

# TEST REPORT

EN 1935

Building hardware-Single-axis hinges-Requirements and test methods

Report reference No. ...... GZ12090564-1R2

Supersede Report No. GZ12090564-1R1 dated March 18, 2013

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

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Approved by (name and signature) ... Blusea Dong

Contents ...... Total test report 14 pages including:

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Report text: 8 pages

Appendix A for product photos: 2 pages
Appendix B for product drawings: 2 pages
Appendix C for product instruction: 2 pages

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 Bestko Precision Limited

Bay, Hong Kong.

**Test specification** 

Standard ...... EN 1935:2002/AC;2003

Test Report Form NO. TTRF EN 1935: 2002 B

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

Master TTRF...... Dated 2008-01

Test item Description Concealed Hinge

Trademark ...... BESTKO

Model and/or type reference ............ WJ203 and WJ203B

Manufacturer...... Company Limited

Summary of testing

The submitted samples COMPLIED WITH all applicable mechanical performance requirements of EN 1935:2002/AC:2003 for the classification.

TTRF EN 1935: 2002 B

Originator: Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

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Report No.: GZ12090564-1R2

# Test item particulars

Classification of installation and use ...... Severe duty, use on door

#### Test case verdicts

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Test case does not apply to the test object .........

Test item does meet the requirement ..... P (Pass) Test item does not meet the requirement. F (Fail)

## Testing

Date of receipt of test item ..... September 12, 2012 and May 16, 2013

September 12, 2012 to November 16, 2012 Date(s) of performance of test May 16, 2013 to June 14, 2013

#### General remarks

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client, Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

(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 separator.

When determining the test result, measurement uncertainty has been considered

### General product information:

This report include two models conceal hinge, model WJ203 and WJ203B. The two hinges have same material similar structure, the difference is the jamb mounting of hinge which reflected in jamb side part.

The model WJ203 was subjected to fully standard test, in order to assess potential performance differences between the two models, model WJ203B undergoing evaluation, customer-supplied technical drawings of each model are reviewed and compared to those of mainly tested model WJ203, and model WJ203B subjected to Static Load Test and Shear Strength Test.

Details see Appendix B.

#### Schedule of Components:

See Appendix B - Product Drawings for component list and raw material information.

Detail "Ratings" information listed as following:

First digit (Category of use): Grade 4 - severe duty, For use on door,

Second digit (Durability): Grade 7 - 200 000 cycles;

Third digit (Test door mass): Grade 6 - 120 Kg;

Fourth digit (Suitability for use on fire/smoke compartmentation doors): Grade 1 - Suitable for use on fire resistant and /or smoke control door assemblies;

Fifth digit (Safety): Grade 1 - Safety the essential requirement of safety in use;

Sixth digit (Corrosion resistance): Grade 0 - no defined corrosion resistance;

Seventh digit (Security-Burglar-Resistance): Grade 1 - suitable for use on burglar-resistant door assemblies, subject to satisfactory assessment of the contribution of the hinges to the burglar resistance of specified burglar-resistant door assemblies;

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Eighth digit (Hinge Grade): Grade 13.

TTRF EN 1935: 2002 B

Originator: Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

| & BESTE | W.BESTKO  | & BESTKO  | Page :                           | O BESTKO            | W.B.E.STILO        | WBESTIKO<br>Report No.: GZ | W BESTIVO     | WHESTRO<br>13  |
|---------|---|---|----------------------------------|---------------------|--------------------|----------------------------|---------------|--|
| 8       | O GENTRO  | 410   | Page :                           | 3 of 14             | £ 10               | Report No.: GZ             | (12090564-1R2 | W 10   |
| & BESTE | Amendment 1:  | Report Referen                                  | Q BESTRE                         | Q BESTRE            | Q BESTRE           | Q BESTRE                   | Q BESTA       | O BESTRE   |
| C.      | The original to include the fol   | Report Referen                                  | ce No. GZ1209<br>and/or addition | 0564-1, dated<br>n: | December 4, 20     | 012 modified or            | March 18, 20  | 13 KO  |
| & BESTE | 1. Changed four<br>2. Revised the ty<br>Amendment 2:  | rpo in BOM .                                    | s and/or addition<br>to '1'.     | W.BESTIKO           | W.B.E.STIKO        | W BESTIKO                  | W.BESTIKO     | WHESTRO  |
| & BESTA | The Report include the follow   | Reference No.<br>ving changes a<br>model WJ203E | GZ12090564-1<br>nd/or addition:  | R1, dated Man       | ch 18, 2013 mo     | dified on June             | 19, 2013 to   | W BESTIKO  |
| 8.      | include the follow<br>Added grouping  | Thodel VV3203L                                  | and test data                    | or related test.    | 8                  | 8,                         | 8,            | an .   |
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| & BESTE | TTRE EN 1935:: Originator: Interto  | 2002 B<br>ek Testing Sen                        | vices Shenzher                   | Ltd: Guangzh        | WHESTINO OU Branch | & BESTKO                   | & BESTKO      | & BESTKO<br>& BESTKO                                     |
| -CTK    | ONTRO   | CETKO   | STKO                             | STKO                | STKO               | STKO                       | STKO          | CETKO  |
| & BESTE | & BESTKO  | & BESTEO  | William Shenzher                 | Ltd: Guangzh        | & BES              | & BES                      | & BES         | & BES  |

& BESTRO WBESTRO WEEKSTRO WHISTRO WHISTRO Page 4 of 14 & BESTKO & BESTKO Report No.: GZ12090564-1R2 BESTKO EN 1935 Result - Remark Requirement - Test Verdict CLASSIFICATION Grade 4 Category of use & BESTKO Grade 7 Durability Grade 6 Test door mass Suitability for use on fire/smoke Grade 1 compartmentation doors Grade 1 Safety Corrosion resistance Grade 0 Q BESTRO Security-Burglar-Resistance Grade 1 Grade 13 Hinge grade. REQUIREMENTS WHEZIKO WHEZIKO Initial friction torque measurements 0 degree: 1,7 Nm For model WJ203: The maximum permissible frictional torque shall be: 4 Nm for hinge grade 12 to 14..... WBESTKO WBESTKO WBESTEO WHESTEO 30 degree: 1,6 Nm WHESTED WHESTED 60 degree: 1,8 Nm 90 degree:1,7 Nm WBHSTRO WHISTRO & BESTKO & BESTRO For model WJ203B: 0 degree: 1,4 Nm 5.24 BEST 84 5.2.1 30 degree: 1,3 Nm QBSTKO C. BESTRO 60 degree: 1,0 Nm 90 degree:1,3 Nm Static load Both two models subjected

Loading: 240 Kg Load deformation The total mass of the hinged test element plus any additional load is equal to the load deformation mass of 240Kg for hinge grade 13. WHISTING WJ203: 0,08 mm 5.2.1 (a) The vertical displacement under load shall not (4 BESTI exceed 2 mm. WJ203B: 1, 88 mm WBESTKO WBESTKO WJ203: 0,68mm The lateral displacement under load shall not WJ203B: 1, 46 mm 110 & BESTE & BESTE exceed 4 mm.,. WHESTKO WHESTKO & BESTIKO TTRF EN 1935: 2002 B
Originator: Intertek Testing Services Shenzhen Ltd. Guangzhou Branch TTRF EN 1935: 2002 B Originator: Interfel & BESTKO & BESTKO & BESTICO

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| WHEFTHO WHETHO WHISTHO WHISTHO WHESTHO WHESTHO WHESTHO   |
| Clause Requirement - Test Result - Remark Verdict  5.2.1 (c): Residual displacement after unloading shall be within the shaped area of Figure G:1    |
| WHESTHO WHISTHO WHISTHO WHISTHO WHISTHO WHISTHO WHISTHO  |
| For Model WJ203: Lateral displacement: 0,04 mm   |
| lateral deformation from  Figure 6.1 — Limits of allowable deformation in static load tests  Lateral displacement (mm)                               |
| Vertical displacement (mm)  5.2.1 (d) No visible cracking or breakage  |
| The total mass of the hinged test element plus any additional load is equal to the load overload mass of 360 Kg for hinge grade 13                   |
| 5.2.2 (e) Shall be no breakage of any hinge leaf, knuckle, barrel, pin and no any cracking visible to normal or corrected vision                     |
| 5.2.2 (f) Shall remain connection to the frame even though the hinge may have been rendered inoperable to the frame well and operable Shear strength |
| 5.3 (g) Shall be no breakage or cracking, or lateral deformation greater than 3 mm   |
| When load 10 kN force, the lateral deformation: 2,79 mm  |
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| TTRF EN 1935: 2002 B   |
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| & BESTA                                   | O W BEST       | KO & BESTKO                             | & BESTIKO                   | & BESTIKO            | & BESTKO                     | & BESTKO                             |       | GTKO     | & BESTKO  |
|---|----------------|---|-----------------------------|----------------------|------------------------------|--------------------------------------|-------|----------|-----------|
| & BES                                     | & BES          | & BES                                   | & BES                       | & BES                | & BES                        | & BES                                | & B   | ED.      | & BED     |
| T.  | o a            | KO RSTKO                                | Page                        | 6 of 14              | NO.                          | Report No.: G                        | Z1209 | 0564-1R2 | 2 NO      |
| & BESTK                                   | Q BEST         | & BESTIE                                | O BESTIE                    | EN 1935              | Q BESTIE                     | O BESTIE                             | NB    | ESTITE   | C BESTIKO |
| 8   | Clause         | Requirement - Te                        | st .                        | <u>C.</u> 11.000     | Result - Re                  | emark                                | 8     | Verdict  | 42-       |
| STK                                       | 5.3 (h)        | Additional lateral a                    | ind vertical dist           | placements after     | For Model                    |                                      |       | STRO     | STKO      |
| & BE                                      | & BE           | test shall no excee                     | 418                         | Q BE                 | Lateral. U,                  |                                      | &B    |          | & BELL    |
| AL.                                       | o .            | Shall operate for 2                     | 0 cycles withou             | ut breakage of       | Not found test.              | 08mm<br>any breakage a               | fter  | 10       | 40        |
| (BESTI                                    | & BEST         | any hinge leaf, kni                     | uckle, barrel or            | pin                  | : For Model                  | WJ203B:                              | 118   | SP       | BESTI     |
| R.  | 8              | 9 9                                     | 8                           | E.                   | Lateral: 0,8<br>Vertical: 0, |                                      | R.    |          | 8         |
| STK                                       | 0              | KO STKO                                 | STKO                        | STKO                 | Not found test.              | any breakage a                       | fter  | STKO     | STKO      |
| & BE                                      | 5.3 (i)        | Unlimited permane                       | ent deformation             | 4.00                 | Only for gr<br>resistant d   | ade 14 burglar<br>oor hinge          | &B    | N/A      | & Bles    |
| X   | 5.4            | Durability                              | 400                         | 40                   | 40                           | ô                                    |       | æ.       | - KÔ      |
| VI BESTI                                  | 5.4 (j)        | The displacements                       | s from the datu             | m surface shall      | O BESTI                      | & BESTRO                             | NB    | SIL      | & BESTKO  |
| E.  | 8              | be within the shad                      | ed area of Figu             | ire G.2.             | 2                            | E.                                   | & B   |          |           |
| STK                                       | 0              | 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 | THO                         | 5719                 | & BESTKO                     | & BESTKO                             |       | ESTKO    | & BESTKO  |
| & BE                                      | & BEST         | 8.0 Mea                                 | RBE                         | Of Blen              | & BE                         | & BE                                 | & B   |          | & BE      |
| N. S. | 0              | 0.4 - 0.2 - 0.4 O                       | 40                          | de                   | NO.                          | TKO'                                 |       | 40       |           |
| V. BESTA                                  | & BEST         | 0.3                                     | 1 (10.2 0.3                 | 0.4 0.5              | Q BESTKO                     | & BESTKO                             | 118   | STIP     | & BESTKO  |
| R.  | ag.            | R. O.                                   | Lateral wear                | m m                  |                              | 8                                    | & B   |          |           |
| STK                                       | O CST          | Elauro C3 I Lim                         | its of allowable wea        | r in durability toet | For Model                    | WJ203:                               |       | STKO     | & BESTKO  |
| & BE                                      | & BE           | Lateral wear of the                     | VI P                        | W.B. Test            | : 0,16 mm;                   | WJ203:<br>000 cycles;                | & B   |          | & BELL    |
| AL.                                       | i              | Vertical wear of th                     | e hinge (mm).               |                      | : 0,81 mm                    | 400                                  |       | 40       | 10        |
| C. BEST                                   | 5.4 (k)        | Maximum permiss                         | ible fri <b>ctio</b> nal to | rque measured        | For Model                    | WJ203                                | 118   | STIL     | & BESTKO  |
| A.  | E.             | after the first 20 cy                   | lua arada 10 ta             |                      |                              | 8 .                                  | & B   |          | S.        |
| STK                                       | O CET          | of test shall be 4 N                    | iiii grade 12 to            | THO.                 | : 0 degree: 30 degree:       | 1,9 Nm<br>1,7 Nm<br>1,6 Nm<br>2.2 Nm |       | STKO     | STKO      |
| & BE                                      | & BEST         | & BESTA                                 | W.Birshill                  | & BESTRO             | 60 degree:<br>90 degree:     | 1,6 Nm<br>2,2 Nm                     | & B   | Р        | & BE      |
| AL  | 0              | KO & BESTKO                             | ALO.                        | 40                   | Final:                       | 40                                   | 3     | aLO.     | 40        |
| CBESTA                                    | CIBEST         | A BESTIN                                | & BESTKO                    | CI BESTA             | 0 degree:<br>30 degree:      | 1,6 Nm<br>1,7 Nm                     | (1B)  | STA      | BESTA     |
| R.  | a.             | F.                                      | R.                          | R.                   | 60 degree:<br>90 degree:     | 1,6 Nm<br>1,7 Nm<br>1,7 Nm<br>1,7 Nm | & B   |          | 8         |
| GTK                                       | 5.5            | Corrosion resistan                      | -10                         | STKO                 | GTKO                         | T, TVIII                             |       | STEO     | GTKO      |
| & BE                                      | & BE           | & BE                                    | & BR                        | & BE                 | & BE                         | KBE                                  | & B   | 0        | & BESTKO  |
| -   | o .            | KŮ KŮ                                   | TKO                         | TEO                  | a CO                         | & BESTKO                             |       | ESTRO    | & BESTKO  |
| & BESTE                                   | TTRE EN 19     | 35: 2002 P                              | rices Shenzher              | W.BESTKO             | BESTIO                       | O BESTIN                             | NB    | ESTA     | N. BESTA  |
| 4   | Originator: Ir | tertek Testing Serv                     | ices Shenzher               | Ltd. Guangzho        | u Branch                     | 4                                    | 8     |          | A.        |
| & BESTA                                   | Q BEST         | KO A BESTKO                             | & BESTKO                    | & BESTIKO            | W.Birstiko                   | & BESTKO                             | 4     | ESTRO    | & BESTKO  |
| & BE                                      | & BE           | & BE                                    | & Bit                       | & Bit                | & Bk                         | & Ble                                | & B   | ica .    | & BE      |
| _   |                | _                                       | -                           | ~                    | _                            | _                                    | _     |          | _         |

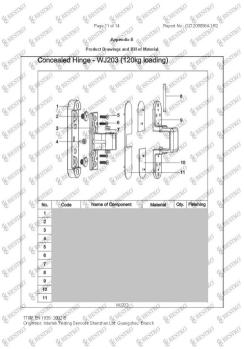
| & BESTK | & BEST                        | KO & BESTKO  | & BESTKO                              | & BESTKO           | & BESTKO                    | & BESTRO  | & BESTIO                | & BESTKO  |
|---------|-------------------------------|--|---------------------------------------|--------------------|-----------------------------|---|-------------------------|-----------|
| & BESTE | Clause                        | Requirement – Te   | & BESTRO                              | 7 of 14<br>EN 1935 | Result - Re                 | & BESTKO  | SZ12090564-1R<br>Verdid | Q BESTKO  |
| & BESTY | 5.5.1 KBEST                   | Hinges not intende   | ed to be protect                      | K1 102             | Claimed Gr                  | 40  | & BESTINO<br>N/A        | & BESTRO  |
| & BESTA | 5.5,2<br>5.6                  | Hinges intended to   | fire-resistant ar                     | 96                 | Approved for                | rotected after fit<br>for use on fire                               | 8                       | & BESTIA  |
| & BESTY | & BEST                        | control doors  | & BESTAL                              | & BESTAL           | door assem<br>Report No.    | nd/or smoke co<br>nblies. Refer to<br>AU13014016-2<br>uary 23, 2013 | & BEST P                | & BESTER  |
| & BESTA | 5.7% BEST                     | Hinges for use on  | 8 x                                   | R.                 | Claimed Gr<br>Refer to An   | rade 1  | & BESTILLE P            | & BESTKO  |
| & BEST  | Annex C                       | Hinges for use on conform to the ap  | burglar-resistar<br>propriate require | nt doors shall     | Refer to cla                | auses 4 and 5.<br>2 to C.4  | WHELL OF                | & BESTKO  |
|         | C.2 BEST                      | clauses 4 to 8 of E<br>In addition, the red<br>Hinges shall confi                              | quirements of C<br>rm to the require  | rement of          | 100                         | ement of Grade  | 8 r                     | 8,        |
| & BESTA | C.3                           | severe-duty grade 4.2. Fastenings shall r exterior face of the                                 | not be accessible                     | le from the        | Fastenings<br>en accessible | can not be  | C °                     | · °       |
| & BESTK | & BES                         | installed in accordinstruction.  | ance with the m                       | nanufacturer's     | face of the                 | door when the   | hinge                   | & BES     |
| & BESTA | S BEE                         | KO & BED   | & BESTKO                              | & BESTKO           | & BESTIKO                   | & BESTINO   | & BESTKO                | & BESTKO  |
| & BESTY | & Br.                         | KO KBE   | & Bh                                  | & BE               | & BE                        | & BE  | & Ble                   | & BESTIKO |
| & BI    | S SEST                        | instruction.  35: 2002 B attertek Testing Sen  | & Br                                  | & Br               | & BI                        | & Br  | & Br                    | & BL      |
| & BESTE | TTRE EN 19:<br>Originator: In | exterior face of the installed in according instruction.  35: 2002 B Intertek Testing Services | rices Shenzhen                        | Ltd: Guangzho      | ou Branch                   | & BESTIKO   | & BESTIKO               | & BESTKO  |

| & BESTING | & BESTY                         | o & BESTKO   | & BESTKO  | & BESTKO                     | & BESTKO    | & BESTKO        | & BESTKO     | & BESTKO  |
|-----------|---------------------------------|--|---|------------------------------|-------------|-----------------|--------------|-----------|
| & BEST    | Clause F                        | Requirement – Te  -linges used on outling of the search on the search of | Page 8  | 3 of 14<br>EN 1935           | Result - Re | Report No.: G   | Z12090564-1F | RESTRO    |
| & BESTY   | C.4 BEST                        | Hinges used on ou<br>shall be either of s  | utward-opening<br>uch a design th                     | external doors               | The hinge p | oin conceals in | the STIRO    | & BESTKO  |
| & BESTI   | & BEST                          | alternatively, they within the hinge fla   | ed when the do<br>shall incorpora<br>up that enable t | te hinge bolts he hinge to   | when the o  | W.B.F.S.TIV.    | & BESTKO     | & BESTKO  |
| & BESTK   | & BEST                          | alternatively, they within the hinge fla withstand the shear n Table 2 (see 7.4 ninge pin shall be acceptance criterial elements shall not under load.   | for grades 12<br>removed for the                      | 2, 13 or 14. The e test, the | & BESTKO    | & BESTKO        | & BESTKO     | & BESTKO  |
| & BESTY   | & BEST                          | elements shall not<br>under load.  | become separ  | ated whilst                  | & BESTKO    | & BESTKO        | & BESTKO     | & BESTKO  |
| & BESTIKO | & BESTE                         | & BESTIKO  | & BESTRO  | ***End of page               | & BESTINO   | & BESTIKO       | & BESTKO     | & BESTKO  |
| & BESTIK  | & BESTE                         | O & BESTRO   | & BESTKO  | & BESTRO                     | & BESTRO    | & BESTRO        | & BESTKO     | & BESTKO  |
| & BESTIK  | & BESTE                         | & BESTRO   | & BESTKO  | & BESTRO                     | & BESTRO    | & BESTRO        | & BESTKO     | & BESTKO  |
| & BESTIK  | & BESTE                         | O & BESTRO   | & BESTKO  | & BESTRO                     | & BESTRO    | & BESTRO        | & BESTKO     | & BESTKO  |
| & BESTKO  | & BESTE                         | O & BESTRO   | & BESTKO  | & BESTKO                     | & BESTKO    | & BESTKO        | & BESTKO     | & BESTKO  |
| & BESTIK  | & BESTE                         | O & BESTRO   | & BESTKO  | & BESTRO                     | & BESTRO    | & BESTRO        | & BESTKO     | & BESTKO  |
| & BESTIK  | & BESTE                         | O & BESTRO   | & BESTKO  | & BESTRO                     | & BESTRO    | & BESTKO        | & BESTKO     | & BESTKO  |
| & BESTE   | TRF EN 193:<br>Originator: Inte | 5: 2002 B<br>ertek Testing Serv  | ices Shenzher   | Ltd: Guangzh                 | ou Branch   | & BESTKO        | & BESTKO     | & BESTKO  |
| WEESTE    | & BESTE                         | Blements shall not under load.  White the shall not under load.  | & BESTKO  | & BESTKO                     | & BESTKO    | & BESTKO        | & BESTKO     | & BESTIKO |









<sup>&</sup>amp; RESTRO W BESTEO TTRE SN 1935 2002 8
Originator: Interfek Pesting Services Shenzhen Lite Guang zhoù Branch & BESTRO W. P.E.STKO & BESTKO & BESTKO & BESTRO

