

BS EN1906 Lever Handle and Knob Furniture

BS EN 1906 classifies door furniture by using an 8 digit coding system. A similar classification applies to all building hardware product standards so that complementary items of hardware can be specified to, for instance, a common level of corrosion resistance, category of use, etc. Each digit refers to a particular feature of the product measured against the standard's performance requirements.

1.Category of Use

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.

4

2.Durability

Two grades of durability are identified:

Grade 6: Medium use-100 000 test cycles

Grade 7: High use-200 000 test cycles

The test undertaken to achieve these grades involve the application of additional forces to the door furniture in order to simulate the conditions of use likely to be experienced in the field.

7

3.Test Door Mass

No requirement

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4.Fire Resistance

Two grades of fire resistance are identified:

Grade 0: Not approved for use on fire /smoke door assemblies.

Grade 1: Suitable for use on fire /smoke door assemblies.

Note: grade 1 classification means only that the furniture has been designed for use on fire / smoke control doors; the actual fire performance achieved (E.g. fire integrity of 30 minutes on a partial glazed timber door etc .)will be contained in a separate fire test report .

1

5.Safety

Two grades of safety are identified :

Grade 0: Normal use

Grade 1: Safety application-to qualify for this grade, handles must have high strength handle-to plate and plate-to door fixing and/or handle-to spindle fixing such that they would withstand a person grabbing in order to prevent falling. It is recommended that only safety furniture is used at the top of cellar steps or other staircase .

1

6.Corrosion Resistance

Five grades are identified according to EN 1670:

Grade 0	No defined corrosion resistance
Grade 1	Mild resistance- minimum requirement for internal use(24h salt spray test)
Grade 2	Moderate corrosion resistance (48h salt spray test)
Grade 3	High corrosion resistance (96h salt spray test)
Grade 4	Extremely high resistance (240h salt spray test)- recommended for use in exposed marine atmosphere or very polluted industrial environments.

Note: Products intended to develop a natural patina(such as bronze or brass)are not required to comply with any requirements.

4

7.Security

Five grades are identified:

Grade 0	Not approved for use on burglary resistant doors
Grade 1	Low burglary resistance
Grade 2	Moderate burglary resistance
Grade 3	High Burglary resistance
Grade 4	Extra High Burglary Resistance

Note: The main requirements include resistance to drilling, close fitting plates or escutcheons to help protect the lock and support the cylinder. They must be resistant to removal from the outside of the door and make provision to minimise the cylinder projection to a maximum of 3mm. Full details of the requirement can be found in BS EN 1960.

0

8.Type of Operations

Three operations types are identified:

Type A	Spring assisted furniture
Type B	Spring Loaded furniture
Type U	Unsprung Furniture

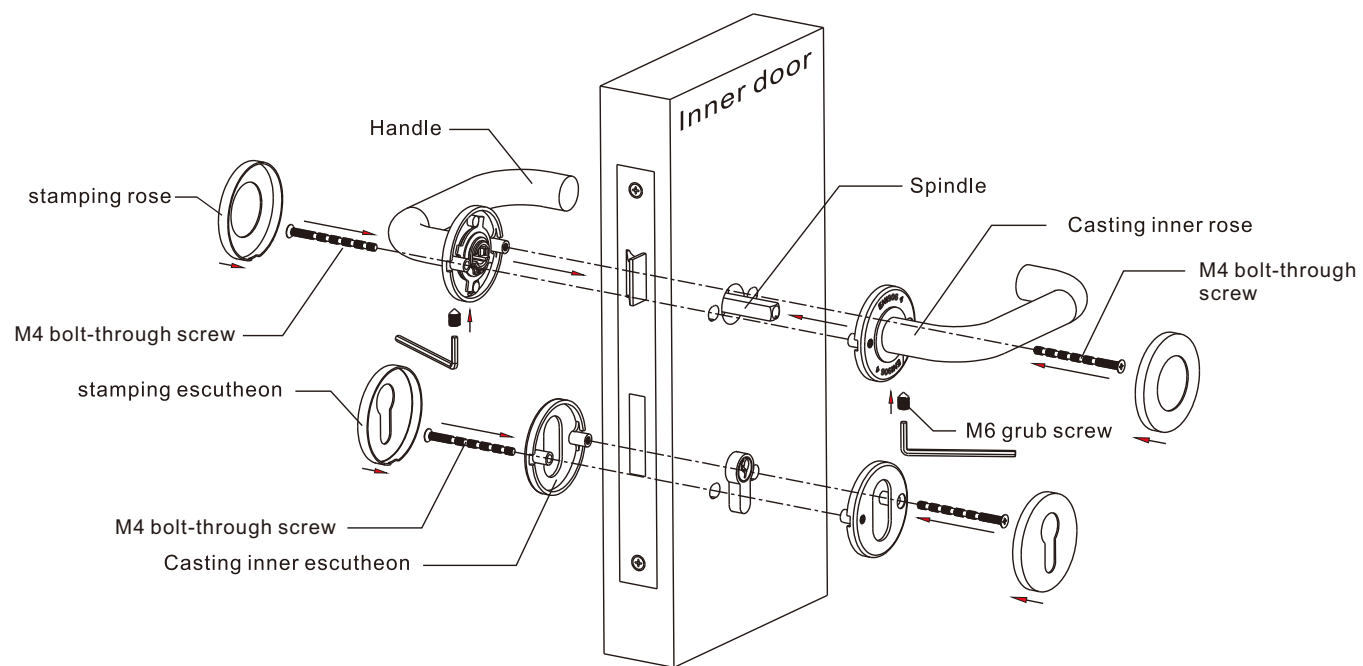
B

The AVANT range of stainless steel lever handle is ideal for the majority of applications, tested to 300,000 cycles, suitable for use in contract, public, commercial, institutional and residential buildings, e.g. public office doors, common area doors etc.

Characteristics such as Longevity and Corrosion Resistance have established stainless steel as popular material in the manufacture of architectural fittings.

Material	Stainless Steel
Finish	Satin, Polished,PVD, AB, AC
Bearing	Lever handle pivot-fitted in rose, with a height holding mechanism
Standard	Certified in compliance with EN1906:2012
Class	47-1140B
Standard	Certified in compliance with EN1634:2012

EN1906 Class 4

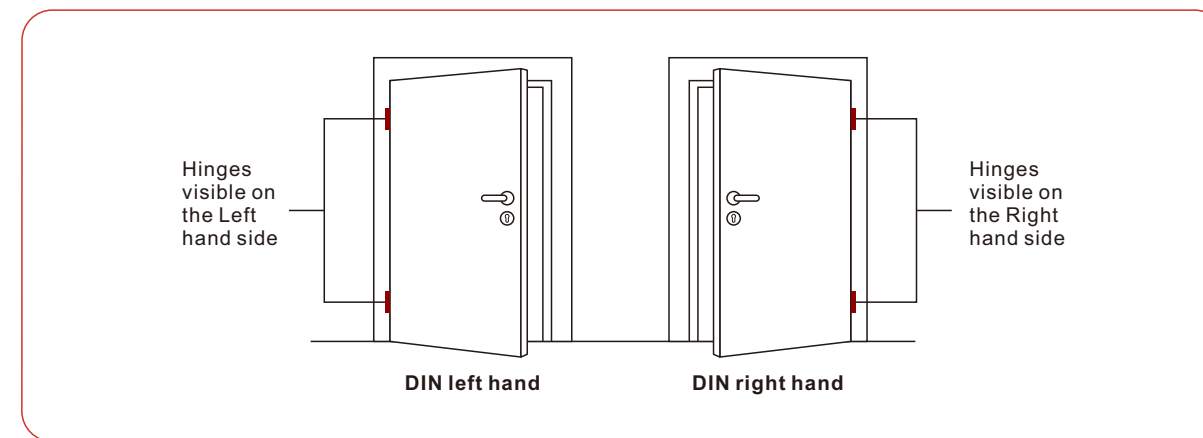


Door Direction-left or Right

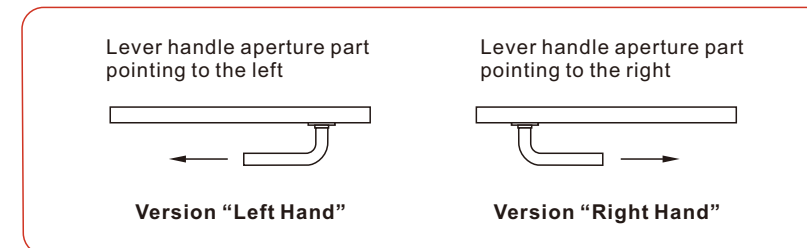
The door direction (left/right) according to DIN 107 is determined as follows:

Visible position of the door hinges on the left: **(DIN) left**

Visible position of the door hinges on the right: **(DIN) right**



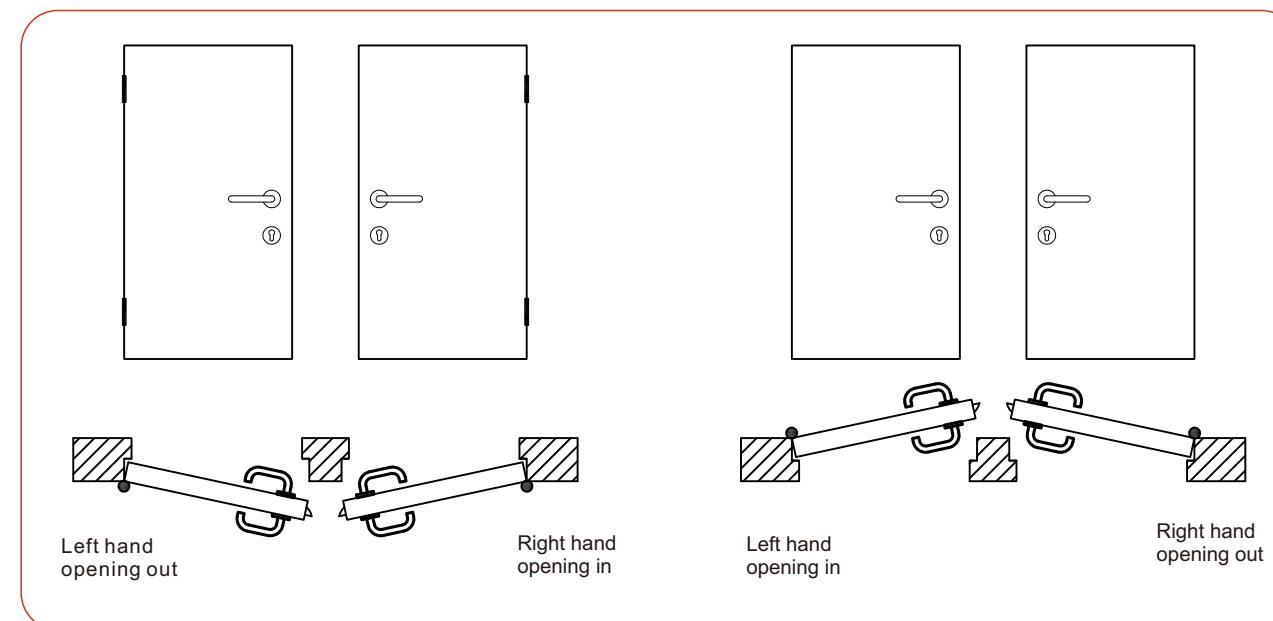
Lever Handle Direction



When selecting alternate sets with asymmetrical handles a distinction to the right/left is required.

It is therefore necessary to observe the particular door direction.

Handing of doors



Category of use	Test Cycles Durability	Door Mass	Fire Resistance	Safety for persons	Corrosion Resistance	Security	Type of operation
4	7	-	1	1	4	0	B

	Supplied With	Door Thickness(mm)
	2 Lever handle aperture parts with handle roses 1 Spindle 8×8×100mm 1 Pair of CB escutcheons 4 Threaded screws M4×60mm,can be shortened	38-55
	2 Lever handle aperture parts with handle roses 1 Spindle 8×8×100mm 1 Pair of PC escutcheons 4 Threaded screws M4×60mm,can be shortened	38-55
	2 Lever handle aperture parts with handle roses 1 Spindle 8×8×100mm 1 Pair of WC escutcheons with red/green indicator disc 1 Locking pin 8×8×65mm 4 Threaded screws M4×60mm,can be shortened	38-55

