

ICC-ES Evaluation Report

ESR-1140

Reissued July 2024


This report also contains:

- CBC Supplement

Subject to renewal July 2025

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<p>DIVISION: 06 00 00— WOOD, PLASTICS AND COMPOSITES</p> <p>Section: 06 05 23.10— Adhesives</p>	<p>REPORT HOLDER: BOSTIK, INC.</p>	<p>EVALUATION SUBJECT: ISOGRIP® ADHESIVES:</p> <p>SP 2000D SERIES: SP 2020D, SP 2025D, SP 2030D</p> <p>SP 3000D SERIES: SP 3020D, SP 3030D</p> <p>SP 4000D SERIES: SP 4002D, SP4005D, SP 4010D, SP 4020D</p> <p>SP 5000D SERIES: SP 5000D, SP 5040D, SP 5050D, SP5080D and SP 5100D</p>	
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1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2021, 2018, 2015, 2012 and 2009 [International Building Code® \(IBC\)](#)
- 2021, 2018, 2015, 2012 and 2009 [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.

Property evaluated:

- Structural adhesives

2.0 USES

Isogrip® adhesives are used in the fabrication of laminated sandwich panels.

3.0 DESCRIPTION

The Isogrip® adhesives are one-part polyurethane adhesives used for bonding gypsum wallboard, mineral board, oriented strand board, plywood, borate-treated OSB, composite glass mat, fiberglass or metal to core materials of polystyrene and polyurethane foam plastics, and paper honeycomb materials, in laminated sandwich panel construction. These are Type II, Class 2, adhesives for structural use where high resistance to moisture is required in roof, wall and floor sandwich panels subject to sustained loadings.

The adhesives are available in 5-gallon (18.9 L) steel pails, 55-gallon (208 L) steel drums and 330-gallon (1250 L) totes. When stored in original unopened containers at temperatures between 45°F and 75°F (7.2°C and 23.9°C), the products have a shelf life of 90 days.

4.0 INSTALLATION

Surfaces to be bonded shall be clean and dry. Dust, oil, grease, water, paint and any other contaminants shall be removed prior to application of the adhesive. The amount of adhesive to be applied to contact surfaces must comply with the adhesive manufacturer's instructions. To ensure adhesion, the surfaces must be placed under pressure in accordance with the published instructions of Bostik, Inc.

The adhesives must be applied to one of the substrates to be bonded using roll coating, extruding techniques, or a swirl coater. The adhesives must be misted with water prior to covering with the other substrate being bonded.

Use of the adhesives must be in accordance with the provisions of the "ISOGRIP Adhesive Laminating Guide for Structural and Architectural Panels," as follows:

- ISOGRIP® SP 2020D, dated June 2000
- ISOGRIP® SP 2025D, dated April 2005
- ISOGRIP® SP 2030D, dated June 2000
- ISOGRIP® SP 3020D, dated December 1999
- ISOGRIP® SP 3030D, dated June 2000
- ISOGRIP® SP 4002D, dated May 2018
- ISOGRIP® SP 4005D, dated May 2018
- ISOGRIP® SP 4010D, dated May 1999
- ISOGRIP® SP 4020D, dated June 2000
- ISOGRIP® SP 5000D, dated April 2003
- ISOGRIP® SP 5040D, dated July 2003
- ISOGRIP® SP 5050D, dated July 2003
- ISOGRIP® SP 5080D, dated August 2018
- ISOGRIP® SP 5100D, dated April 2003

5.0 CONDITIONS OF USE:

The ISOGRIP® SP 2000D, SP 3000D, SP 4000D, and SP 5000D series adhesives described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 The adhesive system must be applied and cured in accordance with this report and the manufacturer's instructions.
- 5.2 The adhesive application is limited to use in sandwich panels specifically recognized in an ICC-ES evaluation report.
- 5.3 Based on creep test results, the maximum allowable design shear stress for the ISOGRIP polyurethane adhesive is 100 lbf/in² (689 kPa).
- 5.4 The adhesives are manufactured under a quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

Data in accordance with the [ICC-ES Acceptance Criteria for Sandwich Panel Adhesives \(AC05\)](#), dated June 2009 (editorially revised July 2020).

7.0 IDENTIFICATION

- 7.1 Each container of adhesive has a label noting the date of manufacture, the ICC-ES report number (ESR-1140), the product name and the name of the manufacturer (Bostik, Inc.).
- 7.2 The report holder's contact information is the following:

BOSTIK, INC.
11320 W WATERTOWN PLANK ROAD
WAUWATOSA, WISCONSIN 53226
(414) 774-2250
www.bostik.com

DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES
Section: 06 05 23.10—Adhesives

REPORT HOLDER:

BOSTIK, INC.

EVALUATION SUBJECT:**ISOGRIP® ADHESIVES:**

SP 2000D SERIES: SP 2020D, SP 2025D, SP 2030D

SP 3000D SERIES: SP 3020D, SP 3030D

SP 4000D SERIES: SP4002D, SP4005D, SP4010D, SP4020D

SP 5000D SERIES: SP 5000D, SP 5040D, SP 5050D, SP5080D and SP 5100D

1.0 REPORT PURPOSE AND SCOPE**Purpose:**

The purpose of this evaluation report supplement is to indicate that Isogrip® adhesives, described in ICC-ES evaluation report ESR-1140, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2019 *California Building Code* (CBC)

For evaluation of applicable chapters adopted by the California Office of Statewide Health Planning and Development (OSHPD) AKA: California Department of Health Care Access and Information (HCAI) and the Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

- 2019 *California Residential Code* (CRC)

2.0 CONCLUSIONS**2.1 CBC:**

The Isogrip® adhesives, described in Sections 2.0 through 7.0 of the evaluation report ESR-1140, comply with the CBC Chapter 16, provided the design and installation are in accordance with the 2018 *International Building Code*® (IBC) provisions noted in the evaluation report.

2.2 OSHPD:

The applicable OSHPD Sections and Chapters of the CBC are beyond the scope of this supplement.

2.3 DSA:

The applicable DSA Sections and Chapters of the CBC are beyond the scope of this supplement.

2.4 CRC:

The Isogrip® adhesives, described in Sections 2.0 through 7.0 of the evaluation report ESR-1140, complies with CRC Chapter 3, provided the design and installation are in accordance with the 2018 *International Residential Code*® (IRC) provisions noted in the evaluation report.

This supplement expires concurrently with the evaluation report, reissued July 2024.