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TEST REPORT

REPORT NO. : 2016MA0583	PAGE: 1 OF 4

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Applicant	:	KEYLINE CONSULTING SDN. BHD. Ground Floor Wisma Pineapple, Lot 135, Jalan 1/89B, 3.5 Mile, Off Jalan Sungai Besi, 57100, Wilayah Persekutuan Kuala Lumpur.
Manufacturer	:	KNIGHT HARDWARE INDUSTRY CO.LTD No.36 Shangchong Industry Area, Le Liu Town, Shunde District, Foshan City, Guangzhou, Guangdong Province, China.
Product	:	**Profile Cylinder**
Reference Standard/ Method of test	:	BS EN 1303:2005 – Cylinder for Lock - Requirements and test methods.
Description of sample/ Description of Test Specimen	:	Brand : KEYLINE Model : 602 Type : European Size : 35mm x 35mm
Date Received of Complete Application	:	17 MAY 2016
Job No.	:	J20161390364
Description of Test Results/ Overall Test Result	:	The submitted test samples as described in this test report complied with the requirements of the above reference standard.
Issued date	:	0 5 JUL 2018

Approved Signatory

(MOHD AZLAN BIN MUSTAFFA)
Senior Testing Executive

(MOHD FAIZAR BIN MUSTAFA)
Head
Mechanical & Automotive Section (MAST)
Testing Services Department

SIRIM QAS INTERNATIONAL SDN. BHD. Mechanical & Automotive Section

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Clause	EN 1303:2005	Results	Remarks
2.	Classification		
2.1	Category of use (First digit) For use by people with a high incentive to exercise care and with a small chance of misuse.	Grade 1	Pass
2.2	Durability (Second digit) 100 000 cycles	Grade 6	Pass
2.3	Door Mass (Third digit) No door mass requirement	Grade 0	N/A
2.4	Suitable for use on Fire resistance / smoke control doors (Forth digit) Not approved for use on fire resistant / smoke control door assemblies	Grade 0	N/A
2.5	Safety (Fifth digit) No safety required	Grade 0	N/A
2.6	Corrosion resistance (Sixth digit) No performance determined	Grade A	N/A
2.7	Security related key (Seven digit) 6 movable detainers with Min. number of 30,000 effective differs	Grade 6	Pass
2.8	Attack Resistance (Eight digit) No resistance against drilling; No resistance against mechanical attack	Grade 0	N/A

Note: N/A = Not Applicable

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Mechanical & Automotive Section

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Clause	EN 1303:2005	Results	Remarks
4.2	The key shall not break under the applied maximum torque of 2.5 Nm. After the test, the key shall be re-used to operate the same cylinder with a torque not exceeding 1.5 Nm.	2.50 Nm 0.25 Nm	Pass Pass
4.3	Durability To operate the cylinder with new original key (Grade 6) At completion operate the cylinder with new original key at rotation maximum 1.5Nm	100,000 cycles 0.60-0.65Nm	Pass Pass
4.4	Door Mass (Grade 0)	-	N/A
4.5	Fire resistance (Grade 0)	-	N/A
4.6	Safety	-	N/A
4.7 4.7.1	Corrosion resistance General It shall be possible to operate the profile cylinder with its proper key using maximum torque 1.5Nm after tested according to grade 3 of EN1670	0.25Nm-0.30Nm	Pass
4.7.2	Operation at extreme temperatures Operate the cylinder with its proper key using maximum torque of 1.5Nm at both -25°C and +65°C At each temperature; the correct key can be operated	-	N/A
4.8	Key related security		
4.8.1	(Grade 6)		
4.8.2	Minimum number of effective differs (Grade 6)	100,000	Pass
4.8.3	Minimum of movable detainers (6 pin number)	6 number	Pass
4.8.4	Maximum of Identical Steps (50%, max 2 adjacent)	-	Pass
4.8.5	Direct coding on key	-	Pass

Note: N/A = Not Applicable

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Clause	EN 1303:2005	Results	Remarks
4.8.6	Operation of security mechanism For key related security grades 1, 2 and 3, before the durability test is commenced the new cylinder, with the next closest key to its own key using a torque of 1.5 Nm $^{+0.2}_{0}$ Nm	-	Pass
	For key related security grades 4, 5 and 6, after the durability test has been completed, the cylinder with the next closest key to its own key using a torque of 1.5 Nm $^{+0.2}_{0}$ Nm	-	N/A
4.8.7	Torque resistance of plug/cylinder relevant to key related security	-	Pass
	Grade 6: 15 Nm	15 Nm	Pass
4.9	Attack resistance (Grade 0)	-	N/A
4.9.1	Resistance to attack by drilling	-	N/A
4.9.2	Resistance to attack by chisel	-	N/A
4.9.3	Resistance to attack by twisting	-	N/A
4.9.4	Resistance to attack by plug / cylinder extraction	-	N/A
4.9.5	Torque resistance of plug/cylinder relevant to attack resistance	-	N/A

Note: N/A = Not Applicable

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