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Small-unit Building Curtain Wall Components

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Foreword

This document is drafted in accordance with the provisions of GB/T 1.1—2020 Directives for Standardization - Structure and Drafting Rules for Standard Documents.

This document replaces JG/T 216—2007 Small-unit Curtain Walls for Buildings. Compared with JG/T 216—2007, in addition to structural adjustments and editorial revisions, the main technical changes are as follows:

a) Added three types of artificial panels, namely ceramic panels, terracotta panels and glass-ceramic panels, to the scope of application, and supplemented the corresponding contents in the relevant chapters (see Clause 1, 5.3.4, 6.1.4, 6.2.4, 6.3.4, 7.2.4, 7.3.4, 8.2);

b) Added the terms and definitions of "small-unit auxiliary frame" and "small-unit components for building curtain walls" (see 3.1, 3.2);

c) Deleted the terms and definitions of "small-unit panel", "small-unit building curtain wall" and "open-joint small-unit building curtain wall" (see 3.1, 3.2, 3.3 of the 2007 edition);

d) Revised the classification of small-unit components for building curtain walls and supplemented the marking method (see 4.1, 4.2);

e) Added the chapter of "General Requirements" and included "Materials" in this chapter (see Chapter 5, corresponding to Chapter 5 of the 2007 edition);

f) Added requirements for the selection of sealant for insulating glass (see 5.2.1.3);

g) Added requirements for the composition of sealant (see 5.2.1.4);

h) Added requirements for the selection of glass (see 5.2.1.2);

i) Added requirements for the material of fasteners (see 5.4.2);

j) Added requirements for metal welding studs (see 5.4.3);

k) Revised the requirements for the overlapping depth between the hooks of small-unit auxiliary frames and the main frame, and revised the description of anti-falling measures (see 5.5.2, corresponding to 6.2.5 of the 2007 edition);

l) Added requirements for setting anti-friction noise structures at the matching parts of the hooks between small-unit auxiliary frames and the main frame (see 5.5.3);

m) Added requirements for the material of rubber strips in contact with structural sealant for glass small-unit components of building curtain walls (see 6.1.1.1);

n) Added requirements for the section thickness and length of small-unit auxiliary frames (see 6.1.1.2, 6.1.2.2, 6.1.3.2);

o) Added requirements for the width and thickness of structural sealant for glass small-unit components of building curtain walls (see 6.1.1.3);

p) Added requirements for the relative position between the structural sealant for insulating glass lamination and the structural sealant bonded to the auxiliary frame of glass small-unit components of building curtain walls (see 6.1.1.4);

q) Added requirements for setting supporting strips and cushion blocks for glass small-unit components of building curtain walls (see 6.1.1.6, 6.1.1.7);

r) Added requirements for the connection between panels and small-unit auxiliary frames of metal small-unit

components of building curtain walls (see 6.1.2.1, 6.1.2.3, 6.1.2.4, 6.1.2.5);

s) Added requirements for the arrangement of stiffeners for metal small-unit components of building curtain walls (see 6.1.2.6);

t) Added requirements for the connection between panels and small-unit auxiliary frames of stone small-unit components of building curtain walls (see 6.1.3.1, 6.1.3.2, 6.1.3.3);

u) Revised and simplified the contents of physical performance requirements (see 6.4, 7.4, 8.4.2);

v) Revised the inspection categories (see 8.1) and inspection items (see 8.2);

w) Added classification diagrams (see Annex A).

Attention is drawn to the possibility that some provisions of this document may be the subject of patent rights. The issuing body of this document shall not be responsible for identifying any or all such patent rights.

This document is proposed by the Institute of Standards and Quotas of the Ministry of Housing and Urban-Rural Development.

This document is under the jurisdiction of the Technical Committee on Building Products and Components Standardization of the Ministry of Housing and Urban-Rural Development.

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The release history of this document and the document it replaces is as follows:

— First issued as JG/T 216—2007 in 2007;

— This is the first revision.

Small-unit Building Curtain Wall Components

1 Scope

This document specifies the classification and marking, general requirements, requirements, test methods, inspection rules, marking and accompanying documents, packaging, transportation and storage of small-unit components for building curtain walls.

This document applies to small-unit components for building curtain walls using glass, metal panels, stone materials and artificial panels (including only ceramic panels, terracotta panels and glass-ceramic panels) as panel materials.

2 Normative References

The contents of the following documents are incorporated into this document as indispensable provisions through normative reference in the text. For dated referenced documents, only the edition corresponding to the stated date applies to this document; for undated referenced documents, the latest edition (including all amendments) applies to this document.

GB/T 191 Packaging and Storage Pictorial Markings

GB/T 2680 Building Glass - Determination of Visible Light Transmittance, Direct Solar Transmittance, Total Solar Energy Transmittance, Ultraviolet Transmittance and Related Window Glass Parameters

GB/T 3199 Wrought Aluminium and Aluminium Alloy Products - Packaging, Marking, Transportation and Storage

GB/T 5237.6 Aluminium Alloy Profiles for Building Purposes - Part 6: Thermal Insulation Profiles

GB/T 6388 Shipping Marking for Transport Packages

GB 6566 Limit of Radionuclides in Building Materials

GB/T 8485 Classification and Test Method for Airborne Sound Insulation Performance of Building Windows and Doors

GB/T 9969 General Rules for Instruction Manual of Industrial Products

GB/T 14436 General Rules for Guarantee Documents of Industrial Products

GB/T 14683 Silicone and Modified Silicone Building Sealants

GB/T 15227 Test Method for Air Tightness, Water Tightness and Wind Resistance Performance of Building Curtain Walls

GB 16776 Silicone Structural Sealants for Building Purposes

GB/T 18250 Classification and Test Method for Interlayer Deformation Performance of Building Curtain Walls

GB/T 21086 Building Curtain Walls

GB/T 23261 Building Sealants for Stone

GB 24266 Silicone Structural Sealants for Insulating Glass

GB/T 29043 Classification and Test Method for Thermal Insulation Performance of Building Curtain Walls

GB/T 31433 General Technical Requirements for Building Curtain Walls and Windows

GB/T 31851 Test Method for Alkane Plasticizers in Silicone Structural Sealants

GB/T 32839 Metal Brackets for Dry-hanging Stone

GB/T 34327 Terminology for Building Curtain Walls

GB/T 38264 Classification and Test Method for Impact Resistance Performance of Building Curtain Walls

GB 50205 Code for Acceptance of Construction Quality of Steel Structures

JC 887 Epoxy Adhesives for Dry-hanging Stone Curtain Walls

JC/T 914 Butyl Hot-melt Sealants for Insulating Glass

3 Terms and Definitions

The terms and definitions specified in GB/T 34327 as well as the following ones apply to this document.

3.1 appendent frame for division unit

A full-length or short appendent frame (hanger) connected to four sides or opposite sides of the panel, and fixed to the curtain wall supporting frame via plug-in hanging installation.

3.2 division unit member for curtain wall

A prefabricated unit component composed of a panel and an appendent frame for division unit, which is fixed to the curtain wall supporting frame in a plug-in hanging manner.

4 Classification and Marking

4.1 Classification

4.1.1 Classification by panel material and their marking codes are given in Table 1. The classification diagrams are provided in Annex A.

Table 1 Classification and Marking Codes by Panel Material

Panel Material Classification	Glass	Metal Panel	Stone	Ceramic Panel	Terracotta Panel	Glass-ceramic Panel
Code	BL	JS	SC	CB	TB	WJ

4.1.2 Classification by the length of appendent frame for division unit and its connection mode with the panel, as well as their marking codes are given in Table 2. The classification diagrams are provided in Annex A.

Table 2 Classification and Marking Codes by Length of Appendent Frame and Connection Mode

Length of Appendent Frame for Division Unit	Full-length Appendent Frame				Short Appendent Frame (Hanger)			
Connection Mode with Panel	Structural Sealant	Screw	Clamping Slot	Back Bolt	Structural Sealant	Screw	Clamping Slot	Back Bolt
Code	CJ	CL	CC	CS	DJ	DL	DC	DS

4.1.3 Classification by structural form and their marking codes are given in Table 3. The classification diagrams are provided in Annex A.

Table 3 Classification and Marking Codes by Structural Form

Structural Form	Hidden Frame	Semi-hidden Frame	Exposed Frame
Code	YK	BY	MK

4.2 Marking

The product name code of the division unit member for curtain wall is XDY. Its marking consists of the product name, the document number, panel material, length of the appendent frame and its connection mode with the panel, structural form, and specifications.