

# Protection against fire and burglary: a short explanation

The most important question you will have to ask when buying a safe or cupboard is: What do I need to protect? Do I need security? Fire resistance? Or both?

Once this has been decided, choose from the available classes of protection against fire and theft, depending on the space available.

## Protection against fire

If you wish to protect your possessions against fire, you need to choose between fire protection for paper documents or protection for magnetic media such as disks, CD-ROMs, tapes, etc.

Fire resistant products have been designed to maintain the inner temperature of the cupboard below the temperature that would cause damage to the contents. In the case of paper, this is approx. 175 degrees Celsius and for magnetic media approx. 52 degrees Celsius.

For example, it is not possible to keep CD-ROMs in a cupboard that has been fire-tested for one hour for the storage of paper, as they will most probably not survive the temperature. Moreover, data safes also protect against moisture, dust and soot particles.

The lowest class is fire protection for paper in compliance with DIN 4102. In this case, a double-walled cupboard has been filled with fire resistant insulation material and in our experience; such cupboards are able to resist fires for approx. 30 minutes.

## Formally tested fire resistance

For protection against fire for longer periods of time, we recommend you choose one of the tested fire resistant products. These products have been placed in a furnace and the contents of the cupboard have survived for ½ hour, 1 hour, 1½ hours or even 2 hours (depending on the type of cupboard).

There are different standards which indicate the fire resistance of a safe. In our catalogue you can find:

VDMA	:	German standard
SP	:	Swedish standard
NT Fire	:	Norwegian standard
UL	:	American standard
JIS	:	Japanese standard
KS	:	Korean standard

Fire resistance tests are carried out by independent testing institutes. The products are tested at high ambient temperatures of approx 1090 degrees Celsius. Whether the unit provides sufficient protection is tested (Critical temperature for paper is approx. 175 degrees Celsius and critical temperature for magnetic media is approx. 52 degrees Celsius). A drop test must prove that the protection of the safe is not adversely affected if, in practice, a safe fell through a floor.

30P	–	½ hour fire protection for paper
60P	–	1 hour fire protection for paper
90P	–	1½ hours fire protection for paper
120P	–	2 hours fire protection for paper
60DIS	–	1 hour fire protection for magnetic media
120DIS	–	2 hours fire protection for magnetic media

# Protection against fire and burglary: a short explanation

## Insurance rating

This rating indicates the amount of cash and valuables that can be expected to be covered by the insurance, if the items have been locked in the safe. When deciding the insurance rating, the insurers assume that the safe is located in a uninhabited, unguarded and unprotected place within a residential area. Depending on the security measures taken insurers may deviate from the cover indication.

**Tip:** always check with your own insurance company that they agree with the insurance rating suggested for your safe. Local factors can reduce or increase the value of the insurance rating.

## Protection against burglary

Based on different features –for example, thickness of door, thickness of wall, locking system and fire retardant filing safes can be divided into classes Safe 1 – 4. This classification is supported by the Dutch Centrum of Prevention (NCP). These safes are not formally tested, but built according to prescribed standards.

Safe classification of theft resistant safes and corresponding insurance rating:

	Cash	Valuables
Safe 1	£ 1,000	£ 10,000
Safe 2	£ 2,000	£ 20,000
Safe 3	£ 4,000	£ 40,000
Safe 4	£ 6,000	£ 60,000

The safes with the classification VDMA 24992 are safes which are built according to standards prescribed by the German Testing institute VDMA. The PT and ET series are built according to the class Sicherheitsstufe B. This is compatible with Safe 3. As well as burglary resistance, the institute says that these safes have fire-resistant qualities (DIN 4102 ≈ 30 minutes fire-resistance). These safes are identifiable by the VDMA-label on the inside of the safe.

## Formally tested burglary resistance

**For protection against theft for higher amounts of cash and valuables, we recommend you choose one of the formally tested burglary resistant products. Safes can be tested by independent testing institutes in different European countries.**

When testing for burglary, one or more holes are made in the product, by testers who have all the relevant knowledge and skills. The results are translated into resistance units (RU), the tools used and the time required to open the safe is taken into account. The higher the RU, the higher the resistance and therefore the higher the protection the safe offers. According to the amount of RU, the safes are graded and certified into Euro classes or grades.

The European standard for the certification of burglary resistant safes is the standard and 1143-1. Euro classification of theft resistant safes and corresponding insurance ratings:

	Cash	Valuables
Euro class 0 (Grade 0)	£ 6,000	£ 60,000
Euro class I (Grade 1)	£ 10,000	£ 100,000
Euro class II (Grade 2)	£ 17,500	£ 175,000
Euro class III (Grade 3)	£ 35,000	£ 350,000
Euro class IV (Grade 4)	£ 60,000	£ 600,000
Euro class V (Grade 5)	£ 100,000	£ 1,000,000
Euro class VI (Grade 6)	£ 150,000	£ 1,500,000

In March 2005 the new European standard 14450 was created. This standard was developed especially to classify lighter burglary resistant safes, those that are more suitable for day storage and domestic useage . However, there is a requirement that the safe is well anchored to a wall or the floor to meet the expectations of the user's insurer

Security levels with corresponding insurance ratings:

	Cash	Valuables
Security level 1 (S1)	£ 2,000	£ 20,000
Security level 2 (S2)	£ 4,000	£ 40,000

Always check that your insurance provider agrees with the indicated insurance cover. Various factors can increase or decrease the insurance cover!

To determine the quality of the safe or cabinet, the manufacturer puts a label on the inside of the door. This shows if the cabinet or safe has been produced under controlled circumstances and to which resistance grade it has been tested.



Model	Insurance rating cash	Insurance rating valuables	Fire protection
<b>Cupboards</b>			
Muller	£ 1,000	£ 10,000	DIN4102
Lloyd	£ 1,000	£ 10,000	DIN4102
Lloyd Plus	£ 2,000	£ 20,000	DIN4102
MDK	£ 3,000	£ 30,000	DIN4102
Apollo	£ 2,000	£ 20,000	½ hour
Defiant	£ 2,000	£ 20,000	
<b>Fire resistant Graded safes</b>			
Köln	£ 6,000	£ 60,000	1 hour
Wuppertal	£ 10,000	£ 100,000	1 hour
Berlin	£ 10,000	£ 100,000	2 hour
Vienna	£ 17,500	£ 175,000	1 hour
Prague	£ 17,500	£ 175,000	2 hour
Rom-Lido	£ 35,000	£ 350,000	1 hour
Robur IV	£ 60,000	£ 600,000	1 hour
Robur V	£ 100,000	£ 1,000,000	1 hour
Robur VI	£ 150,000	£ 1,500,000	1 hour
<b>Fire resistant filing cabinets</b>			
FireKing 25			1 hour
FireKing 21			1 hour
FireKing Lateral			1 hour
FireKing Compact			1 hour
FireKing International			1 hour
FireKing Professional			2 hour
Sun			1 ½ hour
<b>Fire resistant data safes</b>			
Oslo	£ 1,000	£ 10,000	1 hour
Lampertz Dis-data S100	£ 1,000	£ 10,000	1 hour
Lampertz Dis-data S	£ 2,000	£ 20,000	2 hour
Lampertz Dis-data SE	£ 17,500	£ 175,000	2 hour
Honeywell Media Box			1 hour
Sun Electronic	£ 1,000	£ 10,000	1 hour
Sun Electronic Plus	£ 1,000	£ 10,000	2 hour
<b>Fire resistant safes</b>			
Royal safe	£ 1,000	£ 10,000	2 hour
Royal IC lock	£ 1,000	£ 10,000	2 hour
Sun Safe Electronic	£ 1,000	£ 10,000	1 hour
Sun Safe Electronic Plus	£ 1,000	£ 10,000	2 hour
Honeywell Document Box			½ hour
<b>Euro Graded safes</b>			
Neutron Star 0	£ 6,000	£ 60,000	
Neutron Star I	£ 10,000	£ 100,000	
Neutron Star II	£ 17,500	£ 175,000	
Dortmund	£ 6,000	£ 60,000	
MVO	£ 10,000	£ 100,000	DIN 4102
Wertheim AKT/AMT/AWS	£ 10,000	£ 100,000	
Wertheim BMT/BWS	£ 17,500	£ 175,000	
Wertheim CWH Lightweight	£ 35,000	£ 350,000	
Wertheim CWS	£ 35,000	£ 350,000	
Wertheim DWS	£ 60,000	£ 600,000	
Wertheim EWS	£ 100,000	£ 1,000,000	
<b>Security safes</b>			
Hagen	£ 2,000	£ 20,000	
Solingen	£ 4,000	£ 40,000	1 hour
Muller PT	£ 4,000	£ 40,000	DIN 4102
Muller ET	£ 4,000	£ 40,000	DIN 4102
Jubilee	£ 4,000	£ 40,000	DIN 4102
Technomax Gold	£ 2,000	£ 20,000	
Lloyd Safe	£ 2,000	£ 20,000	
Compact Safe			
Protector Electronic Keypad Safe	£ 2,000	£ 20,000	
Protector Electronic Dial	£ 2,000	£ 20,000	
ELS/ELL	£ 2,000	£ 20,000	
Fingerprint Safe			

Model	Insurance rating cash	Insurance rating valuables	Fire protection
<b>Computer and Laptop Safes</b>			
Protector Computer Safe			
Protector Laptop Safes			
Protector Auto Laptop Safe			
<b>Cash boxes/ Deposit safes</b>			
Cash Box	£ 1,000	£ 10,000	
For Deposit Box	£ 1,000	£ 10,000	
Technomax Trony Gold	£ 2,000	£ 20,000	
Protector MP Day Deposit Safes	£ 2,000	£ 20,000	
PT and ET Day Deposit Safes	£ 4,000	£ 40,000	
Muller MVO Deposit	£ 10,000	£ 100,000	
Robur Deposit II	£ 17,500	£ 175,000	
Robur Deposit III	£ 35,000	£ 350,000	
Robur Deposit IV	£ 60,000	£ 600,000	
<b>Wall safes</b>			
Technomax Gold	£ 4,000	£ 40,000	
Wertheim AMS	£ 10,000	£ 100,000	
<b>Hotel safes</b>			
Saga D25MOP			
Saga DCP 230P			
Saga Hotel HL			
<b>Key storage and control</b>			
KeepSafe Key Safes	£ 4,000	£ 40,000	
Technomax Key Safes	£ 2,000	£ 20,000	
Protector Key Safes	£ 4,000	£ 40,000	
Mastiff Light Key Tube			
Mastiff Plus Key Tube			
PZ Light Key Tube			
Code Key Tube			
Lloyd Key Cabinet			
Key Cabinets			
Emergency Key Cabinet			
<b>Weapon storage</b>			
Weapon Safe	£ 4,000	£ 40,000	
Siegen			
Technomax HS40			
Technomax HS/400 and HS 600			
<b>Miscellaneous</b>			
SMP Ironmaster under floor safes	£ 10,000	£ 100,000	
Protector BT under floor safes	£ 6,000	£ 60,000	
Qualiplan – A0 sized paper storage			
Muller vault room doors Grade 0	£ 6,000	£ 60,000	DIN 4102
Muller vault room doors Grade 1	£ 17,500	£ 17,500	DIN 4102
Muller vault room doors Grade 2	£ 35,000	£ 350,000	DIN 4102
TV Cabinet			
Chemical Cupboards			
Lloyd cash box			
Euro cash box			
Brinks Security Box			
Preserve 30 Chemical Cupboard			½ hour
Preserve 90 Chemical Cupboard			1 ½ hour

# TCO

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