



SINCE 1978
TAMPERING PREVENTION

INTRODUCING A NEW LEVEL OF EXCLUSIVE SECURITY

NEPTUNESEAL RFID ANTITAMPER



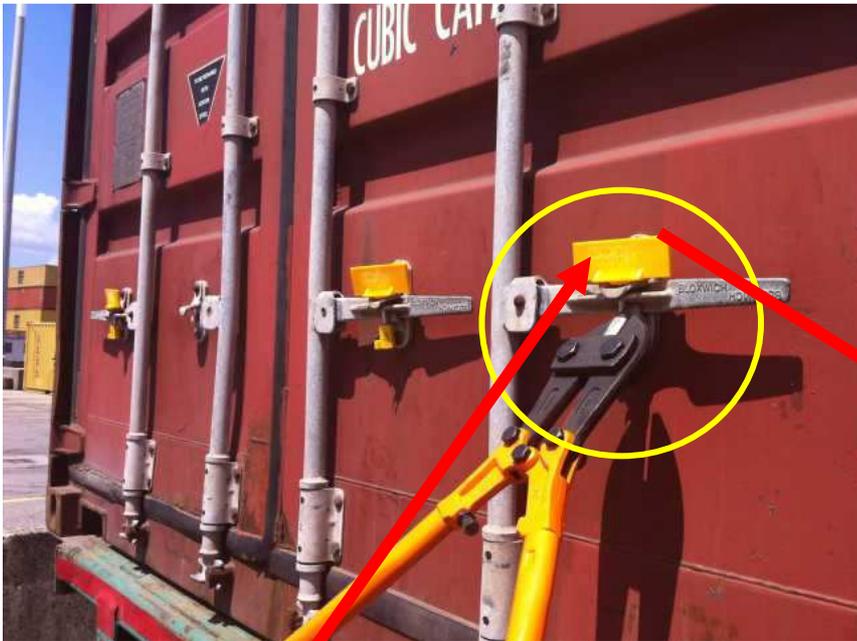
ISO 17712:2013

NEPTUNESEAL RFID ANTITAMPER

DESCRIPTION

Each RFID seal has an integrated tag with its own unique serial number or TID (Tag Identifier) carried on its chip. The TID in the chip's memory is a unique code which cannot be changed and it is required for identifying and protecting the seal against being copied. RFID seals can hold information on the USER MEMORY, read and write data, cancel data, protect data with a password, and also protect the reading and writing etc. An RFID seal can store Information which can either be stored and protected or rather modified depending on the requirements

The evolution of the Neptune seal RFID is the RFID ANTITAMPER.



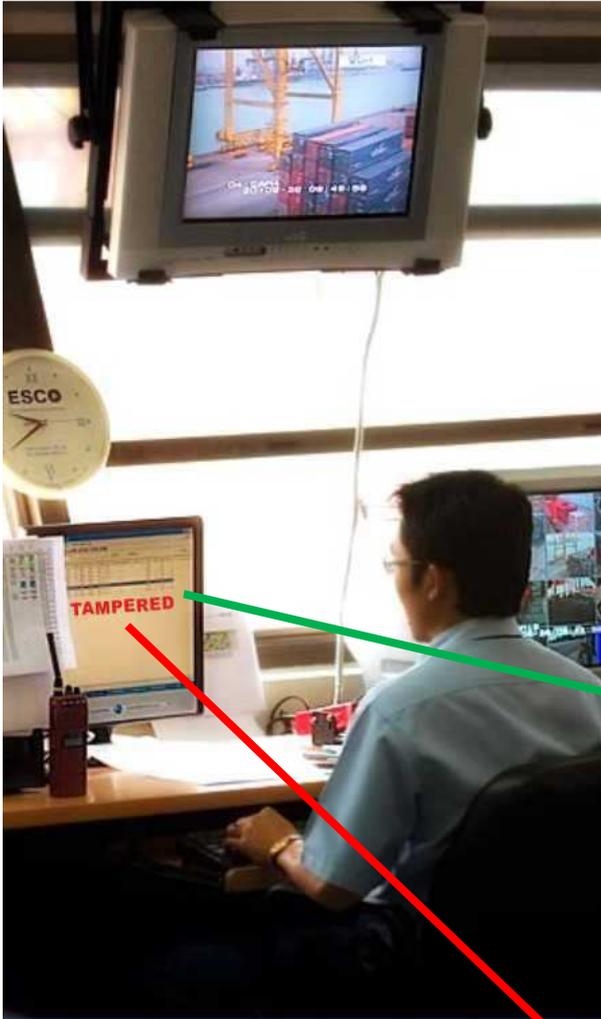
NEPTUNESEAL RFID ANTITAMPER

The standard RFID seals has now progressed to the latest the RFID Antitamper seal. Besides The RFID Anti tamper seal having the features of the Logistics RFID seal it is also capable of recording in its memory any event of tampering by activating a BIT with the status TAG TAMPER ALARM.



**THE MOMENT THE
SEAL IS OPENED
OR TAMEPERED IS
RECORDED ON ITS
MEMORY**

NEPTUNESEAL RFID ANTITAMPER



NEPTUNESEAL RFID ANTITAMPER, can help inspection operators manage RFID gateways quickly and efficiently.

- The key pieces of information that the seal can provide are:
- ° the serial number
 - ° date and time that it has be read
 - ° the number of readings that have been taken
 - ° the sequence of readings in the event that there are two RFID seals on the same container
 - ° the status of the seal (**TAMPARED / UNTAMPARED**)

A CONTAINER WITH AN UNTAMPARED SEAL CAN PASS



A CONTAINER WITH A TAMPARED SEAL IS STOPPED



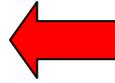
NEPTUNESEAL RFID ANTITAMPER



Radio Frequency Specification	
Frequency	860 – 960 MHz - UHF EPC Global
Reference RF Standard	ISO/IEC 18000-6C
RF Protocol	EPC Class 1 Gen2 / ISO/IEC 18000-6C
Technology	Passive
Integrated circuit	NXP
Mechanical Specification	
Material	Steel + ABS or polystyrene in accordance with : Restriction of Hazardous Substances (RoHS) listed in the European Directive 2002/EC.
IP Protection	IP66
Operative Temperature	- 30°C / + 80 °C
Storage Temperature	- 30°C / + 80 °C
Size Electronic Part (flag)	mm 42x115x4
Metallic pin size	8 mm diameter - length 74 mm
Bolt size	22 mm diameter
Weight	70 g
ISO 17712:2013	yes
Package size	cm 32x25x15
Package weight	5 kg
Package number seal for box	50pcs
Electronic Specification	
Reading distance handheld reader	3 m (depending on reader)
Reading distance gate reader	8 m (depending on reader)
Quality	100% performance tested
Memory read / write	Yes
Cycle read / write	10000
Memory size	128 bit from chip NXP G2iL+
Password protection	yes
Tamper Detection	yes
TID (tag unique identification)	yes
S/N in memory the same normal seal	yes
Data retention	20 year
Integration with handheld reader	commercial reader PDA/ANDROID
Integration with gate reader	commercial industrial reader



OTHER ELECTRONIC CLOSURES FOR CONTAINERS



E LOCK GOLD : REUSABLE ELECTRONIC SEAL

GSM/GPS

E Lock GOLD is fitted with a mobile phone sim card and is compatible with most GSM penta band phone operators worldwide.

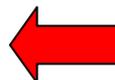
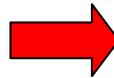
(The only country that does not operate on this band is Japan). It sends the GPS coordinates to your mobile phone.)

MENTORSEAL ACTIVE ELECTRONIC SEAL

MENTORSEAL can be read using gateways or manual readers It has a unique identification number.

Can be read at a distance of at least 15m.

Built from the same parts of the Mechanical NEPTUNESEAL approved ISO 17712:2013



CABLESEAL RFID ANTITAMPER

Besides having all the same features of the RFID LOGISTIC seal CABLESEAL RFID ANTITAMPER records in its memory if it has been tampered by activating the status TAG TAMPER ALARM when it is read.

Built from the same parts of the Mechanical Seal CABLESEAL approved ISO 17712:2013



LEGHORN ORG

SINCE 1978



ISO 9001



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ANTI TAMPERING SPECIALISTS