ANDROMEDE 20

FIRE RESISTANT /
WATERTIGHT(20m WATER COLUMN) DOOR

PRESENTATION

2-in-1 door
Tailor-made
To meet the post-Fukushima requirements

FIRE RESISTANCE

EI_1 180
EI_2 240

WATERTIGHT

20 m water column

BLAST PROTECTION

2 bars

SEISMIC LOAD

Up to 9 g

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INDUSTRY & REFERENCES

This type of door is intended to nuclear industry mainly to prevent natural disasters (tsunamis). These doors are installed in Flamanville 3, Olkiluoto 3 and Taishan EPR NPP according to post-Fukushima requirements.

TECHNICAL INFORMATION

- Rigid steel structure door with electrogalvanized panelled siding with coating finish assembled by welding
- The frame is composed of different sizes angle brackets in painted steel, fitted with connectors for sealing into concrete
- Opening by machined hinges
- 6 points central locking system
- Operation by wheel
- Watertight silicone seal
- 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 of 300 x 300 mm min. at the rim
- Possibility to weld or screw the frame on pre-sealed anchor plates

EQUIPMENT

- Anti-blast protection (up to 2 bar)
- Door closer

OPTION

- Finishing: 3 layers of decontaminable painting
- Access control system
- Door closer
- Position switch (open/ closed)

STANDARD FEATURES

REQUIREMENTS	RESULT	NORMS
Watertightness 20 m Water column	Opposite hinges = 84 l/h	Internal protocol
Watertightness 10 m Water column	Opposite hinges = 0,5 l/h	Internal protocol
Fire resistance	180 min according to EI_1 classification 240 min according to EI_2 classification	EN 3501-2
Design calculation	9,2 g for horizontal force 6 g for vertical force	Eurocode 8 Specific spectra

DIMENSIONS

		MIN.	MAX.
1 leaf	Width*	27.56 in (700 mm)	51.18 in (1300 mm (EI_1 180))
	Height*	62.99 in (1600 mm)	84.64 in (2150 mm (EI_1 180)) 96.46 in (2450 mm (EI_2 120))

(*) : free opening

Imprimerie Parmentier - Crédits Photos : Baumert - Réf.: FP_007_EN_00

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