

## Fire Protection Standards

### European Standards EN 1047-1, EN 1047-2 and EN 15659



Certified fireproof safes and data cabinets undergo fire endurance tests during which the temperature increase in the interior of the secure storage units is measured. The endurance tests differentiate between fire storage units, which are best suited for heat sensitive paper documents with stress limits up to 170°C, and diskette/data storage units which are suited for heat and humidity sensitive data media with stress limits of either 50°C or 70°C, and 85% air humidity.

The additional fire shock and impact test carried out on data cabinets simulates the falling down of structural components (e.g. of the ceiling) on the product in the event of fire. The additional impact test made on type B data rooms and data containers is used to determine a specific level of mechanical security. In type A data rooms, mechanical protection is already provided due to their design and construction.

### Protection classes of products for the protection of data and systems

Product	Protection class	Certification	Stress Limits	
			Max. temp.	Max. rel. air humidity
Light fire storage unit	LFS 30 P	EN 15659	170°C	---
	LFS 60 P	EN 1047-1	170°C	---
Data cabinet	S 60 P	EN 1047-1	170°C	---
	S 120 P	EN 1047-1	170°C	---
	S 60 D	EN 1047-1	70°C	85%
	S 120 D	EN 1047-1	70°C	85%
	S 60 DIS	EN 1047-1	50°C	85%
	S 120 DIS	EN 1047-1	50°C	85%
Diskette insert	DI 60 P/DIS	EN 1047-1	50°C	85%
	LDI 120 P/DIS	EN 1047-1	50°C	85%
Data container	C 60 D	EN 1047-2	70°C	85%
Data room	R 60 D Typ A	EN 1047-2	70°C	85%
	R 60 D Typ B	EN 1047-2	70°C	85%

*Please Note:*

Light fire storage units are only subjected to a fire endurance test (without cooling curve).

*The abbreviations in the table stand for:*

- LFS** Light fire storage unit to EN 15659
- S** Data cabinet to EN 1047-1
- DI** Diskette insert for installation into a data cabinet of protection class S 60 P and S 120 P, respectively, to EN 1047-1
- C** Data container to EN 1047-2
- R** Data room to EN 1047-2
- 30** Exposure to flames for 30 minutes
- 60** Exposure to flames for 60 minutes
- 120** Exposure to flames for 120 minutes
- P** Suited for heat sensitive paper documents with stress limits up to 170°C
- D** Suited for heat and humidity sensitive data media with stress limits up to 70°C and 85% air humidity
- DIS** Suited for heat and humidity sensitive data media with stress limits up to 50°C and 85% air humidity