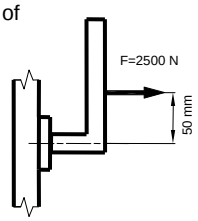
Product information DIN EN 1906 for lever handles

Classification – definition:

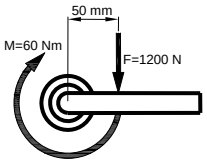
Category of use	Durability	Door mass	Fire resistance	Safety for persons	Corrosion resistance	Security	Type of operation
1 - 4	**6 - 7**	**-**	**0 - 1**	**0 - 1**	**0 - 4**	**0 - 4**	**A - B - U**

Category of use:

grade 1:
medium frequency of use by people with a high incentive to exercise care and with 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.
A tractive pulling force of 1500 N is applied for security class 0.
grade 3:
high frequency of use by public or others with little incentive to exercise with care and with a high chance of misuse, e.g. public office doors
A tractive pulling force of 2500N is applied for security class 1.
The test is carried out with a force of 40 Nm.



grade 4:
high frequency of use on doors which are subject to frequent violent usage, e.g. football stadiums, offshore installations (oil rigs), barracks, public toilets, etc.
The test is carried out with a force of 60 Nm.



Durability:

grade 6: medium frequency of use: 100 000 cycles
grade 7: high frequency of use: 200 000 cycles

Door mass:

No classification.

Fire resistance:

grade 0: not approved for use on fire/smoke door assemblies
grade 1: suitable for use on fire/smoke door assemblies.
A harmonised EN-standard is not yet available.

Safety for persons:

This category is intended for lever handle sets, which are able to cope with a higher tractive pulling force (e. g. for doors close to stairs or where it is possible that the lever handle is used for support.)

grade 0:
for normal use
grade 1:
in case of security requirements – in public area

Corrosion resistance:

grade 0:
no defined corrosion resistance
grade 1:
mild resistance, 24 hours salt atomised spray,
e. g. products for internal areas.
grade 2:
moderate resistance, 48 hours salt atomised spray.
grade 3:
high resistance, 96 hours salt atomised spray, products for external area, e. g. entrance doors.
grade 4:
very high resistance, 240 hours
salt atomised spray
products which are fitted in maritime air or in industrial areas with high air pollution.

Security:

grade 0:
furniture not approved for use on burglary resistant doors
grade 1:
mild burglary resistance – basic security against break in attempts with physical force, e.g. kicking, shoving, mild vandalism.
Grade 2:
moderate burglary resistance - The perpetrator additionally uses simple tools, e.g. screwdriver, small gripping tools and cutters.
Grade 3:
high burglary resistance – perpetrator uses secondary screw driver and a crowbar.
grade 4:
extra high burglary resistance– experienced perpetrator also uses a saw and a hammer.

Type of operation:

type A: spring-assisted furniture
type B: spring-loaded furniture
type U: unsprung furniture

Classification for lever handles by Karcher-Design

37 stainless steel lever handle models by KARCHER – DESIGN
ER19, ER20, (ER21), ER22, ER24, ER25, ER26, ER27, ER28, (ER29), ER30, ER31, (ER32), (ER33), ER34, ER35, (ER36), ER37, (ER43), ER44, ER63, (ER64), ER65, ER66, (ER69), (ER71), (ER72), (ER77), (ER78), ER79, ER80, ER81,ER81B ER82,ER82B, (ER83), (ER83B), ER84
have gained the following classification:

Category of use	Durability	Door mass	Fire resistance	Safety for persons	Corrosion resistance	Security	Type of operation
4*	**7**	**-**	**1****	**1**	**3**	**0**	**B**

*with stainless steel spindle 8 x 8 mm.
Standard version: **category 3** with steel spindle 8 x 8 mm.
For lever handles in brackets **category 3 and safety for persons 0** are effective.
** Fire resistance version only available with steel mounting plate