

TEST REPORT

EN 1906 Building hardware -

Lever handles and knob furniture - Requirements and test methods

Report reference No. 141212054GZU-007

Tested by (name and signature)......: Credy Chen

Credy chen Blussea. D Approved by (name and signature) ..: Blusea Dong

Date of issue...... July 20, 2016

Report text: 6 pages

Appendix A for product photos and drawings: 4 pages

Revision Page: 1 page

Testing Laboratory name Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

Address...... Block E, No.7-2 Guang Dong Software Science Park, Caipin Road,

Guangzhou Science City, GETDD, Guangzhou, China

Testing location...... Same as above

Applicant's name...... NICKAL S.A.

Address...... Chemin Champs Lovats 5, 1400 Yverdon-les-Bains, Switzerland

Test specification

Standard EN 1906:2012

Non-standard test method N.A.

Test Report Form No....... TTRF EN 1906: 2012 A

TTRF Originator....... Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

Master TTRF..... Dated 2015-12

Test item description Lever handle

Trademark

Model and/or type reference 5074.0800/FS; 5559.0800/FS; 5557.0800/FS

Manufacturer...... Wellcom International Ltd.

Rating: 7 0 U

Summary of testing

The submitted samples COMPLIED with all applicable mechanical clauses of EN 1906:2012 for its classification.

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Originator: Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

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Test item particulars

Classification of installation and use...... Intend use in public high frequency used doors

Test case verdicts

- test case does not apply to the test object: N/A

- test object does meet the requirement...... P (Pass)

- test object does not meet the requirement...... F (Fail)

Testing

Date of receipt of test item...... November 29, 2014, March 07, 2015 and March 23, 2016

Date (s) of performance of tests December 12, 2014 to June 15, 2016

General remarks

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When determining the test result, measurement uncertainty has been considered.

General product information:

3 models of lever handle (listed below), all listed models having the same material and structure, the only difference was the outer shape of handle, the model of '5559.0800/FS' was subjected to full test,

See appendix A product photo and drawing for detailed appearance.

Model	Lever Handle Drawing#	Lever Handle Dimension	Material	Base plate	Door thickness range	Spindle size, mm	Туре
5074.0800/FS	LN199NX	Refer to drawing	SUS304	TLD236ER-P	35 to 70mm	8*8	unsprung
5559.0800/FS	LN216NX	Refer to drawing	SUS304	TLD236ER-P	35 to 70mm	8*8	unsprung
5557.0800/FS	LN200NX	Refer to drawing	SUS304	TLD236ER-P	35 to 70mm	8*8	unsprung

Schedule of Components:

See Appendix A – Product Photos and Drawings for component list and raw material information.

Detail "Ratings" information listed as following:

First digit (Category of use): 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;;

Second digit (Durability): Grade 7 - medium frequency of use: 200, 000 test cycles;

Third digit (Door mass): No classification;

Fourth digit (Fire resistance): - Not included in this test report;

Fifth digit (Safety): Grade 1 - Safety applications;

Sixth digit (Corrosion resistance): Grade 4 - very high resistance;

Seventh digit (Security): Grade 0 - no performance determined;

Eighth digit (Type of operation): type U - unsprung furniture.

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[&]quot;(See remark #)" refers to a remark appended to the report.

[&]quot;(See Appendix #)" refers to an appendix appended to the report.

Throughout this report a comma (point) is used as the decimal separator.

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				EN	1906		
Clause	Requirement –	Test				Result - Remark	Verdict
4	CLASSIFICATI	ON					
4.1	Coding system						_
4.1.2	Category of use	f use:		3	_		
4.1.3	Durability					7	_
4.1.4	Door mass	oor mass				_	_
4.1.5	Fire resistance				_	_	
4.1.6	Safety				1	_	
4.1.7	Corrosion resistance				4	_	
4.1.8	Security				0	_	
4.1.9	Type of operation				U	_	
5	REQUIREMEN	TS					
5.1	General					Refer to Clause 5.2 to 5.13	_
	Sets of furniture shall be classified in grades 1 to 4 in regard to performance requirements specified in 5.2 to 5.13.						
	Materials in products shall not release any dangerous substances in excess of the maximum levels specified in the European material standards.					Informative	_
5.2	Check of spindle and fastening elements The spindle and fastening elements shall be supplied or specified by the manufacturer with every set of lock or latch furniture. The manufacturer shall state clearly the door thickness or range of the door thicknesses for which the furniture is suitable and in the case of spring assisted and spring loaded furniture, the angle of rotation permitted by the design.			Spindle and fastening elements were supplied by manufacturer. Range of door thicknesses: 35 mm to 70 mm.	Р		
5.3	Rotational torque strength Lock or latch furniture shall show no failure of any component and the lever handles or knobs shall still operate after the test. Lever handles or knobs shall not deform permanently more than 5 mm as measured at 50 mm±2mm from the axis of rotation by the dial gauge. Category of use acceptance criteria: Grade 1 2 3 4 Torque (Nm) 20 30 40 50				Rotational torque 40 Nm. Permanent deformation: 2,9 mm	Р	

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5.4 Axial strength of lock furniture or latch furniture Axial load: 800 N. Ρ Permanent deformation: 0,6 mm and fixing There shall be no fail of any component and lever handles or knobs shall still operate after the test. After test the permanent deformation for lever handles or knobs measured at the reference point 75 mm ± 2mm from the axis of rotation shall not increase by more than 2 mm. Category of use acceptance criteria: Grade 4 1 2 3 300 500 800 1000 Load (N) 5.5 Free play and safety 5.5.1 Р Requirement of free play Maximum movement: The maximum total movement measured shall 0.6 mm not exceed the limit as below. Category of use acceptance criteria: Grade 4 Total movement (mm) ≤10 ≤10 ≤6 ≤6 This requirement only applies to lever handles and knobs that will not be driven during the endurance test. 5.5.2 Р Safety requirement No sharp edges can cause injury. When the lock or latch furniture is fitted to the test block there shall be no sharp edges that can cause injury. 5.6 Free angular movement or misalignment Maximum movement: 0.5 mm Р The free angular movement or misalignment shall not exceed the limit as below. Category of use acceptance criteria: Grade 3 4 Total movement (mm) ≤10 ≤10 ≤5 This requirement applies to all furniture with either a fixed or floating spindle. 5.7 Torque of return mechanism 5.7.1 General See item 5.7.2 and 5.7.4

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N/A

N/A

Furniture not approved for use on

burglary resistant doors

Not approved for use on

fire/smoke door assemblies

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MARKING

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Annex A

Annex C

Originator: Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

Requirements for security lock furniture for

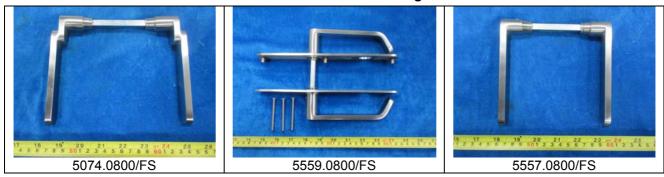
Requirements for lock and latch furniture for

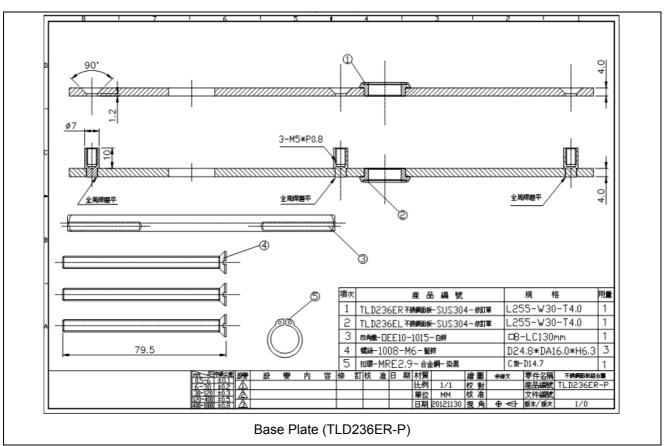
use on burglary resistant doors

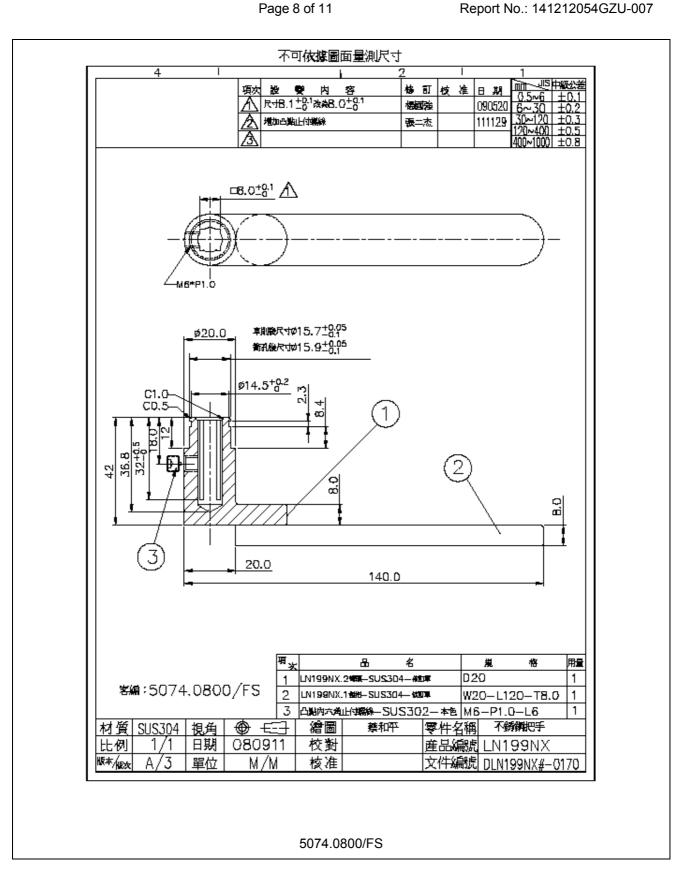
use on fire/smoke door assemblies

Appendix A

Product Photos and Drawings







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答: 5559,0800/FS

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菱

40+1

5559.0800/FS

155±1

N

LN216NX.2 編集-505303- 独町車 LN216ANX.1董也-988308-表式每

D20*L48 L155.0*W20*HB

M6*P1.0*L6

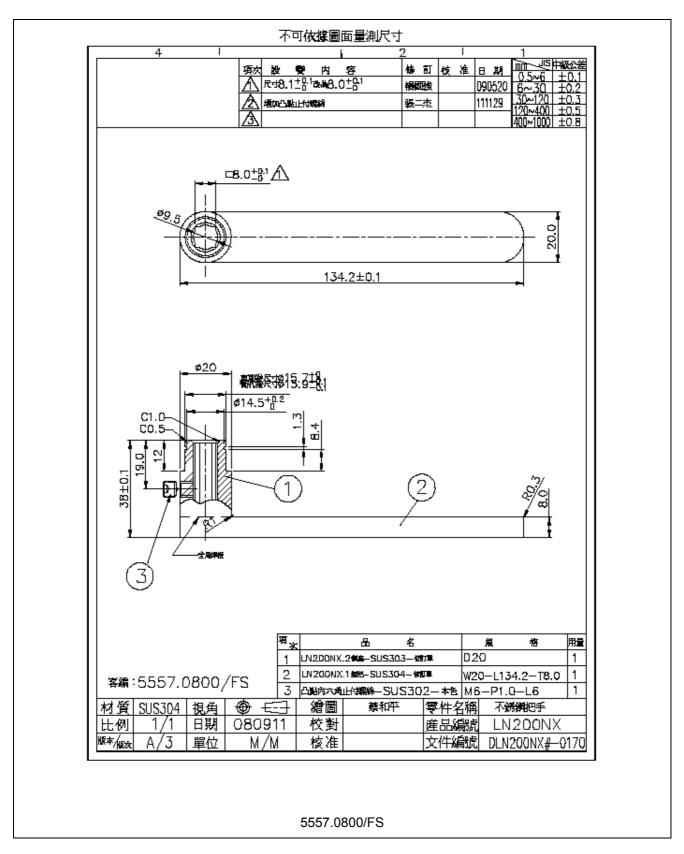
大學學院中國公司

西斯止付養婦—本色 割核 維日

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Report No.: 141212054GZU-007 M6+P1.0+C1.0 ±8.03±81 #和約15.7世界 #乳点Rオが15.9世界

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Revision Page

Revision No.	Date	Changes	Author	Reviewer	
0	July 20, 2016	First issue	Credy Chen	Blusea Dong	

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