



Datasheet for Free-Standing Safes

Neutron Star—NS

Made in Czech Republic

Free-Standing Safes

<https://charvat-safe.com/free-standing-safes/>

Secure storage of valuables and important documents. Suitable for use in offices, stores or homes.
Certified according to EN 1143-1 in safety classes II. and III.



	Width in cm outer inner	Height in cm outer inner	Depth in cm outer inner	Inner volume in litres	Weight in kg	Certification
NS 1/II	44 32	44 32	46 30	31	77	II. according to EN 1143-1
NS 2/II	44 32	62 50	46 30	48	96	
NS 3/II	44 32	78 66	46 30	63	116	
NS 4/II	60 48	78 66	46 30	95	139	
NS 5/II	60 48	120 108	51 35	181	210	
NS 6/II	80 68	150 138	51 35	328	317	
NS 7/II	120 108	100 88	51 35	332	360	
NS 8/II	93 81	195 183	51 35	519	452	III. according to EN 1143-1
NS 9/II	120 108	195 183	51 35	692	544	
NS 2/III	44 27,5	62 45,5	53 30	38	152	
NS 4/III	60 43,5	85 68,5	53 30	89	245	
NS 5/III	60 43,5	120 103,5	53 30	135	335	
NS 6/III	80 63,5	150 133,5	53 30	254	492	

Description of free-standing safes in security classes II. and III.

A proven and **continuously innovated—for nearly 30 years—“Neutron Star” series of safes**. The traditional design has changed very little and therefore even today no one from the outside can tell which security class it is. This is also a detail that has its merits.

The overall design of the safe is based on the conditions of manufacture, which have not changed much since the beginning. **Unlike our competitors, we have not gone the way of concrete.** Nor did we want to. We wanted to find a way to achieve at least the same security, but with less weight of the whole structure, which increases the price of the safe only when handling it (even the standard says—safes up to 1,000 kg must always be anchored). We found it! **The unique sandwich composition of the fillings is folded and joined to withstand maximum time in case of an attack using different tools.** Each individual layer has its place and reason for being there, and we are constantly evolving the mechanisms to make them better and better.

Outer hinges are not evil—outer hinges are the mark of **mature safes**. Cutting them off doesn't do you any good—prying the door open is prevented by another ingenious locking mechanism. Also, **thanks to the outer hinges, you are able to open the safe up to 200°**, so you won't be breaking your hands into the safe and you can get and see just about anywhere.

The anchoring system and its design meets the strict requirements of the European Standard, which must be able to withstand a load of 5 tonnes. But that's not enough for us—**we put 2 anchor grommets straight into the standard.**

We put a shelf in even the smallest safe, and all Neutron Star safes have variable placement within the internal height—so if something doesn't fit in your safe, simply move the shelf higher or lower, or simply remove it.

The entire safe is painted with a **structural paint**. We do not use powder paint and there are reasons for this. The surface is smooth, so you definitely won't tear your ladies' sweaters on our safes. And if someone does happen to scratch it—it can be easily repaired and the paint will stay on.

The variability of the design is something that makes us able to **offer customized safe-making**. Dimensions are of course within the limit of certification, but the internal configuration can be really varied—from internal boxes, pull-out frame shelves, plates with hooks for storing keys to various holders for weapons and other equipment.

Locks are then a category in themselves—we can offer extra options here too. Choose from 3 basic types of locks? Not enough for you? No problem, we can **combine and link locks to create secure yet backed up solutions.**

If you have an alarm system on your premises, we can prepare the safe to become part of the overall protection—covertly.



CONSTRUCTION

The double-walled construction of the safe is made of high-quality 3 and 1.5 mm thick profiled steel sheet. The unique composition of materials in the intermediate walls guarantees maximum resistance to the use of various tools. The random position of the connection points also increases the time required to overcome. Thanks to this sandwich composition, our safe is equal to competing safes whose intermediate walls are filled with concrete. At the same time, it dramatically reduces transport costs

As standard, two anchor holes (14 mm diameter) in the floor secure the safe against tipping and prevent easy theft. They are positioned diagonally in case there is infrastructure running underneath one of them in the floor. The design of the anchor grommets guarantees a minimum pull-out strength of 5 tonnes per opening.

DOORS

The bi-fold doors are fitted with a certified lock according to the customer's requirements and at least in class A according to European standard EN 1300. The lock is blocked by a three-way opening mechanism, which is operated by an ergonomic metal alloy handle.

When locked, the door is secured by five 20mm diameter, deep chrome plated steel pins locking in three directions. These are fixed so that they can rotate on their axis, giving them freedom to swivel when in contact with the cutting tool. They are secured on the hinge side by a strong, full-height steel profile. Thus, even cutting the hinges does not lead to their opening.

The door is sealed to the body via a foam seal, which softly dampens the sound of the door closing.

The outer hinges allow the vault door to be opened up to an angle of 200 degrees.

If necessary, the open door can be ejected, thus reducing the weight of the safe, for example when moving.

LOCK

The deep-seated lock is blocked by a three-way release mechanism, which is also equipped with a safety device in case the lock is attacked by bumping. A thick hardened plate also provides protection against attack through the outer casing. Further sophisticated mechanisms of the safe provide protection against attack of the lock directly on the opening mechanism.

A standard certified key lock with two original keys can be supplemented or replaced by combination locks, either mechanical or electronic. These can have advanced features such as a time delay, the ability to mute the sound or set up a four-eye system (two codes must be entered to unlock the lock). The batteries are hidden in the keypad on the outside of the door for easy replacement.

The opening mechanism is equipped with a safety lock against brute force attack on the handle.

EQUIPMENT

Includes a shelf/shelves made of 1.5 mm thick steel plate in the color of the safe.

The inner walls are perforated for shelf hooks, which allow the shelves to be adjusted in height.

On the inside of the door there is a manufacturing label with product identification.

The safe can be painted in 4 basic shades: anthracite (RAL 7016), grey-white (RAL 7035), black (RAL 9005) or white (RAL 9003), all with a structural finish.

Configuration options for Neutron Star

Safe and shelves colours:

- RAL 7016
- RAL 7035
- RAL 9003
- RAL 9005

Position of hinges (looking at the safe from the front):

- On the right
- On the left

Main lock on the main door (in A or B grade according to EN 1300):

- Key, certification (A)
- Key, certification (B)
- Mechanical combination, certification (B)
- Electronical combination, certification (B)
- Electronical combination, certification (B) with a system of emergency key lock (B)

Secondary lock on the main door (in A or B grade according to EN 1300):

- Without lock
- Key, certification (A)
- Key, certification (B)
- Mechanical combination, certification (B)
- Electronical combination, certification (B)
- Electronical combination, certification (B) with a system of emergency key lock (B)

Extra anchoring holes:

- Up to ten holes

Additional shelves:

- Up to ten shelves

Inner accessories:

- Inner locker with slat lock

Colors

The safes can be painted in four basic shades with a structural surface. Other colours according to the RAL colour chart—on request.

Anthracite—RAL 7016



Light Grey—RAL 7035



Black—RAL 9005



Signal White—RAL 9003



Why want our safes, specifically

We have been manufacturing safes for more than 30 years and are constantly improving them. We are the ones who know why this is welded in the safe and why that is screwed in. Why this lock is better in this case and why that lock is better in that case.

When we make a promise—we keep it.

We don't blather to the world that we just sold you a safe.
We have clean criminal records and **we put the customer first.**

References

We treat our customers as if they are buying an intimate item and **the less people know about it—the better.**

Among our customers we have individuals, sole traders, ministries and multinational corporations.

Since 1991 we have delivered **over 60,000 safes.**
At the same time, we produce around **2,000 products a year** in our workshop in Smržovka and most of them go to European countries.

We believe that you too will appreciate **honest Czech craftsmanship.**



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