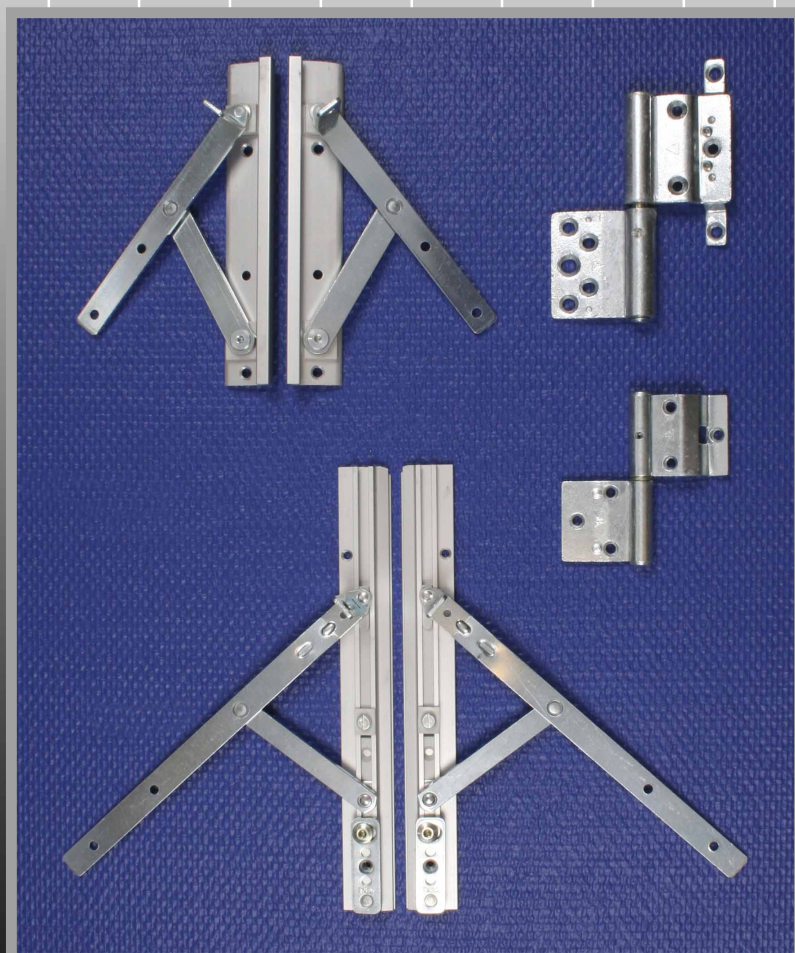


# IPA FITTINGS

## FOR REHAU

## NORDIC DESIGN PLUS



2012



**A/S J. PETERSENS BESLAGFABRIK**

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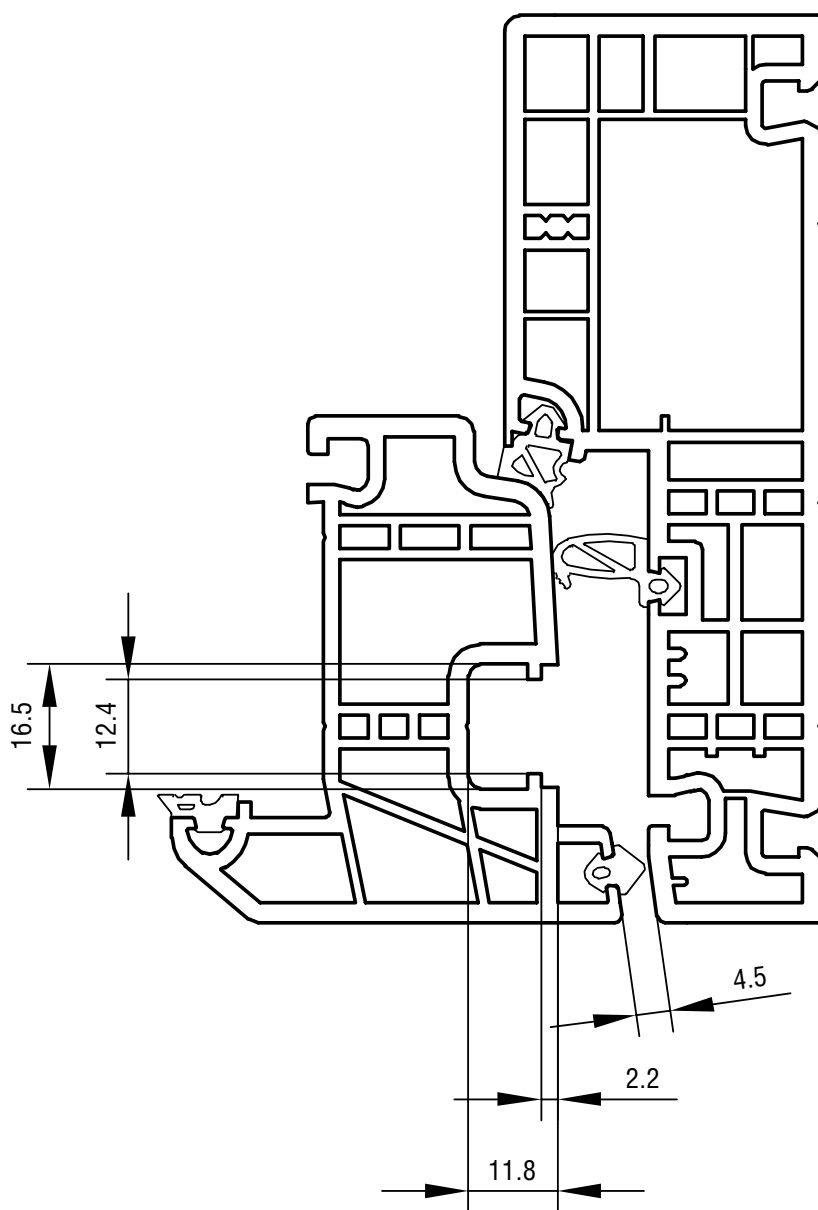
# FITTINGS FOR REHAU NORDIC DESIGN PLUS

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# REHAU NORDIC DESIGN PLUS PROFILE





## **REHAU NORDIC DESIGN PLUS PROFILE**



**REHAU®**

Unlimited Polymer Solutions

IPA HAS IN COOPERATION WITH  
REHAU DEVELOPED A SERIES OF FIT-  
TINGS FOR THE REHAU NORDIC DE-  
SIGN PLUS 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	600	700	800
1500	2 (3)	3 (3)	3 (3)	3 (4)
1400	2 (3)	3 (3)	3 (3)	3 (4)
1300	2 (3)	3 (3)	3 (3)	3 (4)
1200	2 (3)	3 (3)	3 (3)	3 (4)
1100	2 (3)	3 (3)	3 (3)	3 (3)
1000	2 (2)	2 (2)	2 (2)	3 (3)
900	2 (2)	2 (2)	2 (2)	3 (3)
800	2 (2)	2 (2)	2 (2)	3 (3)
700	2 (2)	2 (2)	2 (2)	
600	2 (2)	2 (2)		
500	2 (2)			

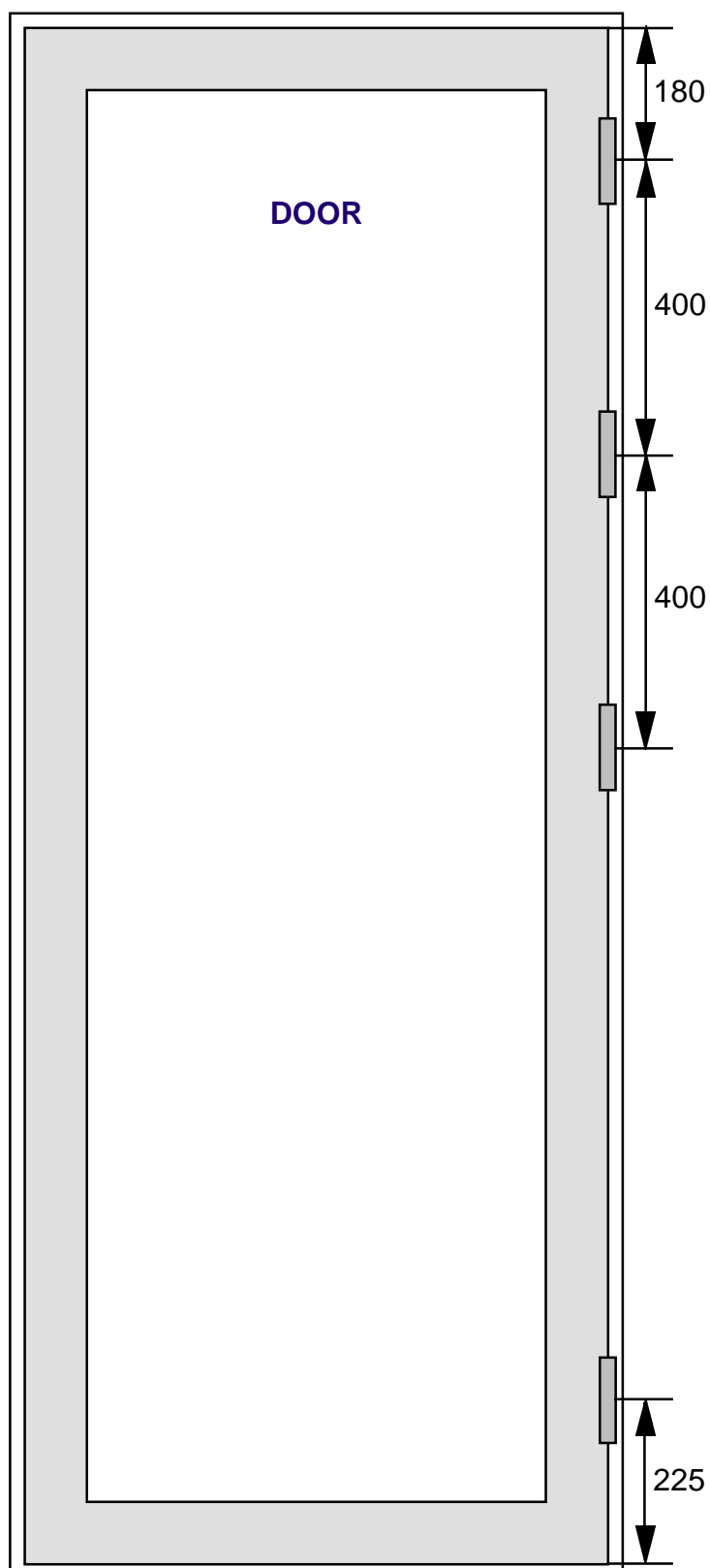
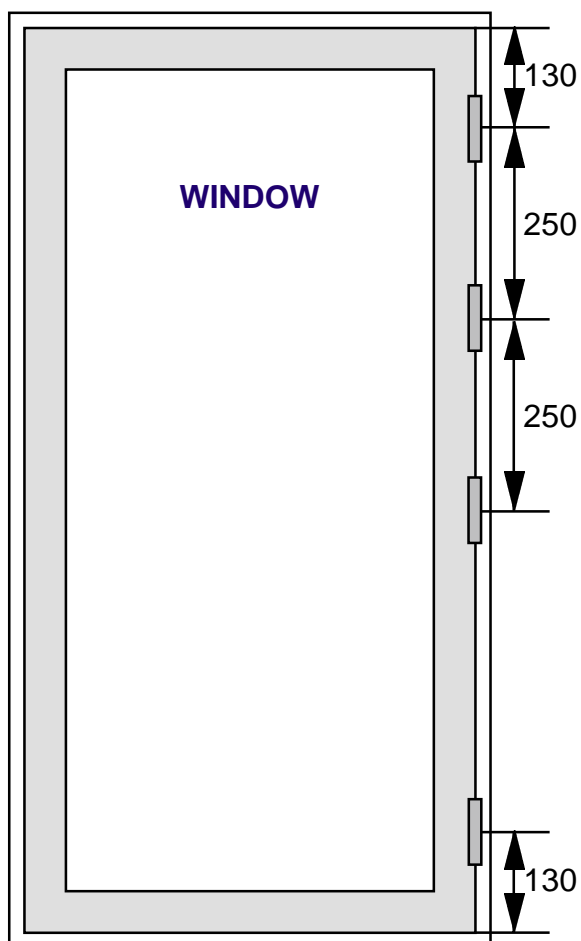
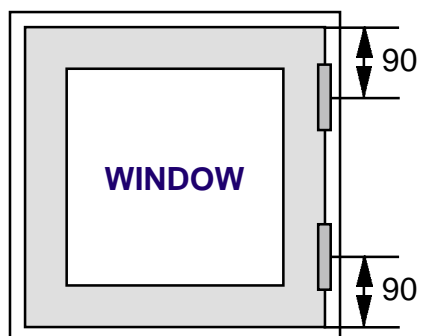
**DOORHINGES:** Valid for door hinges shown in this catalogue.

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	800	900	1000	1100
2600	5	5	5		
2500	5	5	5	5	
2400	4	4	4	5	5
2300	4	4	4	4	5
2200	3	3	3	4	4
2100	3	3	3	3	4
2000	3	3	3	3	4



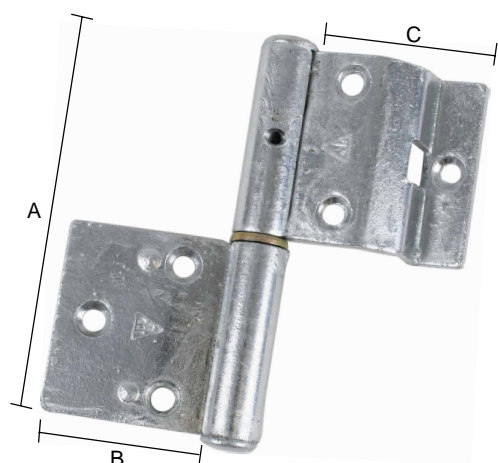
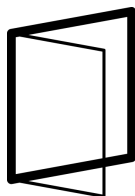
## SUGGESTION - HINGE POSITIONS





# WINDOW HINGE

IPA No. 61874



ORDERING NO.												
IPA NO.	MATERIAL	SQUARE EDGES LEFT	SQUARE EDGES RIGHT	SURFACE	INDUSTRY PACKING IN BOXES OF 50 PIECES	A MM	B MM	C MM	MATERIAL MM	PIN MM	SCREW	APPROX. WEIGHT KG / PC.
	STEEL FIXED STEEL PIN			GALVANIZED								
61874	2	3	4	87	2	90	38	37	2,5	8	4,0	0,18



IPA No. 61874

# FITTING INSTRUCTIONS

REHAU NORDIC DESIGN PLUS:

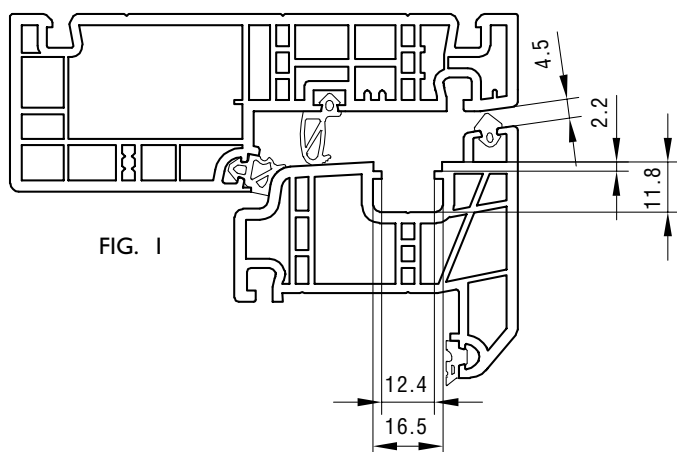


FIG. 1

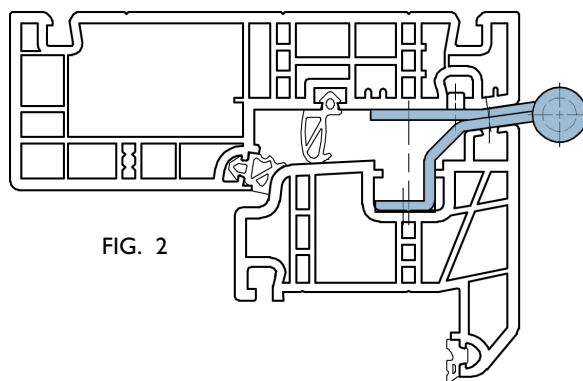


FIG. 2

USE SCREW NO. 4.0.

## MAINTENANCE:

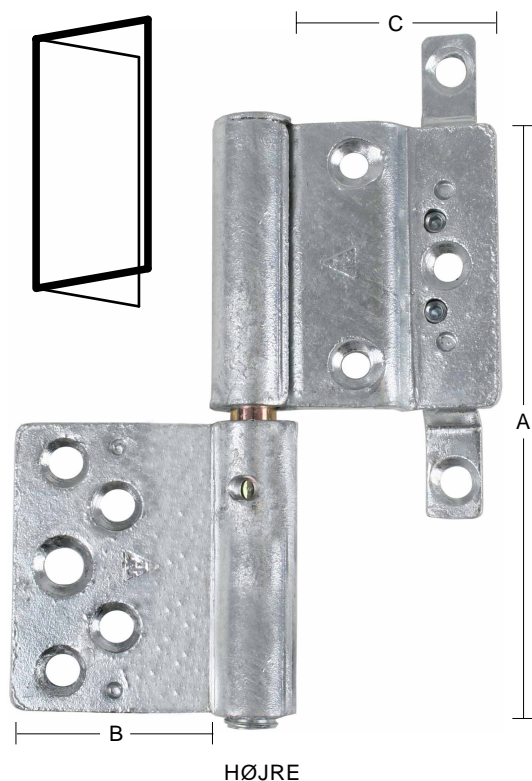
TEST THE OPERATION FROM TIME TO TIME. WHEN FITTING - GREASE THE PIVOT/MOVABLE METAL PARTS OF THE MECHANISM WHILE ACTIVATING REPEATEDLY. HEREAFTER GREASE MINIMUM TWICE A YEAR. SEE ALSO INSTRUCTIONS ON PAGE 28 - 29.





# ADJUSTABLE DOOR HINGE

IPA No. 60898, IPA No. 60821 & IPA No. 61808



ORDERING NO.											
IPA NO.	MATERIAL	SQUARE EDGES LEFT	SQUARE EDGES RIGHT	SURFACE	INDUSTRY PACKING IN BOXES OF 50 PIECES	A MM	B MM	C MM	MATERIAL MM	PIN MM	SCREW
	STEEL FIXED STEEL PIN			GALVANIZED							
60898	2	3	4	87	2	120	42	42	4	9,5	5,0

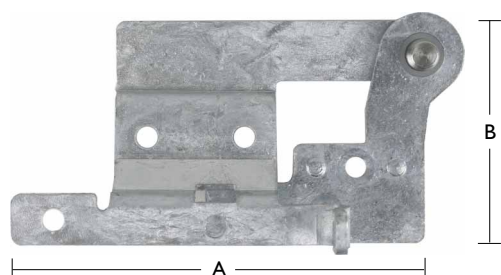
■ ADJUSTABLE HORIZONTALY AND VERTICALLY

## THREADED PLATE



ORDERING NO.									
IPA NO.	MATERIAL	W/O SPECIFICATION	SURFACE	STANDARD PACKING IN BOXES OF 25 PCS.	A MM	B MM	MATERIAL MM	THREADED HOLES MM	APPROX. WEIGHT KGS. / PC.
	STEEL		ELECTROPLATED						
60821	1	0	21	1	60	13	3	5	0,02

## DOORHINGE FOR TOP MOUNTING



ORDERING NO.										
IPA NO.	MATERIAL			SURFACE	STANDARD PACKING IN BOXES OF 10 PCS.	A MM	B MM	MATERIAL MM	SCREW	APPROX. WEIGHT KGS / PC.
	STEEL	LEFT	RIGHT	GALVANIZED						
61808	1	7	8	87	1	106	55	2,5	4,0	0,11



# IPA No. 60898 & 60821

## FITTING INSTRUCTIONS

REHAU NORDIC DESIGN PLUS:

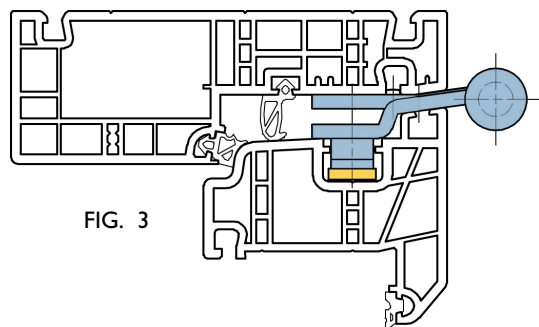


FIG. 3

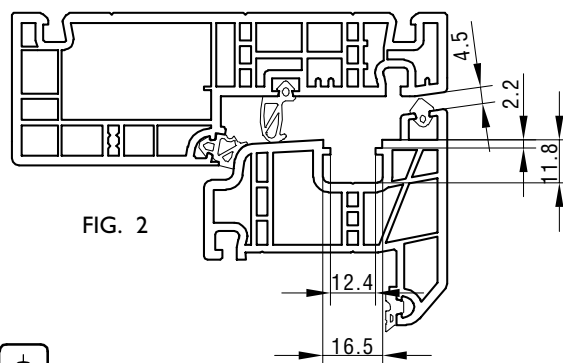
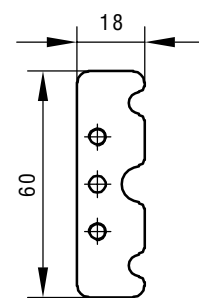


FIG. 2



THREADED PLATE  
IPA NO. 60821

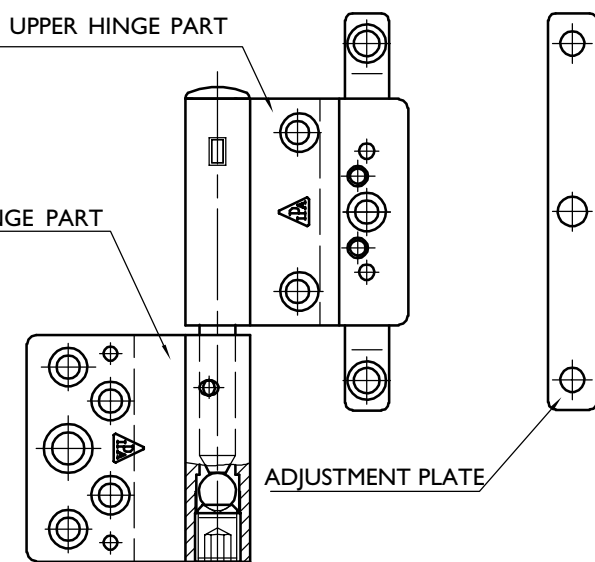


FIG. 1

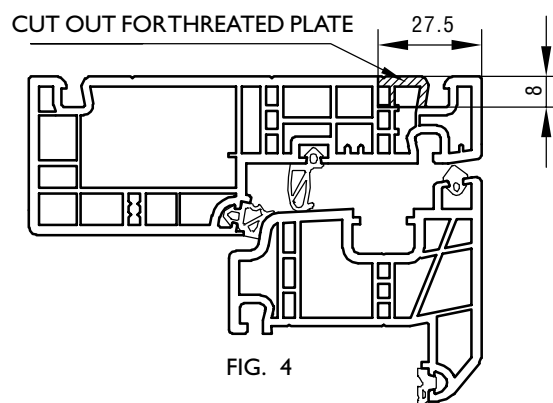


FIG. 4

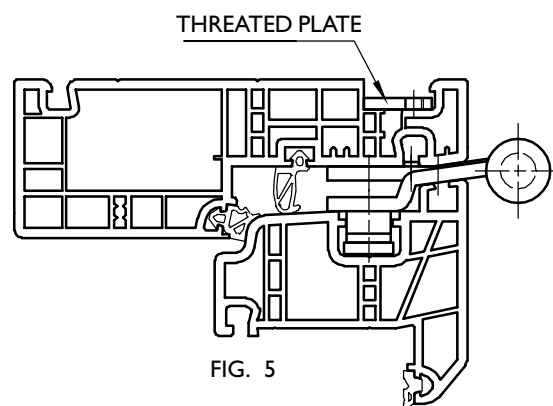


FIG. 5

### MONTING:

1. MOUNT THE ADJUSTMENT PLATE IN THE GROOVE OF THE DOOR IN THE MIDDLE OF WHERE THE LOWER HINGE PART IS BEING MOUNTED.
2. PLACE HINGE SO THAT THE LOWER HINGE PART IS OVER THE ADJUSTMENT PLATE AND FASTEN IT. THE ADJUSTMENT SCREWS SHOULD BE LOOSENED.

ON LARGE DOORS IT IS RECOMMENDED TO USE THE THREADED PLATES IPA NO. 60821-10211. THESE ARE CUT INTO THE PROFILE ON THE BACK OF THE FRAME. USE SCREWS NO. 5 FOR THE TWO THREADED HOLES. SEE FIG. 4 AND 5.

### ADJUSTMENT:

**VERTICALLY:** ADJUST TO WANTED POSITION ON THE LARGE SCREW AT THE BOTTOM OF THE HINGE  $\pm 3$  MM.

**HORIZONTALLY:** LOOSEN THE MOUNTING SCREWS AND ADJUST TO WANTED POSITION. FASTEN THE MOUNTING SCREWS.

### MAINTENANCE:

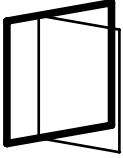
TEST THE OPERATION FROM TIME TO TIME. WHEN FITTING - GREASE THE PIVOT/MOVABLE METAL PARTS OF THE MECHANISM WHILE ACTIVATING REPEATEDLY. HEREAFTER GREASE MINIMUM TWICE A YEAR. SEE ALSO INSTRUCTIONS ON PAGE 28 - 29.



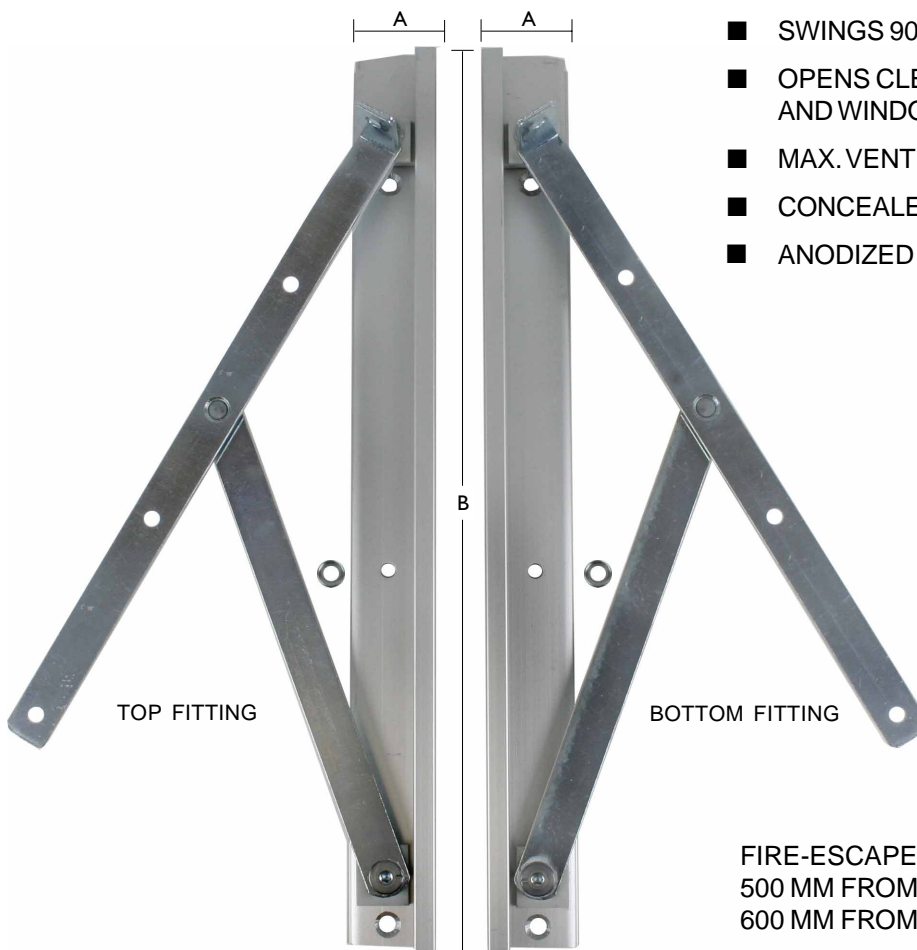
# SIDE SWING WINDOW 90°

## WITH FRICTION

### IPA No. 62896-97 - adjustable



ORDERING NO.								
IPA NO.	MATERIAL			SURFACE	STANDARD PACKING IN BOXES OF 5 SETS	A MM	B MM	SCREW
	STEEL	LEFT	RIGHT	ELECTROPLATED				
62896	1	7	8	21	1	31,5	183	4,0
62897	1	7	8	21	1	31,5	326	4,0



- CONVENIENT FOR CLEANING
- SWINGS 90°
- OPENS CLEAR FROM CURTAINS AND WINDOW FRAME
- MAX. VENTILATION
- CONCEALED FITTINGS
- ANODIZED ALUMINIUM RAILS

FIRE-ESCAPE OPENING IPA NO. 62897:  
500 MM FROM FRAME WIDTH 750 MM  
600 MM FROM FRAME WIDTH 852 MM

1 SET  
RIGHT HAND



IPA No. 62896-97

# FITTING INSTRUCTIONS

REHAU NORDIC DESIGN PLUS:

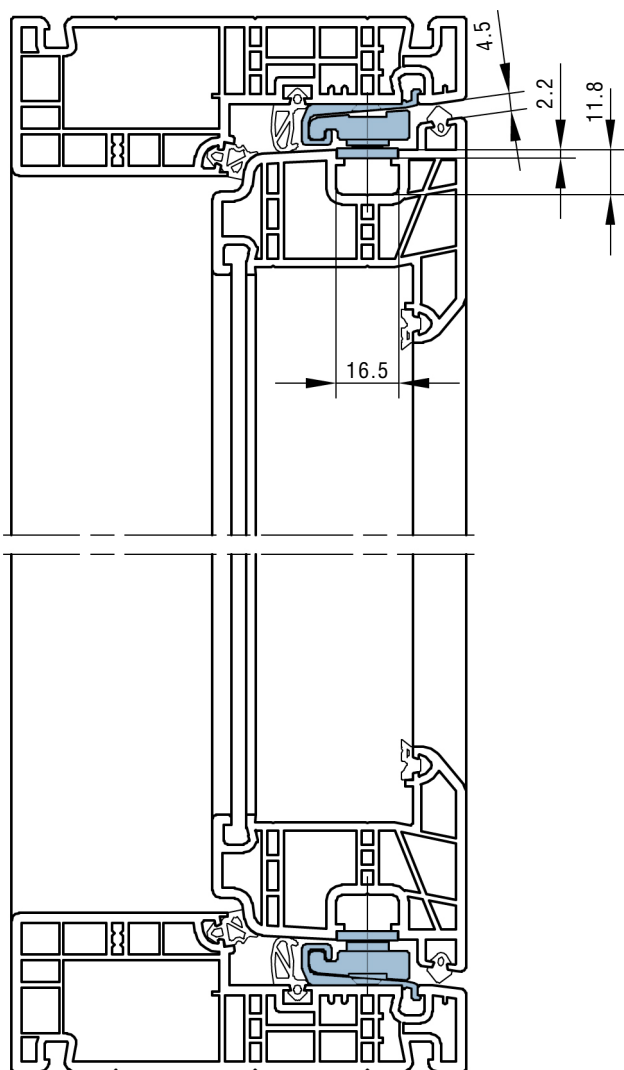


FIG. 1  
VERTICAL PLAN

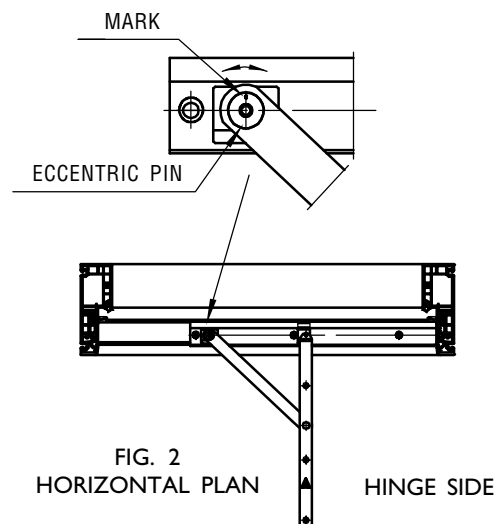


FIG. 2  
HORIZONTAL PLAN

FITTING SHOWN ON FRAME CILL  
RIGHT HAND ILLUSTRATION

IPA NO.	62896	62897
MAX. WEIGHT OF SASH KGS	20	40
MIN. WIDTH OF SASH	185	350
MAX. WIDTH OF SASH	350	842
USE SCREW NO.	4.0	4.0

FIG. 3

## MONTERING:

1. THE FITTING SHOULD BE POSITIONED IN THE GROOVES AT HEAD AND CILL OF FRAME AGAINST THE SIDEFAME AND SCREWED ON (FIGURE 1 AND 2). FASTEN THE STOP RINGS THROUGH THE MIDDLE HOLE IN THE ALU-RAILS.
2. OPEN THE FITTING AND PUSH THE WINDOW SASH INTO POSITION BETWEEN THE 2 FITTINGS AGAINST THE ANGLE AND FASTEN THE SCREWS. START WITH THE SCREW IN THE ANGLE.
3. THE OPENING BETWEEN SASH AND FRAME CAN BE ADJUSTED BY MEANS OF THE ECCENTRIC PIN - USE A TORX-20 KEY. ON THE PIN IS A MARK THAT ON DELIVERY IS IN NEUTRAL POSITION. THE PIN CAN BE TURNED 90° TO EITHER SIDE, WHICH GIVES AN ADJUSTMENT OF  $\pm 0.5$  MM.

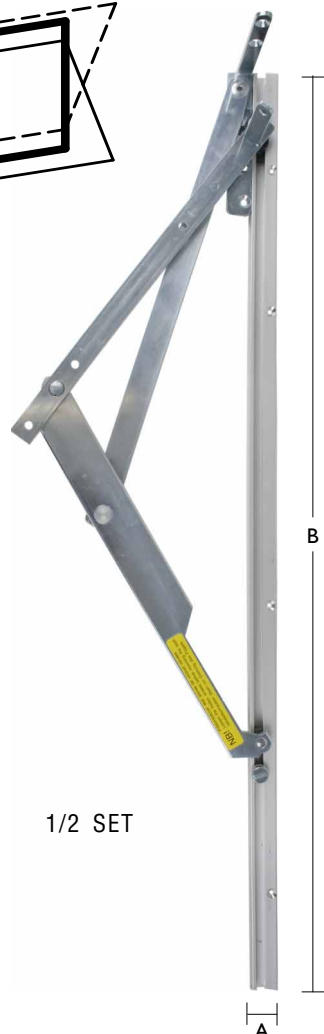
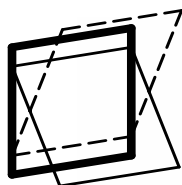
## MAINTENANCE:

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 28 - 29.



# REVERSIBLE PROJECTING GEARS WITH FRICTION

## IPA No.s 62844-52 & IPA No. 62862



1/2 SET

ORDERING NO.					A MM	B MM	FRAMEDIMENSION OUTSIDE MM	SCREWS	APPROX. WEIGHT KG / SET
IPA NO.	MATERIAL	WITHOUT SPECIFICATION	SURFACE	STANDARD PACKING IN BOXES OF 1 SET					
	STEEL		ELECTROPLATED						
62844	1	0	21	1	18	642	588-687	3,5 & 4,0	1,24
62845	1	0	21	1	18	742	688-787	3,5 & 4,0	1,44
62846	1	0	21	1	18	842	788-887	3,5 & 4,0	1,65
62847	1	0	21	1	18	942	888-987	3,5 & 4,0	1,85
62848	1	0	21	1	18	1042	988-1087	3,5 & 4,0	2,05
62849	1	0	21	1	18	1142	1088-1187	3,5 & 4,0	2,25
62850	1	0	21	1	18	1242	1188-1287	3,5 & 4,0	2,45
62851	1	0	21	1	18	1342	1288-1387	3,5 & 4,0	2,66
62852	1	0	21	1	18	1442	1388-1487	3,5 & 4,0	2,86

- CONCEALED FITTINGS
- ADJUSTABLE FRICTION
- FULLY REVERSIBLE 170°
- OPENS CLEAR OF CURTAINS AND WINDOW FRAMES
- ANODIZED RAILS

### FIRE-ESCAPE OPENING:

500 MM ON IPA NO. 62846 - FROM OUTSIDE FRAME 850 MM

600 MM ON IPA NO. 62848 - FROM OUTSIDE FRAME 1025 MM



RISTRICTOR  
IPA NO. 62862

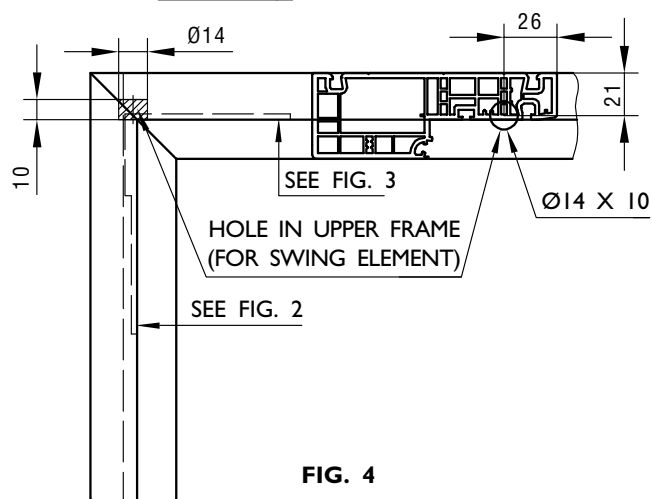
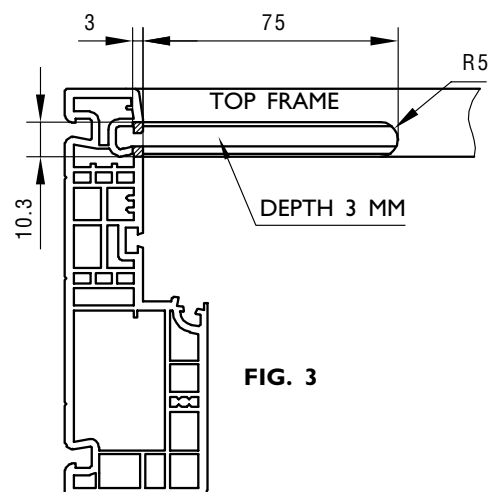
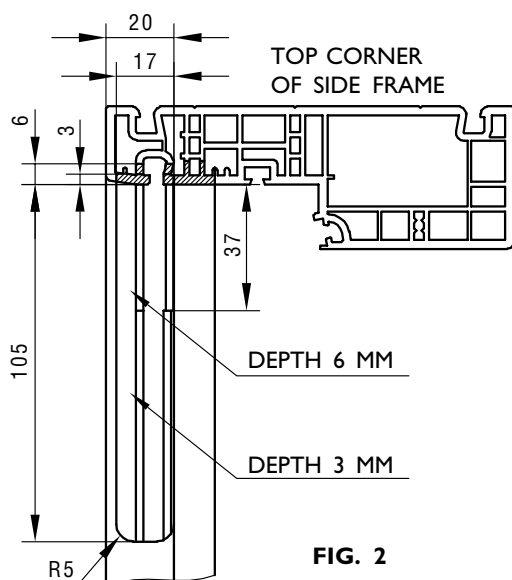
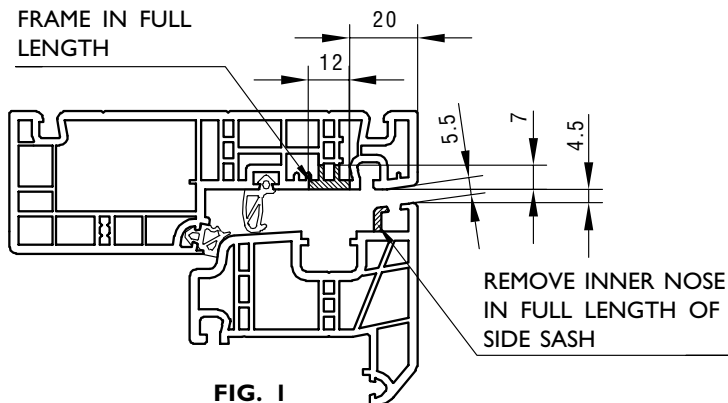
ORDERING NO.					A MM	SCREW	APPROX. WEIGHT KG / PC.
IPA NO.	MATERIAL	LEFT	SURFACE	STANDARD PACKING IN BOXES OF 20 PCS.			
	STEEL		ELECTROPLATED				
62862	1	7	21	1	87,5	4,0	0,05



# IPA No.s 62844-52 & IPA No. 62862 MACHINING INSTRUCTIONS

REHAU NORDIC DESIGN PLUS:

CUT OUT IN SIDE  
FRAME IN FULL  
LENGTH



## PROFILE AND CUT OUTS:

IT IS NECESSARY TO CUT AWAY MATERIAL IN SASH AS WELL AS FRAME PROFILE BEFORE MOUNTING THE REVERSIBLE PROJECTING GEAR. ALSO IT IS NECESSARY TO MAKE THE SASH 2 MM LESS WIDER THAN FOR OTHER WINDOW TYPES.

## SASH:

1. SASH MUST BE MANUFACTURED SO THAT THERE IS ONE MM EXTRA SPACE BETWEEN SIDE FRAME AND SIDE SASH COMPARED TO OTHER WINDOWS.
2. ON THE SIDE SASH THE INNER NOSE HAS TO BE REMOVED IN **FULL LENGTH** OF THE SIDE SASH.

## FRAME:

1. THE SIDE FRAME IS MADE WITH A THROUGH GOING GROOVE (12 X 7 MM) PLACED 20 MM FROM FRONT EDGE OF FRAME, SEE FIG. 1 AND 2. **IMPORTANT:** GROOVE MUST BE MADE ACCORDING TO THESE SPECIFICATIONS. **EXTRA ATTENTION** MUST BE PAID TO THE GROOVES WHEN WELDING THE FRAME CORNERS TOGETHER. MAKE SURE THAT THE PROFILE AND THE GROOVE KEEP ITS FORM, AS A DEFORMED PROFILE WILL CAUSE PROBLEMS FOR THE RESTRICTORS AND FOR THE OPERATING OF THE GEAR.
2. A HOLE FOR THE SWING ELEMENT HAS TO BE MADE IN THE UPPER FRAME, SEE FIG. 4
3. A CUT OUT FOR THE BEARING PLATE IN THE TOP CORNER OF THE FRAME HAS TO BE MADE, AS SHOWN IN FIG. 2 AND 3.

FITTING INSTRUCTIONS - SEE NEXT PAGE



# IPA No.s 62844-52 & IPA No. 62862 FITTING INSTRUCTIONS

REHAU NORDIC DESIGN PLUS:

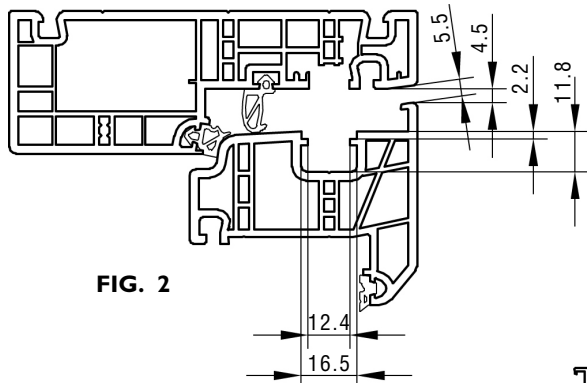


FIG. 2

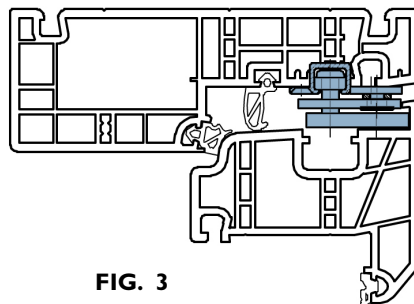


FIG. 3

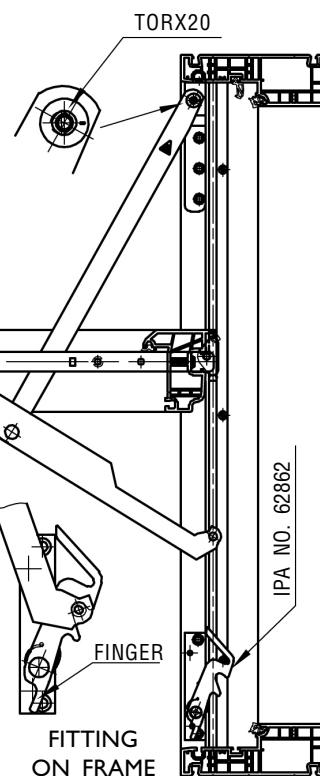


FIG. 1

## FITTING INSTRUCTIONS:

1. SHORTEN THE ALU-RAIL TO FIT THE HEIGHT OF THE INNER FRAME. PLACE FITTING INTO BOTH SIDES OF THE FRAME AND AGAINST TOP FRAME AND FASTEN THE SCREWS.
2. PLACE THE BEARING PLATE IN THE CUT-OUT IN TOP CORNER OF FRAME AND FASTEN. THE BEARING PLATE MUST BE LEVEL WITH TOP FRAME AND LEVEL WITH THE SIDE FRAME IN THE LOWER PART OF THE BEARING PLATE.
3. INSERT THE SASH BETWEEN HINGE ARMS AND PUSH THE SASH AGAINST THE STOP BRACKET. FASTEN THE SASH STARTING WITH THE SCREWS IN THE STOP BRACKET.  
OBS: IT IS IMPORTANT THAT THE STOP BRACKET IS CENTERED IN THE GROOVE. THE HINGE ARMS MUST BE RESTING AGAINST THE SIDES OF THE GROOVE IN THE FULL LENGTH OF THE GROOVE, ALSO BY THE SWING ELEMENT IN THE TOP.

4. THE SASH CAN BE OPENED TO ANY ANGLE. FOR KEEPING IT OPEN AT A 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.
5. THE SASH CAN BE ADJUSTED VERTICALLY  $\pm 0.75$  MM BY MEANS OF THE SCREW IN THE BEARING PLATE (USE TORX 20), SEE TOP OF FIG. 1. MAKE SURE THAT THE SASH IS CENTERED IN THE FRAME.
6. MAKE SURE THAT THE SWING ELEMENT CAN MOVE FREELY INTO THE UPPER FRAME, WHEN THE WINDOW IS CLOSED.
7. FIT THE **RESTRICTOR IPA NO. 62562** ON THE LEFT SIDE, SEE FIG. 1. PLEASE CHECK RESTRICTED OPENING POSITION AS WELL AS CLEANING POSITION.
8. IN CLEANING POSITION THE TOP NOTCH SHOULD ALWAYS BE USED, SEE BOTTOM OF FIG 1. BOTTOM NOTCH IS FOR RESTRICTED OPENING POSITION ONLY.

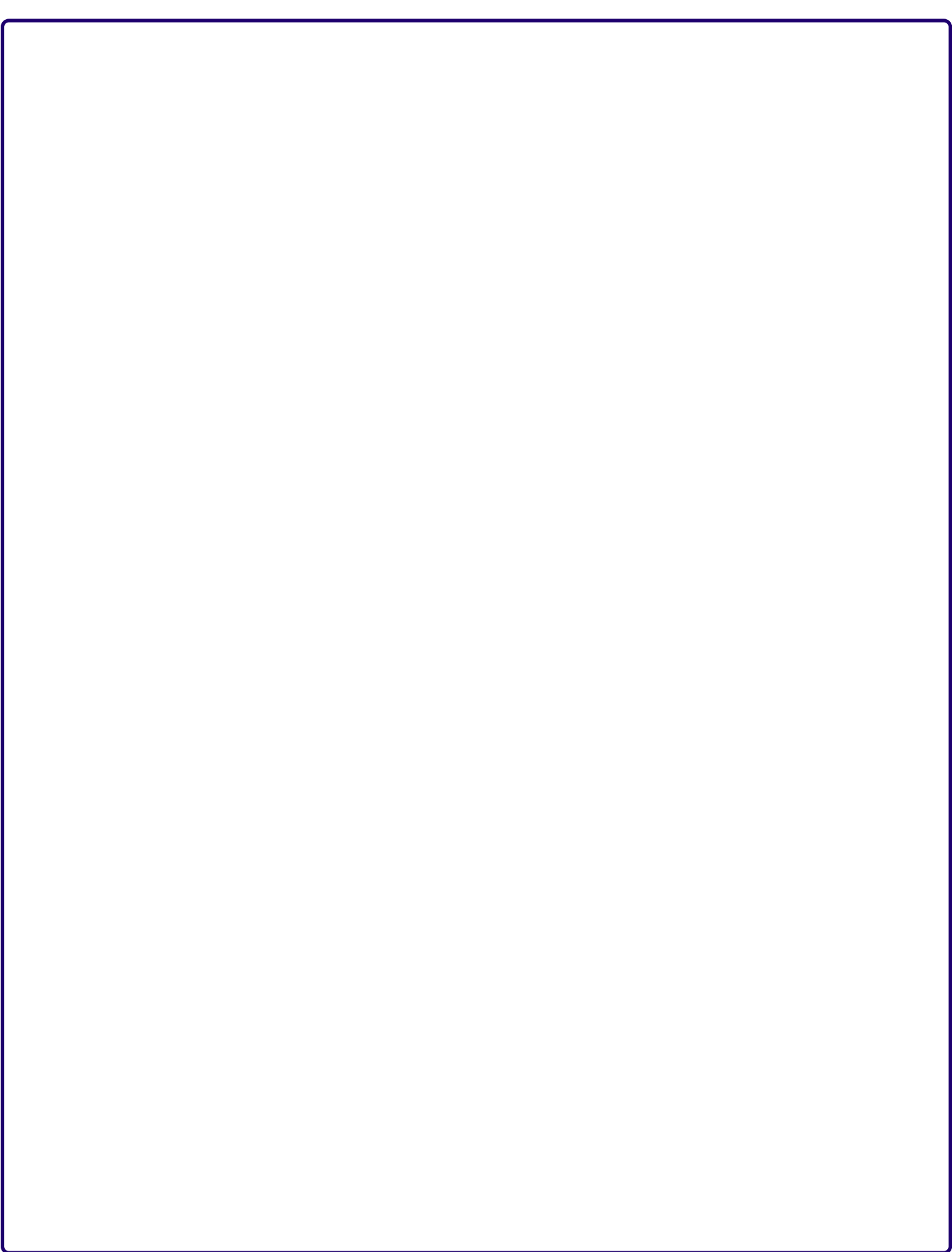
## OPERATION INSTRUCTIONS:

1. OPEN THE WINDOW - THE RESTRICTOR WILL AUTOMATICALLY RESTRICT THE WINDOW.
2. PULL THE SASH 20 MM - THE RESTRICTOR IS RELEASED BY PULLING IN ON THE LITTLE FINGER IN THE BOTTOM OF THE RESTRICTOR (SEE BOTTOM OF FIG. 1). OPEN THE WINDOW.
3. WHEN THE WINDOW IS REVERSED FOR CLEANING, THE RESTRICTOR WILL LOCK 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. HERAFTER LIBRICATE MINIMUM TWICE A YEAR. DO NOT GREASE THE ALUMINIUM RAILS. TEST THE OPERATION FROM TIME TO TIME. SEE ALSO INSTRUCTIONS ON PAGE 28 - 29.

IPA NO.	FITTING LENGTH MM	MAX. WEIGHT KGS.
62844	642	60
62845	742	60
62846	842	60
62847	942	60
62848	1042	60
62849	1142	60
62850	1242	60
62851	1342	60
62852	1442	60
<b>USE THE LARGEST POSSIBLE FITTING</b>		

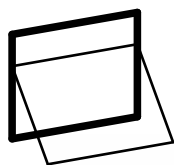






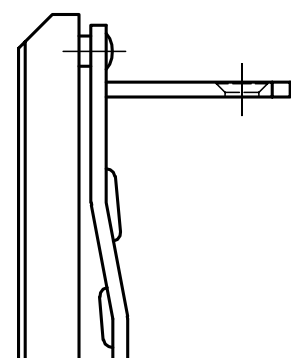
# ADJUSTABLE CANOPY STAY WITH FRICTION

## IPA No. 62886 & 62889



ORDERING NO.								
IPA NO.	MATERIAL	W/O SPECIFICATION	SURFACE	INDUSTRYPACKING IN BOXES OF 25 SETS	A MM	B MM	SCREW	APPROX. WEIGHT KG / SET
	STEEL		ELECTROPLATED					
62886	1	0	21	2	30	253	4,0	0,44
62889	1	0	21	2	30	744	4,0	1,25

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



FIRE-ESCAPE OPENING:  
IPA NO. 62889  
500 MM FROM FRAME HEIGHT 1115 MM  
600 MM FROM FRAME HEIGHT 1280 MM



# IPA No. 62886 & 62889

# FITTING INSTRUCTIONS

REHAU NORDIC DESIGN PLUS:

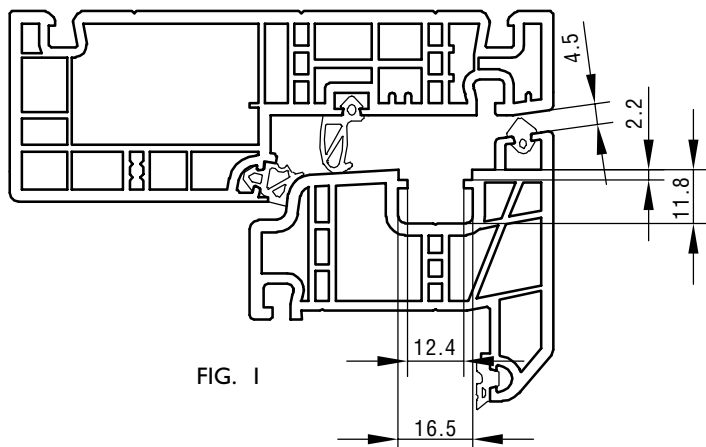


FIG. 1

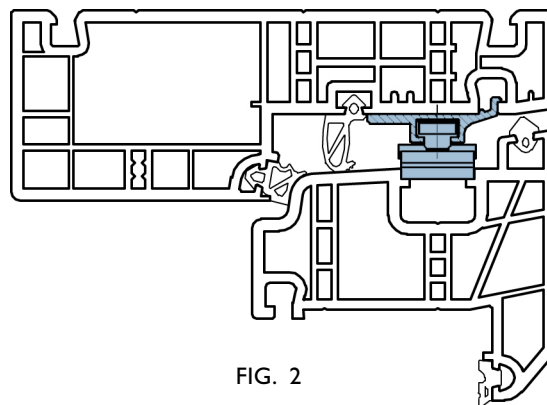


FIG. 2

IPA NO.	62886	62889
MAX. SASH WEIGHT KG	40	70
MAX. FRAME HEIGHT MM	700	1600
SCREW	4.0	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. FOR IPA NO. 62889 FASTEN THE STOP THROUGH THE TOP SCREW HOLE.
2. PUSH THE SASH INTO ITS PLACE BY INSERTING IT BETWEEN THE FITTINGS, GUIDED BY THE GROOVES IN THE SASH, TILL THE SASH HITS THE STOPS OF THE FITTING. 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. THE BEST RESULT FOR THE WINDOW MOVEMENT IS ACHIEVED BY EQUAL FRICTION AT EITHER SIDE.
4. THE SASH CAN BE ADJUSTED  $\pm 1.5$  MM UP OR DOWN. BEFORE ANY ADJUSTMENT THE MOUNTING SCREWS IN THE BOTTOM IN EACH SIDE OF THE FRAME HAVE TO BE LOOSENED. THEN ADJUST BY USING A TORX-20 KEY TO TURN THE ECCENTRIC PIN. BY DELIVERY THE MARK ON THE ECCENTRIC PIN 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. AFTER THE ADJUSTMENT THE MOUNTINGSCREWS IN THE BOTTOM OF EACH SIDE ARE FASTENED.

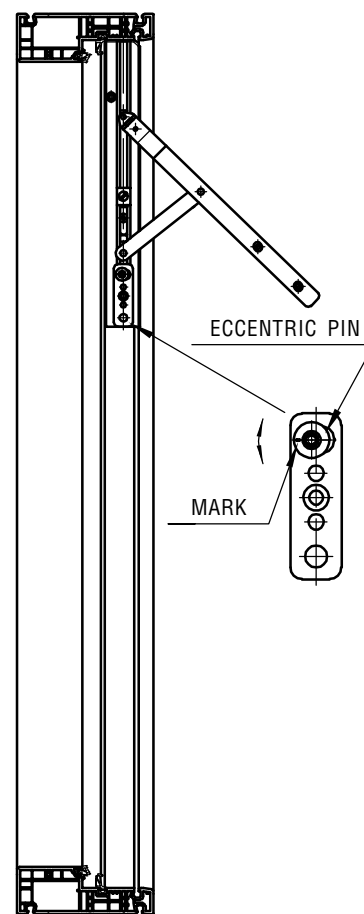


FIG. 3

## MAINTENANCE:

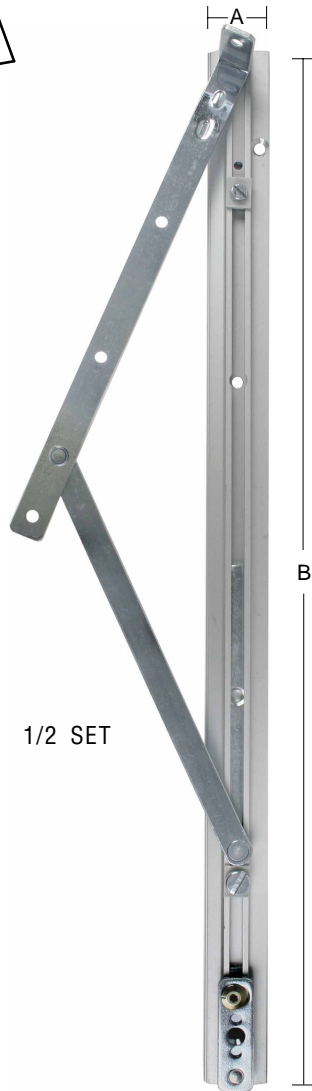
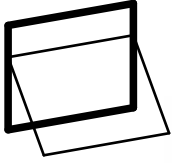
THE FITTINGS ARE NOT TO BE PAINTED. TEST THE OPERATION FROM TIME TO TIME. WHEN FITTING - LUBRICATE THE PIVOT/MOVABLE METAL PARTS OF THE MECHANISM WHILE ACTIVATING REPEATEDLY. HEREAFTER LUBRICATE MINIMUM TWICE A YEAR. DO NOT LUBRICATE THE ALUMINIUM RAILS. SEE ALSO INSTRUCTIONS ON PAGE 28 - 29.



# ADJUSTABLE CANOPY STAY

## WITH ADJUSTABLE FRICTION

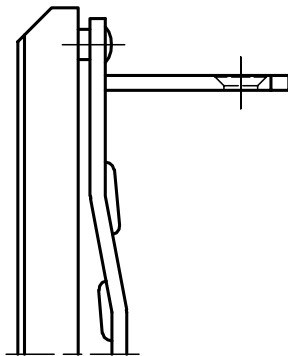
### IPA No. 62888



1/2 SET

ORDERING NO.							
IPA NO.	MATERIAL	W/O SPECIFICATION	SURFACE	INDUSTRYPACKING IN BOXES OF 25 SETS	A MM	B MM	SCREW
	STEEL		ELECTROPLATED				
62888	1	0	21	2	30	502	4,0
							0,70

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



FIRE-ESCAPE OPENING:

IPA NO. 62888

500 MM FROM FRAME HEIGHT 740 MM

600 MM FROM FRAME HEIGHT 860 MM



**IPA No. 62888**

# FITTING INSTRUCTIONS

REHAU NORDIC DESIGN PLUS:

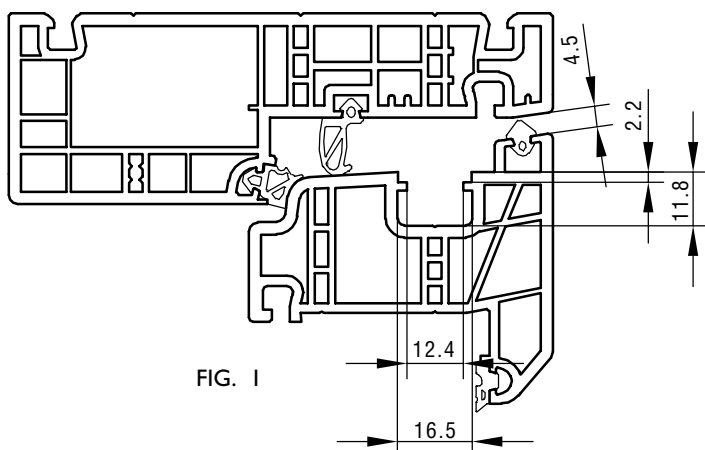


FIG. 1

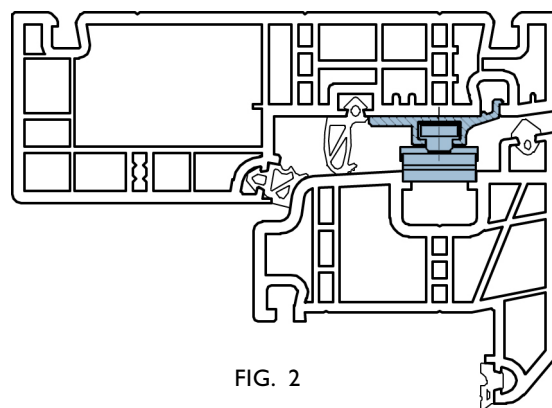


FIG. 2

IPA NO.	62888
MAX. SASH WEIGHT KG	70
MAX. FRAME HEIGHT MM	1400
SCREW	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 AND THE HOLE IN THE SIDE PART OF THE ALU-RAIL. OPEN THE FITTING AND FASTEN THE REMAINING SCREWS.
2. PUSH THE SASH INTO ITS PLACE BY INSERTING IT BETWEEN THE FITTINGS, GUIDED BY THE GROOVES IN THE SASH, TILL THE SASH HITS THE STOPS OF THE FITTING. FASTEN THE FITTING STARTING WITH THE SCREW IN THE STOP BRACKET. FINALLY FASTEN THE STOP IN THE ALU-RAIL.
3. NOW THE FRICTION MAY BE ADJUSTED BY MEANS OF THE SCREWS IN THE SLIDES. WHEN ADJUSTING MAKE IS SO, THAT THE TOP GLIDER MOVES FIRST DOWN TO THE STOP. THE BEST RESULT FOR THE WINDOW MOVEMENT IS ACHIEVED BY EQUAL FRICTION AT EITHER SIDE.
4. THE SASH CAN BE ADJUSTED  $\pm 1.5$  MM UP OR DOWN. BEFORE ANY ADJUSTMENT THE MOUNTING SCREWS IN THE BOTTOM IN EACH SIDE OF THE FRAME HAVE TO BE LOOSENED. THEN ADJUST BY USING A TORX-20 KEY TO TURN THE ECCENTRIC PIN. BY DELIVERY THE MARK ON THE ECCENTRIC PIN 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. AFTER THE ADJUSTMENT THE MOUNTINGSCREWS IN THE BOTTOM OF EACH SIDE ARE FASTENED.

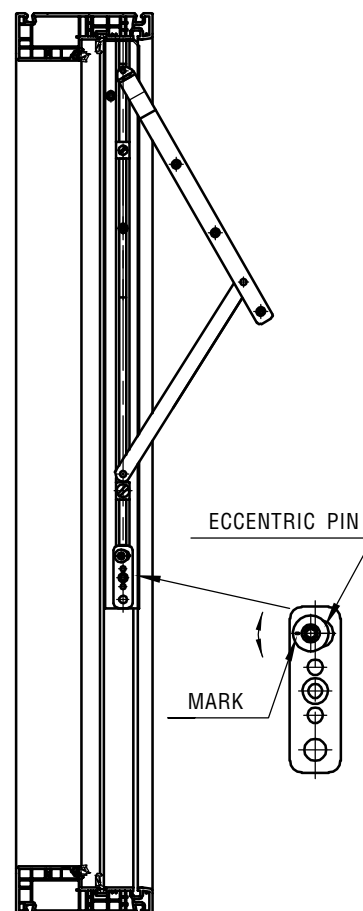


FIG. 3

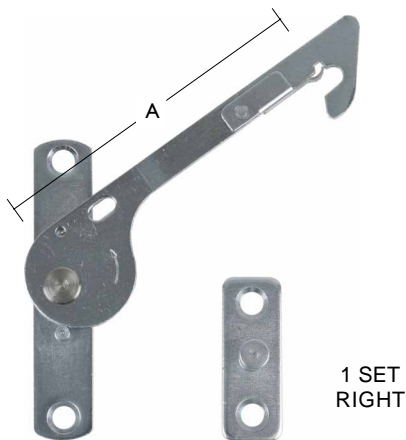
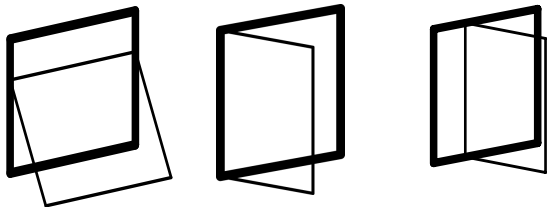
## MAINTENANCE:

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 28 - 29.



# SAFETY CATCH

IPA No. 62836



ORDERING NO.								
IPA NO.	MATERIAL			SURFACE	STANDARDPACKING IN BOXES OF 5 SETS	ANM	SCREW	APPROX. WEIGHT KG / SET
	STEEL	LEFT	RIGHT	ELECTROPLATED				
62836	1	7	8	21	1	88	4,0	0,06



IPA No. 62836

# FITTING INSTRUCTIONS

REHAU NORDIC DESIGN PLUS:

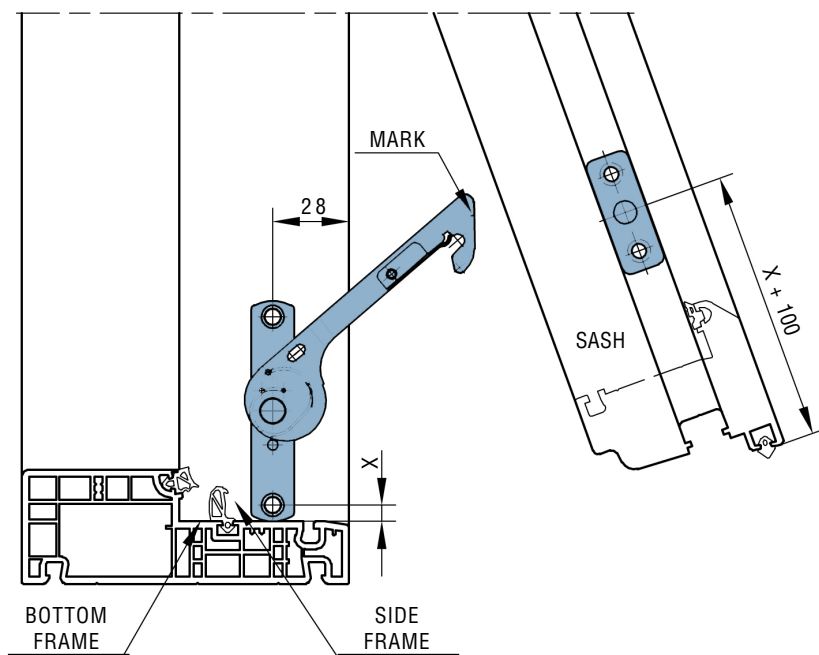


FIG. 1  
RIGHT HAND ILLUSTRATION

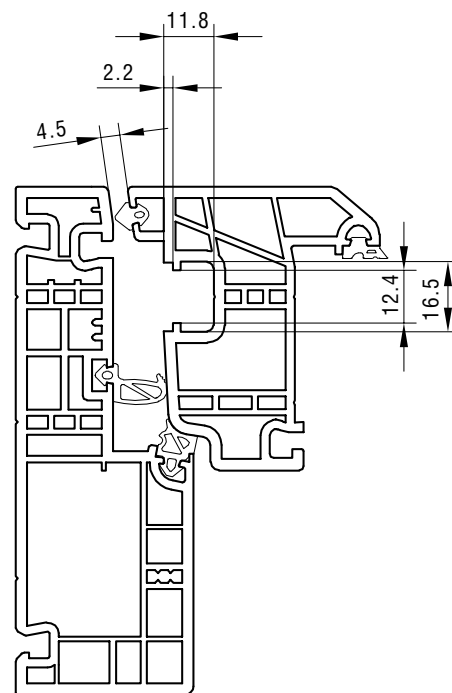


FIG. 2  
IPA NO. 62836

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/BOTTOM FRAME ON THE OPPOSITE SIDE OF THE HINGES AND THE RECEIVER IS PLACED IN THE TOP/BOTTOM SASH OPPOSITE THE HINGES.

X-DIMENSION IS OPTIONAL. 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 IN THE DIRECTION OF THE ARROW AS YOU OPEN THE WINDOW.
4. WHEN THE WINDOW IS CLOSED THE RESTRICTOR RE-ENGAGES AUTOMATICALLY.

USE SCREW NO. 4.0

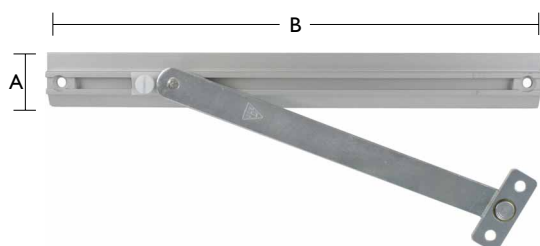
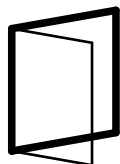
## MAINTENANCE:

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 28 - 29.



# FRICTION STAY for windows

## IPA No. 62827



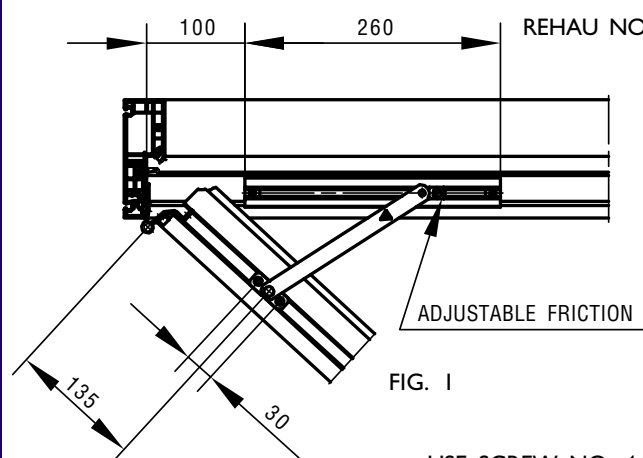
ORDERING NO.										
IPA NO.	MATERIAL			SURFACE	STANDARD PACKING IN BOXES OF 25 PCS.	A MM	B MM	MATERIAL MM	SCREW	APPROX. WEIGHT KG / PC.
	STEEL	LEFT	RIGHT	ELECTROPLATED						
62827	1	7	8	21	1	30	260	17X3	4,0	0,15

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



## IPA No. 62827

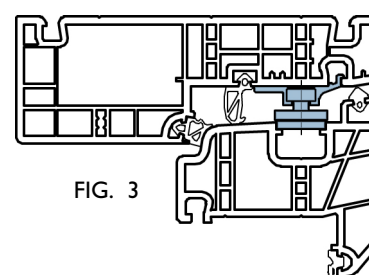
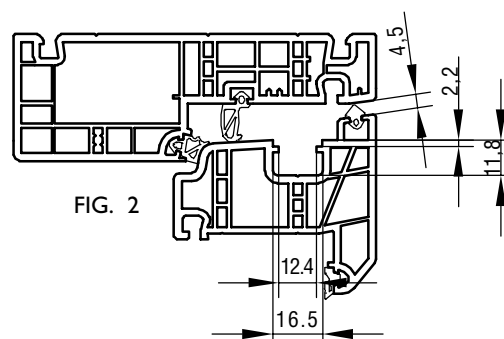
# FITTING INSTRUCTIONS



USE SCREW NO. 4.0

### MAINTENANCE:

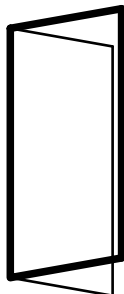
THE FITTING ARE NOT TO BE PAINTED. TEST THE OPERATION FROM TIME TO TIME. WHEN MOUNTING - LUBRICATE THE PIVOT/MOVABLE METAL PARTS OF THE MECHANISM WHILE ACTIVATING REPEATEDLY. HERAFTER LUBRICATE MINIMUM TWICE A YEAR. DO NOT LUBRICATE THE ALUMINIUM RAIL. SEE ALSO INSTRUCTIONS ON PAGE 28 - 29.



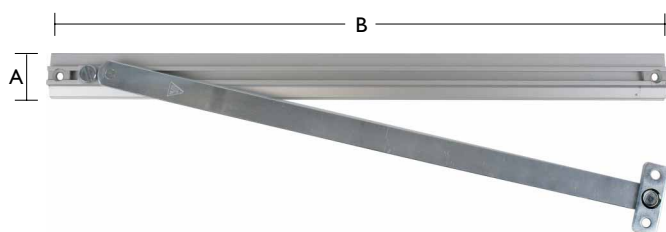


# FRICTION STAY for doors

IPA No. 63811



ORDERING NO.											
IPA NO.	MATERIAL			SURFACE	STANDARD PACKING IN BOXES OF 10 PCS.	A MM	B MM	MATERIAL MM	SCREW	APPROX. WEIGHT KG / PCS.	
	STEEL			ELECTROPLATED							
63811	1	7	8	21	1	30	400	17X3	4,0	0,24	



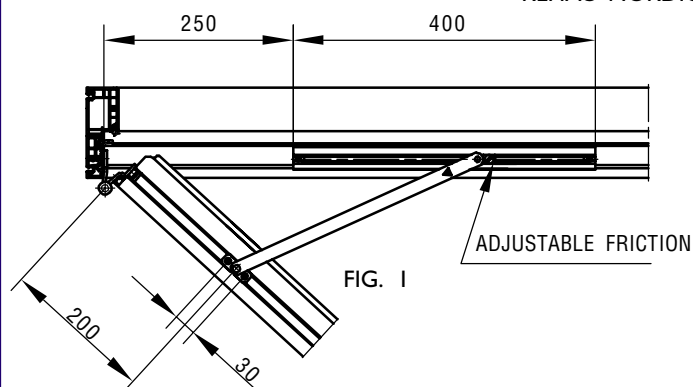
- CONCEALED FITTING
- OPENS UP TILL 100°
- FRICTION IN ALL POSITIONS
- ADJUSTABLE FRICTION
- ANODIZED ALUMINIUM RAIL



IPA No. 63811

## FITTING INSTRUCTIONS

REHAU NORDIC DESIGN PLUS:



USE SCREW NO. 4.0

### 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 28 - 29.

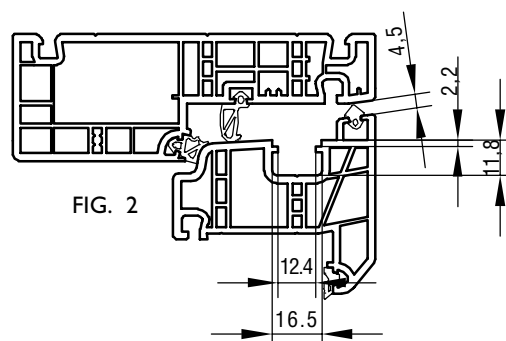


FIG. 2

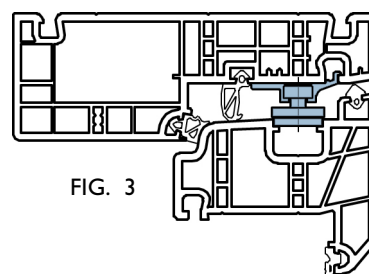


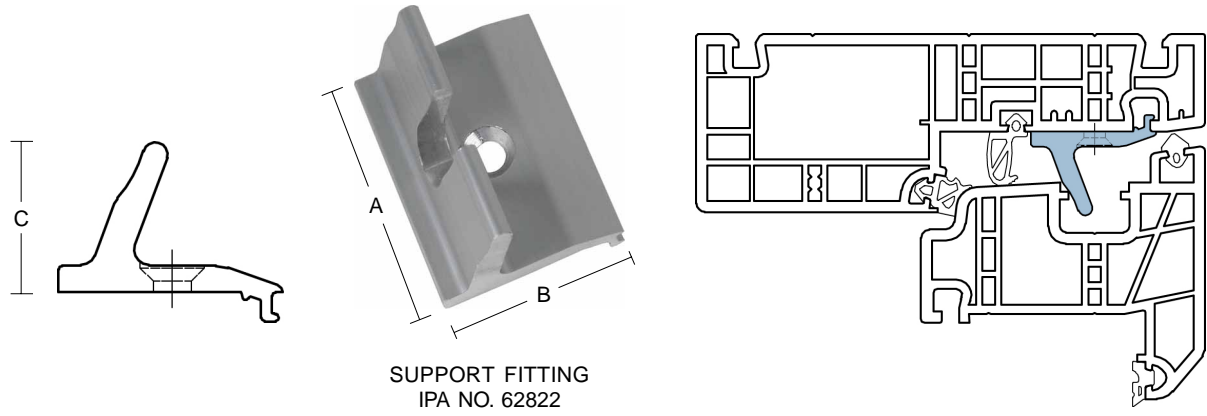
FIG. 3



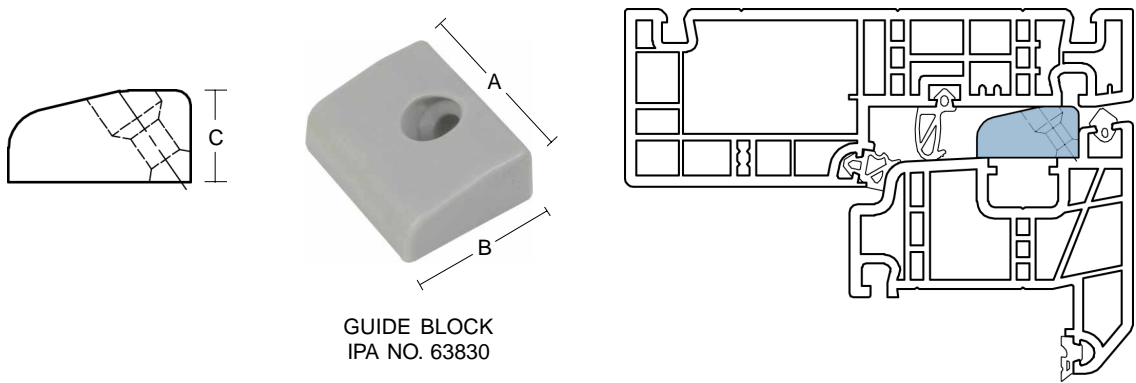


# ACCESSORIES

## IPA No. 62822 & 63830



SUPPORT FITTING  
IPA NO. 62822

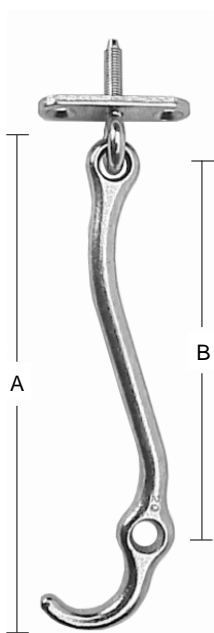


GUIDE BLOCK  
IPA NO. 63830

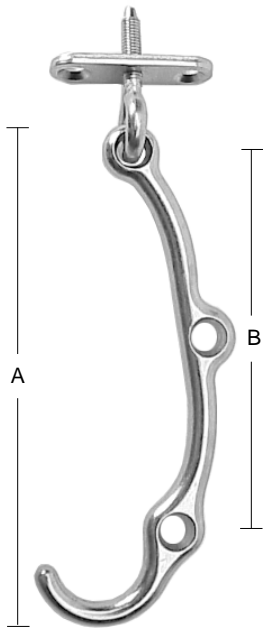
ORDERING NO.												
IPA NO.	MATERIAL		W/O SPECIFICATION	SURFACE		STANDARD PACKING IN BOXES OF 20 PCS.	STANDARD PACKING IN BOXES OF 25 PCS.	A MM	B MM	C MM	SCREW	APPROX. WEIGHT KG / PC.
	ALUMINIUM	PLASTIC		ANODIZED	WHITE							
62822	0	-	0	00	-	-	1	40	29,4	19,8	4,0	0,02
63830		9	0	-	56	1	-	30,3	24	12	4,0	0,01



# CASEMENT HOOKS & CASEMENT FASTENERS

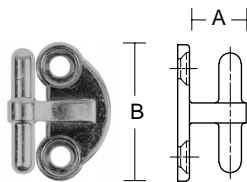


IPA NO. 21371

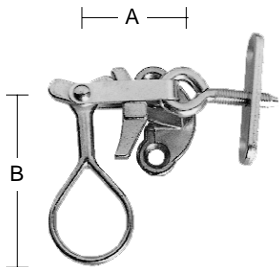


IPA NO. 21379

ORDERING NO.											
IPA NO.	MATERIAL	WITHOUT SPECIFICATION	SURFACE			STANDARDPACKING IN BOXES OF 50 PIECES	INDUSTRYPACKING IN BOXES OF 250 PIECES	A MM	B MM	HOLE FOR PIN MM	APPROX. WEIGHT KG / 100 PIECES
	ZINKALLOY		ELECTROPLATED / WHITE	ELECTROPLATED	ELECTROPLATED YELLOW						
21371	0	0	06	21	25	-	2	130	95	6	6,0
21379	0	0	-	21	25	1	-	120	93	6	5,6
	0	0	06	21	25	-	2				



IPA NO. 21382



IPA NO. 21396

ORDERING NO.														
IPA NO.	MATERIAL	WITHOUT SPECIFICATION	SURFACE			STANDARD PACKING IN BOXES OF 50 PIECES	INDUSTRY PACKING IN BOXES OF 200 PIECES	INDUSTRY PACKING IN BOXES OF 500 PIECES	A MM	B MM	EYE SCREW M5 x (MM)	PIN MM	SCREW	APPROX. WEIGHT KG/100 PCS.
	STEEL		ELECTROPLATED / WHITE	ELECTROPLATED	ELECTROPLATED YELLOW									
21382	1	0	-	21	25	1	-	-	13,3	34	-	5,6	3,5	0,75
	1	0	06	21	25	-	2	-						
21396	1	0	06	21	25	-	-	2	24	50	20	-	3,5	5,0



# FITTING INSTRUCTIONS

## IPA NO. 21371 + 21379 + 21382

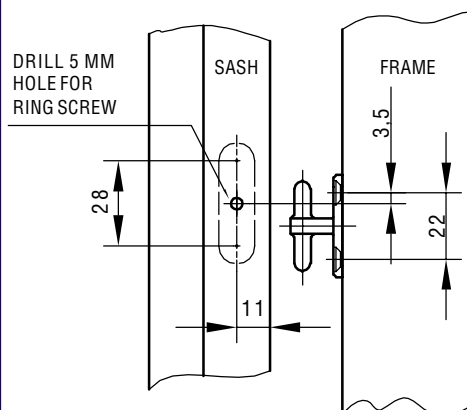


FIG. 1  
IPA NO. 21382

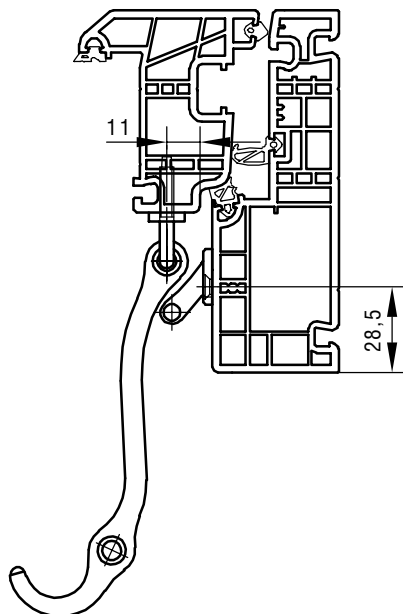


FIG. 2  
IPA NO. 21371 WITH 21382

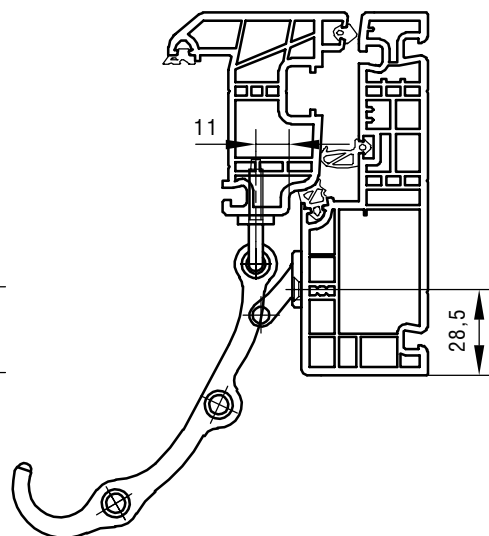
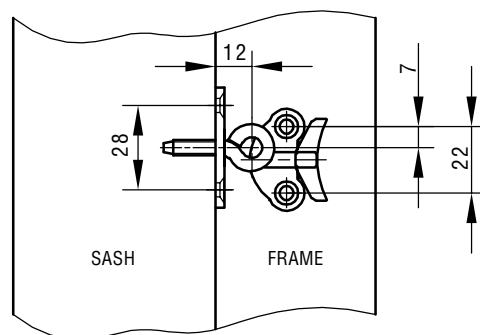
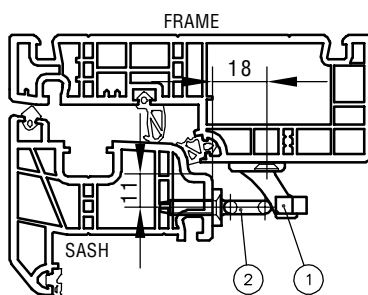
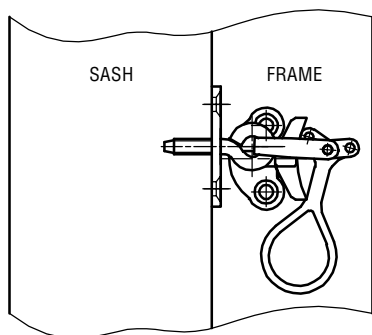


FIG. 3  
IPA NO. 21379 WITH 21382

## IPA NO. 21396

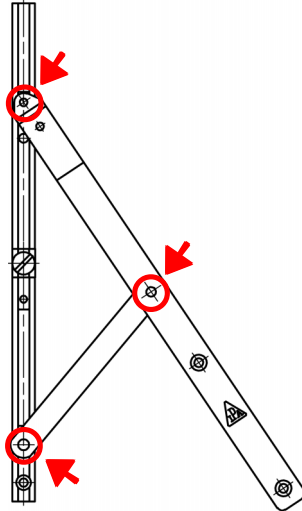


### MONTERUNG:

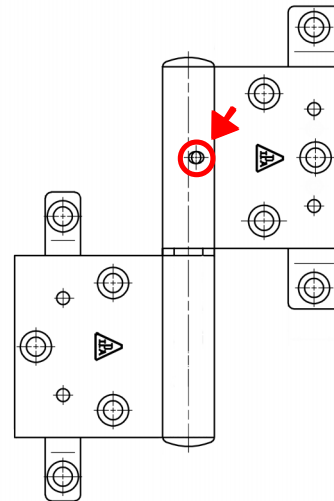
1. MOUNT THE RECEIVER (1) IN THE WANTED HEIGHT ON THE SIDEFAME.
2. FOR CASEMENT FASTENERS WITH SCREW PLATE (2) MEASURE PRECISELY ON THE SASH AND DRILL A 5 MM HOLE FOR THE RING SCREW. MARK UP THE 2 SCREW HOLES ON THE SCREW PLATE AND FASTEN THE CASEMENT FASTENER..



# MAINTENANCE LUBRICATION INSTRUCTIONS



IPA NO. 62844-52  
IPA NO. 62886  
IPA NO. 62888-89  
IPA NO. 62896-97



IPA NO. 61874  
IPA NO. 60898

**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 aluminium rails.

**ESPAGNOLETTES 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.**

# NOTES

[illegible]





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

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[ipa@ipafittings.com](mailto:ipa@ipafittings.com)