

Technical requirements of DIN EN 1303 and DIN 18 252.

Classification EN1303/2005 and DIN 18252/2006

Classification as per DIN EN 1303/2005										DIN 18252 : 2006		
Positions 1 - 8 of the DIN classification key	1	2	3	4	5	6	7	8				
	EN 1303	EN 1303	EN 1303	EN 1303	EN 1303	EN 1303	EN 1303	EN 1303	EN 1303	EN 1303	Rating 2 ¹⁾	tested and certified 1 ¹⁾
	tested and certified 1 ¹⁾	Category of use	Durability	Door mass	Fire resistance	Corrosion resistance and temperature	Safety	Key related Security	Attack resistance 2 ¹⁾			
	1	4 - 6	no req.	0 - 1	no req.	0 - C	1 - 6	0 - 2				

New individual lockings

System / Profile

P0	N1	-	1	6	-	1	-	C	4	0	70	-
P0	AEP	-	1	6	-	1	-	C	4	0	70	-
P0	ASP	-	1	6	-	1	-	C	4	0	70	-
TK5	N2	-	1	6	-	1	-	C	4	0	70	-
TK5	N2 AB=1, 2	yes	1	6	-	1	-	C	4	2 ²⁾	71 ²⁾	optional
TK5	N2 AB=KS	yes	1	6	-	1	-	C	4	2	71	optional
SK6	FP04, AB=1,2	yes	1	6	-	1	-	C	6	0	80	standard
SK6	FP04 AB=3	yes	1	6	-	1	-	C	6	2 ²⁾	82 ²⁾	optional
SK6	FP04 AB=KS	yes	1	6	-	1	-	C	6	2	82 ²⁾	optional
SK6	...NP AB=2,3	yes	1	6	-	1	-	C	6	2 ²⁾	82 ²⁾	standard
SK6	...NP AB=KS	yes	1	6	-	1	-	C	6	2	82	optional
SK6	1RP04 AB=2,3	yes	1	6	-	1	-	C	6	2 ²⁾	82 ²⁾	standard
SK6	1RP04 AB=KS	yes	1	6	-	1	-	C	6	2	82	optional
SK6	5PE AB=KS	yes	1	6	-	1	-	C	6	2	82	optional
SK6	5PE AB=2	yes	1	6	-	1	-	C	6	2 ²⁾	82 ²⁾	standard
WSW	W10 AB=2	yes	1	6	-	1	-	C	6	2 ³⁾	82 ³⁾	standard

New locking systems

System / Profile

SK6	Vector	yes	1	6	-	1	-	C	6	0	80	-
SK6	Vector AB=1, 2, 3	yes	1	6	-	1	-	C	6	2 ²⁾	82 ²⁾	optional
SK6	Vector AB=KS	yes	1	6	-	1	-	C	6	2	82	optional
SK6	Locking wave undercut	yes	1	6	-	1	-	C	6	0	80 ²⁾	-
SK6	Locking wave Undercut Extra Code Level AB=1, 2	yes	1	6	-	1	-	C	6	2 ²⁾	82 ²⁾	optional
SK6	Locking wave Undercut Extra Code Level AB=KS	yes	1	6	-	1	-	C	6	2	82 ²⁾	optional
SK6	Multiprofile plus	yes	1	6	-	1	-	C	6	0	80	-
SK6	Multiprofile plus AB=1, 2, 3	yes	1	6	-	1	-	C	6	2 ²⁾	82 ²⁾	optional
SK6	Multiprofile plus AB=KS	yes	1	6	-	1	-	C	6	2	82	optional

Annotations: Impact resistance class 2 is also achieved using AB=1, 2, 3 in conjunction with security hardware meeting ES2 ZA.

k. A.

no requirements

1) Tested by a DIN 17025 approved testing centre and certified by a DIN 45011 approved certification body (i.e. DIN CERTO, PIV CERT)

2) Cylinders meeting impact resistance class 1 and 2 do not have to be equipped with extraction protection, if they are intended to be used in conjunction with security fitting class ES2 ZA with extraction protection.

3) For impact resistance class 2 a suitable security fitting class ES2 ZA with extraction protection is required.

Overview on the 8-digit classification of DIN EN 1303 / 2005

The key classification changed fundamentally with the introduction of the new DIN/ EN 1303 compared to the 1998 edition. The 7th digit 'locking security' was divided into 2 separate keys with changed requirements. The summary outlined below illustrates the changes in detail. Division into 'locking security' and 'attack resistance' it reflects the reality considerably more, since it also allows premium systems without drilling protection and /or extraction protection the highest locking security ratings.

The following table shows an overview of current IKON systems / profiles as well as DIN EN1303 requirements.





Example:

SK6, Vector with ABS=KS
 Usability class (position 1): 1
 Durability (position 2): 6
 Fire resistance (position 4): 1
 Corrosion resistance (position 6): C
 Locking reliability (position 7): 6
 Attack resistance (position 8): 2

Position	Name	Explanation	DIN EN 1303 /2005 classification and requirements							
1	Usability class	Functionality test	1	For highly motivated users showing a high degree of accuracy and a low potential for misuse. The locking cylinder must be operational at temperatures between -20°C and +80°C and a torque of 1.5Nm. The key must withstand a torque of 2.5Nm.						
2	Locking cycles / Durability	A locking cylinder with a new original key must achieve a certain number of locking cycles.	4	25.000 cycles						
			5	50.000 cycles						
			6	100.000 cycles						
3	Door mass	No requirements on locking cylinder	-							
4	Fire resistance	Currently testing criteria of DIN EN 1634 1 are valid, which stipulates that the fire-retardant effect of the door must not be affected by the locking cylinder.	0	No requirements						
			1	DIN EN 1634 1 or EN 1634 2 requirements						
5	Operational reliability	No requirements for locking cylinders	-							
6	Corrosion resistance	Locking cylinders must meet class 3 requirements outlined in DIN EN 1670.	0	No requirements						
			A	High corrosion resistance, no temperature resistance						
			B	No corrosion resistance, temperature requirement from -20°C to +80°C						
			C	High corrosion resistance, temperature requirement from -20°C to +80°C						
7	Locking reliability	Consists of a combination of several requirements.		Minimum of effective differences	Minimum of moving tumblers	Levels of equal depth.				
						Maximum	side by side			
			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			
			8	Attack resistance	Consists of a combination of several requirements.		Drilling duration in minutes		Resistance	
							Maximum	Total duration attraction in kN		
0	-	-				-				
1	3	5				15				
2	5	10				15				

Technical requirements

Mechanical locking cylinders

Standard	Requirements	IKON locking cylinder	Approval / registration number
DIN EN 1303	Locking cylinders for locks as per table shown on page B 5	Profile cylinders	
DIN 18 252	DIN 18 252 Profile cylinder with pin tumblers for door locks	Profile double, half and knob cylinders (see table on page B 5)	
 <p>For doors with particular security requirements</p>	DIN 18 252 Profile cylinder with pin tumblers for door locks	Profile double, half and knob cylinders System WSW (individual lockings) · with anti drilling protection	8V23
	classification see table on page B11	Individual lockings and locking cylinders pertaining to locking systems System TK5 · with anti drilling protection · with drilling and extraction protection	8V20
	classification see table on page B11	System TK5-Locking wave System SK6 System SK 6 locking wave	8V21 8V22 8V22
		Profile double, half and knob cylinders for individual lockings and selected locking cylinders pertaining to locking systems by agreement with Assa Abloy Sicherheitstechnik GmbH	
 <p>Class B VdS 2183 recommendations</p>	Guidelines for mechanical security devices Locking cylinders with individual registered and restricted locking, requirement and testing methods VdS 2156-1 and guidelines for mechanical locking devices, locking cylinders and locking systems, requirement and testing methods VdS 2386	System SK6 · with anti drilling protection1 · with drilling and extraction protection	M 104 333 M 104 334
		System SK6-Locking wave · with anti drilling protection1 · with drilling and extraction protection	M 198 342 M 198 343
 <p>Use of switching devices in intruder alarm systems VdS 2299 recommendations</p>	Guidelines for mechanical security devices Profile cylinders for switching devices in class B+ intruder alarm systems VdS 2119 certified	profile double and half cylinders for individual lockings System SK6 locking wave, SK6-SPE · with anti drilling protection1 · with drilling and extraction protection	M 198 342 M 198 343
		System SK6-SK6, 1RP04 · with anti drilling protection1 · with drilling and extraction protection	M 104 333 M 104 334
		System WSW · with drilling and extraction protection	M 102 399
		Profile double, half and knob cylinders, H-/GH-systems System SK6 System SK6-Locking wave	M 102 409 M 112 339
	VdS home-guidelines for mechanical security devices for home and apartment requirement and testing methods VdS 3541	Profile double, half and knob cylinder, individual lockings System SK6 - 1RP04, 1RP60, ..NP, FP04	H110302

1 Cylinders meeting impact resistance class 1 and 2 do not have to be equipped with extraction protection if they are intended to be used in conjunction with security fitting with extraction protection.