

Technical requirements – DIN EN 1303

EN 1303:2015 classification

| Classification in accordance with DIN EN 1303:2015 | | | | | | | | | |
|--|-------------------------|------------------------|--|----------------------|----------------------------|------------------------------------|---------------------------------|--------------------------|---|
| Classification key position 1-8 | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Tested with certificate | EN 1303 Usage class | EN 1303 Locking cycles / durability | EN 1303 Door mass | EN 1303 Fire resistance | EN 1303 Operation- al safety | EN 1303 Corrosion resistance | EN 1303 Lock security | EN 1303 Resistance to attack ²⁾ |
| | | 1 | 4 – 6 | n.s. | 0, A, B | n.s. | 0 – C | 1 – 6 | 0, A-D |

New series locks

System/Profile

| | | | | | | | | | | |
|-----|----------------|-----|---|---|---|---|---|---|---|-----------------|
| P0 | N6 | – | 1 | 6 | – | B | – | C | 4 | 0 |
| P0 | AEP | – | 1 | 6 | – | B | – | C | 4 | 0 |
| P0 | ASP | – | 1 | 6 | – | B | – | C | 4 | 0 |
| SK6 | ...NP, AB=2, 3 | yes | 1 | 6 | – | B | – | C | 6 | D ²⁾ |
| SK6 | ...NP, AB=KS | yes | 1 | 6 | – | B | – | C | 6 | D |
| SK6 | 1RP06 AB=2, 3 | yes | 1 | 6 | – | B | – | C | 6 | D ²⁾ |
| SK6 | 1RP06 AB=KS | yes | 1 | 6 | – | B | – | C | 6 | D |
| SK6 | 5PE AB=KS | yes | 1 | 6 | – | B | – | C | 6 | D |
| SK6 | 5PE AB=2 | yes | 1 | 6 | – | B | – | C | 6 | D ²⁾ |
| WSW | W10 AB=2 | yes | 1 | 6 | – | B | – | C | 6 | D ²⁾ |

New locking systems

System/Profile

| | | | | | | | | | | |
|-----|---|-----|---|---|---|---|---|---|---|-----------------|
| SK6 | Vector profile Rib Extra | yes | 1 | 6 | – | B | – | C | 6 | 0 |
| SK6 | Vector profile Rib Extra AB=1, 2, 3 | yes | 1 | 6 | – | B | – | C | 6 | D ²⁾ |
| SK6 | Vector profile Rib Extra AB=KS | yes | 1 | 6 | – | B | – | C | 6 | D |
| SK6 | Blocking wave undercut extra code level | yes | 1 | 6 | – | B | – | C | 6 | 0 |
| SK6 | Blocking wave undercut extra code level AB=1, 2 | yes | 1 | 6 | – | B | – | C | 6 | D ²⁾ |
| SK6 | Blocking wave undercut extra code level AB=KS | yes | 1 | 6 | – | B | – | C | 6 | D |
| SK6 | Multi-profile plus | yes | 1 | 6 | – | B | – | C | 6 | 0 |
| SK6 | Multi-profile plus AB=1, 2, 3 | yes | 1 | 6 | – | B | – | C | 6 | D ²⁾ |
| SK6 | Multi-profile plus AB=KS | yes | 1 | 6 | – | B | – | C | 6 | D |

Note: Intrusion resistance class 2 is also achieved with AB=1, 2, 3 in combination with a class ES2 ZA security fitting.

n.s. No requirements

1) Tested by a testing institute accredited in accordance with DIN EN 17025 and certificate from a certification body accredited in accordance with DIN EN 45011 (e.g. DIN CERTCO, PIV CERT)

2) Intrusion resistance classes C and D require no pulling protection if the cylinder is used with drilling protection in combination with a class ES2 ZA security fitting with pulling protection.

The 8-digit classification of DIN EN 1303 / 2015

At a glance

With the enactment of DIN EN 1303/2015 the classification key was changed from the 2005 version. Classes 0, A and B were created for position 4, fire resistance. The new classifications 0, A, B, C, D were created for position 8, intrusion resistance.

An overview of the current IKON systems / profiles and requirements in accordance with DIN EN 1303 is provided below.








Example:

SK6, multi-profile plus with AB=KS

| | |
|------------------------------------|---|
| Usage class (position 1): | 1 |
| Durability (position 2): | 6 |
| Fire resistance (position 4): | B |
| Corrosion resistance (position 6): | C |
| Lock security (position 7): | 6 |
| Intrusion resistance (position 8): | D |

| Position | Name | Explanation | Classification and requirements in accordance with DIN EN 1303/2015 | | | | |
|----------|-----------------------------|--|---|--|--|-------------------------|---------------------|
| 1 | Usage class | Function test | 1 | For users with greater incentive to be careful and a lower probability of abuse. The locking cylinder must be operable at temperatures between -25°C and +65°C and with a torque of 1.5 Nm. The key must withstand a torque of 2.5 Nm. | | | |
| 2 | Locking cycles / durability | A locking cylinder with new original key must provide a specific number of locking cycles | 4 | 25.000 cycles | | | |
| | | | 5 | 50.000 cycles | | | |
| | | | 6 | 100.000 cycles | | | |
| 3 | Door mass | No requirements on locking cylinders | - | | | | |
| 4 | Fire resistance | Currently according to the testing criteria as defined by DIN EN 1634-1. The fire resistant effect of the door must not be impaired by the locking cylinder. | 0 | Not approved for use on fire doors/smoke protection doors | | | |
| | | | A | Suitable for use on smoke protection doors | | | |
| | | | B | Suitable for use on fire doors and smoke protection doors | | | |
| 5 | Operational safety | No requirements on locking cylinders | - | | | | |
| 6 | Corrosion resistance | Locking cylinders must conform to the requirements of Class 3 according to DIN EN 1670 | 0 | No requirements | | | |
| | | | A | High corrosion resistance, no temperature resistance | | | |
| | | | B | No corrosion requirement, temperature requirement from -25°C to +65°C | | | |
| | | | C | High corrosion resistance, temperature requirement from -25°C to +65°C | | | |
| 7 | Lock security | Consists of a combination of several requirements | | Minimum number of effective differences | Minimum number of moving tumblers | Levels with equal depth | |
| | | | | | | Maximum number | next to one another |
| | | | 1 | 100 | 2 | 100% | - |
| | | | 2 | 300 | 3 | 70% | 2 |
| | | | 3 | 15.000 | 5 | 60% | 2 |
| | | | 4 | 30.000 | 5 | 60% | 2 |
| | | | 5 | 30.000 | 6 | 60% | 2 |
| | | | 6 | 100.000 | 6 | 50% | 2 |
| | | | | Drilling time in minutes | Resistance | | |
| | | | | Maximum duration | Total duration against pulling force in kN | | |
| 8 | Intrusion resistance | Consists of a combination of several requirements | 0 | - | - | - | |
| | | | A | 3 | 5 | | |
| | | | B | 5 | 10 | | |
| | | | C | 3 | 5 | 10 | |
| | | | D | 5 | 10 | 15 | |

Technical requirements – Mechanical locking cylinders

| Standard | Essential requirements | IKON locking cylinders | Approval number / registration number |
|---|--|---|---|
| DIN EN 1303 | For locking cylinders for locks, see table on from page 6 | Profile locking cylinder | |
| DIN 18 252 | DIN 18 252 Profile cylinder with pin tumblers for door closers | For profile double, half and knob cylinders, see table on from page 40 | 1303-2005 / 1303-2017 |
|  For doors with special security re-quirements | DIN 18 252 Profile cylinder with pin tumblers for door closers | Profile double, half and thumb turn profile cylinders System WSW (series locks) • with drilling protection Series locks and locking cylinders in locking systems | 8V23/34V20 |
| | For classification, see table from page 6 | System SK6 System SK6 blocking wave | 8V22/34V19 8V22/34V19 |
|  Class B VdS 2183 list of recommendations | Guidelines for mechanical security devices, locking cylinders with individually keyed locks, Requirements and testing methods, VdS 2156 -1 and Guidelines for mechanical security devices, locking cylinders and locking systems, requirements and testing methods, VdS 2386 | Profile double, and half cylinders, series locks and select locking cylinders in locking systems after coordination with ASSA ABLOY Sicherheitstechnik GmbH System SK6 • with drilling protection ¹⁾ • with drilling and pulling protection System SK6 blocking wave • with drilling protection ¹⁾ • with drilling and pulling protection | M 104 333 M 104 334 M 198 342 M 198 343 |
|  Use for switching devices, burglary systems, VdS 2299 list of recommendations | Guidelines for mechanical security devices, profile cylinders for switching devices in burglary systems Class B+ , VdS 2119 recognised | Profile double and half cylinders, series locks System SK6 – blocking wave, SK6-SPE • with drilling protection ¹⁾ • with drilling and pulling protection System SK6 – 1RP06 • with drilling protection ¹⁾ • with drilling and pulling protection System WSW • with drilling and pulling protection | M 198 342 M 198 343 M 104 333 M 104 334 M 102 399 |
|   | Requirements and testing methods, VdS 2156-1 and Guidelines for mechanical security devices, locking cylinders and locking systems, requirements and testing methods, VdS 2386 | Profile double, and half cylinders, H/GH systems System SK6 ²⁾ System SK6 blocking wave | M 102 409 M 112 339 M 110 342 |
|   | VdS Home guidelines for mechanical security devices for houses and apartments Requirements and testing methods VdS 3541 | Profile double, and half cylinders, series locks System SK6 – 1RP06, ..NP, FP04 | H110302 H110303 |

¹⁾A security fitting with cylinder cover (pulling protection) is required for cylinders without pulling protection

²⁾In preparation for Vector rib extra