

# FIRE SAFETY CERTIFICATION

## FIRE PERFORMANCE

No. **APF-1755**

**LGAI TECHNOLOGICAL CENTER S.A. (APPLUS)**, according to the requirements of the SPC-117 certifies the Fire Performances following the Classification and Testing standard for:

<b>Product</b>	<b>EVEREST-FIRE EXIT DOOR EI120</b> (* EN 14351-2:2018: WINDOWS AND DOORS - PRODUCT STANDARD, PERFORMANCE CHARACTERISTICS. PART 2: INTERNAL PEDESTRIAN DOORSETS
<b>Company</b>	<b>EVEREST ÇELİK KAPI SAN. VE TİC. LTD. ŞTİ.</b> Organize Sanayi Bölgesi 2. Cadde No:1 Melikgazi/Kayseri (Turkey)
<b>Manufactured</b>	<b>EVEREST ÇELİK KAPI SAN. VE TİC. LTD. ŞTİ.</b> Organize Sanayi Bölgesi 2. Cadde No:1 Melikgazi/Kayseri (Turkey)
<b>Classification and testing standards</b>	EN 1634-1:2014+A1:2018: "Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware. Part 1: Fire resistance test for door and shutter assemblies and openable windows". EN 13501-2:2016 "Fire classification of construction products and building elements. Part 2: Classification using data from fire resistance tests, excluding ventilation services"
<b>Product Details and Test Report</b>	Check at the technical annex report n° 20/21532-295 M1 and n° 20/21532-295-1 M1



LGAI has performed the product initial tests and the initial assessment of the management system. Periodically, the entity does a follow-up assessment of the management system.

(\* This standard is not the subject of this certification; it is used only for clarification of the type of product to which the fire performances according to the standards specified in the clause Classification and testing standards are certified

**Renovation** of the initial certificate issued on 5<sup>th</sup> June 2020

**Valid until 31<sup>st</sup> January 2023**

Bellaterra, 8<sup>th</sup> April 2022

 LGAI Technological Center, S.A. <b>Xavier Ruiz Peña</b> Product Conformity B. U., Managing Director	
You can check the validity of this certificate on our website: <a href="http://www.appluslaboratories.com/certified_products">www.appluslaboratories.com/certified_products</a>	

This document is not valid without its technical annex, whose number coincides with the number of certificate.

## APF-1755

### CERTIFIED PERFORMANCE

Resistance to fire classification: EI<sub>2</sub> 120

#### Product Application:

Type of door: Single leaf hinged steel doorset.

Opening direction: Outward the fire sector.

Overall door dimensions: 1040 x 2070 mm (width x height).

Overall dimensions of clear opening: 860 x 1960 mm (width x height).

Overall leaf dimensions: 930 x 2010 mm (width x height).

Leaf composition (from non-hinged to hinged face):

- Total thickness of 57 mm.
- Galvanized steel sheet of 1 mm thick + gypsum board of 12,5 mm thick and a weight of 10 kg/m<sup>2</sup> + stone wool board of 30 mm thick and a density of 40 kg/m<sup>3</sup> + ceramic blanket of 25 mm thick (compressed to the thickness of leaf) and a density of 128 kg/m<sup>3</sup> + galvanized steel sheet of 1 mm thick.
- Polyester coating on both sides of the leaf.
- Welding points and overlaps on vertical sides and upper horizontal member to fix the galvanized steel sheets.

Frame composition:

- Total dimensions: 104 x 226 mm (width x depth).
- Elements: 2 vertical elements and one upper horizontal element.
- Composition: 2 different steel profiles (profile 1 and profile 2) of 2 mm thick each one. Joined together by screws on each vertical element and continuous welding to fix the vertical elements and upper horizontal member.
- Frame covered with polyester coating.
- Gap between frame and supporting construction filled with mortar.
- EPDM sponge gasket, dimensions of 25 x 16 mm, located on the entire perimeter of the frame profile 1.
- Intumescent seal, dimensions of 25 x 2 mm, located on the entire perimeter of the frame profile 2.

Sill:

- Constituent elements:
  - Steel profile (profile 3) of 2 mm thick, dimensions of 1900 x 80 mm, located on the bottom edge of the door and welded to frame profile 1 on the lower edge of vertical sides of the frame.
  - Steel profile (profile 4) of 2 mm thick, dimensions of 860 x 20 x 20 mm, located on the bottom edge of the door, welded to frame profile 1 on the lower edge of vertical sides of the frame and the vertical face covered with mortar.
  - Steel tubular profile of 2 mm thick, dimensions of 40 x 10 mm, located on the bottom edge of the door, welded to frame profile 2 on the lower edge of vertical sides of the frame and covered with mortar.
- Continuous welding to fix sill profiles 3 and 4.
- Polyester coating covering the elements of the sill.
- EPDM sponge gasket, dimensions of 25 x 16 mm, located along the entire width of the sill profile 3.
- Intumescent seal, dimensions of 25 x 2 mm, located along the entire width of the sill profile 4.

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### Hardware:

- Panic bar with locking system and strike, with reference "OMN-200E" from OMNI panic system.
- 1 spring hinge (central hinge) with dimensions of Ø26 x 186 mm and two hinges without spring (upper and lower side) with dimensions of Ø26 x 112 mm, reference "D07.9B1" from DEMKA.

### Maximum allowed gaps:

- Between leaf and lintel: 6,8 mm.
- Between leaf and hinged side: 5,7 mm.
- Between leaf and lock side: 7,1 mm.
- Between leaf and sill: 10,1 mm.

### Supporting construction:

Brick enclosure with a total thickness of at least 200 mm and a density equal or greater than 450 kg/m<sup>3</sup>. Door fixed by at least 4 screws on each vertical lateral and at least 4 steel plate welded to the frame profile 1 on each vertical lateral.

### Direct field of application

- The dimensions of metal wrap around frames may be increased to accommodate increased supporting construction thickness. The thickness of the metal may also be increased by up to 25%.
- The type of metal shall not be changed.
- Permitted to apply paints which do not contribute to the fire resistance on door leaves or frames.
- Decorative laminates and timber veneers up to 1,5 mm thickness may be added to the faces (but not the edges) of doors.
- The number of fixings per unit length used to attach doorsets to supporting constructions may be increased, but shall not be decreased and the distance between fixings may be reduced but shall not be increased.
- The number of hinges and dog bolts may be increased but shall not be decreased.
- Reduction to a maximum of 50% in width and up to 75% in height is allowed.  
For leaf sizes smaller than 930 x 2010 mm, the relative positioning of movement restrictors (e.g. hinges and latches) shall remain the same as tested or any change to the distances between them will be limited to the same percentage reduction as the decrease of test specimen size.