Hebei Xinheng Integrated Housing Co., Ltd.

# TEST REPORT

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| **Prepared For :** | **Hebei Xinheng Integrated Housing Co., Ltd.** |
| **Product Name:** | **Double wing expansion box** |
| **Model(s):** | **F700;10ft;20ft;30ft;40ft** |
| **Prepared By :** | **Hebei Xinheng Integrated Housing Co., Ltd.** |
| **Assessment Date:** | **2026-04-16** |
| **Date of Report :** | **2026-04-24** |
| **Report No.:** | **MTZ202604241CPR** |

# TEST REPORT

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| **Report Reference No**.....: | **MTZ202604241CPR** |
| Date of issue.....: | 2026-04-24 |
| **Assessment Laboratory**.....: | Hebei Xinheng Integrated Housing Co., Ltd. |
| Address..... : | Botou City, Xixindian Township, Dongdoutun Village, Hebei Province (east side of Provincial Highway 281) |
| **Applicant name**.....: | Hebei Xinheng Integrated Housing Co., Ltd. |
| Address..... : | Botou City, Xixindian Township, Dongdoutun Village, Hebei Province (east side of Provincial Highway 281) |
| **Assessment specification:** | |
| Standards.....: | EN 1090-1:2009+A1:2011 |
| Non-standard test method.....: | N/A |
| **Assessment Report Form No**.....: | -- |
| Test Report Form(s) Originator.....: | |
| Master TRF.....: | Dated: 2020-08 |
| **This report is specially limited to the above client company and product model only. It may not be duplicated without prior written consent.** | |
| **Test item description**.....: | Double wing expansion box |
| Trade Mark.....: | N/A |
| Manufacturer.....: | Hebei Xinheng Integrated Housing Co., Ltd. |
| Model..... : | F700 |
| Ratings.....: | N/A |

**Assessment procedure and location:**

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| **Assessment Laboratory**.....: | Hebei Xinheng Integrated Housing Co., Ltd. |
| Address.....: | Botou City, Xixindian Township, Dongdoutun Village, Hebei Province (east side of Provincial Highway 281) |
| Date of Assessment.....: | 2026-04-24 |
| **Assessed by (name + signature)..... :** | **Eric.Zhang** |
| **Reviewed by (name + signature)..... :** | **Yanlei.Jia** |
| **Approved by (name + signature).....:** | **Xun.Su** |

| EN 1090-1 report | | | |
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| 4 | Requirements | | P |
| 4.1 | Constituent products | | P |
| 4.1.1 | General | | P |
| | Structural components of steel and aluminium shall be made of constituent products as given in 4.1.2 and 4.1.3, respectively. | | |
| 4.1.2 | Constituent products for steel components | | P |
| 4.1.3 | Constituent products for aluminium components | | P |
| 4.2 | Tolerances on dimensions and shape | | P |
| | The geometrical tolerances specified in EN 1090-2 and EN 1090-3 for the essential tolerances shall apply to all components . If any special tolerances apply these shall be stated in the component specification. | | |
| 4.3 | Weldability | | P |
| | If steel and aluminium structural components are to be declared as weldable they shall be made of weldable constituent products according to EN 1090-2 or EN 1999-1-1 as appropriate. If relevant to the performance of a steel product the through-thickness properties shall be declared. | | |
| 4.4 | Fracture toughness | | P |
| | Steel components shall be manufactured from constituent products that meet the fracture toughness properties required. The constituent products specified in the component specification shall be used. | | |
| 4.5 | Structural characteristics | | P |
| 4.5.1 | General | | P |
| 4.5.2 | Load bearing capacity | | P |
| | Declaration of the load bearing capacity may refer to the resistance of the cross sections of the component, expressed as a characteristic value or as a design value. Alternatively the load bearing capacity may be expressed in terms of the loads the component can carry according to the applied design provisions, expressed as a characteristic value or as a design value. | | |
| 4.5.3 | Fatigue strength | | P |
| | Declaration of the fatigue strength of a structural component shall be specific to fatigue actions against which the fatigue strength has been assessed. | | |
| 4.5.4 | Resistance to fire | | P |
| | Declaration of the fire resistance of a structural member may refer to the fire exposure represented by the standard temperature-time relationship to be used for assessment of the performance characteristics R, E, I and M in the classification according to EN 13501-2. | | |
| 4.5.5 | Deformation at serviceability limit state | | P |
| | The deformations at serviceability limit state determined by using the appropriate combination of actions shall be | | |

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| | within the required limits for vertical and horizontal deformations specified in the design assumptions and/or European Standards | | |
| 4.6 | Reaction to fire | | P |
| | Declaration of the reaction to fire shall be in accordance with the classes and test requirements given in EN 13501-1. | | |
| 4.7 | Dangerous substances | | P |
| | Dangerous substances in this standard refer to the material properties with regard to emission of radioactivity or release of cadmium. Only constituent products shall be used for which any emission of radioactivity and any release of cadmium is non-existent or limited to be within an accepted limit in the territory of intended destination. Materials used in coatings shall not release or emit any dangerous substances in excess of the maximum permitted levels specified in a relevant European Standard for the material, or permitted in national provisions of the member state of destination. | | |
| 4.8 | Impact resistance | | P |
| | Impact resistance is a material characteristic which expresses the same properties of steel as fracture toughness. There are no additional requirements. | | |
| 4.9 | Durability | | P |
| | The component specification shall specify any requirements for corrosion protection. See EN 1090-2 for carbon steel, EN 1993-1-4 for stainless steel and EN 1999-1-1 for aluminium. | | |
| 5 | Evaluation methods | | P |
| 5.1 | General | | P |
| 5.2 | Constituent products | | P |
| | The constituent products shall be evaluated by checking that the inspection documents for the products used comply with the requirements of the component specification. | | |
| | The evaluation of constituent products shall also include a check that the geometry of the products is correct, using methods and instruments in accordance with 5.3. | | |
| 5.3 | Tolerances on dimensions and shape | | P |
| | Geometrical tolerances shall be measured using methods and instruments selected from those listed in ISO 7976-1 and ISO 7976-2 and in accordance with provisions given in EN 1090-2 and EN 1090-3. Accuracy of measurements shall be assessed in accordance with ISO 17123-1. | | |
| 5.4 | Weldability | | P |
| | If through-thickness properties are specified for steel products, they shall be assessed according to the quality classes: given in EN 10164 | | |
| 5.5 | Fracture toughness | | P |
| | For fracture toughness of the constituent products, reliance may be placed on properties for impact strength | | |

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| | associated with materials and components used as constituent products provided these are given by reference to a European Technical Specification and inspection documents. | | |
| 5.6 | Structural characteristics | | P |
| 5.6.1 | General | | P |
| | Assessment of structural characteristics shall be based on:<br>a) the structural design, and<br>b) the manufacturing characteristics of the component. | | |
| 5.6.2 | Structural design | | P |
| | An adequate structural design may be demonstrated by:<br>a) structural calculations, or<br>b) structural testing supported by structural calculations for the component. | | |
| 5.6.2.1 | Structural calculations | | P |
| 5.6.2.2 | Structural testing | | P |
| 5.6.3 | Manufacturing characteristics | | P |
| | The manufacturing characteristics shall be assessed in relation to the requirements in the component specification. | | |
| 5.7 | Resistance to fire | | P |
| | The component specification shall specify all necessary information on the evaluation methods to be used; either they are performed by calculation or by testing. | | |
| 5.8 | Reaction to fire | | P |
| | Constituent products of steel and aluminium fall within Class A1 of the European classification with respect to reaction to fire, and no further documentation is required. Galvanized steels and anodized aluminium components are also Class A1. | | |
| | In the case of coated components it shall be demonstrated that the component has a fire classification that complies with the requirements according to its use and function. Classification shall be performed in accordance with EN 13501-1. | | |
| 5.9 | Dangerous substances | | P |
| | The requirement in 4.7 is fulfilled if the constituent products comply with the European Standards referenced in EN 1090-2 for steel or EN 1090-3 for aluminium. No further testing is required unless protective oatings are used for which a possible emission cannot be assessed indirectly by control of the raw coating material. | | |
| 5.10 | Impact resistance | | P |
| | Impact resistance of steel products is assessed by evaluation of the fracture toughness of the product. | | |
| 5.11 | Durability | | P |
| 6 | Evaluation of conformity | | P |
| 6.1 | General | | P |

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| | The conformity of a component or kit with the requirements of this European Standard and with the stated values (including classes) shall be demonstrated by:<br>a) initial type testing, see 6.2; and<br>b) factory production control by the manufacturer, including inspection and testing of products sampled from production in accordance with a prescribed plan by the manufacturer, see 6.3. | | |
| 6.2 | Initial type testing | | P |
| 6.2.1 | General | | P |
| | Initial type testing is the complete set of tests or other procedures, determining the performance of samples of products representative of the product type. The intention is to demonstrate and assess that the manufacturer has the capabilities to provide structural components and kits according to this European Standard. The assessment is related to two possible tasks performed by the manufacturer:<br>a) Initial type calculation (ITC) to assess the structural design capabilities, declare structural characteristics governed by design of the component;<br>b) Initial type testing (ITT) to assess the manufacturing capabilities | | |
| 6.2.2 | Characteristics | | P |
| 6.2.3 | Use of historical data | | P |
| 6.2.4 | Use of structural calculations for conformity assessment | | P |
| 6.2.5 | Initial type calculation | | P |
| 6.2.6 | Sampling, evaluation and conformity criteria | | P |
| 6.2.7 | Declaration of performance characteristics | | P |
| 6.2.8 | Recording of results from evaluations | | P |
| 6.2.9 | Corrective actions | | P |
| 6.3 | Factory production control | | P |
| 6.3.1 | General | | P |
| | The manufacturer shall establish, document and maintain a factory production control (FPC) system to ensure that products placed on the market conform to the declared performance characteristics. | | |
| | The FPC system shall consist of written procedures, regular inspections and tests and/or assessments and the use of results to control the component's constituent products, equipment, the production process and the manufactured component. | | |
| 6.3.2 | Personnel | | P |

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| 6.3.3 | Equipment | | P |
| 6.3.4 | Structural design process | | P |
| 6.3.5 | Constituent products used in manufacture | | P |
| 6.3.6 | Component specification | | P |
| 6.3.7 | Product evaluation | | P |
| 6.3.8 | Non-conforming products | | P |
| 7 | Classification and designation | | P |
| | The component shall be classified in accordance with the execution classes given in EN 1090-2 for steel components and EN 1090-3 for aluminium components. | | |
| 8 | Marking | | P |
| | The component shall be delivered with a mark that clearly identifies it, with reference to the component specification. Hard stamping may only be usedif and where positions have been agreed with the purchaser.For requirements and restrictions on marking, see EN 1090-2 and EN 1090-3. | | |

# Annex

## Photo of machine

## /Photo/

# Nameplate

**Double wing expansion box**

Model(s):F700

CE

Manufacturer: Hebei Xinheng Integrated Housing Co., Ltd.

Address: Botou City, Xixindian Township, Dongdoutun Village, Hebei Province (east side of Provincial Highway 281)

# Notice

1. This evaluation report is for samples only.

2. This evaluation report has assessed the basic requirements of the sample according to relevant standards.

3. This evaluation report is invalid without authorized signature.

4. This assessment report shall not be altered or deleted,

5. This assessment report shall not be used as a forensic expertise.

6. This assessment report is internal data and does not have the ability of public disclosure.

7. Client shall put forward demurrer within 15days after received report. laboratory shall refuse disposal if exceeded the time limit.

8. The assessment results presented in this report relate only to the object assessment.