

The ROTOBLOC Bolt Seal with Anti-Spin Technology



ISO/PAS 17712 Compliance & Classification

As of October 15, 2008, US Customs & Border Protection (USCBP) set up new requirements for the container seals applied to ocean containers and trailers entering the United States. The requirements are set out in the ISO/PAS 17712 standardization documents, which specify four tests the seals have to comply with. The seals will be divided into three categories according to the tests: Indicative Seals, Security Seals,

and High Security Seals. As a minimum security practice, it is now mandated by USCBP as well as the Customs Trade Partnership Act Against Terrorism (C-TPAT) initiative, that all seals on containers and trailers entering the USA must be secured by High Security Bolt Seals that offer documented and verifiable proof of compliance under ISO/PAS 17712 criteria by an ISO/PAS 17025 Accredited & Certified Laboratory.

Below is a compilation of the ISO/PAS 17712 High Security Seal requirements as well as the test results for the ROTOBLOC Anti-Spin Bolt Seal made by Sealock/Warner Industries. Testing was conducted by the ISO/PAS 17025 Accredited & Certified Laboratory, Dayton T. Brown, Inc. of Bohemia, New York, USA.

Test Results & Compliance Criteria

TEST TYPE	ISO/PAS 17712 MIN. REQUIREMENT	ROTOBLOC TEST RESULTS	ISO/PAS 17712 CLASSIFICATION
SHEAR TEST (Kilogram Force)	341 kgf	907.2 kgf	HIGH SECURITY
BEND TEST (Newton Meters)	50 Nm	55.13 Nm	HIGH SECURITY
TENSILE TEST (Kilo Newtons)	10.00 kN	20.01 kN	HIGH SECURITY
IMPACT TEST (JOULE)	40.68 J	40.68 J	HIGH SECURITY

The ROTOBLOC is an ISO 17712.2 compliant High Security Bolt Seal which consists of a steel bolt and a plastic-coated steel locking chamber. The ROTOBLOC is designed for ISO containers and high value shipments and is a special High Security Anti-Spin Bolt Seal.

Applications

- Intermodal Containers
- Trucks
- Railroad Cars
- Air Cargo Containers
- Tankers
- Wagons
- Doors
- Hatches
- Hazmat Containers

Features

- ISO 17712.2 and C-TPAT compliant.
- Locking insert spins partly to confirm seal integrity.
- The ROTOBLOC Bolt Seal is an Anti-Spin Bolt Seal with unique Anti-Spin Features.
- Tamper evident feature of numbered lugs on the Bolt breaks in case of tampering by spinning.
- High impact plastic cover on locking pin clearly indicates tampering in case of tampering by spinning.
- Removed with bolt cutters.
- Metal Locking Pin and Metal Locking Body both encased in ABS Plastic and both serial numbered with laser.
- Fits on every Container Locking Mechanism and is suitable for sealing the hoof of the container.
- Locking pin is 86 mm long and 10 mm in diameter.
- Locking body is 43 mm long and 21 mm in diameter.
- ROTOBLOC wording is located on bolt head and body base.
- 'H' on top of the bolt head and 'High Security' on the bottom of the body base.

Strength Characteristics

- Average pull apart force is 20.01 kN.
- Average cutting force (shear) is 907.2 kgf.
- Average impact force is 40.68 J.
- Bending moment: 53.13 Nm

Material

- Carbon steel with zinc chromate finish.
- ABS plastic body on locking pin and locking body.

Dimensions

- 10 mm diameter shaft and 24 mm diameter head of the locking pin.
- 43 mm length and 21 mm diameter of the locking body.

Marking/Printing

- Stock seals have serial number laser marked.
- Characters are 5 mm high for easy reading.
- Custom lasing includes characters for company name or logo along with six consecutive numbers.

Colors

- Yellow and White

Packaging

- Standard Packaging: 20 Bolts/Bag – 20 Locking Ends/Bag – 200/Carton
- Carton Dimensions: 9" x 8.5" x 11" (23 cm x 21.5 cm x 28 cm) L x B x H
- Carton Weight: Gross: 29.792 lbs and Net: 28.66 lbs

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The Only Lock That Seals™