

CLASSIFICATIONS AND PERFORMANCE STANDARDS

The below information will provide insight into the fire tests and standards on FORMANI handles.

Formani handles have approval of conformity as per SKG-IKOB EN 1906: 2021 certificate available on request.

EN 1906:2012

These standard details performance requirements and test methods in relation to corrosion resistance, security and other aspects pertaining to the application of lock and latch furniture on a rose or plate.

EN 1906 has a grade scheme of 8 categories in total for this standard, also known as digits and each grade/digit refers to a particular feature which is measured against the standards requirements. They are:

1. Category of Use
2. Durability
3. Test Door Mass
4. Fire Resistance
5. Safety
6. Corrosion resistance
7. Security
8. Type of Operation

The test results on the FORMANI handles varies with FORMANI BASICS to the rest of the collections as follows

The BASICS Collections

The classification Code awarded to the Basics collection is:

3	7	-	B	0	3	0	B
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This code can be broken down into the following grades/digits:

1. Category of Use **(3)**: high frequency of use by public or others with little incentive to exercise care and with a high chance of misuse, e.g. public office doors;
2. Durability **(7)**: 200,000 cycles
3. Test Door Mass **(-)**: No Classification
4. Fire Resistance: **(B)**: Suitable for use on fire/smoke door assemblies (tested with 200,000 test cycles)
5. Safety: **(0)**: Normal Use
6. Corrosion Resistance: **(3)**: High Resistance – 96 hours of salt spray test
7. Security: **(0)**: is not suitable for burglary resistant doors
8. Type of Operation **(B)**: Spring Loaded levers

Other FORMANI HANDLE Collections

The Classification code for the other FORMANI handles including Piet Boon One, Tense, Nour etc has a higher rating for as per the list on the certificate shown in the following pages is:

4	7	-	B	0	4	0	B
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This code

4	7	-	B	0	4	0	B
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 can be broken down into the following grades/digits:

1. Category of Use (4): high frequency on doors with are subject to frequent violent use: eg football stadiums, public toilets etc
2. Durability (7): 200,000 cycles
3. Test Door Mass (-): No Classification
4. Fire Resistance (B): Suitable for use on fire/smoke door assemblies (tested with 200,000 test cycles)
5. Safety (0): Normal Use
6. Corrosion Resistance (4): Very High Resistance – 240 hours of salt spray test
7. Security (0): is not suitable for burglary resistant doors
8. Type of Operation (B): Spring Loaded levers

This is the FORMANI test results:

Article	Specification	Classification according to EN 1906: 2012	SKG-IKOB ITT (reportnr.)								
FORMANI: BASIC LB-I 19 BASIC LB-II 19 BASIC LB-III 19 BASIC LB-IV 19 BASIC LB-V 19 BASIC LB-VI 19 BASIC LB-VII 19	Stainless steel lever handle on stainless steel roses, with stainless steel cover - spring loaded	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td>3</td><td>7</td><td>-</td><td>B</td><td>0</td><td>3</td><td>0</td><td>B</td></tr> </table>	3	7	-	B	0	3	0	B	14.00343-1
3	7	-	B	0	3	0	B				

Article	Specification	Classification according to EN 1906: 2012	SKG-IKOB ITT (reportnr.)								
FORMANI: PBL15(XL) / 20(XL) / 22 / 23 PBT15(XL) / 20(XL) / 22 / 23 FVL85 / 100 / 110 / 125 FVT85 / 100 / 110 / 125 VL115 / 125 VT115 / 125 EV100 / 101 / 102 BB100 / 102 / 105 JB100 LSQI LSQIII LSQIV LSQV LSQVI	Stainless steel lever handle on Stainless steel roses - spring loaded	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td>4</td><td>7</td><td>-</td><td>B</td><td>0</td><td>4</td><td>0</td><td>B</td></tr> </table>	4	7	-	B	0	4	0	B	16.00793
4	7	-	B	0	4	0	B				

The breakdown on the grades/digits can be found overleaf.

Grades/Digits of Classifications:

1. digit: Category of use	
Grades	1-4

Four grades are identified: -

- Grade 1: medium frequency of use with a high incentive to exercise care and a small chance of misuse, e.g. internal residential doors;
- Grade 2: medium frequency of use by people with some incentive to exercise care but where there is some chance of misuse, e.g. internal office doors;
- Grade 3: high frequency of use by public or others with little incentive to exercise care and with a high chance of misuse, e.g. public office doors;
- Grade 4: high frequency of use on doors which are subject to frequent violent use, e.g. football stadiums, oil rigs, barracks, public toilets, etc.

2. digit: Durability	
Grades	6 or 7
Description of grades	6 = 100.000 cycles 7 = 200.000 cycles

3. digit: Door mass	
Grades	no classification
Description of grades	–

4. digit: Fire resistance	
Grades	0, A, A1, B, B1, C, C1, D or D1
Description of grades	<p>0 = Not approved for use on fire/smoke door assemblies</p> <p>A = Suitable for use on smoke door assemblies</p> <p>A1 = Suitable for use on smoke door assemblies (tested with 200,000 test cycles on a test door)</p> <p>B = Suitable for use on fire/smoke door assemblies (tested with 200,000 test cycles)</p> <p>B1 = Suitable for use on fire/smoke door assemblies (tested with 200,000 test cycles on a test door)</p> <p>C = Suitable for use on smoke and fire-resistant doors with requirements for fire-resistant dividers in backplate, door rose and escutcheon</p> <p>C1 = Suitable for use on smoke and fire-resistant doors with requirements for fire-resistant dividers in backplate, door rose and escutcheon (tested with 200,000 test cycles on a test door)</p> <p>D = Suitable for use on fire/smoke door assemblies with require for a steel core in the handle</p> <p>D1 = Suitable for use on fire/smoke door assemblies with require for a steel core in the handle (tested with 200,000 test cycles on a test door)</p>

5. digit: Safety *	
Grades	0 or 1
Description of grades	0 = Normal use 1 = Safety applications

6. digit: Corrosion resistance	
Grades	0-5
Description of grades	0 = No defined corrosion resistance (no test) 1 = Mild resistance (24-hr salt-spray test) 2 = Moderate resistance (48-hr salt-spray test) 3 = High resistance (96-hr salt-spray test) 4 = Very high resistance (240-hr salt-spray test) 5 = Extremely high resistance to corrosion (480-hour salt-spray test)

7. digit: Security	
Grades	0-4
Description of grades	0 = Furniture not approved for use on burglary resistant doors 1 = Mild burglary resistance 2 = Moderate burglary resistance 3 = High burglary resistance 4 = Very high burglary resistance

8. digit: Type of operation	
Grades	A, B or U
Description of grades	A = Spring-assisted furniture B = Spring-loaded furniture U = Unsprung furniture

In summary, the results confirm that the BASICS range having

3	7	-	B	0	3	0	B
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 means that they have Grade 3 - high frequency of use by public or others with little incentive to exercise care and with a high chance of misuse, e.g., public office doors; had test cycles of 200.000 cycles, is suitable for use on fire/smoke door assemblies, suitable for normal use, has high resistance in a salt spray test of 96 hours, is not suitable for burglary resistant doors and are spring loaded levers.

Where the other FORMANI handles listed on

4	7	-	B	0	4	0	B
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 have higher grades of passing including Grade 4: high frequency of use on doors which are subject to frequent violent use, e.g., football stadiums, oil rigs, barracks, public toilets, etc. a very high resistance of over 240 hours salt spray test.