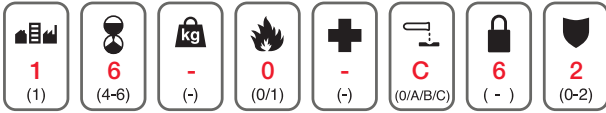




SUPERIOR CYLINDERS RATING according to BS EN 1303:2005 (Licence No. KM559658)



Digit 1 Category of use

One category is identified:
Grade 1: Keys shall resist a torque of 2.5Nm and still be usable.

Digit 2 Durability

Three grades are identified according to the number of test cycles achieved:
Grade 4: 25 000 cycles
Grade 5: 50 000 cycles
Grade 6: 100 000 cycles

Digit 3 Door mass

No requirement.

Digit 4 Fire resistance

Two grades are identified as follows:
Grade 0: not suitable for fire/smoke resistant door assemblies.
Grade 1: suitable for fire/smoke resistant door assemblies subject to satisfactory assessment of the contribution of the cylinder to the fire resistance of the specified fire/smoke door assemblies. Such assessment is beyond the scope of this European standard (see EN 1634-1).

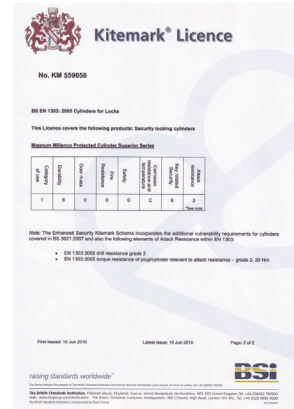
Digit 5 Safety

No requirement.

Digit 6 Corrosion and temperature resistance

Four grade are identified as follows:
Grade 0: no corrosion or temperature resistance requirements.
Grade A: BS EN 1670 Grade 3 corrosion resistance (96 hours NSS) – no temperature resistance requirement.
Grade B: no corrosion resistance requirement – resistance to -20/+80°C temperature extremes.
Grade C: BS EN 1670 Grade 3 corrosion resistance – resistance to -20/+80°C temperature extremes.

Note:
- No distinction is made between the inside and the outside of either the cylinder and/or the door.
- On completion of the test, the cylinder must operate using a maximum 1.5Nm torque on the key.



Digit 7 Key related security

Six grades are identified and the principal requirements are summarized in Table 1 below:

Table 1. Key related security

	Grade					
	1	2	3	4	5	6
Minimum number of effective differs	100	300	15 000	30 000	30 000	100 000
Minimum number of movable levers, pins, discs, etc.	Yes	Yes	No	No	No	No
Coding on key could disclose combination	Yes	Yes	No	No	No	No
Torque resistance of plug	2.5Nm	5Nm	15Nm	15Nm	15Nm	15Nm

Digit 8 Attack resistance

Three grades are identified and the principal requirements are summarized in Table 2 below:

Table 2. Attack resistance

	Grade		
	0	1	2
Resistance to drilling (nett drilling time)	–	3 mins	5 mins
Resistance to chisel attack (number of defined blows)	–	30	40
Resistance to twisting attack (number of defined twists)	–	20	30
Resistance to plug/cylinder extraction (pull load)	–	15kN	15kN