

JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

☞ JIS A 6711 : 1997

Composite sidings with metal

ICS 91.100.10

Descriptors : steels, gypsum plaster, laminates, plasterboard, exterior wall coverings,
textile wall coverings, metals, boards

Reference number : JIS A 6711 : 1997 (E)

A 6711 : 1997

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of International Trade and Industry through deliberations at Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law:

Date of Establishment: 1979-03-01

Date of Revision: 1997-06-20

Date of Public Notice in Official Gazette: 1997-06-20

Investigated by: Japanese Industrial Standards Committee
Divisional Council on Architecture

JIS A 6711 : 1997, First English edition published in 1998-04

Translated and published by: Japanese Standards Association
4-1-24, Akasaka, Minato-ku, Tokyo, 107-8440 JAPAN

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the original JIS is to be the final authority.

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Printed in Japan

Composite sidings with metal

1 Scope This Japanese Industrial Standard specifies metal sidings composed of metal facing⁽¹⁾ and core⁽²⁾, used mainly for exterior covering of building (hereafter referred to as "siding").

Notes (1) The facing means the surface treated steel sheets, painted aluminium alloy sheet, coated stainless steel sheet and the like.

(2) The core means the gypsum board, rock wool decorative sound absorbing board, rigid plastic foam and the like.

Remarks : Normative references to this Standard are shown in Attached Table 1.

2 Definitions For the purpose of this Standard, the following definitions of principal terms apply:

- (1) **facing** Formed sheet of metal material used for the outdoor side of siding.
- (2) **core** Stuff combined with the facing to maintain the strength of siding.
- (3) **backing** Material located on the indoor side of siding to cover the core.
- (4) **rigid plastic foam** Generic term for rigid foamed resin used for core.
- (5) **thickness** Maximum thickness dimension of product in cross section.
- (6) **effective width** Dimension measured, combining two units of siding, from each top edge of one to the other, as shown in Figs. 1.1 to 1.3.

3 Classification Classifications and the symbols of sidings shall be as follows:

- (1) The classification by material and the symbols shall be as given in Table 1.

Table 1 Classification by material and symbols

Classification	Symbol	Remarks
Steel board siding	F—B	Surface treated steel sheet ⁽³⁾ used as facing, to which gypsum board, rock wool decorative sound absorbing board, etc., have been laminated as core.
Steel foam siding	F—P	Surface treated steel sheet used as facing, to which rigid plastic foam has been adhered as core.
Aluminium alloy board siding	A—B	Painted aluminium alloy sheet ⁽⁴⁾ used as facing, to which gypsum board, rock wool decorative sound absorbing board, etc., have been laminated as core.
Aluminium alloy foam siding	A—P	Painted aluminium alloy sheet used as facing, to which rigid plastic foam has been adhered as core.
Stainless steel board siding	S—B	Coated stainless steel sheet ⁽⁵⁾ used as facing, to which gypsum board, rock wool decorative sound absorbing board, etc., have been laminated as core.
Stainless steel foam siding	S—P	Coated stainless steel sheet used as facing, to which rigid plastic foam has been adhered as core.

Notes (3) The surface treated steel sheet is specified in 7.1 (1) to (3).

(4) The painted aluminium alloy sheet is specified in 7.1 (4).

(5) The coated stainless steel sheet is specified in 7.1 (5).

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(2) The classification by installation style and the symbol shall be as given in Table 2.

Table 2 Classification by installation style and the symbol

Classification by installation style	Symbol	Remarks
Vertical installation type	T	To serve exclusively for vertical installation.
Horizontal installation type	Y	To serve exclusively for horizontal installation.
Common installation type	K	To serve for both of vertical and horizontal installations.

4 Performance The performance, when tested by the methods of 8.1 to 8.6, shall conform to the specifications given in Table 3. When marking the heat and sound insulations, these shall be subjected to the tests of 8.7 and 8.8.

Table 3 Performance

Item of performance		Performance	Applicable test item No.
Bending strength		Every 3 test pieces to be at least 2 800 N/m ² .	8.1
Impact resistance		To be free from falling off of core or separation of joint.	8.2
Water-tightness		To be free from water leakage.	8.3
Corrosion resistance ⁽⁶⁾		To be free from rust and swelling or peeling of film.	8.4
Weatherability ⁽⁶⁾		To be free from rust, crack and remarkable discolouration.	8.5
Paint film performance ⁽⁶⁾	Shock deformation	To be free from abnormalities.	8.6
	Hardness	To be H or harder in pencil scratch test value.	

Note (6) These tests shall not be performed for the facings specified in 7.1 (1) to (5).

5 Shape and dimensions

5.1 Shape Examples of shape of sidings are shown in Figs. 1.1 to 1.3.

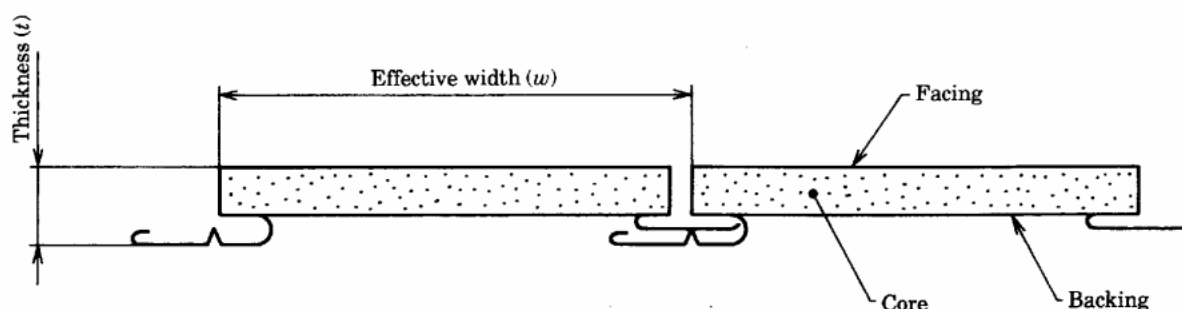


Fig. 1.1 Sectional view of vertical installation type