

- **DIN EN ISO 14001**
- Certified Management System

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Quality and innovation for closing systems



**ADJUSTABLE CLAMP-IN HEAVY DUTY HINGES RANGE 1148/.3** 

- > Stainless steel counterplates for a new fastening, with quick and precise installation also with doors already installed
- > Easy and independent adjustments
- > Carrying capacity verified according to EN 1935:2002 standard
- > Suitable to all door profiles with standard groove



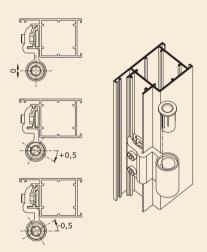


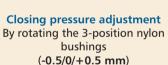
# MECHANICA by SAVIO

we have attained the most challenging record of all: ...simplicity!

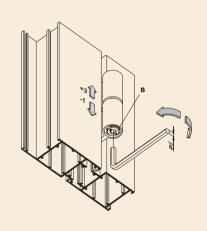
EASY AND INDEPENDENT A D J U S T M E N T

# 2 WINGS

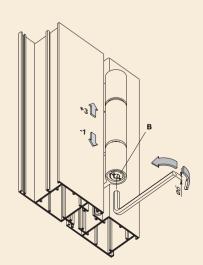


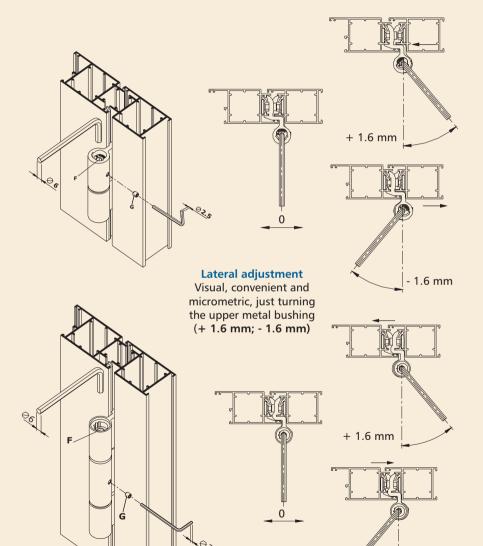






Vertical adjustment
By the easy rotation of the
grub screw and with door
already installed (-1/+3 mm)



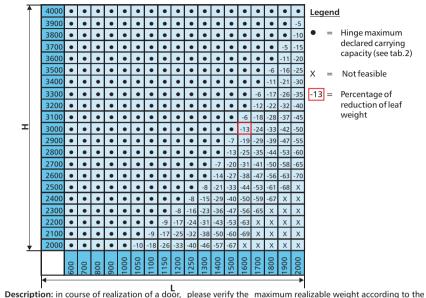


- 1.6 mm

### CAPACITY DIAGRAM CARRYING

### ACCORDING THE STANDARD EN 1935:2002

Table n°1 - Percentage of reduction of leaf weight, according to leaf dimension



leaf dimension (Tab. 1) and to the carrying capacity of the hinge (Tab. 2) you intend to use. In case it should result in the table 1 a negative number, it will be necessary to reduce of this percentage the maximum weight of the leaf in order to obtain a correct installation.

> Eg. Door dimentions H=3000 mm L= 1600 mm with hinge art. 1145/60 2 hinges 160 Kg. - 13% = Max. 139 Kg. 3 hinges 180 Kg. - 13% = Max. 157 Kg.

Table 2 - Summary of MECHANICA carrying capacities

3 HINGES	2 HINGES	3 WINGS		2 WINGS		
		1145.3/67	1145.3/60	1145/67	1145/60	
180 Kg	160 Kg	1146.3/62,5	1146.3/59	1146/62,5	1146/59	
		1146.23/62	1146.3/67	1146.2/62	1146/67	
140 Kg	120 Kg	1145.3/79	1143.36	1146/74,5	1145/79	
140 Kg	120 Kg	1146.3/78	1146.3/74,5		1146/78	
		1146.3/84	1145.3/93	1145/93	1145/86	
120 Kg	100 Kg	1146.3/92	1146.3/89	1146/84	1145/93SM	
			1148.3	1146/92	1146/89	
100 Kg	80 Kg			1148	1145/53	
100 Kg	80 Kg					
80 Kg	60 Kg				1145/60MR	

### Hinges for doors fitted with door closers

Door closers increase the loading on door hinges and their rate of wear. For closers without back-check it is normal to allow for this by assuming the effective door mass to be 20% greater than the actual door mass. For back-check closers the effect is much greater, and the effective door mass is calculated to be 75% greater. Eg. Mass door 100 Kg.

Door closer without backcheck: 100 Kg + 20% = 120 Kg (weight to consider in order to choose hinges) Door closer with backcheck: 100 Kg + 75% = 175 Kg (weight to consider in order to choose hinges)

### **CE CERTIFICATES**



Certificat



Certificate of conformity Appendix (1 page)

SAVIO S n a Date of issue of the certi

Jacques BESLII

identification of certified product (Ref)			Use of product
INCOME.  INC	477014014 477014114 477014114 477014114 477014114 477014114 477014114 477014114 477014114 477014114 477014114 477014114 477014114 477014114 477014014 477014014 477014014 477014014 477014014	52	Serviceability on door unit on evacuation routes

### **MECHANICA ART. 1148 - 1148.3**

Cam device bushing: it allows an easy lateral adjustment without changing gaskets pull-in pressure.

Self lubricating eccentric bushing: gasket pressure adjustable by bushing positioning.

Conditions and validity period of certificate

of the certificate:

event of nonconformity.) It cancels and replaces the certificate of : 26/11/2004

Vertical grub screw: for easy vertical adjustment.

Semispheric pin with thrust bearing effect: even very high axial loads produce low rotation stress and

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friction.

Counterplates: in stainless steel, with toothed indentations for a new fastening also when the door is already mounted.

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Anchoring counterplates with a patented indentation: to avoid the vertical sliding of the hinge.

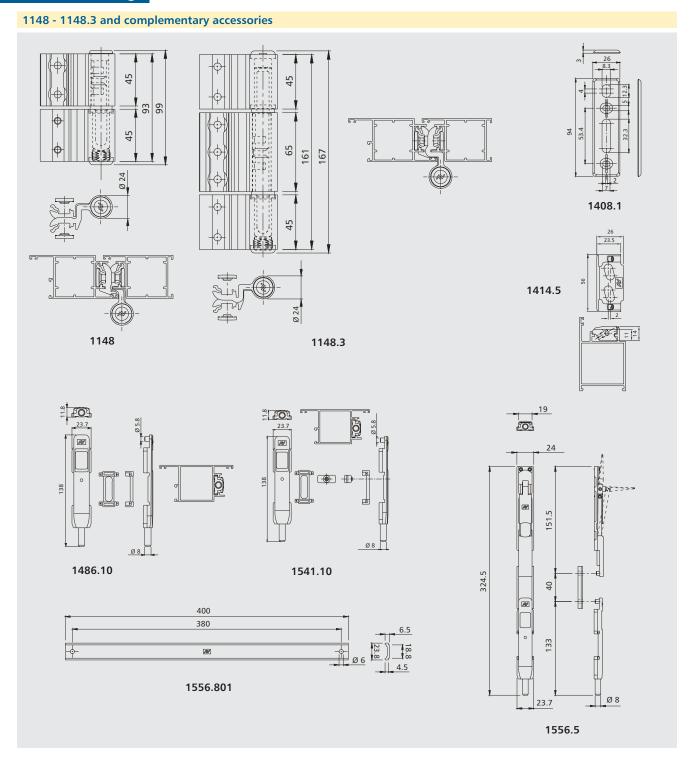
Monolithic teeth:

constant axial grip of the hinge on the profile.

Stainless steel screws: for a better torque.

## Clamp-in hinge MECHANICA (patented) 2-wing adjustable clamp-in hinge made of 1148 aluminium, centre of rotation 15.5 mm, 2 quick clamping counterplates, 4 socket head cap screws M6x16 and 1 grub screw M5x6 in stainless steel, 1 pre-assembled stainless steel 1013, 1247, 9005, pin Ø 10 mm on black galvanized zamak cam bushing device, 2 9010, 9660, B.SA, nylon caps, 1 nylon self-lubricating bushing, 1 zamak C, F, NE, ZE adjustment grub screw. Carrying capacity: 2 hinges 80 Kg, 3 hinges 100 Kg 1148.3 (patented) 3-wing adjustable clamp-in hinge made of aluminium, centre of rotation 15.5 mm, 3 quick clamping counterplates, 7 socket head cap screws M6x16 and 1 grub screw M5x6 in stainless steel, 2 pre-assembled stainless steel pins Ø 10 mm on black galvanized zamak cam bushing device, 10 1013, 9005, 9010, 2 nylon caps, 2 nylon self-lubricating bushings, 1 zamak adjustment grub screw. Carrying capacity: 2 hinges 100 Kg, 3 hinges 120 Kg. 1408.1 Floor Keeper in stainless steel 430. 100 1414.5 Adjustable double keeper in black galvanized zamak for door profiles, 2 preassembled grub screws M5x12 in stainless steel. 1486.10 Terminal rod closing piece in black galvanized zamak with top end in stainless steel 430, for door profiles, 1 nylon adapter. (patented) Short bolt (travel 22 mm) in black galvanized zamak with top end in stainless steel 430, for door profiles, zamak stroke-end block with preassembled grub screw M5x10 in stainless steel and 1 nylon adapter. 1556.5 (patented) Door lever bolt (travel 22 mm) in zamak, nylon, galvanized steel and stainless steel 430, 1 extension rod and 1 adapter in nylon. 20 1556.801 Polyamide extension rod for bolt art. 1556.5. 100

### - Technical drawings



### Suitability

### Suitability table for italian profiles

Extruder	Profile	1148 - 1148.3	1408.1	1414.5	1486.10	1541.10	1556.5	1556.801
ALEXIA	ESEDRA DOORS 56	•						
	ESEDRA DOORS 56 TT	•						
SUI	TABLE TO ALL PROFILES		•					

