

TEST REPORT EN 14041+AC

Resilient, textile and laminate floor covering — Essential Characteristics

Report Reference No	160512089GZU-001
	Supersede the report No. 140806090GZU-003 dated on September 30, 2014
Tested by (name and signature) :	Jones Zhong Junes Mony
Approved by (name and signature):	Jeff Deng Telt Deng
Date of issue	June 15, 2016
Contents	Total test report 19 pages including:
	Report text: 5 pages.
	Appendix A for copy of test report (Issued by: NB 1023): 11 pages.
	Appendix B for ISO 9001 certificate: 1 page.
	Appendix C for Product photos: 1 page
	Appendix D for 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 and Notified Body No. 1023
Applicant's name	Jiangsu Beier Decoration Materials Co., Ltd.
Address	No.999 Chaoyang Rd, Henglin town, Wujin, Changzhou city 213101, Jiangsu province, China
Test specification:	
Standard	EN 14041: 2004+AC: 2006
Non-standard test method	N/A
Test Report Form No	TTRF EN 14041: 2004 C
TTRF Originator	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
Master TTRF	Dated 2013-01
Test item description	PVC Floor Covering-Click Vinyl
Trade Mark	
Model and/or type reference	1227~470*470~101.6*2mm, 1227~470*470~101.6*3mm, 936*150*3.2mm, 1500~600*300~150*4.2mm, 1500~600*300~150*5.0mm
Manufacturer	Jiangsu Beier Decoration Materials Co., Ltd.
Rating(s)	Reaction to fire: Class B _{fl-S1}
	Release of formaldehyde: Class E1

TTRF EN 14041: 2004 C

Originator: Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

Copy of marking plate:
Marking on accompanied document, take model 1220*228*2,0mm for example:
Marking on accompanied document , take model 1220*228*2,0mm for example: Jiangsu Beier Decoration Materials Co., Ltd. No.999 Chaoyang Rd, Henglin town, Changzhou city 213101, Jiangsu province, China 16 XXXXX-CPR-2016/06/15 EN 14041:2004 +AC:2006 Click Vinyl flooring. Reaction to fire: Class B _{fl~S1} Nominal size: 1220*228*2,0mm Formaldehyde: Class E1 Slipperiness: Class DS
Note: 1. If the CE marking is reduced or enlarged the proportions given in the above graduated drawing must

be respected.

2. The various components of the CE marking must have substantially the same vertical dimension, which may not be less than 5 mm.

3. CE marking and label shall be affixed visibly, legibly and indelibly.

4. "XXXXX-CPR-2016/06/15" should be the reference number of the DoP.

Summary of testing:

The submitted samples were tested and found to comply with applicable requirements of EN 14041: 2004+AC: 2006.

Test item particulars	
Classification of installation and use	Floated
Possible 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:	May 12, 2016
Date (s) of performance of tests:	May 12, 2016 to June 15, 2016
General remarks:	
This report is for the exclusive use of Intertek's Client and is provided responsibility and liability are limited to the terms and conditions of the the Client in accordance with the agreement, for any loss, expense of authorized to permit copying or distribution of this report and then only the sale or advertisement of the tested material, product or service m results in this report are relevant only to the sample tested. This report has ever been under an Intertek certification program.	pursuant to the agreement between Intertek and its Client. Intertek's e agreement. Intertek assumes no liability to any party, other than to r damage occasioned by the use of this report. Only the Client is y in its entirety. Any use of the Intertek name or one of its marks for ust first be approved in writing by Intertek. The observations and test rt by itself does not imply that the material, product, or service is or
"(See remark #)" refers to a remark appended to the report. "(See Appendix #)" refers to an appendix appended to the report. Throughout this report a comma (point) is used as the decimal sep	arator.
When determining the test result, measurement uncertainty has be	en considered.
The clause which indicated with * is the subcontract test item.	

General product information:

This report included 5 models of PVC flooring, model 1220*228*5.0mm was included in report No. 140806090GZU-003 dated on September 30, 2014, and update series model 1227~470*470~101.6*2mm, 1227~470*470~101.6*3mm, 936*150*3.2mm, 1500~600*300~150*4.2mm and 1500~600*300~150*5.0mm in the new report. The manufacturer declared that all the products are the same in material and method of manufacturing, except the thickness and surface pattern design. The report data is mainly based on model 1220*228*5.0mm and 1220*228*2.0mm. Refer to below product information of samples: Click Vinyl flooring, model No.: 1220*228*5.0mm thickness of layers of the Click Vinyl flooring Top film(Wear laver): 0.5mm PVC Middle film:3.5mm PVC Base Layer: 1.0mm PVC No glue, no bonding agent used Main composition: calcium carbonate, PVC powder. Click Vinyl flooring, model No.: 1220*228*2.0mm thickness of layers of the Click Vinyl flooring Top film(Wear layer): 0.3mm PVC Middle film:0.9mm PVC Base Layer: 0.8mm PVC No glue, no bonding agent used Main composition: calcium carbonate, PVC powder Release of formaldehyde and Reaction to fire (Class B_{fl}) test conducted by Notified Body Lab No.1023. INSTITUTE FOR TESTING AND CERTIFICATION, Inc. Refer to report No. 75 35 01068/2014 and 75 35 01322/2016 for detail. See Appendix C for products' appearance.

	EN 14041+AC			
Clause	Requirement - Test	Result - Remark	Verdict	
1				
4	*Peaction to fire			
	When declared, the floor covering shall be tested and classified according to the requirement of EN 13501-1 and resulting class and subclass shall be declared: If it is decided to make no claim for reaction for fire performance, which marked Class F, no testing is required: If the product listed in Table 1, 2 or 3, in the end uses identified in the tables, are classified without further testing in the classes shown and do not require testing in respect of these end uses and classes	Class B _{fl} - _{S1} Refer to report No. 75 35 01068/2014 for detail	Ρ	
4.2	*Content of pentachlorophenol (PCP) Resilient, textile and laminate floor coverings shall not contain PCP or derivative thereof as a component in the production process of the product or of its raw materials	Not determined		
4.3	*Formaldehyde emission When formaldehyde-containing materials have been added to the product as a part of the production process, the product shall be tested and classified in to one of two classes: E1 or E2	Model 1220*228*5.0mm and 1220*228*2.0mm: Class E1 Refer to report No. 75 35 01068/2014 and 75 35 01322/ 2016 for detail.	Ρ	
4.4	Water-tightness Where required, resilient floor coverings shall meet the requirement of EN 13553	Not determined	_	
4.5	Slip resistance When declared, the floor covering intended to be used in dry and non-contaminated conditions shall have a dynamic coefficient of friction of \geq 0,30 when tested ex- factory under dry conditions per EN 13893 and shall be declared as technical class DS	Dynamic coefficient of friction: Model 1220*228*5.0mm: 0,40 Model 1220*228*2.0mm: 0,42 Class DS	Ρ	
4.6	Electrical behaviour (static electricity) When declared, antistatic floor coverings body voltage shall not exceed 2,0 kV per EN 1815: When declared, static dissipative floor coverings vertical resistance shall not exceed $10^9\Omega$ per EN 1081 When declared, conductive floor coverings vertical resistance shall not exceed $10^6\Omega$ per EN 1081	Not determined	_	

	EN 14041+AC		
Clause	Requirement - Test	Result - Remark	Verdict
4.7	*Thermal conductivity	Model 1220*228*5 0mm	
	If required, the thermal conductivity values shall be verify per EN 12524 or EN 12667	Average: 0,07 W/m.k	_
5	EVALUATION OF CONFORMITY		
5.1	General	Refer to 5.3	Р
5.2	Type testing	Refer to Clause 4.1 to 4.7	Р
5.3	Factory production control	The manufacturer claimed compliance with the FPC requirements by operating an ISO 9001 system and holds valid ISO9001 certificate.	Ρ
6	MARKING		_
	 Product which conform to the requirements of this document shall be clearly and indelibly marked by the manufacturer either on their package or on an adhesive label with following information: a) the number and the year of this European Standard b) the manufacturer's or supplier's identification c) the product name and batch number 	See 'Copy of marking plate'.	Ρ

	Copy of Test	Report (Issued by: NB 1023)
		Reference No. 75 35 01068 Page 1 of 7
IT¢	INSTITU	JTE FOR TESTING AND CERTIFICATION třída Tomáše Bati 299, Louky, 763 02 Zlín
	I	TEST REPORT Reference No. 75 35 01068/ 2014
	Applicant:	Jiangsu Beier Decoration Materials Co., Ltd. No. 999 Chaoyang Rd, Henglin town, Changzhou city 213101, Jiangsu province, China
	Product:	(1) PVC floor covering – Click Vinyl, type: 1220*180*5.0 mm (2) PVC floor covering (called composite LVT), type: No. 1217*146*7.5 mm
	Manufacturer:	Jiangsu Beier Decoration Materials Co., Ltd. No. 999 Chaoyang Rd, Henglin town, Changzhou city 213101, Jiangsu province, China
	Elaborated by	: Milan Kovář
	Issued on:	24 th September 2014
	AND	RNDr. Radomír Čevelík
		Representative of Notified Body No. 1023
	Tax & VAL Id No.: C24/910381 Company Id No.: 47910381	Phone: +420 577 601 238 Fax: +420 577 104 855 e-mail: ib@itcdirc. +420 577 601 623 +420 577 601 702 http://www.itczin.c

Appendix A

116	Notified Body 1023 763 02 Zlín, Czech Republic
Notified Body No. 1023 * State A	uthorized Body No. 224 * Product and Management Systems Certification Bodies * Accredited Laboratory
	Reference No. 75 35 01068 Page 2 of 7
. Product specification	
1)PVC floor covering – Cli	ick Vinyl, type: 1220*180*5.0 mm
hickness of layers:	
 Top (wear) layer: 0. Middle layer: 3.5 mr 	5 mm (PVC) n (PVC)
Base layer: 1 mm (F	PVC)
to adhesive, no boxing ager	nt used. Main composition: PVC, calcium carbonate
2) PVC floor covering (cal	led composite LVT), type: No. 1217 [*] 146 [*] 7.5 mm
hickness of layers:	
Top (wear) layer: 0.	5 mm (PVC)
 Middle layer: 1.5 mm Base layer: 4 mm (F 	n (PVC) PVC – vinvl tile)
Bottom layer: 2.0 mil	m IXPE (PE foam)
Ised adhesive (for the botto	m layer): Bonderite C-AK 1559S (polyurethane), Henkel company
. Assessment and verifi lo 305/2011 of the Europe	cation of constancy of performance according to Regulation (EU) an Parliament and of the Council, as amended
Floor coverings as con the Regulation (EU) No 305 011 laying down harmonis council Directive 89/106/EEC	nstruction products are assessed on the basis of relevant clauses of /2011 of the European Parliament and of the Council of 9th March ed conditions for marketing of construction products and repealing C as amended (called "CPR")
.1. System of assessmer	nt and verification of constancy of performance (AVCP)
he submitted product is as	sessed pursuant to system of AVCP 3 of the CPR (Annex V).
he type testing was carried 4041).	out according to Annex ZA of the standard ČSN EN 14041 (EN
2. Indicators specifying	basic requirements for construction works
he initial type testing was ca llowing range of relevant pr	arried out by the notified body (the notified test laboratory) in the operties according to Table ZA.4 (of the ČSN EN 14041):

		763	Notified Body 1023 02 Zlín, Czech Repul	blic
Notifie	ed Body No. 1023 * Sta	ate Authorized Body No. 224 * Labo	Product and Management System ratory	S Certification Bodies * Accredited
				Reference No. 75 35 01068 Page 3 of 7
	Reaction to fire			
-	ignitability 15s)	 surface exposure acc 	ording to ČSN EN ISO	11925-2 (exposure time:
5	burning be /test samp	ehaviour using a radiant les were put on the stan	heat source according dard substrate without	to ČSN EN ISO 9239-1 t glueing/
-	classificatio	on according to ČSN EN	I 13501-1+A1	
•	Formaldehyde em EN 322)	nission according to ČSN	EN 717-2 (Moisture o	content according to ČSN
.3.San	pling place and	number of samples ta	ken	
he tes	t samples were s	sent by the manufactur	er. The number of the	test samples sent was as
	 PVC floor of of tiles (12; foil), 3 pcs PVC floor of amount of (packed in 	covering – Click Vinyl, ty 20 x 180) mm, 6 pcs of of test specimens (400 covering (called compos 18 pcs of tiles (1217 x 1 n PE foil), 3 pcs of test s	pe: 1220*180*5.0 mm test specimens (25 x 3 x 50) mm (packed in te LVT), type: No. 121 46) mm, 6 pcs of test pecimens (400 x 50) r	n, in the amount of 11 pcs 25) mm (packed in PE PE foil) 7*146*7.5 mm, in the specimens (25 x 25) mm nm (packed in PE foil)
he test 1068/2	samples were re on 4 th , 8 th and 20	egistered under the regis 0 th August 2014.	tration number 75 35	01068/1 and 75 35
4. Pla	ce and date of te	esting		
Inst (Aud	itut pro testování a gust - September	a certifikaci (ITC), a.s., M 2014)	IB 1023, accredited la	boratory No. 1004 Zlín
Cen labo	trum stavebního i pratory No.1007.4,	inženýrství (CSI), a.s. Pr , NB 1390 (September 2	ague, Fire Technical L 014)	aboratory, Accredited test
5 Te	st results			
5.1 lgr	itability results			

A INSTITUTE FOR TESTING AND CERTIFICATION Notified Body 1023 763 02 Zlín, Czech Republic Notified Body No. 1023 * State Authorized Body No. 224 * Product and Management Systems Certification Bodies * Accredited Laboratory Reference No. 75 35 01068 Page 4 of 7 Table 1A - Ignitability results (PVC floor covering - Click Vinyl, type: 1220*180*5.0 mm) Characteristic Surface exposure test (characteristic for individual test specimens) Ignition of the test specimen No, No, No, No, No Yes/No Flame reaching of a mark in No, No, No, No, No distance of 150 mm Yes/No Burning time to reach 150 ---mm (s) Ignition of the filter paper No, No, No, No, No Table 1B - Ignitability results /PVC floor covering (called composite LVT), type: No. 1217*146*7.5 mm/ Characteristic Surface exposure test (characteristic for individual test specimens)

Ignition of the test specimen Yes/No	No, No, No, No, No
Flame reaching of a mark in distance of 150 mm Yes/No	No, No, No, No, No
Burning time to reach 150 mm (s)	-, -, -, -, -
Ignition of the filter paper	No, No, No, No, No

2.5.2 Results of burning behaviour using a radiant heat source

ITC

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> Reference No. 75 35 01068 Page 5 of 7

Table 2A - Results of burning behaviour using a radiant heat source (PVC floor covering – Click Vinyl, type: 1220*180*5.0 mm)

Characteristic	Measuring unit	Crosswise direction measurement	Lenghthwise direction measurement (mean value)
Maximum distance of flame spread	mm	100	113.3
Critical heat flux (CHF)	kW/m ²	≥ 11	10.7
Distance of flame spread at 10th min.	mm	100	113.3
HF-10	kW/m ²	≥ 11	10.7
Distance of flame spread at 20th min.	mm	(-)	(-)
HF-20	kW/m ²	(-)	(-)
Distance of flame spread at 30th min.	mm	(-)	(-)
HF-30	kW/m ²	(-)	(-)
Maximum light attenuation	%	28.7	32.3
Integrated smoke value	% x min	244.9	253.9



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Notified Body No. 1023 * State Authorized Body No. 224 * Product and Management Systems Certification Bodies * Accredited Laboratory

> Reference No. 75 35 01068 Page 6 of 7

Table 2B - Results of burning behaviour using a radiant heat source /PVC floor covering (called composite LVT), type: No. 1217*146*7.5 mm/

Characteristic	Measuring unit	Crosswise direction measurement	Lenghthwise direction measurement (mean value)
Maximum distance of flame spread	mm	160	170.0
Critical heat flux (CHF)	kW/m ²	9.8	9.7
Distance of flame spread at 10th min.	mm	160	170.0
HF-10	kW/m ²	9.8	9.7
Distance of flame spread at 20th min.	mm	(-)	(-)
HF-20	kW/m ²	(-)	(-)
Distance of flame spread at 30th min.	mm	(-)	(-)
HF-30	kW/m ²	(-)	(-)
Maximum light attenuation	%	48.7	49.0
Integrated smoke value	% x min	334.1	342.1

2.5.3 Results of the reaction to fire classification

Table 3 - Reaction to fire classification

Test sample	Reaction to fire class	Additional class for smoke production	Final class
PVC floor covering – Click Vinyl, type: 1220*180*5.0 mm	B _{fl}	s1	B _{fl} - s1
PVC floor covering (called composite LVT), type: No. 1217* 146*7.5 mm	Bn	s1	B _{fl} – s1



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Notified Body No. 1023 * State Authorized Body No. 224 * Product and Management Systems Certification Bodies * Accredited Laboratory

> Reference No. 75 35 01068 Page 7 of 7

2.5.4 Formaldehyde emission results

Table 4 - Results of the formaldehyde emission

Characteristic	Measuring unit	Test result (class)		
		PVC floor covering – Click Vinyl, type: 1220* 180*5.0 mm	PVC floor covering (called composite LVT), type: No. 1217*146*7.5 mm	
Formaldehyde emission	mg.m ⁻² .h ⁻¹	< 0.5 ^{a)} (E1)	< 0.5 ^{a)} (E1)	
(Moisture content)	(%)	(0.19)	(0.34)	

Remark: a) - method detection limit

3. A list of documents used to elaborate the Test Report

- Application No. 753501068 for assessment of CE-marked construction products
- ČSN EN 14041 (91 7883): Pružné textilní a laminátové podlahové krytiny Podstatné vlastnosti (Resilient, textile and laminate floor coverings – Essential characteristics)
- Test Report of accredited laboratory, reference No. 753501068/01, elaborated by ITC a.s., accredited laboratory No. 1004, in Zlin, on 15th September 2014
- Test Report of accredited laboratory, reference No. 753501068/02, elaborated by ITC a.s., accredited laboratory No. 1004, in Zlin, on 27th August 2014
- Test Reports of fire technical parameters, reference No. 14/451/P302, 14/452/P303, elaborated by Centrum stavebního inženýrství a.s., Fire Technical Laboratory, Prague, on 19th September 2014
- Classification Report using Results of Reaction to Fire No. 75 35 01068K/2014, elaborated by ITC,a.s. Zlín, on 19th September 2014

Report No.: 160512089GZU-001

Appendix A (continued) Copy of Test Report (Issued by: NB 1023)

Reference No. 75 35 01322 Page 1 of 4



INSTITUTE FOR TESTING AND CERTIFICATION

třída Tomáše Bati 299, Louky, 763 02 Zlín, Czech Republic

TEST REPORT

Reference No. 75 35 01322/ 2016

Applicant:	Jiangsu Beier Decoration Materials Co., Ltd. No. 999 Chaoyang Rd, Henglin town, Changzhou city 213101, Jiangsu province China
Product:	Vinyl floor covering – 1227*187*2.0 mm
Manufacturer:	Jiangsu Beier Decoration Materials Co., Ltd. No. 999 Chaoyang Rd, Henglin town, Changzhou city 213101, Jiangsu province China
Elaborated by Issued on:	10 th June 2016
TESTING A	RNDr. Radomír Čevelík
and the second se	Representative of Notified Body No. 1023
Tax & VAT ld No.: CZ47910381 Company ld No.: 47910381	Phone: +420 577 601 238 Fax: +420 577 104 855 e-moil/sto@itczlin.cz +420 577 601 623 +420 577 601 702 www.itczlin.cz
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Notified Body No. 1023 * State Authorized Body No. 224 * Product and Management Systems Certification Bodies * Accredited Laboratory

> Reference No. 75 35 01322 Page 2 of 4

1. Introduction

This report was elaborated on the basis of the application *No.* 753501322 of 19/05/2016 and tests results carried out by the notified testing laboratory in accordance with the procedure mentioned in the article 1.4 of the Annex V to the Regulation (EU) No. 305/2011 of the European Parliament and of the Council of 9 March 2011, as amended, laying down harmonised conditions for the marketing of construction products ("CPR").

2. Assessment and verification of constancy of performance according to Regulation (EU) No 305/2011 of the European Parliament and of the Council, as amended

Floor coverings as construction products are assessed on the basis of relevant clauses of the Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9th March 2011 laying down harmonised conditions for marketing of construction products and repealing Council Directive 89/106/EEC as amended (called "CPR")

2.1 System of assessment and verification of constancy of performance (AVCP)

The submitted product is assessed pursuant to system of AVCP 3 of the CPR (Annex V). The type testing was carried out according to Annex ZA of the standard ČSN EN 14041 (EN 14041:2004/AC:2006).

2.2 Indicators specifying basic requirements for construction works

The initial type testing was carried out by the notified body (the notified test laboratory) in the following range of relevant properties according to Table ZA.4 (of the ČSN EN 14041):

 Formaldehyde emission according to ČSN EN 717-1/only model (type) 5.5 mm/ Reaction to fire testing was not required by the applicant.

2.3 Product specification

PVC heterogeneous floor covering tiles. Total thickness: 2.0 mm

- Wear (top) layer thickness: 0.3 mm (PVC)
- Middle layer thickness: 0.9 mm (PVC)
- Base layer thickness: 0.8 mm (PVC)



INSTITUTE FOR TESTING AND CERTIFICATION Notified Body 1023 763 02 Zlín, Czech Republic

Notified Body No. 1023 * State Authorized Body No. 224 * Product and Management Systems Certification Bodies * Accredited Laboratory

> Reference No. 75 35 01322 Page 3 of 4

Laying way: loose (without glueing)

2.4 Sampling place and number of samples taken

The test samples were sent by the manufacturer. The number of the test samples sent was as follows:

 Vinyl floor covering – 1227*187*2.0 mm, in the amount of 1 pc (500 x 500 x 2) mm, packed into foil

The test sample was registered under the registration number: 75 35 01322/1 on 16/05/2016.

2.5 Place and date of testing

 Výzkumný a vývojový ústav dřevařský, Praha, s.p., NB 1393, accredited laboratory No. 1031, Prague (June 2016)

2.6 Test results

2.6.1 Formaldehyde emission result

Table 1 - Results of the formaldehyde emission

Product	Measuring unit	Test result (class)
Vinyl floor covering – 1227*187*2.0 mm	mg.m ⁻³	0.007 (E1)

3. NB 1023 Conclusions

Notified Body NB 1023 has carried out the testing in accordance with the paragraph 1.4 of Annex V to the Regulation (EU) No 305/2011, as amended for the product specified in the Art. 2.3 of this Report and concluded that

all requirements of this paragraph of the above Regulation and the relevant harmonized standard have been met and this report may be issued as a basis for affixing CE marking to these products.



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Notified Body No. 1023 * State Authorized Body No. 224 * Product and Management Systems Certification Bodies * Accredited Laboratory

> Reference No. 75 35 01322 Page 4 of 4

This Report is applicable only to products identically marked and named, such as those which were the subject to testing, provided that the products characteristics have not been changed or no significant changes in their production (materials, technology, manufacturing equipment, etc.) have been done.

4. List of documents used to elaborate the Test Report

- Application No. 753501322 for assessment of CE-marked construction products
- ČSN EN 14041 (91 7883): Pružné textilní a laminátové podlahové krytiny Podstatné vlastnosti (Resilient, textile and laminate floor coverings – Essential characteristics)
- Test Report, reference No. MVZ-02/16/320, elaborated by Výzkumný a vývojový ústav dřevařský, Praha, s.p., NB 1393, accredited laboratory No. 1031, Prague, on 06/06/2016

Appendix B

ISO 9001 certificate



Appendix C

Products photos



Appendix D

Revision page

Revision No.	Date	Changes	Author	Reviewer
0	June 15, 2016	First issue	Jones Zhong	Jeff Deng