



Leghorn srl

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Innovative Sealing Systems for tampering prevention

HIGH SECURITY SEALS REQUIREMENTS FACT SHEET

US Customs & Border Protection requests from importers, carrier, brokers and manufacturers to ensure the integrity of their maritime shipments on container\trailer.

Starting from the ASTM F1157 (standard practice for Classifying the Relative Performance of the Physical Properties of Security Seals), the criteria was drafted from ISO\PAS 17712 dtd 1977 and revised May 2003. ASTM F1157 are included only as a guide. The ISO PAS 17712 is the reference for seal acceptance.

The sheet below compares the strength characteristic of LEGHORN STEADYSEAL Bolt lock seal and enclose US Customs and UK Customs Acceptances, along with Traction Test.

Item NEW FORKSEAL barrier seal COMPLIANCE CRITERIA

| Test type | Leghorn N.Fork test | ISO\PAS 17712 Minimum requirements | ASTM Minimum compliance | ASTM Minimum Grade required | Leghorn' Seal Strength Results |
|-----------|--|------------------------------------|--|-----------------------------|--------------------------------|
| Tensile | 20,99 kN (4,689 lbs) | 10,0 kN (2,205 lbs) | 4,44 kN up to 13,34 kN (1000\3000 lbs) | D | C |
| Shear | 4.820 kg-f (12.914 lbs) | 341kg -f (751 lbs) | 340 kg -f to 435 kg -f (751-1000ft - lbs) | D | C |
| Bend | 79,35ft-lbs (107Nm) 1.072 cycles | (37ft - lbs) 50Nm 501 cycles | (36-50ft-lbs) 68Nm 501-1000 cycles | D | C |
| Impact | 45J to 57J (36-42 ft-lbs) | 40.68J (30ft-lbs) | 40.68J to 52.90J | D | C |

ISPS CODE (International Ship and Port facility Code) created by IMO,

Requires that vessels and cargoes have to be put in safety:

One of the measures taken to improve the safety and security in container transport is the use of **bolt\bar seals/high security seals - HSS**. Usage of seals will be compulsory with the ISPS code of conduct on July 1st 2004. The usage of HSS will hinder non-authorized container access. To ensure that all containers discharged on July 1st 2004 are sealed, already for all containers loaded as from June 21st 2004 HSS is required. Containers with no HSS seals will automatically be sealed prior gate-in passage at the port terminal by the Line.

So pls see enclosed US and UK Customs Acceptance in Class One by Leghorn NEW FORKSEAL barrier seal as HSS High Security Seals.

Also in compliance with 24H BEFORE MANIFEST RULE (Ensure that all manifests and/or bills of lading or other documentation (including electronic data transmissions) submitted for cargo to be shipped are complete and includes all pertinent seal information.

CT-PAT: Seals are to be affixed at manufacturer point of origin (loading). Seals will be of the high security type as per ISO guidelines (ISO/PAS 17712, Freight Containers-Mechanical Seals), adopted May 2003.

For assistance: ferretti@leghornseals.com

SIT member (Safe and Secure Intermodal transport) in the Container Security Cluster.

Accepted into OSC (Operation Safe Commerce phase III in the U.S.)