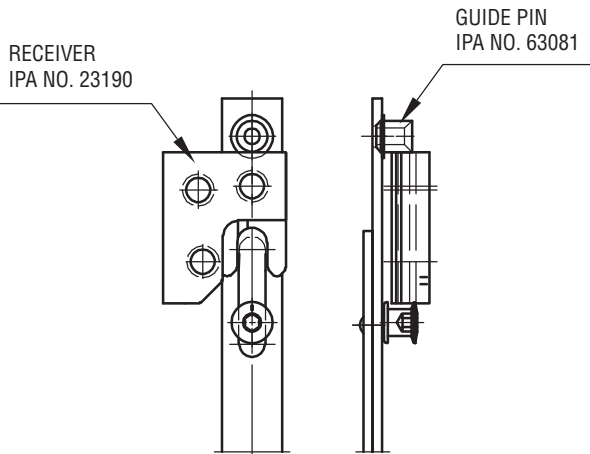


FIG. 4

GUIDE PIN IS PLACED WITH THE RIGHT SIDE MUSHROOM HEAD BOLT SEEN FROM THE OUTSIDE

EXAMPLE WOOD PROFILE

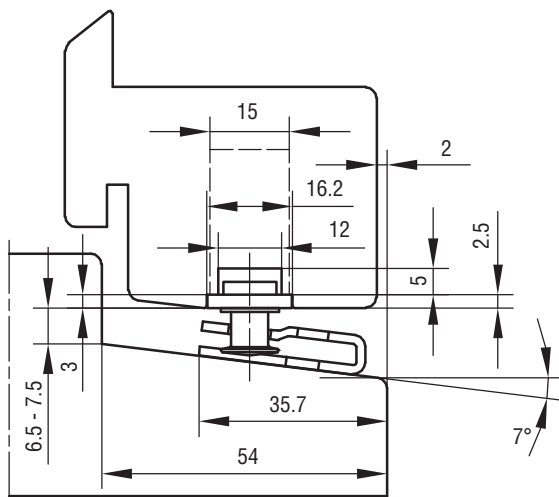


FIG. 2

SHOWN WITH RECEIVER IPA NO. 23190

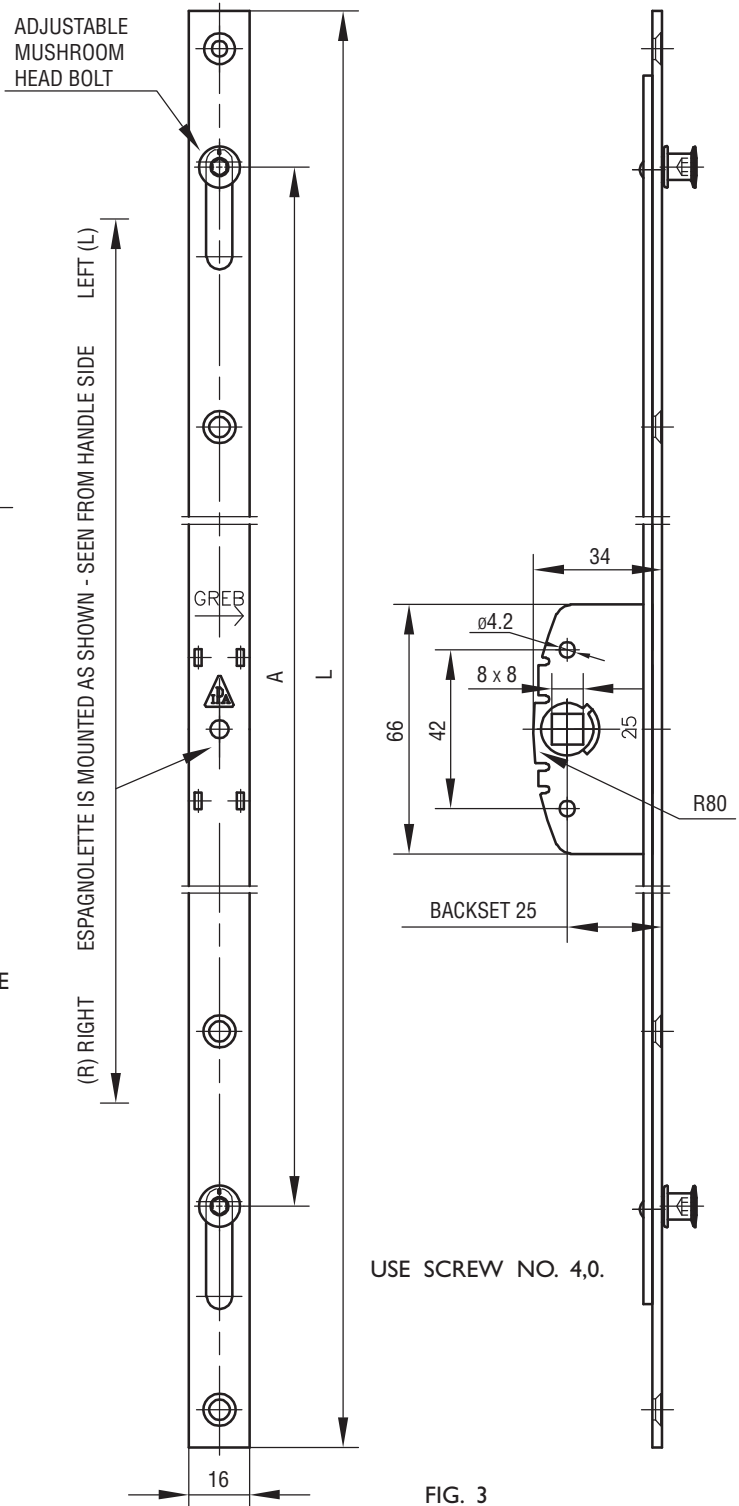


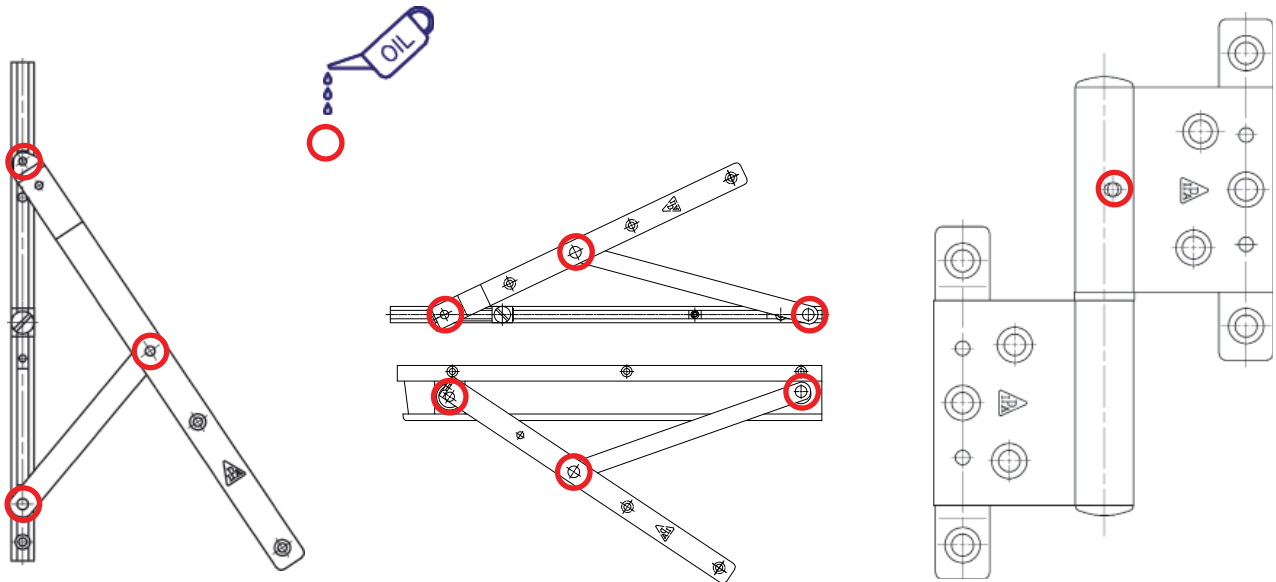
FIG. 3

**MAINTENANCE:**

THE FITTINGS ARE NOT TO BE PAINTED. TEST THE OPERATION FROM TIME TO TIME. WHEN MOUNTING - LUBRICATE THE PIVOT/MOVABLE METAL PARTS OF THE MECHANISM WHILE ACTIVATING REPEATEDLY. HEREAFTER LUBRICATE MINIMUM TWICE A YEAR. SEE ALSO PAGE 37 - 38.



# MAINTENANCE LUBRICATION INSTRUCTIONS



**GENERALLY** all parts of a building have to be looked after and maintained from time to time. This of course also applies for fittings in windows and doors.

How often fittings in windows and doors should be maintained depends to a large extent on how they are used, how often they are operated, and not least on the environment the fittings are exposed to.

Corrosion may also be caused by other factors, such as corrosive liquids, air pollution etc. Special attention should be given to fittings used in windows and doors in urban and industrial areas or other areas with a high traffic intensity as well as coastal areas. Fittings in such environments should be checked and greased more often than fittings used in areas with less corrosive effects.

**HINGES AND FITTINGS** should be lubricated when necessary, or at the minimum twice a year.

**SLIDING ELEMENTS AS WELL AS ALL ALURAILS** with sliding surfaces are to be kept clean and free from dust and dirt to ensure a smooth sliding function. Stearin wax or a clean lubricating film (but no oil and no grease!) can be applied onto the alluminium rails.

**ESPAGNOLETES AND OTHER LOCKING FITTINGS** should be greased or lubricated with acid free grease or acid free oil on spray. The grease/oil should be applied into the mechanism box as well as on the joints of the side bolts, the roller bolts, or the mushroom head bolts while activating the mechanism repeatedly. Grease or lubricate when necessary or at the minimum twice a year.

Continues.....



# MAINTENANCE LUBRICATION INSTRUCTIONS

**BRASS** will sooner or later get some discoloration in a brownish tone depending on the environment in which it is placed. The original brass surface can be maintained by polishing from time to time.

**STAINLESS STEEL** can get some discoloration, although this rarely happens. Different chemical influences like acid fumes, contamination from wood preservation treatments, or air pollution may cause discoloration of the metal, sometimes to a reddish tone which could look like rust. Thin discoloration can be removed just by using common cleaner or polish.

**PAINTED FITTINGS** will from time to time need repainting. Before painting all parts should be cleaned carefully. When choosing type of paint and when applying the paint remember to follow the instructions from the paint manufacturer very carefully.

When painting a wooden window in a house, it is a good idea also to paint the visible parts of the fittings (please note: No alurails nor sliding parts should ever be painted!). The painting of the fitting will minimize corrosion and add to the lifetime of the fitting. Always make sure that the proper function of a fitting is not affected by the painting.

**ANODIZED ALUMINIUM** should be cleaned from time to time, depending on the surroundings in which it is placed. Cleaning of the surface with a cloth or sponge is recommended. Eventually a neutral solvent can be used. Emery cloth, steel wool, sodium carbonate, and other cleansers or abrasives containing alkalies or acid should never be used.

**ON THE WINDOW AND DOOR FACTORY SITE** all fittings should be lubricated or greased before shipment. Hinges should be lubricated with acidfree oil while activating repeatedly, an acidfree grease can also be used. When using grease it should be applied directly onto the pin of the hinges. It may be necessary to dismantle the sash before greasing. Especially hinges with a brass pin should be greased.

When mounting fittings, please make sure that the tools do not damage the original surface treatment. When original surface has been damaged make sure that remedial take place as soon as possible.

**WHEN IN DOUBT PLEASE CONTACT YOUR LOCAL SUPPLIER OR A/S J. PETERSENS  
BESLAGFABRIK.**





## **A/S J. PETERSENS BESLAGFABRIK**

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