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OPERATION AND MAINTENANCE MANUAL

Oversize hinged door type mcr ALPE W EI60

Edition 15 – HD

Gdańsk, 11.03.2014

CLIENT:

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Company ASSA ABLOY Mercor Doors sp. z o.o. continues the activity of Mercor SA in the branch of fire partitions. In December 2013 it has become part of international group ASSA ABLOY, a world's leader in locking and doors systems.

With our highly qualified personnel, business know-how and strong technical expertise we offer professional customers service: from customized quotation, through manufacture, to delivery, installation and maintenance service.

The offer of ASSA ABLOY Mercor Doors sp. z o.o. includes:

- Steel hinged doors,
- Steel sliding gates,
- Steel and glass doors and partitions
- Wooden doors
- Fire curtains

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**Producer: ASSA ABLOY Mercor Doors sp. z o.o.,
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**Technical Approval: AT-15-8658/2011+ Aneks nr 1, 2 i 3
Certificate of Conformity: CZ ITB – 2278/W
National Declaration of conformity: 19_KDZ**

1. IDENTIFICATION OF PRODUCT

Doors mcr ALPE W EI60 are double leaf doors, full door leaves or with glazings. ogniowej EI 60.

2. MARKING OF PRODUCT

Doors are equipped with an ID plate with the following information:

- name of producer
- marking of door type
- fire resistance
- series number and production year
- number of certificate
- number of Technical Approval

3. CLEAR PASSAGE SIZE- REGULATIONS

According to Regulations of Ministry of Infrastructure of 12th April 2002 clear passage of doors shall be understood as with door leaf open at 90°

Based on: Bill of Law of Ministry of Infrastructure „On technical conditions for buildings and their location”, Chapter 1, § 9. 1. (Dz.U. nr 75, poz. 690); coming into force on 16th December 2002 r.

4. SAFETY AT WORK

During installation, usage and repairs of fire resistant doors, generally applicable occupational health and safety at work regulations must be complied with.

PLEASE MIND:

Sun and humidity exposure of coating covered with protective film can cause permanent damage. Remove the protective film as soon as the door is fitted.

5. PERIODICAL INSPECTIONS AND MAINTENANCE ACTIVITY

In order to ensure correct operation of fire doors and maintain the rights resulting from the guarantee, the door should be periodically inspected and undergo maintenance at least once every 6 months.

Periodical inspection should consist of:

- Checking of the door operation
- Checking of the gap between the door leaf and the floor (the gap must not exceed 6 mm)
- Checking of the paint coat
- Checking and correcting the fitting of the locks, bolts etc. If necessary
- Checking of the intumescent seal
- Adjustment of door closers
- Lubrication of hinges and other movable elements
- Preparation of the maintenance service protocol

All the worn out or damaged parts should be repaired or replaced

PLEASE MIND: on external doors, at considerable temperature difference on both door sides, there can occur a liquefaction (water drops). This physical phenomenon is not a fault of the provided door and as such shall not undergo the conditions of guarantee.

6. CONDITIONS OF GUARANTEE

1. ASSA ABLOY Mercor Doors provides a 12 month warranty for delivered goods, unless the warranty period is stated otherwise in a separate agreement.
2. In that period any identified defects preventing proper operation of the product will be removed within 21 working days from the notification date
3. The warranty will be automatically extended by the period counting from the day the complaint is made until the warranty period end.
4. Products under guarantee which have defects preventing them to be used shall be replaced.
5. the Guarantee does not cover activities which should be performed by the User and which are described in this Operation and Maintenance Manual.
6. In order to assure proper functionality of doors and retain the guarantee, the door should undergo periodical inspections and perform maintenance procedures at least every 6 months in all exploitation period. The technical inspections and maintenance activities must be performed by a company duly authorised by ASSA ABLOY Mercor Doors.
7. The manufacturer disclaims the warranty and all related obligations if:
 - periodical inspections and maintenance activities are not performed in dates defined in p.6, or are performed by unauthorised persons or service companies unauthorised by ASSA ABLOY Mercor Doors.
 - the product is mechanically damaged as result of improper operation by the User.
 - the User introduced structural changes on his own.
 - Defects occur as result of improper product maintenance (breaching the prescriptions of this manual)
 - Defects occur as result of improper storage and transport
 - Doors are not installed in concordance with this Manual.
 - The ID plate is removed.
8. Missing items and damaged elements shall not be subject to claim and /or to claimed cost, if caused by the User. The Manufacturer shall impose the cost of making and delivery of replaced elements on User, if applicable
9. ASSA ABLOY Mercor Doors gives its warranty for powder coating of produced doors only if the powder coating was completely performed in AAMD production facility. In case of purchase of zinc coated finish, AAMD does not give its warranty for paint coat layers.
Additionally, AAMD informs that products provided in zinc-coat finish only may be subject to damage during packing, transportation or installation. It is recommended to powder coat the products.
10. Warranty for more than 3 years can only be granted when service agreement is signed with ASSA ABLOY Mercor Doors.

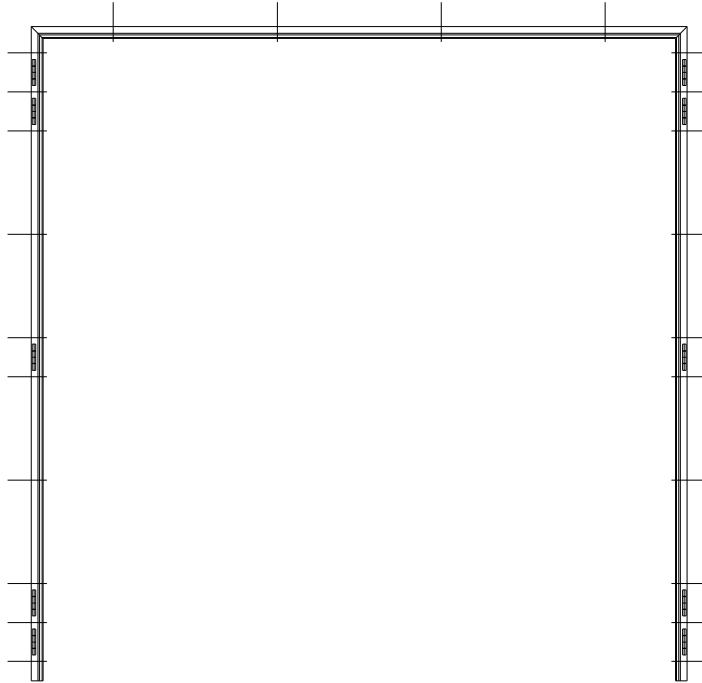
7. INSTALLATION INSTRUCTION OF DOORS TYPE mcr ALPE W EI 60

7.1. INITIAL ACTIVITY

Prior to door installation please check if the structural opening sizes conform with those stated on the packing list and check the floor level on the door leaf opening axis. If the floor is not finished, please keep the proper distance of installation gap (thickness of the floor finishing elements + 5 mm).

7.2. INSTALLATION OF THE DOOR

Doors MCR ALPE EI 60 are provided to site in elements, therefore before start of installation please check if the door is complete and includes: elements connecting the door frame, elements of hinges, screws, caps etc.



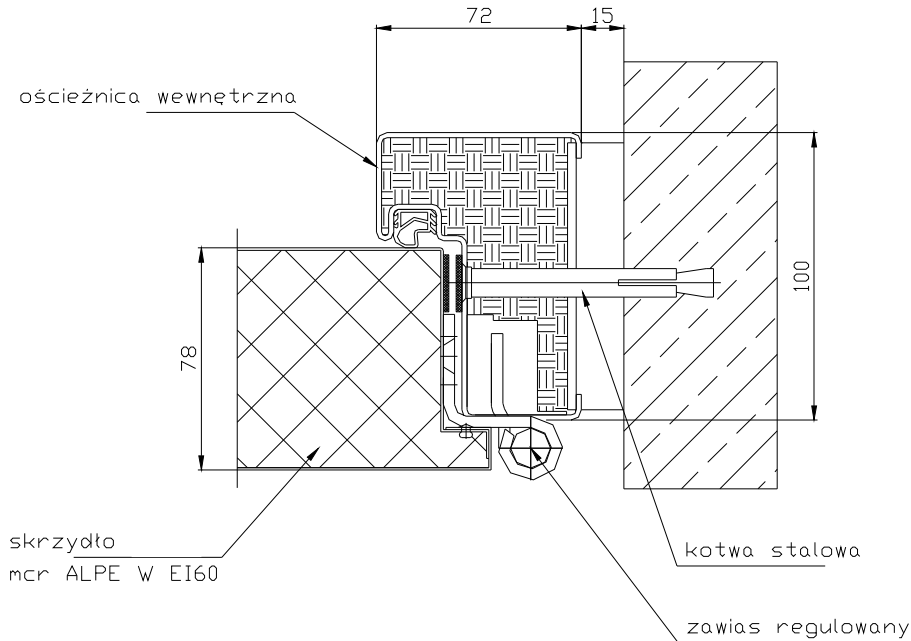
Doors ALPE W EI60 are installed in walls of appropriate mechanical and fire resistance, for example of full ceramic blocks of min.250 mm, concrete walls of min. 150 mm) . Before start of installation please observe the wall opening carefully to check its vertical, horizontal axes and level of floor in sphere of door leaf movement

Start the assembly of door from connecting of door frame (work on the floor).

Then place it properly in wall opening (a gdzie wypełnienie ościeżnicy?) and fix it temporarily with wooden wedges and spacers.

Please pay particular attention to horizontal and vertical position of door frame legs and their parallel position. Additionally, please check if the frame posts are not twisted around their vertical axis (the door leaf and appropriate surfaces of the frame must be parallel). Fix the door frame with steel studs $\varnothing 10\text{mm}$, length xxx, through pre-prepared holes in door frame

Hung the door leaves on the installed frame, then adjust the position of door leaves on the hinges in such way, that all gaps are equal. The gap between the bottom edge of door leaf and floor should be between 5 to 12mm. The gaps between edges of door leaves and frame should be less than 8 mm.



After the door leaves have been regulated, the space between the door frame and the wall should be tightly filled.

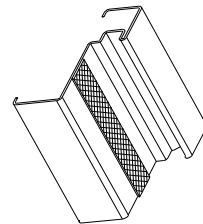
The frame has to be installed stiff and in such way that no deformation is possible. Therefore it should be filled in with mortar or glue used for gypsum

It is not permitted to install fire doors MCR ALPE W with a polyurethane foam.

7.3. INSTALLATION OF INTUMESCENT GASKET

!Intumescent gasket should be applied on clean and grease- free surface !

- Door frame – apply the self- adhesive intumescent gasket Palusol 2 x 30 mm on both vertical legs and horizontal jamb of the door frame
- Door leaves: apply intumescent graphite gasket Marvon 2 x 30 mm along perimeter of door leaves, excluding the bottom edges. Additionally, on active leaf apply 20 x 2mm graphite seal along top of and edge of door leaf on lock side, and on passive leaf- only on its top edge

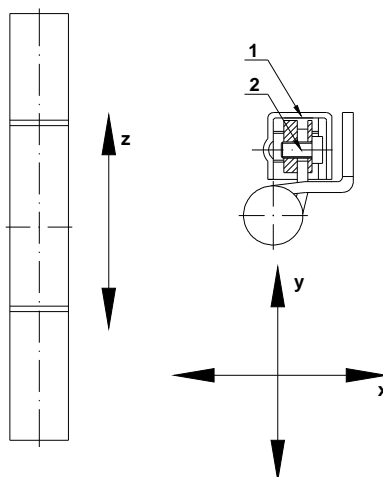


NOTE: it is recommended to heat up the gasket to room ambient temperature (max 30 °C before it is applied

7.4. REGULACJA BRAMY Z ZAWIASAMI „3D”

Door leaves of MCR ALPE EI60 are hang on 3D adjustable hinges. The number of hinges depends on the height of door leaf. The hinges can be regulated to find the best door leaf position. It is achieved by moving by moving the hinge flange inside hinge pocket by tightening or loosing of screws.

Regulation in X and Y axis is made with 3 screws (1) placed inside the pocket (2). regulation on axis Z is done by 2 Allen key screws outside the hinge pocket



7.5. REMOVAL OF PROTECTIVE FOIL

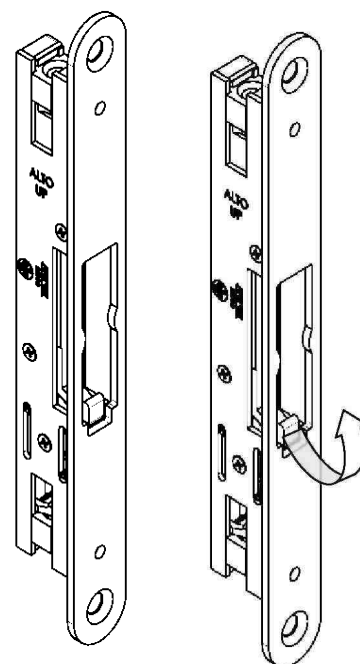
Exposure of paint coat covered with a protective film to sun and moisture may damage the coat permanently. Therefore, the protective film should be removed immediately after the door has been installed.

7.6. FLUSH BOLT IN PASSIVE DOOR LEAF (IN DOUBLE LEAF DOORS)

After the double leaf door has been installed, a sleeve for flush bolt should be installed in floor.

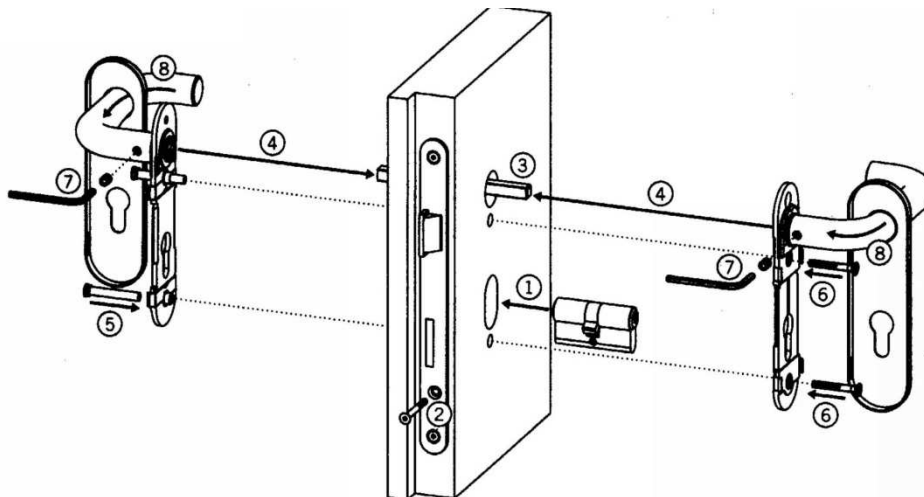
Close the passive leaf, and fasten in (in closing axis) , Mark the place on the floor where the vertical rod touches the floor. Drill a hole of appropriate diameter in the floor and fix the floor sleeve with cement mortar, or an adhesive commonly used in building industry. Finally check the correctness of total door closing.

Not installing the floor sleeve may cause door leaf damage. Defects occurring to missing sleeve are not covered by the guarantee.



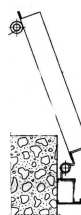
7.7. INSTALLATION OF IRONMONGERY

Insert the cylinder into hole of the lock (1), then fasten it with a screw (2). Put the pin of handle through the lock (3) – if needed, cut it to required length. Mount the steel under-shields of the handles (4) and connect them tightly with sets of 2 connectors (threaded pin, threaded sleeve)- (5),(6). Block the handle pin in handle lever by mounting the hexagonal socket head screw (Alley key head) (7). Put steel covers on handle shields. The handles should be firmly tightened, not reclining off door surface.



7.8. INSTALLATION OF DOORSTOPS

In some cases, to prevent door leaf from damage, it is recommended to install door stops (1) the door stops should be distanced from hinges by 80% door leaf width.



7.9. MONTAŻ SAMOZAMYKACZA NAWIERZCHNIOWEGO

Instalację samozamykacza należy przeprowadzić zgodnie z załączoną przez producenta instrukcją.

Uwaga: montaż samozamykacza do skrzydła należy przeprowadzić przy zastosowaniu wkrętów i nitonakrętek. Montaż przy użyciu blachowkrętów może doprowadzić do uszkodzenia skrzydła.

7.10. LAKIEROWANIE DODATKOWE

W celu ewentualnego pomalowania bramy należy uprzednio oczyścić powierzchnię bramy i zmatowić ją papierem ściernym o małej ziarnistości (np. 180). Do malowania najlepiej używać farb poliuretanowych.

Uwaga: niektóre rodzaje farb mogą doprowadzić do uszkodzenia powłoki macierzystej i w efekcie do złuszczenia farby.

Oversize doors MCR ALPE W EI 60

Dlatego przed użyciem nieznanej farby należy przeprowadzić próbę malowania na niewielkiej, niewidocznej powierzchni skrzydła.