ICC-ES Evaluation Report

ESR-1495

Reissued November 2023

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Subject to renewal November 2025

This report also contains:

- FBC Supplement

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DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION Section: 07 46 33—Plastic Siding	REPORT HOLDER: KAYCAN LTD.	EVALUATION SUBJECT: KAYCAN PVC SIDING	

1.0 EVALUATION SCOPE

1.1 Compliance with the following codes:

- 2021,2018, 2015, 2012, 2009, and 2006 *International Building Code*® (IBC)
- 2021, 2018, 2015, 2012, 2009, and 2006 *International Residential Code*® (IRC)
- 2013 *Abu Dhabi International Building Code* (ADIBC)†

†The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

Properties evaluated:

- Exterior veneer
- Wind load resistance

1.2 Evaluation to the following green code(s) and/or standards:

- 2022 *California Green Building Standards Code (CALGreen)*, Title 24, Part 11
- 2020, 2015, 2012 and 2008 ICC 700 *National Green Building Standard™* (ICC 700-2020, ICC 700-2015, ICC 700-2012 and ICC 700-2008)

Attributes verified:

- See Section 3.0

2.0 USES

Kaycan PVC Siding is used as an exterior veneer and as closure material on the underside of exterior roof eaves (soffits).

3.0 DESCRIPTION

Kaycan PVC Siding is horizontal and vertical lap siding and soffits manufactured from rigid polyvinyl chloride (PVC) conforming to the requirements of ASTM D3679. The siding is used as an exterior wall covering over solid sheathing and as soffit. The siding has a plain- or wood-grain texture and is available in various colors with matching trim, corners, and starter strips. The panels are a minimum of 0.040 inch (1 mm) thick. Lengths range from 10 to 12.5 feet (3048 to 3810 mm). Panels are formed with an upper edge having nail slots and a lower edge that hooks into the upper edge of the lower course. The siding is produced in different profiles as described in Table 1 of this report.

The attributes of the siding panels have been verified as conforming to the provisions of (i) CALGreen Sections A4.405.1.3 (prefinished materials) and A5.406.1.2 (reduced maintenance); (ii) ICC 700-2020 Sections 601.7 and 11.601.7; (iii) ICC 700-2015 and ICC 700-2012 Sections 601.7, 11.601.7, and 12.1(A).601.7 (site-applied finishing materials); and (iv) ICC 700-2008 Section 601.7 (site-applied finishing materials). Note that decisions on compliance for those areas rest with the user of this report. The user is advised of the project-specific provisions that may be contingent upon meeting specific conditions, and the verification of those conditions is outside the scope of this report. The code may provide supplemental information as guidance.

4.0 INSTALLATION

4.1 General:

Installation of the siding, including the panels, corners, starter strips, trim and other accessory items, must be in accordance with the manufacturer's published installation instructions, the applicable code and this report. In the event of a conflict between the manufacturer's published installation instructions and this report, this report must govern. A copy of the manufacturer's published installation instructions must be on the jobsite at all times during installation.

Solid sheathing and a water-resistive barrier must be provided behind the siding, as required by the applicable code.

The allowable wind loads are as noted in the prescriptive requirements of the applicable code. See Section 4.2 for applications in excess of the prescriptive requirements or where the applicable code does not provide prescriptive requirements.

4.2 Wind Resistance:

4.2.1 General: The design wind pressure must be determined in accordance with the requirements of Chapter 16 of the IBC or Section R301.2.1.1 of the IRC, as applicable, and must not exceed 70 psf, subject to the conditions in Sections 4.2.2 and 4.2.3 of this report. Wind resistance of soffit panels is outside the scope of this report.

4.2.2 IBC: For buildings constructed under the requirements of the IBC, vinyl siding must be installed as described in 2021, and 2018 IBC Section 1404.14 (2015, 2012, and 2009 IBC Section 1405.14 and 2006 IBC Section 1405.13), and Section 4.1 of this report, over sheathings or materials addressed in IBC Section 2304.6 that are capable of independently resisting both positive and negative wind pressures occurring under design conditions at the building location. The sheathing must be capable of withstanding the indicated negative load, or greater. Positive wind pressures are not considered for the siding, since the sheathing must be capable of supporting the imposed loads, including but not limited to, positive and negative transverse wind pressures. Should V_{asd} (2021, 2018, 2015 and 2012 IBC) or the basic wind speed (2009 and 2006 IBC) at the building location exceed the conditions provided for in 2021, and 2018 IBC Section 1404.14 (2015, 2012, and 2009 IBC Section 1405.14 and 2006 IBC Section 1405.13), installation must be in accordance with Section 4.2.5 of this report.

4.2.3 IRC: For buildings constructed in accordance with the 2021, 2018, 2015, 2012, and 2009 IRC, the sidings must be installed as described in Sections 4.1 and in accordance with one of the following conditions:

1. For the 2021 and 2018 IRC, installation over sheathing other than foam plastic sheathing, in applications where the building's mean roof height and ultimate wind speed [2021 IRC Figure R301.2(2), 2018 IRC Figure R301.2(5)A] are in accordance with Table R703.3.2, sheathing must be as required by Table R703.3(1) of the IRC. Should any of these conditions not be met, installation must be in accordance with Section 4.2.5 of this report.

2. For the 2015 IRC, installation over sheathing other than foam plastic sheathing, in applications where the building's mean roof height and ultimate wind speed [Figure R301.2(4)A] are in accordance with Table R703.3.1, sheathing must be as required by Table R703.3(1) of the IRC. Should any of these conditions not be met, installation must be in accordance with Section 4.2.5 of this report.

3. For the 2012, 2009 and 2006 IRC, installation over sheathing other than foam plastic sheathing, in applications where the building's mean roof height does not exceed 30 feet and the basic wind speed [Figure R301.2(4)A] is less than 110 mph (49 m/s) in Exposure B, and does not exceed 90 mph (40 m/s) in Exposure C or 85 mph (37 m/s) in Exposure D, sheathing must be as required by Table R703.4 of the IRC. Should any of these conditions not be met, installation must be in accordance with Section 4.2.5 of this report.

4. For the 2021 and 2018 IRC, where installation is over foam plastic sheathing, the vinyl siding must comply with the requirements of IRC Table R703.11.2 and must be installed in accordance with IRC Section R703.11.2.

5. For the 2015, 2012 and 2009 IRC, where installation is over foam plastic sheathing, the siding must be installed in accordance with Section R703.11.2.

4.2.4 Negative Wind Pressures: Allowable negative wind pressures for siding installed over sheathing materials not addressed in Sections 4.2.2 or 4.2.3 are outside the scope of this report.

4.2.5 Applications in Excess of Prescriptive Requirements: For applications in excess of the prescriptive requirements, the Kaycan PVC Siding has an allowable negative wind load of 70 psf (3352 Pa) when attached to a code-complying, minimum $^{3}/_{8}$-inch-thick(10 mm), structural-rated OSB sheathing. The siding must be attached with $1^{1}/_{2}$-inch-long (38 mm), $^{3}/_{8}$-inch-diameter-head (10 mm), $^{1}/_{8}$-inch-diameter-shank (3 mm), corrosion-resistant roofing nails spaced 6 inches (152 mm) on center. The structural sheathing and framing to which the siding is attached are outside the scope of this report.

5.0 CONDITIONS OF USE:

The Kaycan PVC Siding described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

5.1 The siding is limited to installations on buildings of Type V-B (IBC) construction, and to construction permitted by the IRC, as applicable.

5.2 The exterior walls must be braced or sheathed to resist racking loads with approved materials in accordance with the applicable code.

5.3 The siding must be installed only on exterior walls over solid sheathing capable of resisting design wind pressures both positive and negative. The sheathing must be covered with a water-resistive barrier, as required by the applicable code.

5.4 The siding is manufactured in Cowansville, Quebec, Canada, under a quality-control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Vinyl Siding (AC37), dated February 2014, (editorially revised January 2021).

7.0 IDENTIFICATION

7.1 The Kaycan PVC Siding described in this report must be identified by a stamp bearing the Kaycan Ltd. name and/or trademark, the product type, the statement “Conforms to ASTM specification D3679,” and the evaluation report number (ESR-1495).

7.2 The report holder’s contact information is the following:

KAYCAN LTD.
105 INDUSTRIAL BOULEVARD
COWANSVILLE, QUEBEC
J2K 3G7, CANADA
Ph.: 1-450-263-5368
www.kaycan.com

TABLE 1—KAYCAN PVC SIDING

MODEL	PROFILE	LENGTH
Board & Batten	Single 7 inch Vertical	10' - 0"
D-4 Avanti	Double 4 inch Horizontal Dutch Lap	12' - 6"
D-4 Marquis	Double 4 inch Horizontal	12' - 6"
D-5 Contessa	Double 5 inch Horizontal	12' - 0"
D-5 Elegance	Double 5 inch Horizontal Dutch Lap	12' - 0"
D-5 Vertical	Double 5 inch Vertical	10' - 0"
Lewiston	Double 4.5 inch Horizontal	12' - 0"
Newport	Single $6^1/_2$ inch Horizontal	10' - 0"
Ocean Park Bevel	Double 4.5 inch Horizontal	16' - 8"
Ocean Park Cove	Double 4.5 inch Horizontal	16' - 8"
Platinum Series D-4	Double 4 inch Horizontal	12' - 6"
Platinum Series D-4 Dutch Lap	Double 4 inch Horizontal Dutch Lap	12' - 6"
Platinum Series T-3	Triple 3 inch Horizontal	12' - 0"
Sierra	Double 4.5 Horizontal	12' - 0"
T-3 Classic	Triple 3 inch Horizontal Dutch Lap	12' - 0"
T-3 Horizontal	Triple 3 inch Horizontal	12' - 0"
Vented 8"	Double 4 inch Perforated Soffit	12' - 0"
Vented 10"	Double 5 inch Perforated Soffit	12' - 0"
Solid 10"	Double 5 inch Solid Soffit	12' - 0"
Center Vented 12"/Solid 12"	Triple 4 inch Partially Perforated Soffit	12' - 6"
Vented 16"	Quadruple 4 inch Perforated Soffit	12' - 0"
Solid 16”	Quadruple 4 inch Solid Soffit	12' - 0"

For **SI:** 1 inch = 25.4 mm.

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 46 33—Plastic Siding

REPORT HOLDER:

KAYCAN LTD.

EVALUATION SUBJECT:

KAYCAN PVC SIDING

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Kaycan PVC Siding, described in ICC-ES evaluation report ESR-1495, has also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2023 *Florida Building Code—Building*
- 2023 *Florida Building Code—Residential*

2.0 CONCLUSIONS

The Kaycan PVC Siding**,** described in Sections 2.0 through 7.0 of the evaluation report ESR-1495, complies with the *Florida Building Code—Building* and the *Florida Building Code—Residential*, provided the design requirements are determined in accordance with the *Florida Building Code—Building* or the *Florida Building Code—Residential,* as applicable. The installation requirements noted in ICC-ES evaluation report ESR-1495 for the 2021 *International Building Code®* meet the requirements of the *Florida Building Code—Building* or the *Florida Building Code—Residential,* as applicable, with the following conditions:

- When using Section 1609 of the *Florida Building Code—Building* or ASCE7-22, the calculated wind load is allowed to be multiplied by 0.6 when comparing to the allowable negative wind load in Section 4.2 of the evaluation report.
- Installation over foam sheathing under the *Florida Building Code—Residential* must be in accordance with Section R703.11.
- Clearance between exterior wall coverings and final earth grade must meet the requirements of Section 1403.8 of the *Florida Building Code—Building* and Section R318.7 of the *Florida Building Code—Residential* .

Use of the Kaycan PVC Siding for compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building* and *Florida Building Code—Residential* has not been evaluated and is outside the scope of this supplemental report.

For products falling under Florida Rule 61G20-3, verification that the report holder's quality-assurance program is audited by a quality-assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the responsibility of an approved validation entity (or the code official, when the report holder does not possess an approval by the Commission).

This supplement expires concurrently with the evaluation report, reissued November 2023 and revised January 2024.