

Certification EN 1303

BS EN 1303:2015 is the European Standard which establishes assessment and test criteria for a cylinder to quantify its resistance to physical attack, durability and key security. BS EN 1303:2015 classifies cylinders for locks using an 8-digit coding system. Features assessed include durability, fire resistance, key related security and attack resistance. The resulting 8-digit code can be used to directly compare the performance of one cylinder range against another.

Our HSDT lock has been classified as:

1	6	0	0	0	C	6	D
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1

Category of Use



Grade 1: Used by careful people with low risk of misuse. The key does not break under the applied torque of 2,5 Nm. After the test, the key can be removed from the cylinder and re-used to operate the same cylinder with a torque not exceeding 1,5 Nm.

Euro-Locks result: Grade 1

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Durability



Durability guarantees safety over time. It is measured by the number of cycles the key can endure. The test is performed as follows:

- key entry, 360° rotation, key removal
- key entry, 360° rotation in the opposite direction and key removal.

Grade 4: 25,000 Cycles

Grade 5: 50,000 Cycles

Grade 6: 100,000 Cycles

Euro-Locks result: Grade 6

3

Door Mass



No requirements applicable for door mass.

Euro-Locks result: Grade 0

4

Fire Resistance



Three grades of suitability for use on fire resistant/smoke-controlled doors:

Grade 0: Not approved for use on fire resistant and/or smoke control door assemblies

Grade A: Suitable for use on smoke control door assemblies

Grade B: Suitable for use on fire resistant and smoke control doors.

No requirements applicable for fire resistance.

Euro-Locks result: Grade 0

5

Personal Safety



No requirements applicable for personal safety.

Euro-Locks result: Grade 0

6

Corrosion and Temperature Resistance



Four grades of corrosion resistance and temperature requirements:

Grade 0: No corrosion resistance requirements - no temperature requirements.

Grade A: High corrosion resistance 96h - no temperature requirements.

Grade B: No corrosion resistance requirement - temperature requirement between -25°C to +65°C.

Grade C: High corrosion resistance 96h - temperature requirement between -25°C and +65°C.

The lock is subjected to a salt spray test to determine its ability to function after exposure to a corrosive environment. The test is carried out in different temperature conditions, and the degree of corrosion resistance is rated (low, high) according to the number of hours.

Euro-Locks result: Grade C

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Key-Related Property Safety



Grade 1: 100 (Min. number of effective variations) / 2 (Min. number of movable blocking parts).

Grade 2: 300 (Min. number of effective variations) / 3 (Min. number of movable blocking parts).

Grade 3: 15,000 (Min. number of effective variations) / 5 (Min. number of movable blocking parts).

Grade 4: 30,000 (Min. number of effective variations) / 5 (Min. number of movable blocking parts).

Grade 5: 30,000 (Min. number of effective variations) / 6 (Min. number of movable blocking parts).

Grade 6: 100,000 (Min. number of effective variations) / 6 (Min. number of movable blocking parts).

Key security is determined by the cylinder or key patent, the number of different keys possible, key duplication protection and the number of pins in the cylinder. Grade 6 ensures the highest level of property security.

Euro-Locks result: Grade 6

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Attack Resistance



Grade 0: no resistance to drilling - no resistance to mechanical attack.

Grade A: 3 to 5 min resistance to drilling - resistance to mechanical attack (except when extracting rotor and/or cylinder).

Grade B: 5 to 10 min resistance to drilling - resistance to mechanical attack (except when extracting rotor and/or cylinder).

Grade C: 3 to 5 min resistance to drilling - resistance to mechanical attack.

Grade D: 5 to 10 min resistance to drilling - resistance to mechanical attack.

These measures reflect the level of resistance to drilling, hooking, breaking, tearing, twisting and forcible rotation. Grade D ensures the highest possible resistance.

Euro-Locks result: Grade D