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Approved Body No. SK01

Notifikovaná osoba č. 1396
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calculations of fire resistance

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č.ú.: 4006983288/7500
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S.r.o zapísaná v Obchodnom registri Okresného súdu v Prešove, vložka č. 2093/P, oddiel: Sro

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Експерти з пожежної безпеки

Sponsor of the test:
MAC PUAR SA, P. Industrial Calonge C/ Metalurgia NO 5, 41007 Seville, Spain

Manufacturer of specimens:
MP ASCENSORES, Pabellón MP, C/ Leonardo da Vinci, no 15, Isla de la Cartuja, 41092-Seville, Spain

YOUR REF.	CONTACT PERSON	OUR REF.	BATIZOVCE
	Ing. Samuel Skokan	SK-070-21	07. 12. 2021

Performances of the Fire resistant steel lift landing doors

This is to confirm that:

Product: Automatic Lift Landing Door, type: PAP05-AI/T3
PAP05-AI/T2
PAP05-AI/C2
PAP05-AI/C4

Manufacturer: MP ASCENSORES, Pabellón MP, C/ Leonardo da Vinci, no 15, Isla de la Cartuja, 41092-Seville, Spain

Test report number:

Test report No.	Date of the test	Test method
FIRES-FR-100-21-AUNE	05. 05. 2021	EN 81-58: 2018
FIRES-FR-101-21-AUNE	06. 05. 2021	
FIRES-FR-102-21-AUNE	07. 05. 2021	
FIRES-FR-103-21-AUNE	10. 05. 2021	

Achieved the following test results

PAP05 AI/T3 800 x 2000 mm with side panels and adjustable panels

Performance criterion	Time till the performance criterion is achieved
integrity – sustained flaming	133 minutes no failure
integrity – flow through the door per meter of the width of door (limit – 3 [$m^3.min^{-1}.m^{-1}$])	133 minutes no failure
Corrected flow through the door per meter of the width of door (limit – 3 [$m^3.min^{-1}.m^{-1}$])	133 minutes no failure
insulation – average temperature (140 K)	not evaluated
insulation – maximal temperature (180 K)	not evaluated
radiation – 15 $kW.m^{-2}$	133 minutes no failure

The fire test was terminated in the 134th minute upon the request of the test sponsor.

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PAP05 AI/T2 1000 x 2000 mm with control box

Performance criterion	Time till the performance criterion is achieved
integrity – sustained flaming	132 minutes no failure
integrity – flow through the door per meter of the width of door (limit – 3 [$m^3.min^{-1}.m^{-1}$])	132 minutes no failure
Corrected flow through the door per meter of the width of door (limit – 3 [$m^3.min^{-1}.m^{-1}$])	132 minutes no failure
insulation – average temperature (140 K)	not evaluated
insulation – maximal temperature (180 K)	not evaluated
radiation – 15 $kW.m^{-2}$	62 minutes

The fire test was terminated in the 133rd minute upon the request of the test sponsor.

PAP05 AI/C4 900 x 2000 mm without frame

Performance criterion	Time till the performance criterion is achieved
integrity – sustained flaming	132 minutes no failure
integrity – flow through the door per meter of the width of door (limit – 3 [$m^3.min^{-1}.m^{-1}$])	132 minutes no failure
Corrected flow through the door per meter of the width of door (limit – 3 [$m^3.min^{-1}.m^{-1}$])	132 minutes no failure
insulation – average temperature (140 K)	not evaluated
insulation – maximal temperature (180 K)	not evaluated
radiation – 15 $kW.m^{-2}$	132 minutes no failure

The fire test was terminated in the 133rd minute upon the request of the test sponsor.

PAP05 AI/C4 900 x 2000 mm with side panel and control box

Performance criterion	Time till the performance criterion is achieved
integrity – sustained flaming	132 minutes no failure
integrity – flow through the door per meter of the width of door (limit – 3 [$m^3.min^{-1}.m^{-1}$])	132 minutes no failure
Corrected flow through the door per meter of the width of door (limit – 3 [$m^3.min^{-1}.m^{-1}$])	132 minutes no failure
insulation – average temperature (140 K)	not evaluated
insulation – maximal temperature (180 K)	not evaluated
radiation – 15 $kW.m^{-2}$	47 minutes

The fire test was terminated in the 133rd minute upon the request of the test sponsor.

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Classification and field of application

I.) Reference of classification

This classification has been carried out in accordance with clause 17.5 of EN 81-58: 2018.

II.) Classification

The element, Automatic Lift Landing Door, type PAP05-AI/T3, PAP05-AI/T2, PAP05-AI/C2 and PAP05-AI/C4, is classified according to the following combinations of performance parameters and classes as appropriate.

Fire resistance classification:
E 120; EW 60

III.) Field of direct application of the classification according to clause 19 of EN 81-58: 2018:

Test results in terms of integrity and insulation are considered to be applicable to doors of sizes different from those of the test specimens, all other constructional details being the same within the following limitations:

a) without correction to be applied on the measured leakage rate:

- a similar door of lower height than the tested specimen;
- a similar door with a door opening or an opening width in the wall equal to the one tested within a range of ±30 %
  - side opening lift landing door PAP05-AI/T (560 – 1300);
  - central opening lift landing door PAP05-AI/C (630 – 1170).

b) after correcting the measured leakage rate as a function of the increase in height a s specified in annex D of standard EN 81-58: 2018;

- a similar door with increased height of up to 15 % (2300 mm).

The allowance given in a) and b) can be applied together.

Position of door related to floor: threshold of door is installed at the floor level.

The product can be installed in the rigid supporting construction with bulk density ≥ 600 kg.m^{-3} and thickness ≥ 100 mm.

IV.) Application which is outside the field of direct application according test standard

Following changes of the product or end use conditions were permitted:

1. Using of stainless-steel sheets instead painted galvanized steel sheets:

   Door frame – Stainless steel sheets with thickness 1 mm;
   Header – Stainless steel sheets with thickness 1,5 mm;
   Door panels – Stainless steel sheets with thickness 1,5 mm;
   Front panel – Stainless steel sheets with thickness 1,0 mm
2. Lift landing door with or without controller box, without front panel and butt joint.
3. Using door without frame.
4. Reducing of number of door panels of central opening lift landing door from 4 to 2 panels.

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5. Reducing of number of door panels of side opening lift landing door from 3 to 2 panels.
6. Different options of upright fixation (claws, brackets or direct screws)

Application which is outside the field of direct application according test standard or outside thefield of extended application according to relevant extended application standard is fully described in expert judgement report No. FIRES-JR-077-21-NURE issued on 07. 12. 2021 by FIRES, s.r.o., Slovak republic.

SKÚŠOBNÉ LABORATÓRIUM • PRÜFLABORATORIUM • TESTING LABORATORY
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The Experts on Fire Safety

Ing. Samuel Skokan
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