DOM®

Technical catalogue

Trapped key locking system

RONIS®

Main features

Specially designed for cabinets and boxes of nuclear new-generation EPR, the RONIS new product range offers optimum safety and user comfort in these high-risk environments. Its new patented **“captive key"** can, in the open position :

- Maintain the trapped key
- Prevent the handle from being returned to its housing

The key can then be removed once the **door is closed** and locked for optimum security.

The spring mounting of the locks allows them to automatically open when unlocked enabling ease of use.

Our entire range is classified as **IP65**. Our locks have a higher resistance to water and dust penetration which gives them durability and reliability over the longer term.

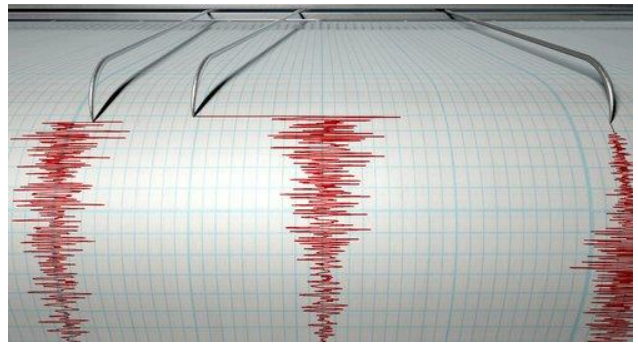
The EPR product range has the following characteristics:

- **1000 combinations** available for KM profile
- Available combinations EDF 1610 / 1620 / 1630 / 1640 / 1650
- **Standard fixing hole** from our industrial application range
- Available in **1 or 3 points** of locking
- Master key available
- Delivery **ready to be fitted** with accessories (screws, washers, pins fixation rods, clips, steel striker 3mm)
- Available with **padlock application**

Certifications

Nuclear installations are subject to the laws from **10th May 1993** on seismic regulations. Each geographical area is defined as "Séisme Majoré de Sécurité " (SMS).

The equipment must resist this SMS.



Our range is certified **"K3 ensemble"** for EDF cabinets and enclosures

Various tests were performed to characterise the **reliability** of our products:

- Seismic tests
- Accelerated aging tests at 60: oven with climate variations (wet heat, dry heat, hot, cold ...)
- Mechanical (seismic) tests

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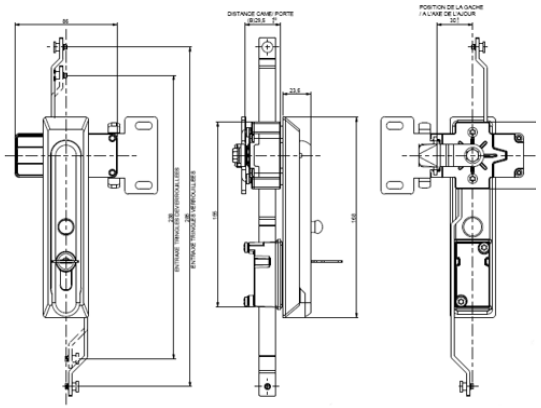
Range of products

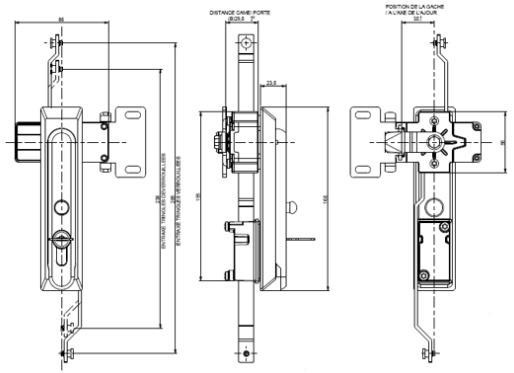
Handle 102 :

- Body: **Polyamide PA6**
- Cylinder: Zamak
- Seal: Polyurethane
- Mechanism: Zamak, Steel
- Available Left hand / Strike Right or Right hand / Strike left



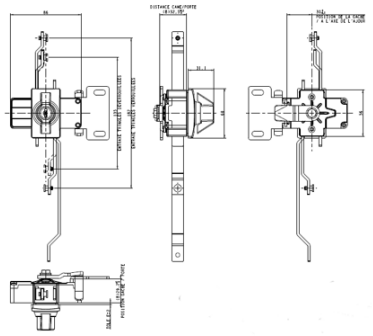
Handle 402 :

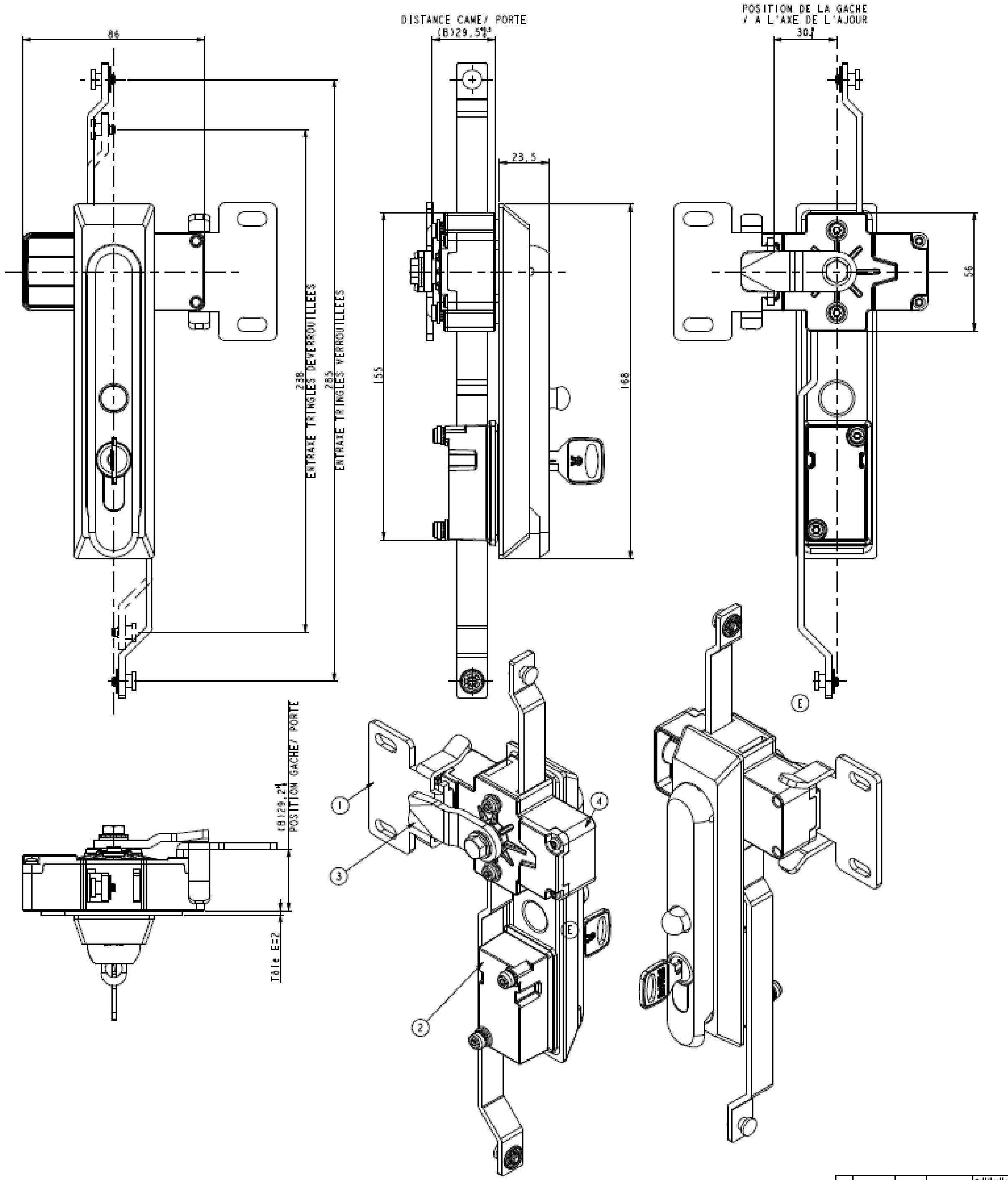
- Body: **Stainless steel**
- Cylinder: Zamak
- Cam : Steel
- Seal: Polyurethane
- Mechanism: Zamak, Steel
- Available Left hand / Strike Right or Right hand / Strike left

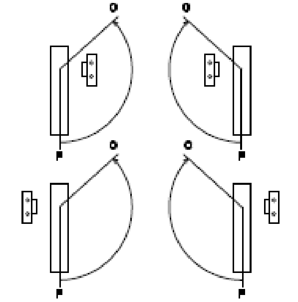


Wing knob 103 :

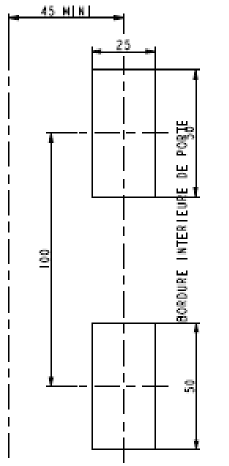
- Body: **Zamak**
- Knob: Zamak
- Barrel: Zamak
- Cam: Steel
- Seal: Polyurethane
- Mechanism: Zamak, Steel
- Available Left hand / Strike Right or Right hand / Strike left





E		
402-S-KM-00-05 102-S-KM-00-05		402-S-KM-00-06 102-S-KM-00-06
402-S-KM-00-08 102-S-KM-00-08		402-S-KM-00-07 102-S-KM-00-07

REFERENCE	ECHELLE 0,360 DESIGNATION
Poignée inox 402-S-KM-00-05 Poignée polyamide 102-S-KM-00-05 Combinaison à préciser	Poignée escamotable 3 points Clé prisonière Ouverture main gauche / rotation droite Gâche à droite
Poignée inox 402-S-KM-00-06 Poignée polyamide 102-S-KM-00-06 Combinaison à préciser	Poignée escamotable 3 points Clé prisonière Ouverture main droite / rotation gauche Gâche à gauche
Poignée inox 402-S-KM-00-07 Poignée polyamide 102-S-KM-00-07 Combinaison à préciser	Poignée escamotable 3 points Clé prisonière Ouverture main gauche / rotation gauche Gâche à droite
Poignée inox 402-S-KM-00-08 Poignée polyamide 102-S-KM-00-08 Combinaison à préciser	Poignée escamotable polyamide 3 points Clé prisonière Ouverture main droite / rotation droite Gâche à gauche



COTE AJOUR
TOLE E=2 mm

Notice de montage référence 199 561 000

REFERENCE	PROFIL	Embout	Barillet de base	MATIERE	ETAT
-	-	-	-	-	-

PROJET 7643
DATE 15/05/2008
DESSINE S.Répond
VERIFIE

PAR DEFAUT, COTES POUR PIECE FINIE TRAITEE.

POIGNEE ESCAMOTABLE

4889-02 | DMF | G

Handle Assembly

1 /Choice striker
DOM Ronis can provide the strike "1" as described below on request.

2/ Strike positioning and fixing
CAUTION: The position of the striker must be done accurately with regards to the axis of the handle and its fixing hole, as well as the bearing surface of the boxes on the inside of the door, thereby locking and unlocking the system. In order to fine tune the position of the striker, it is highly desirable to choose a technology for assembly such as screwing.

3/ Type of cam
The length of the cam "3" will be defined according to the position of the handle.
When closing it will preferably be supported on the fixed part of the cabinet.

4/ Torque screws
All screws will be fitted with Nord-Lock washers to overcome the potential vibration problems.
The fixing screws attaching the upper case "4"and lower "2" on stainless steel handles are tightened with a torque from 2,5 to 3,5Nm maximum.
M4.5 fixing screws of the upper case "4" on the plastic handles are tightened with a torque from 2,5 to 3Nm maximum.
M4 fixing screws of the lower case "2"on the plastic handles are tightened with a torque from 0,8 to 1,2Nm maximum.
The screws for attaching the upper case "4" on zamak buttons will be tightened with a torque of 5 Nm maximum.
The screw fixing cam "3 " will be tightened with a torque of 5 to 7Nm maximum.

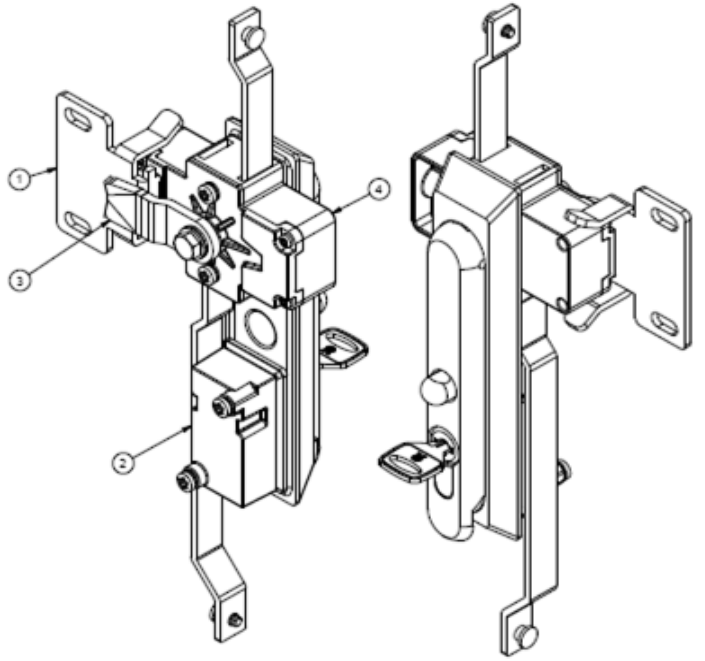
5/ Assembly orientation
The upper case "4" is delivered in the closed position, the handle will be assembled in parallel to its housing

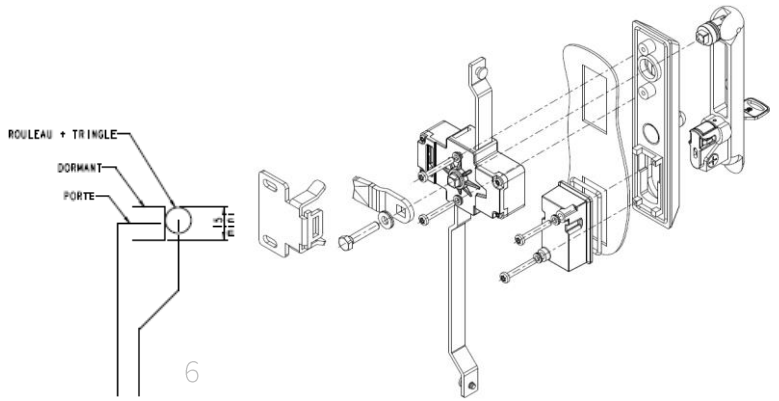
6/ Thickness support
The thickness of the steel support does not exceed 2.5 mm.

7/ Double door cabinets
We draw attention in the case of mounting on a double door, to the fact that it is essential to secure the second door by a latch to avoid damaging the strike when opening the cabinet.

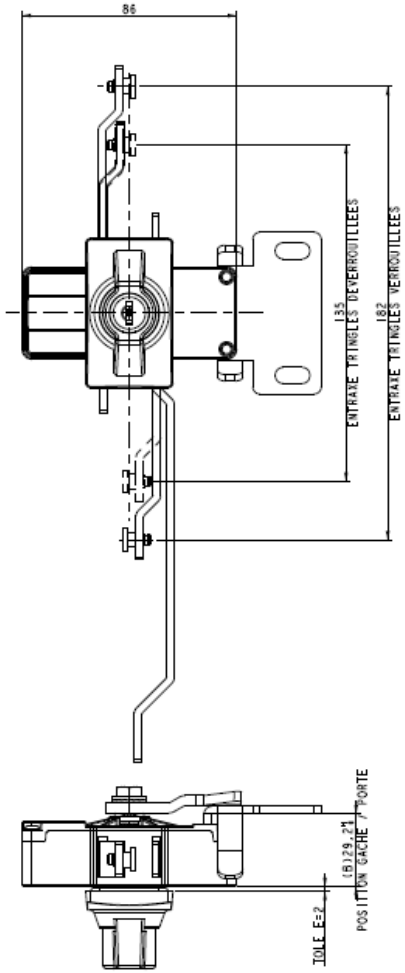
8/ Locking rods (see drawing)
To ensure optimal functioning without degrading the system you need a minimum displacement of 15 mm rolls rod relative to the fixed sash.
It should not be possible to fold the handle while the rods are not in a position to be locked,
it should act as a stop on the fixed sash to ensure correct locking positioning of the door and in order to avoid a collision system with the strike.

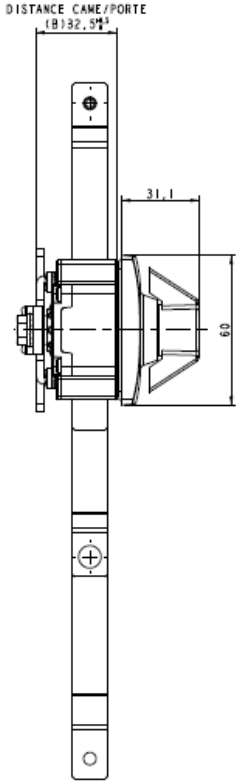
9/ Grounding
On plastic handles, the lower lid "2" needs to be grounded by a ground wire connected to the screw and connected to the cabinet. The thickness of the ground wire should not exceed 2mm. It is recommended to add a flat washer of 0,5mm thickness maximum between ground wire and Nord-lock washer.

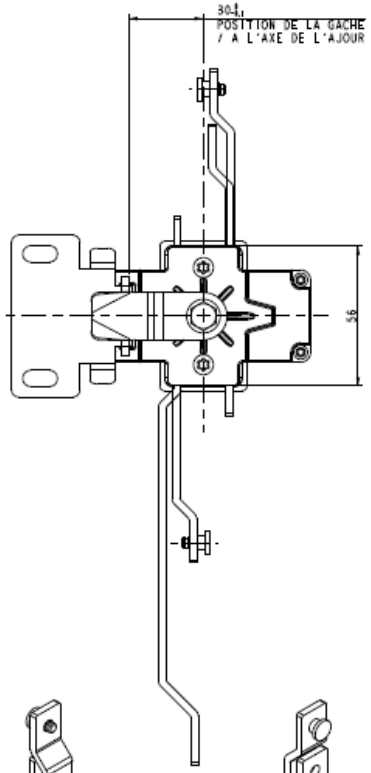




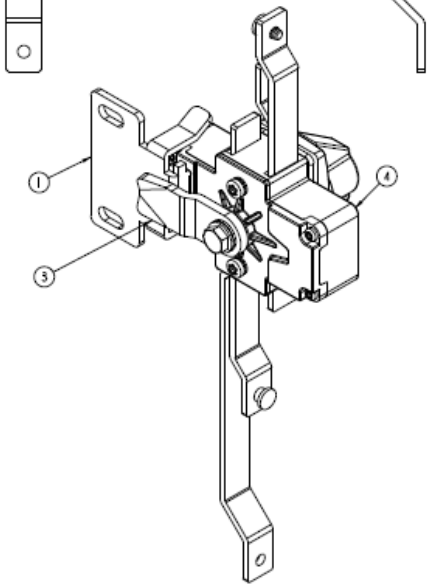
6

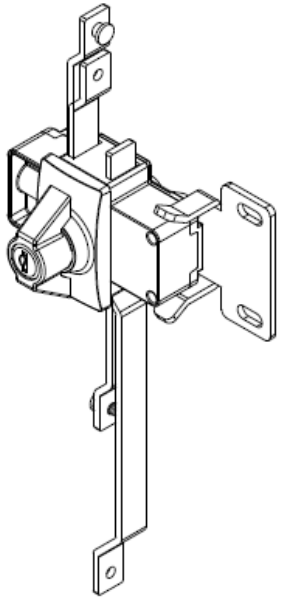


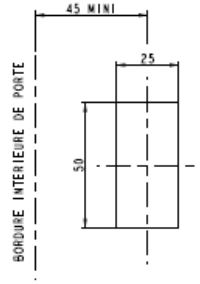




REFERENCE	DESIGNATION
103-S-KM-02-01 Combinaison à préciser	Bouton papillon zamak 3 points Clé prisonière Ouverture main gauche Gâche à droite
103-S-KM-02-02 Combinaison à préciser	Bouton papillon zamak 3 points Clé prisonière Ouverture main droite Gâche à gauche







COTE AJOUR
TOLE E=2 mm

B	02/09/2008	4889-04	S.Rimaud	Modification de la cotation de la gâche ainsi que de sa référence. 32,5 était 20,5 / 29,2 était 25,2
A	15/05/08	4889-02	S.Rimaud	Diffusion du plan
IND	DATE	CMF	MODIFICATION	NATURE DE MODIFICATION

PROJET	7643
DATE	15/05/08
DESSINE	S.Rimaud
VERIFIE	

voir tableau	XXX	
REFERENCE	MATIERE	FEUILLE 1/3

PAR DEFAUT, COTES POUR PIECES FINIES TRAITEES.

BOUTON PAPILLON

RONIS

CREATION CMF N° 4889-02

INDICE B

Knob assembly

1 /Choice striker
DOM Ronis can provide the strike "1" as described below against the customer's request.

2/ Strike positioning and fixing
CAUTION: The position of the striker must be done accurately with regards to the axis of the knob and its fixing hole, and the bearing surface of the boxes on the inside of the door, thereby locking and unlocking the system.
In order to fine tune the position of the striker, it is highly desirable to choose a technology for assembly such as screwing.

3/ Type of cam
The length of the cam "3" will be defined according to the position of the knob.
When closing it will preferably be supported on the fixed part of the cabinet.

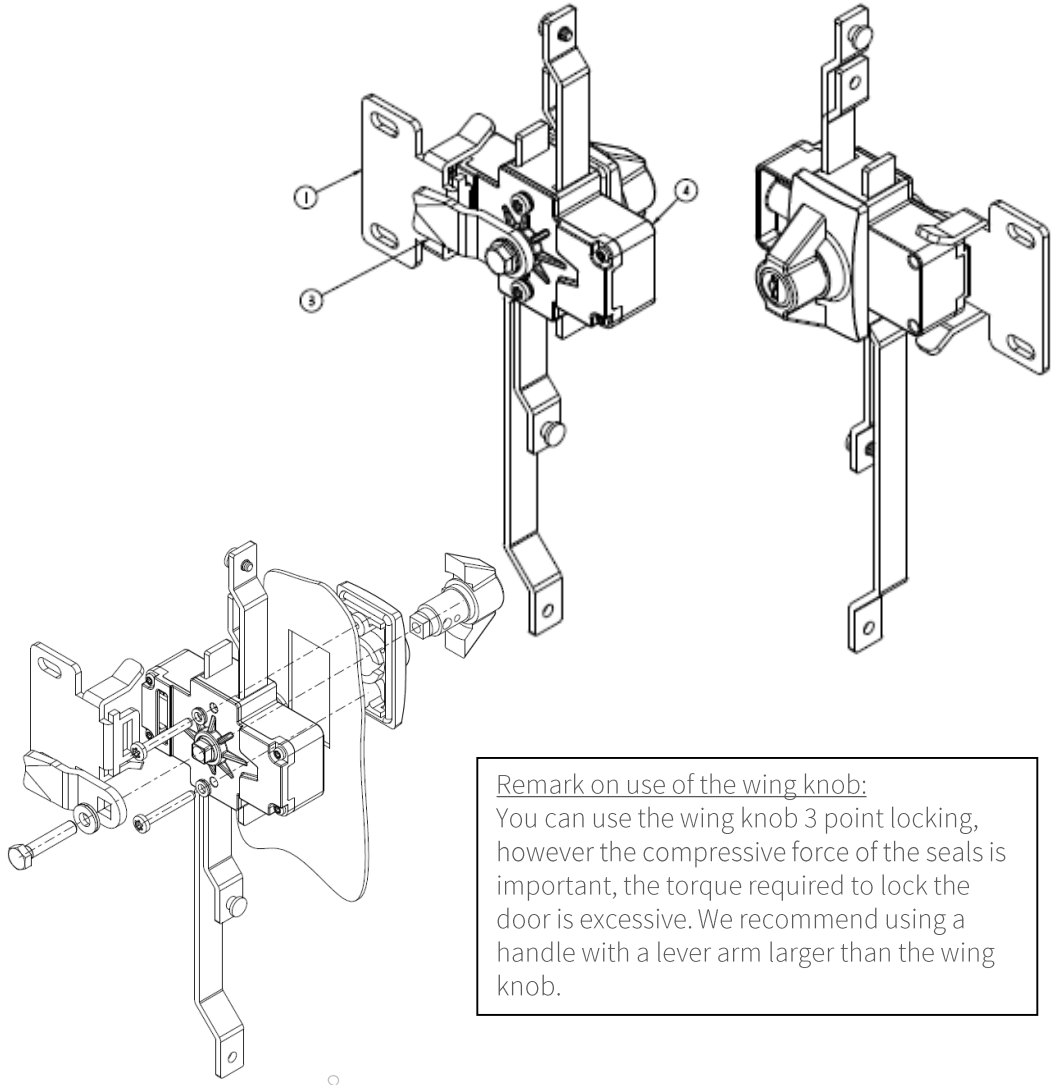
4/ Torque screws
All screws will be fitted with Nord-Lock washers to overcome the potential vibration problems.
The fixing screws attaching the upper case "4" on knobs are tightened with a torque of 5 Nm maximum.
The screw fixing cam "3 " will be tightened with a torque of 10 Nm maximum.

5/ Assembly orientation
The upper case "4" is delivered in the closed position, the knob will be assembled in parallel to its housing.

6/ Thickness support
The thickness of the steel support does not exceed 2.5 mm.

7/ Doubled door cabinets
We draw attention in the case of mounting on a double door, on the fact that it is essential to secure the second door by a latch to avoid damaging strike at the opening of cabinet.

8/ Locking rods (see drawing)
To ensure an optimal functioning without degrading the system you need a minimum displacement of 15 mm rolls rod relative to the fixed sash.
It should not be possible to fold the knob while the rods are not in a position to be locked, it should act as a stop on the fixed sash to ensure correct locking positioning of the door and in order to avoid a collision system with the strike.

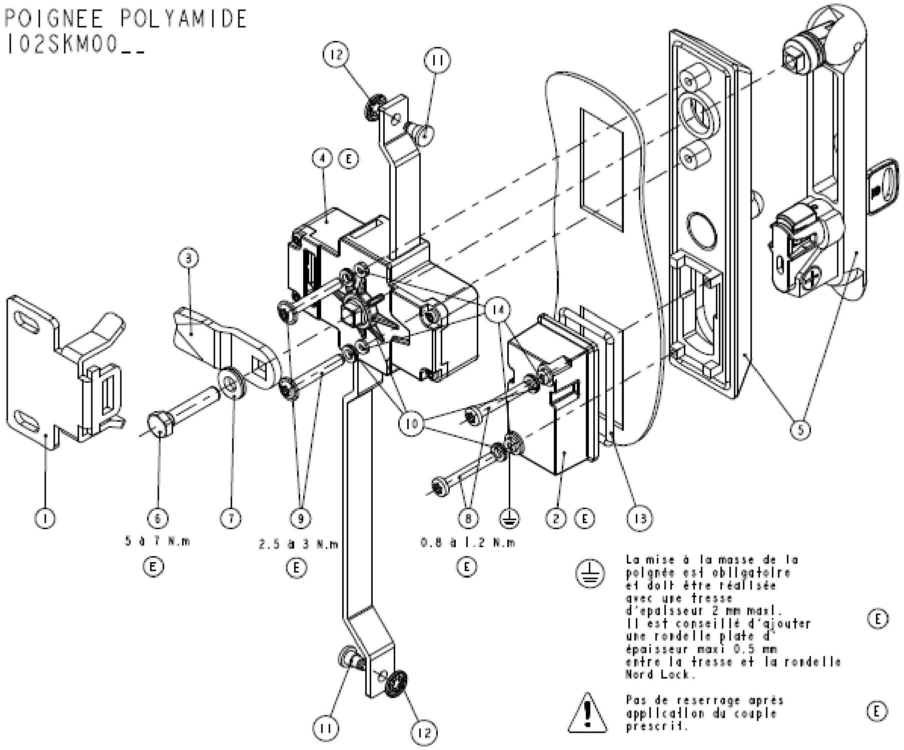


Remark on use of the wing knob:
You can use the wing knob 3 point locking, however the compressive force of the seals is important, the torque required to lock the door is excessive. We recommend using a handle with a lever arm larger than the wing knob.

8

FORMAT D'ORIGINE : A1

POIGNEE POLYAMIDE
102SKM00__



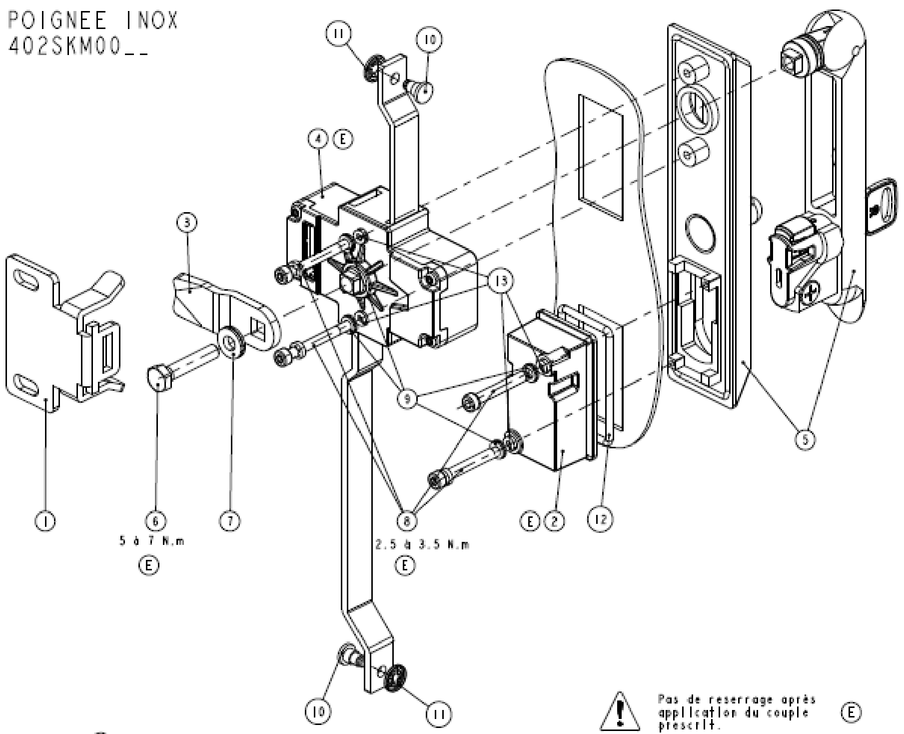
La mise à la masse de la poignée est obligatoire et doit être réalisée avec une tresse d'épaisseur 2 mm maxi. Il est conseillé d'ajouter une rondelle plate d'épaisseur maxi 0.5 mm entre la tresse et la rondelle Nord Lock. (E)

Pas de reserrage après application du couple prescrit. (E)

(E)

Repère	Désignation	Quantité	Couple prescrit	Remarques
1	Gâche	1	-	Présence impérative
2	Boîtier Inférieur	1	-	Présence impérative
3	Came	1	-	Longueur à déterminer
4	Boîtier supérieur	1	-	Présence impérative
5	Ensemble poignée polyamide	1	-	Présence impérative
6	Vis H M6 L30 ISO 4017	1	5 à 7 N.m	Présence impérative
7	Rondelle Nord Lock M6	1	-	Présence impérative sous la vis rep. 6
8	Vis Plastite T45 M4x30	2	0.8 à 1.2 N.m	Présence impérative
9	Vis Plastite T45 M4.5x30	2	2.5 à 3 N.m	Présence impérative
10	Rondelle Nord Lock M4	4	-	Présence impérative sous les vis rep. 8 et 9
11	Axe	2	-	Présence impérative
12	Anneau Self Locking D4	2	-	Présence impérative
13	Joint	1	-	Présence impérative
14	Joint torique Ø3	4		Présence impérative

POIGNEE INOX
402SKM00__



Pas de reserrage après application du couple prescrit. (E)

(E)

Repère	Désignation	Quantité	Couple prescrit	Remarques
1	Gâche	1	-	Présence impérative
2	Boîtier inférieur	1	-	Présence impérative
3	Came	1	-	Longueur à déterminer
4	Boîtier supérieur	1	-	Présence impérative
5	Ensemble poignée inox	1	-	Présence impérative
6	Vis H M6 L30 ISO 4017	1	5 à 7 N.m	Présence impérative
7	Rondelle Nord Lock M6	1	-	Présence impérative sous la vis rep. 6
8	Vis metrique CHC M4x30	4	2.5 à 3.5 N.m	Présence impérative
9	Rondelle Nord Lock M4	4	-	Présence impérative sous les vis rep. 8
10	Axe	2	-	Présence impérative
11	Anneau Self Locking D4	2	-	Présence impérative
12	Joint	1	-	Présence impérative
13	Joint torique Ø3	4		Présence impérative

Notice de montage référence 199 561 000

REFERENCE	PROFIL	Embout	Barillet de base	MATIERE	ETAT
-	-	-	-	-	-
-	-	-	-	-	-

RESERVE OUTILLAGE ET METHODE	Bati concerné	Composant concerné	Numéro de plan	Nbre de pièces par bati ou machine
	-	-	102SKM0005	-

PROJET 7643
DATE 15/05/2008
DESSINE S.Répond
VERIFIE

PAR DEFAUT, COTES POUR PIECE FINIE TRAITEE.

POIGNEE ESCAMOTABLE

CREATION OMF N° 4889-02 — OMF — G

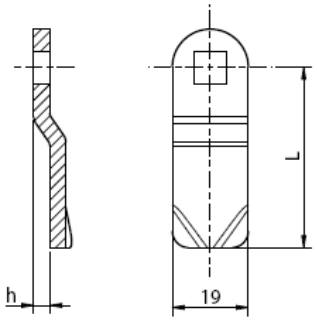
IND	DATE	OMF	MODIFICATEUR	NATURE DE MODIFICATION
G	01/12/2014	5200-02	R.LANDUROUX	Modification des notices suite à l'ajout des joints et à la modification des vis dans les poignées 402 suite à l'amélioration 1765

102SKM0005

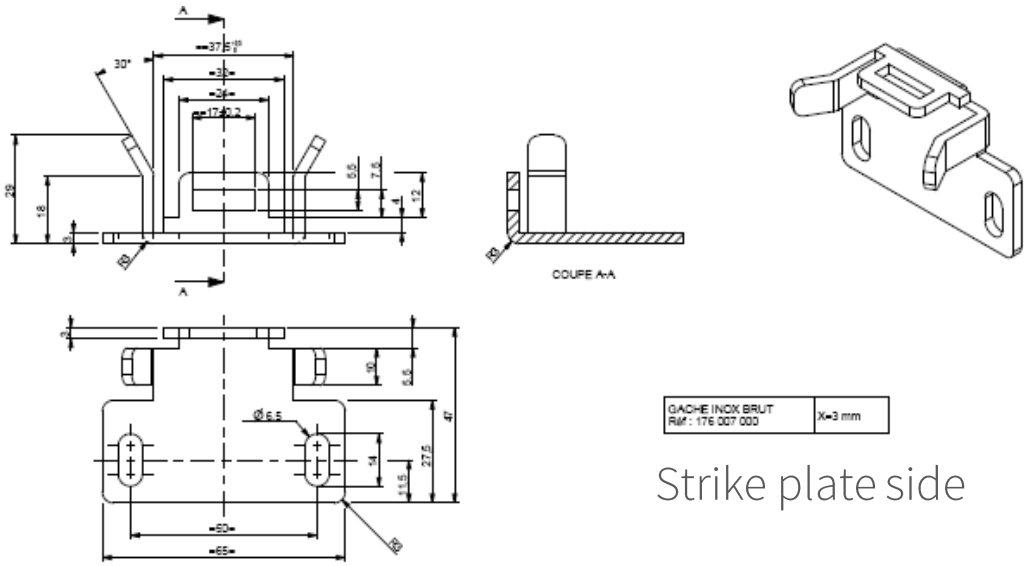
Accessories

Cams:

CAME SANS ERGOT ACIER ZINGUE		
Référence	h	L
133 233 011	-14	45
133 232 011	-12	45
133 231 011	-10	45
133 230 011	-8	45
133 229 011	-6	45
133 228 011	-4	45
133 217 011	-2	45
133 210 011	0	45
133 240 011	0	29
133 200 011	0	38
133 201 011	0	51
133 244 011	0	66
133 245 011	2	45
133 203 011	3	45
133 202 011	3	38
133 243 011	3	51
133 212 011	4	45
133 213 011	6	45
133 241 011	6	37
133 242 011	7	44
133 204 011	7	49
133 206 011	7	54
133 214 011	8	45
133 215 011	10	45
133 205 011	10	48
133 218 011	10	53
133 216 011	12	45
133 219 011	12	70
133 221 011	14	45
133 222 011	16	45
133 223 011	18	45
133 224 011	20	45
133 225 011	22	45
133 226 011	24	45
133 227 011	26	45



Strikes:

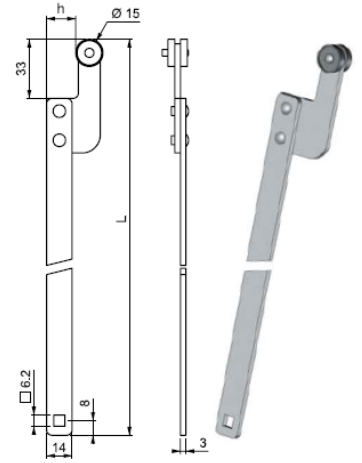


Strike plate side

10

Accessories

Rods:



CODE CODE	h mm	L mm
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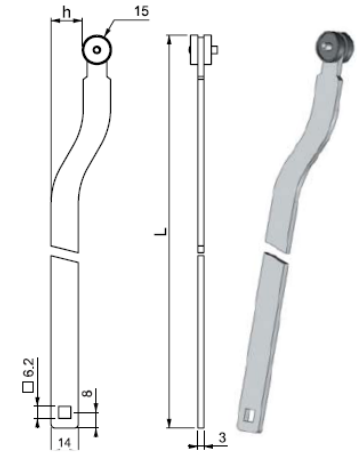
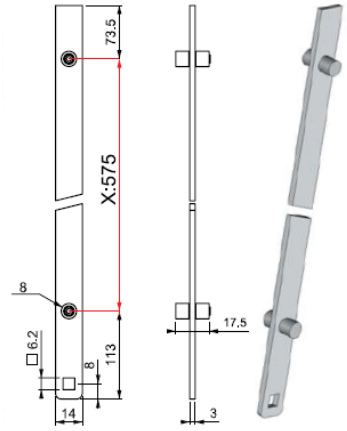
3750005012	21	1020
3750005011	16	1020
3750005010	13	1020



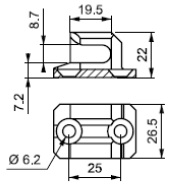
CODE CODE	h mm	L mm
3750005721	21	1020
3750005716	16	1020



CODE CODE	X mm
3750005801	575

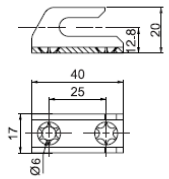
Nous consulter pour autres cotes 'X'
Please consult us for other lenght 'X'

Dual roller catcher :



MATIERE MATERIAL
Zamak DIN-EN 1774-ZnAl4Cu1
Finition : zingué
Finish : zinc plated

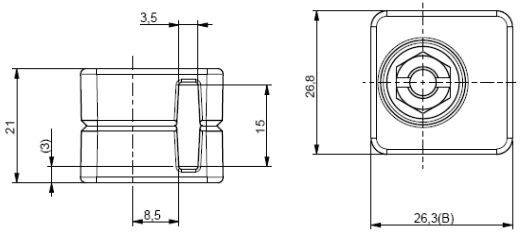
CODE CODE
3750005017



MATIERE MATERIAL
Zamak DIN-EN 1774-ZnAl4Cu1
Finition : zingué
Finish : zinc plated

CODE CODE
3750005025

Flat rod Guide:



REF: 3750005041

Remarks about the accessories

The number of rod guides (see drawing) depend on the length of the rod used.
The minimum establishment of two rod guides is recommended to be a length greater than 500 mm long.
Zamak guide rods specific to this application: Reference 3750005041
The dimension of the cam and rods are defined by the customer.