

ANDROMEDE

FIRE RESISTANT / WATERTIGHT DOOR



PRESENTATION

2-in-1 door

Interchangeability with Cassiopee doors

Simplify the fire division



RANGE

- Hatch
- 1 leaf
- 2 leaves
- 2 leaves + transom

FIRE RESISTANCE

El, 60 Sa / Sm

El, 120 Sa / Sm

AIRTIGHT

5000 Pa

WATERTIGHT

6 m water column

SEISMIC LOAD

Up to 9 g



INDUSTRY & REFERENCES

This type of door is intended to nuclear, petrochemical and construction industries. These doors are installed in Flamanville 3, Olkiluoto 3 and Taishan EPR NPPs.

TECHNICAL INFORMATION

- Steel sheet both sides, with coating finish, 1 leaf or 2 leaves or 2 leaves + transom, assembled by welding
- The frame is composed of different sizes angle brackets in painted steel, fitted with connectors for sealing into concrete
- The frame can be shared with watertight doors, which allows the interchangeability of doors
- Opening by adjustable hinges (2 to 4 per leaf, according to the dimension)
- Water and airtight gasket in cellular EPDM and intumescent gasket for fire resistance
- Pressure rated (air and/or water) both sides

IMPLEMENTATION

- Embedding of the frame in the 1st or 2nd phase of concreting by leaving a recess at the rim
- Possibility to weld the frame on pre-sealed anchor plates or peg into concrete

EQUIPMENT

- Manual lever lock (2 to 4 per leaf, according to dimension)
- Removable central mullion for double leaves door
- Door closer

OPTION

- Finition: galvanization Z600 / 3 layers of decontaminable painting
- Decompression cup
- Oculus (up to 1,5 m water column)
- Lock with panic function / electromechanical lock for access control
- Blast protection (Up to 350 mbar)
- Burglar protection (WK4 according to EN 1627-1630)
- Bullet proof (FB4 according to EN 1522 - 1523)
- Position switch (open/closed)
- Coupling of locks

STANDARD FEATURES

REQUIREMENTS	RESULT	NORMS
Airtight 5000 Pa	Hinges side = 0.03 m³/h Opposite hinges = 0.46m³/h	Internal protocol
Watertight 1 m Water column	Hinges side = 0,00l/h (up to 6m water column) Opposite hinges = 3,47l/h	Internal protocol
Smoketight	Sa / Sm	EN 13501-2
Fire-resistance	120 min according to EI ₁ classification	EN 13501-2 COST-R 53307 - 2003
Fatigue test	600 000 cycles (60 years)	Internal protocol
Design calculation	9.2 g for horizontal force 6 g for vertical force	Eurocode 8 Specific spectra

DIMENSIONS

		MIN.	MAX.
Hatch & 1 leaf	Width	23.62 in (600 mm)	59.05 in (1500 mm)
	Height	62.99 in (1600 mm)	112.20 in (2850 mm)
2 leaves	Width	23.62 + 23. 62 in (600 + 600 mm)	59.05 + 43.30 in (1500 + 1100 mm)
	Height	118.11 in (3000 mm)	
2 leaves + transom	Width	35.43 + 35. 43 in (900 + 900 mm)	47.24 + 47.24 in (1200 + 1200 mm)
	Height	112.20 + 27.56 in (2850 + 700 mm)	