PRODUCT TECHINICAL DATA SHEET

CHEMOLLI-FIREBOLT A2.0

PRODUCT DESCRIPTION

Active bolt for fire resistance doors is projected to eliminate the deformation where it is positioned, between door leaf and fixed frame, doors leaf and door leaf, door leaf and support . It is compounded with a cylindrical galvanized steel body, obtained from a solid part, dimensions 14x42 mm, fastener flange 25x3 mm. Steel clamp conic pin, variable diameter from 5 to 3 mm, 17.5 mm length, 16 mm stroke. Internal pressure spring with thrust of 25 N, with operating temperature up to 540 °C, heating element if necessary. The weight of the complete device with the striker plate: 51 grams. Thermofusible element with ignition temperature of 150° C.

MAIN DIMENSIONS

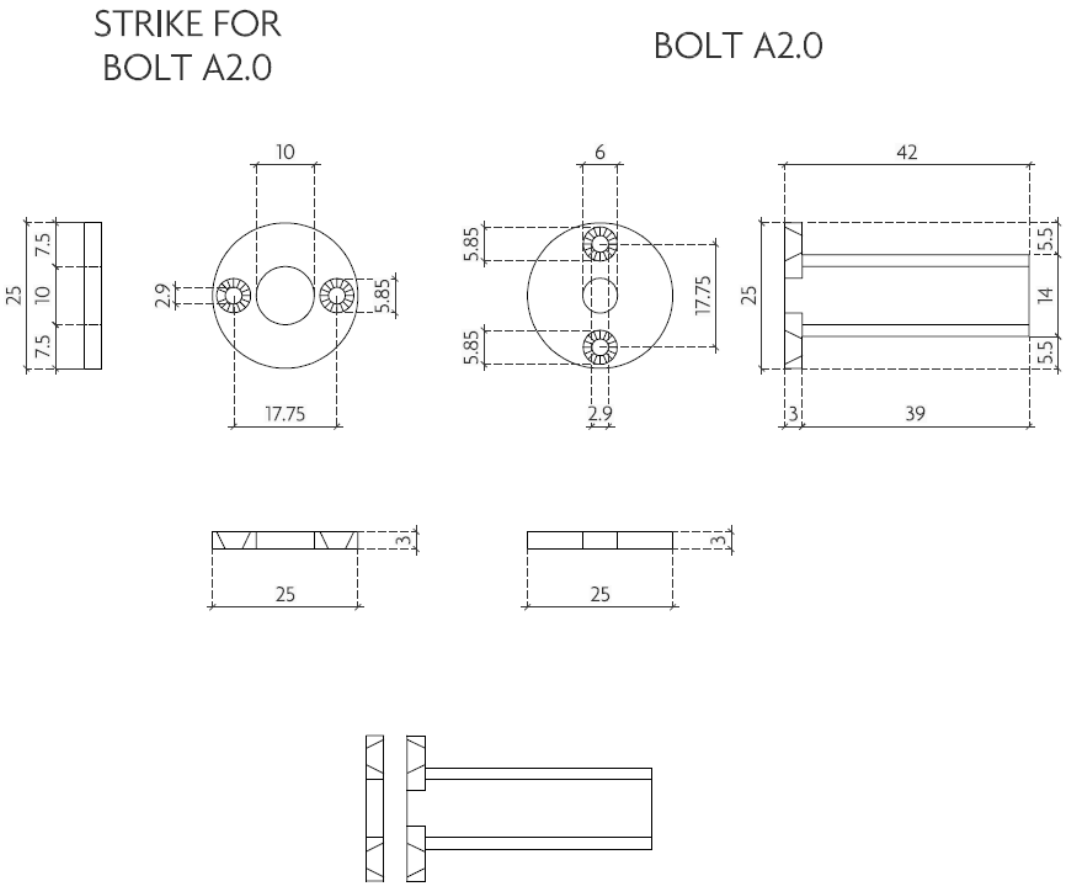

Fig. 1
Dimensioned drawing

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SECTION WITH COMPONENTS IDENTIFICATION

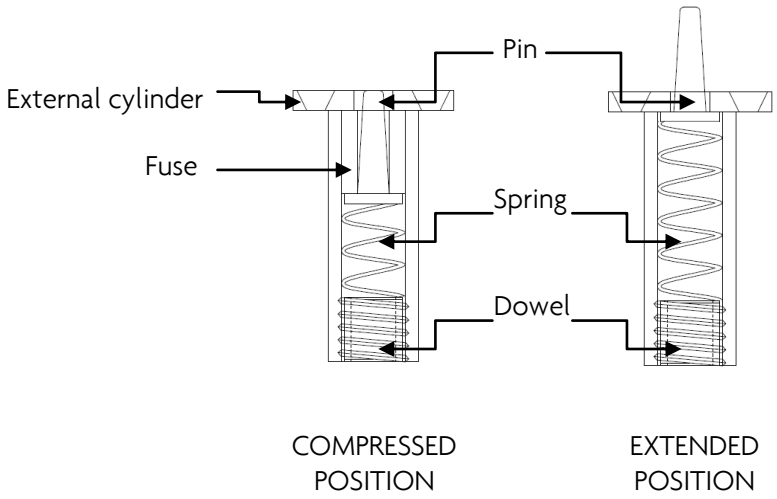
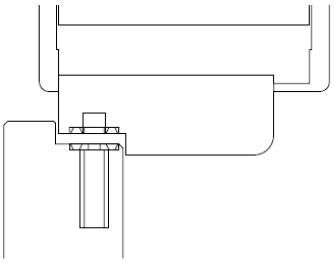


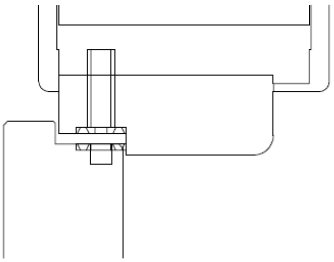
Fig. 2
Details

POSSIBLE POSITIONING – WITHOUT HEATING ELEMENT

Device in the door leaf and striker plate in the fixed frame



Device in the door frame and striker plate in the door leaf



Device in the door leaf and striker plate in the support or in the other door leaf

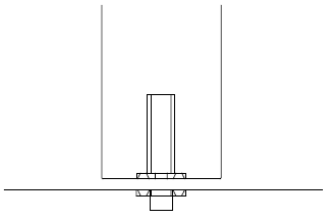


Fig. 3A
Installation positioning

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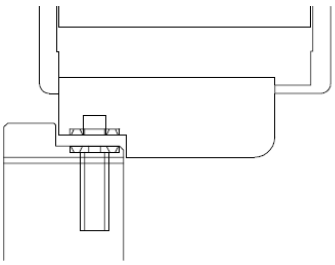
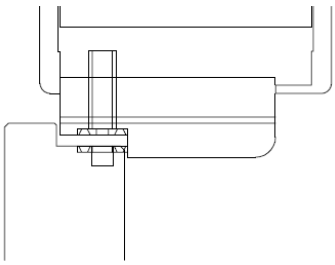
POSSIBLE POSITIONING – WITH HEATING ELEMENT

If it is necessary to transmit more quickly the rise in temperature to the CHEMOLLI-FIREBOLT A2.0 device, it is possible to place a heating element leaned to the thermofusible element. For example it could be used a 5 mm diameter steel bar.

Device in the door leaf and striker plate in the fixed frame



Device in the door frame and striker plate in the door leaf



Device in the door leaf and striker plate in the support or in the other door leaf

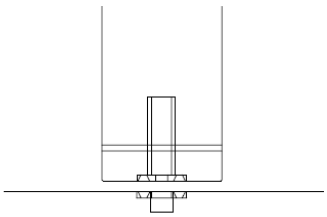


Fig. 3B
Installation positioning

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POSITIONING ADVICE

It is recommended to install the CHEMOLLI-FIREBOLT A2.0 device where the maximum deflection is expected cause the distance from constraint point like hinges, fixed bolts, locks and other constraint device. It is also important to evaluate the performance of the constraint point during the fire resistance test, because some of them, like hinges, could yield during the test. The exact position has to be determined on the basis of door's features and its fire resistance performance. If required CHEMOLLI FIRE could suggest you the better position for the device after studying your product. It is also possible to use more than one CHEMOLLI-FIREBOLT A2.0 device in the same door.

The CHEMOLLI-FIREBOLT A2.0 device and the striker plate must be positioned in parts of the doors that assure the correct stability for all the period of the fire resistance test. The yielding of the support where the CHEMOLLI-FIREBOLT A2.0 or the striker plate is fixed means the unsuccessful functionality of the device itself. It must be warranted the perfect truing of the striker plate (in some cases it is suggested to countersink or to widen the hole of the striker plate), evaluating the way and the timing of the deformation of the element. If the doors have big deformation, it could be right to move the striker plate towards the deformation point or to countersink or to widen the hole of the striker plate itself.

It is recommended to install the CHEMOLLI-FIREBOLT A2.0 or the striker plate in a part of the door that could be take down also from the outer, in this way it is allowed the opening and the disassembly if the device is in extended position and constrained by the striker plate (for example in the opening and closing test). It is recommended to position the device near the end of the edge, but some centimetres behind because the deformation at the edge could be greater and could prevent the device from the hooking.

Hereafter some positioning example:

a) POSITION 1 the more suggested;
b) POSITION 2 suggested;
c) POSITION 3 not so useful for doors with normal dimensions; it could be useful on doors with a big deformation or with big dimensions;
d) POSITION 4 not so useful for cylinder lock (like Yale)

It is possible to use the CHEMOLLI-FIREBOLT A2.0 device in place of the fixed bolt on the hinges side, if the type of hinges and doors requires it.

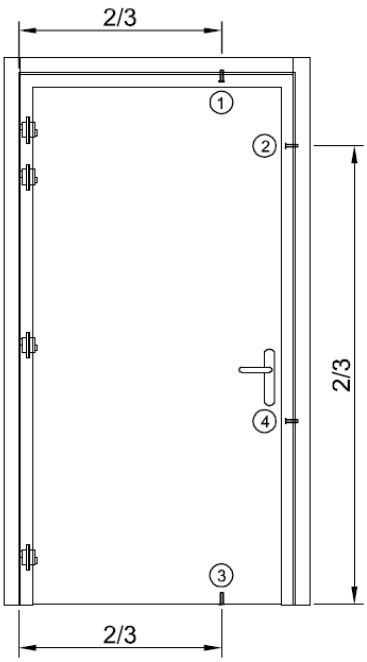

Fig. 4
Front view

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ASSEMBLING INSTRUCTIONS

DRILLING SCHEME

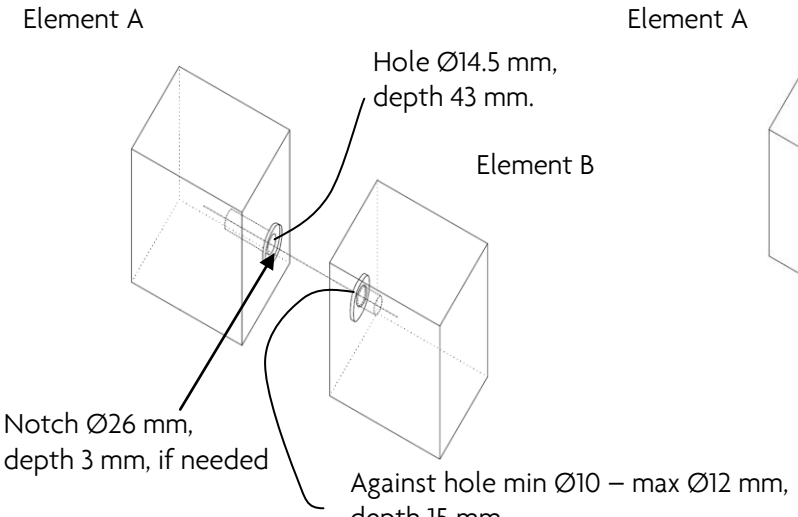

Fig. 5
Drilling scheme

INSTALLATION SCHEME

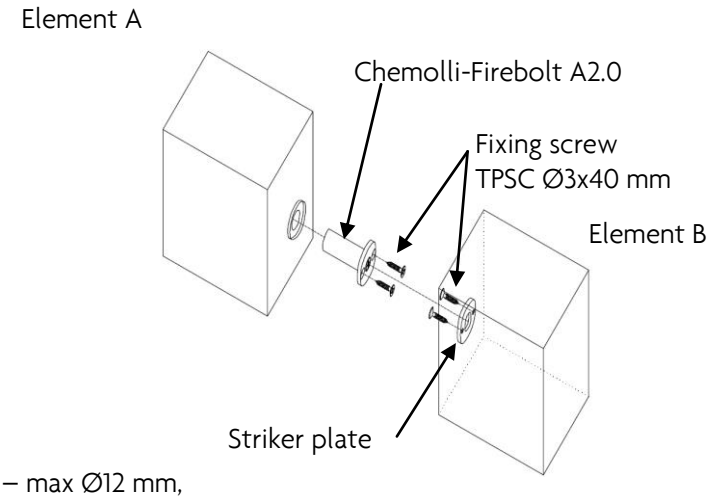

Fig. 6
Installation scheme

Considering that there are different positions where it is possible to install the device, as shown in figure 3, it is suggested to follow the figure 5 and 6 for the installation.
The A element is the one where the CHEMOLLI-FIREBOLT A2.0 device will be lodged.
The B element is the one where the restraint against hole will be made.
It is suggest to position the device and the striker plate in such a way that the screws will be lined up at the direction of the door deformation to avoid that the reduction of the support section due the fire lets both the screws fall in the same moment.

It is suggested to follow the drilling scheme in figure 5 for the A element. The CHEMOLLI-FIREBOLT A2.0 device has to be fixed with 2 screws, for example in case of wooden fire doors with chipboard screws TPSC Ø3x40 mm.
The hole has to be made in the same position of the CHEMOLLI-FIREBOLT A2.0 device axis on the B element, as show in the drilling scheme in figure 5 (see positioning advice), and the striker plate has to be fixed with suitable screws. For wooden doors where the support element (frame or door leaf) is subjected to the reduction of the section due to the fire (charring rate), it is suggested to increase the screw length till the false frame, if expected.

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FINAL NOTE:

The Company reserves for himself right to modify in every moment and without notice the device and the present document.

LIMITED WARRANTY TERMS

The CHEMOLLI-FIREBOLT A2.0 is subject at the warranty law in force. It is forbidden to change or to modify the component parts of the device; make any adjustment or setting of the device component parts. In any case the warranty is limited to the replacement of the device and do not cover possible damage that could be verified after the installation of the device or compensation of damages in case of unsuccessful functioning. Possible contention could be effected after having required a goods return coupon at the fax number +390464244539 specifying the supply data and the customer contacts: then the procedure of the contention treatment will be communicate. The goods has to be delivered to the manufacturer by the costumer at his own expenses. If it will be recognized a production defect, the device will be replaced by the manufacturer and the delivery of the product in replacement will be at the manufacture own expense.

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