

# DC3.1 XL TEMPEST

First RC4 electromagnetic emanation  
resistant door manufactured in Poland

# DONIMET

Part of ASSA ABLOY



Electromagnetic  
emanation resistance



Burglary resistance





# Donimet

Polish manufacturer of specialized doors

DONIMET



## About Company

Donimet is a production company founded in 1988, in which from the beginning of its activity emphasis was placed on high quality of production and professional customer service, thanks to which the company gained a reputation and recognition on the market.

Our offer includes products with high safety and usability parameters, meeting the requirements of European standards and industry requirements, confirmed by authorized research institutes, such as: Institute of Precision Mechanics, Building Technology Institute and Maritime Advanced research Centre. Donimet products play a very important role in utility facilities, ensuring the protection of the facility and the safety of its users. Since 2020, Donimet has been part of the ASSA ABLOY group, a leader in the access control market in the world.

## Benefits of working with us

- Production located in Poland
- Support of a large ASSA ABLOY group - security of cooperation and supply chain
- Many years of experience and expert technical knowledge
- Support in Polish and English
- Certification by accredited research institutes
- A wide range of doors in various security classes

## How does the process of order implementation look like?



Order Lead-time: up to 8 weeks

# Electromagnetic emanation resistant door in RC4 class

**Did you know that every device through which current flows is a source of electromagnetic radiation?**

Each of these signals carries some information. All you have to do is read them. Information from the computer can be intercepted through the use of specially adapted antennas and by using, for example, water, electricity, heating and air conditioning pipes networks.

There are various methods of protection against electromagnetic radiation. An example of such protection may be an **electromagnetic cabin** in which, for example, computers with top secret information are placed. Such cabins are suitably earthed and the level of electromagnetic radiation coming out is so low that it is impossible to read.

Another way is to **shield the room**, which involves closing it in such a way that no connection can be made. This is achieved, among other things, by using special electromagnetic elements. As a result, it is not possible to eavesdrop on or connect to devices operating there - from the telephone to computers and other systems. However, the weak point of such a solution is the door and its possible electromagnetic leakage. That's why Donimet's team of experienced engineers developed the **DC3.1 XL TEMPEST** door - a solution that provides resistance to electromagnetic emanation.



## Application:

- shielded facilities and rooms,
- all military facilities, state institutions,
- critical infrastructure and others exposed to electromagnetic attack,
- facilities and rooms **exposed to tapping and obtaining** unauthorized access to secret information.



# Electromagnetic emanation resistant door in RC4 class

## DC3.1 XL TEMPEST

They are produced in various dimensions. They are steel doors with profiled rebates on four edges.  
Door leaf of thickness 90 mm are constructed from two zinc plated steel sheets of 2.0 mm thick.

Reinforcements (C-profiles) are used along the edges of the leaf, and a steel construction is placed inside the leaf. The door leaf is filled with mineral wool. The entire perimeter of the frame is made of a special angular steel section profiled from 3 mm thick zinc plated sheet metal with additional copper coating.

Metal rebate seals and metal spring seals are fitted around the perimeter of the door leaf. Metal rebate seals are fitted around the perimeter of the frame.

### Technical characteristics:

- door frame made of a special angular steel section, 3 mm thick, with a metal gasket four edges,
- door leaf made of zinc plated steel sheet, 2.0 mm thick, without additional coverings,
- 90 mm thick with metal gaskets, filled with mineral wool with a density of 60 kg/m<sup>3</sup>,
- four steel welded hinges with bearings,
- three anti-burglary bolts,
- main expansion lock in class 7,
- additional lock (option),
- additional combination lock (option),
- door closer (option).

## Quality confirmed by tests



**Electromagnetic  
emanation resistance**



**Burglary resistance**

Properties	Classification / value	Standard
Shielding effectiveness in case of frequencies	44.7dB to 121.4 dB 30 MHz to 5 Ghz	-
Mechanical strength	class 4	PN-EN 1192: 2001
Burglary resistance	class RC4	PN-EN 1627:2012
Hazardous substances	State Hygiene Institute certificate	It meets the requirements of the decree of the Minister of Health of 26 March 2019, Journal of Laws 2019 item 595

## Surface finish

- powder coated in a colour from the RAL palette
- covered with varnished MDF board
- covered with plywood board veneered with natural oak veneer
- covered with oak wood

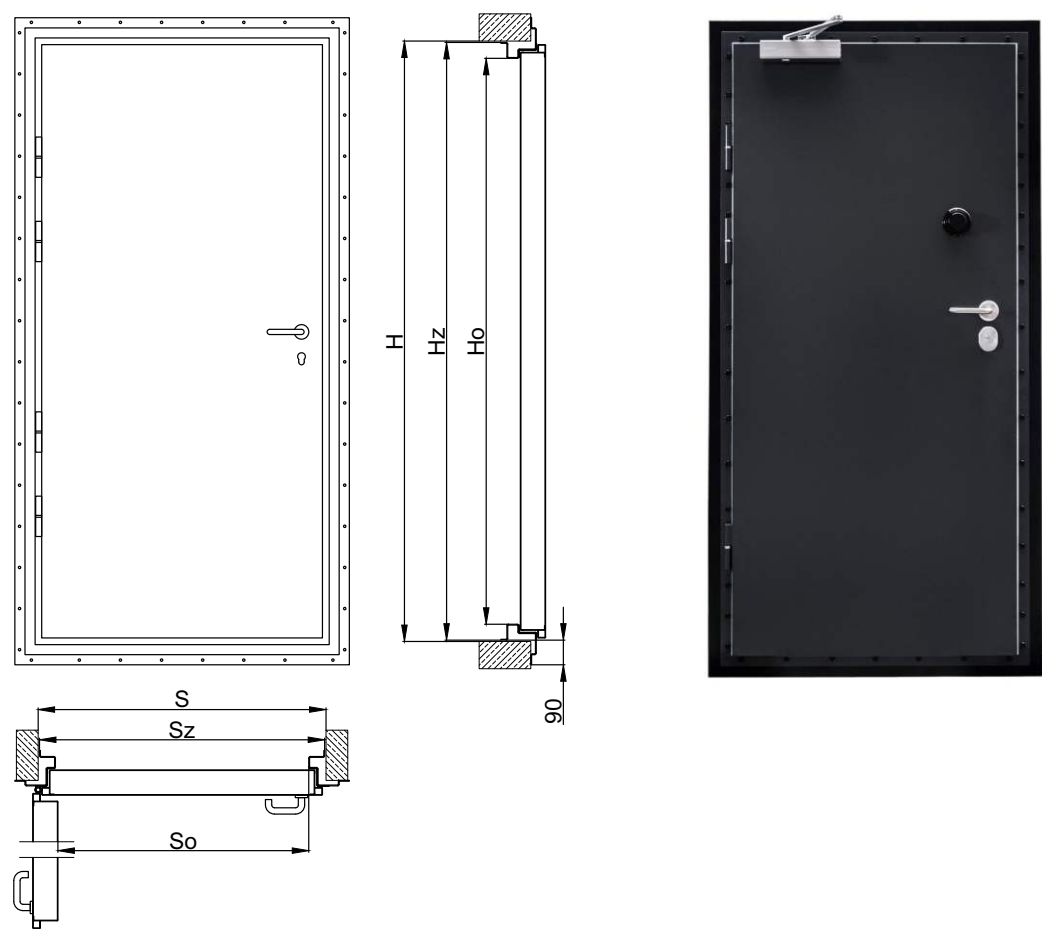
DC3.1 XL TEMPEST doors should be installed in shielded walls of min. 180 mm, designed for this type of room and appropriately designed steel structures.

# Electromagnetic emanation resistant door in RC4 class

### Shielding effectiveness

Measuring range	Field polarisation	Measurement point	Minimum value	Maximum value
30 MHz to 200 MHz	vertical	P1	59,4 dB	112,4 dB
30 MHz to 200 MHz	horizontal	P1	73,4 dB	111,1 dB
200 MHz to 1 GHz	vertical	P1	54,1 dB	108,9 dB
200 MHz to 1 GHz	horizontal	P1	61,2 dB	95,3 dB
1 GHz to 5 GHz	vertical	P1	44,7 dB	91,6 dB
1 GHz to 5 GHz	horizontal	P1	45,6 dB	79,1 dB

### Basic dimensional dependencies



Name	DC 3.1 XL TEMPEST	
Frame		
	Width	Height
Wall opening S/H [mm]	$S=S_z+10$	$H=H_z+10$
External dimension Sz/Hz [mm]	$S_z=S_o+130$	$H_z=H_o+120$
Clearance dimensions So/Ho [mm]	$S_o$	$H_o$





## Contact the expert



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