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ICC-ES Evaluation Report

ESR-1530

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DIVISION: 03 00 00—CONCRETE
SECTION: 03 16 00—CONCRETE ANCHORS
DIVISION: 05 00 00—METALS
SECTION: 05 05 23—METAL FASTENINGS
DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES
SECTION: 06 05 23—WOOD, PLASTIC, AND COMPOSITE FASTENINGS
DIVISION: 09 00 00—FINISHES
SECTION: 09 22 16.23—FASTENERS

REPORT HOLDER:

BLUE POINT FASTENING, INC.

14728 YORBA COURT
CHINO, CALIFORNIA 91710

EVALUATION SUBJECT:

BLUE POINT POWDER-ACTUATED FASTENERS AND CEILING CLIP ASSEMBLIES



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DIVISION: 03 00 00—CONCRETE
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Section: 05 05 23—Metal Fastenings

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BLUE POINT POWDER-ACTUATED FASTENERS AND CEILING CLIP ASSEMBLIES

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2015, 2012, 2009 and 2006 *International Building Code*® (IBC)
- 2015, 2012, 2009 and 2006 *International Residential Code*® (IRC)

For evaluation for compliance with codes adopted by the Los Angeles Department of Building and Safety (LADBS), see [ESR-1530 LABC and LARC Supplement](#).

Property evaluated:

Structural

2.0 USES

The Blue Point powder-actuated fasteners are used for general fastening of building components, including connecting naturally durable wood sill plates to uncracked concrete, as alternatives to the cast-in-place anchors described in 2015 IBC Section 1901.3 (2012 IBC Section 1908; 2009 and 2006 IBC Section 1911). The ceiling clip assemblies are used as supporting hardware for

suspended ceiling systems. The fasteners and ceiling clip assemblies may be used under the IRC when an engineered design is submitted in accordance with IRC Section R301.1.3.

3.0 DESCRIPTION

3.1 Fasteners:

The fasteners are manufactured from steel wire complying with ASTM A510, Grade 1060, heat-treated to a Rockwell C hardness of 52-56 and mechanically zinc-plated to a minimum thickness of 0.0002 inch (0.005 mm). The zinc plating conforms to ASTM B695, Class 5, Type 1. See Figure 1 for product images.

3.1.1 PD Series Fasteners:

PD Series fasteners have a 0.145-inch-diameter (3.7 mm) smooth shank. The fasteners have a minimum effective length of 0.05 inch (1.2 mm) less than the nominal length. The shank has a ballistic point and is fitted with a plastic barrel guide.

3.1.2 PDW Series Fasteners:

PDW Series fasteners consist of a 3-inch-long (76 mm) PD Series fastener, described in Section 3.2 of this report, fitted with a 1-inch-diameter (25 mm), 0.073-inch-thick (1.85 mm), zinc-plated steel washer having a minimum 0.0002-inch-thick (0.005 mm) plating.

3.2 PDAC Series Ceiling Clip Assemblies:

PDAC Series ceiling clip assemblies consist of a 1¹/₄-inch-long (32 mm) PD Series fastener, described in Section 3.1.1 of this report, fitted with a Blue Point Angle Clip. The clip component of the PDAC90 assembly is a 90-degree-angle clip measuring 3³/₄ inch (19.1 mm) wide. The 1¹/₄-inch-long (32 mm) leg is fitted to the fastener and the 1³/₁₆-inch-long (20.8 mm) leg has a 1¹/₄-inch-diameter (7 mm) hole through which the ceiling wire is attached. The clip component of the PDAC120 assembly is a 120-degree-angle clip measuring 3³/₄ inch (19.1 mm) wide. The 1⁵/₁₆-inch-long (23.5 mm) leg is fitted to the fastener and the 3³/₄-inch-long (20 mm) leg has a 5⁵/₁₆-inch-diameter (8.5 mm) hole through which the ceiling wire is attached. The angle clips are produced from 0.071-inch-thick (1.8 mm) zinc-plated steel having a minimum 0.0002-inch-thick (0.005 mm) plating. The steel complies with ASTM A653 CS Type B.

3.3 Substrate Materials:

3.3.1 Concrete: Normalweight and sand-lightweight concrete must be stone-aggregate and comply with IBC Chapter 19 or IRC Section R402.2, as applicable. The

minimum concrete compressive strength at the time of fastener installation must be as noted in Tables 1 through 5, as applicable.

3.3.2 Steel Deck Panels: Steel deck panels must conform to a code-referenced material standard, with the minimum thickness and yield strength noted in Table 3. See Figure 2 for panel configuration requirements.

4.0 DESIGN AND INSTALLATION

4.1 Design:

4.1.1 General: Selection of fasteners must take into consideration the required length. The minimum effective shank length given in Section 3.1.1 must equal or exceed the sum of the thickness of the attached material and the minimum embedment depth shown in Table 1.

4.1.2 Allowable Loads: The applicable allowable shear and tension load tables for the Blue Point powder-actuated fasteners and ceiling clip assemblies driven into different base materials may be determined by referencing Tables 1, 2, 3 and 4. The most critical applied loads, excluding seismic load effects, resulting from the load combinations in IBC Section 1605.3.1 or 1605.3.2 must not exceed the allowable loads described in this section. For fasteners which are subjected to seismic loads, see Section 4.1.5 for additional information.

The allowable shear and tension (pullout) values in the tables of this report are for use in allowable stress design (ASD). The allowable loads apply to the interaction between the fasteners and the specified base materials only. Limit states such as pull-over and lateral bearing, which are governed by the properties of attached materials, are outside the scope of this report. Design of the connection to the attached material must comply with the applicable requirements of the IBC. When designing the connection of wood members to the base material, the bending yield strength of the PAFs can be assumed to be the same as that of a nail with the same shank diameter. The stress increases and load reductions described in IBC Section 1605.3 are not allowed.

4.1.3 Combined Loading: For fasteners subjected to both shear and tension loads, compliance with the following interaction equation must be verified:

$$(\rho/P_a) + (v/V_a) \leq 1$$

where:

- ρ = Actual applied tension load on the fastener, lbf (N).
- P_a = Allowable tension load for the fastener, lbf (N).
- v = Actual applied shear load on the fastener, lbf (N).
- V_a = Allowable shear load for the fastener, lbf (N).

4.1.4 Sill Plate to Foundation Connections:

The PDW Series fasteners may be used to attach naturally durable wood sill plates to concrete for structural walls in Seismic Design Categories A and B. Allowable loads for the fasteners, based on shear and tension testing of fasteners installed in concrete, are provided in Table 4. Bearing area and thickness of the washers are also given in Table 4. For shear loads, spacing of fasteners must be determined considering the lesser of allowable shear load from Table 4 and the allowable load on the wood sill plate, determined in accordance with the NDS, with a fastener bending yield strength, F_{yb} , of 90,000 psi (621 MPa) and a concrete dowel bearing strength, F_e , of 7,500 psi (52 MPa). For tension loads, spacing of fasteners must be determined considering the lesser of allowable tension

load from Table 4 and the pull-through capacity of the wood sill plate, determined in accordance with Section 3.10 of the NDS, using the washer bearing area from Table 4.

Blue Point fasteners listed in Table 5 may be used to attach naturally durable wood sill plates to concrete for interior, nonstructural walls [maximum horizontal transverse load on the wall must not exceed 5 psf (0.24 kN/m²)] in Seismic Design Categories A through F, when installation is as described in Table 5.

4.1.5 Seismic Considerations:

The Blue Point Power-actuated fasteners and ceiling clip assemblies are recognized for use when subjected to seismic loads as follows:

1. The fasteners and assemblies may be used with nonstructural components listed in Section 13.1.4 of ASCE 7, which are exempt from the requirements of ASCE 7.
2. The fasteners and ceiling clip assemblies fastened to concrete may be used to support acoustical tile or lay-in panel suspended ceiling systems, distributed systems and distribution systems where the service load on any individual fastener or ceiling clip assembly does not exceed the lesser of 90 lbf (400 N) or the published allowable load shown in Tables 1, 2 or 3, as applicable.
3. The PDW fasteners may be used to attach sill plates to concrete as described in Section 4.1.4.

4.2 Installation:

4.2.1 General: Installation of the Blue Point powder-actuated fasteners and ceiling clip assemblies must comply with the manufacturer's published installation instructions. A copy of these instructions must be available at the jobsite at all times during installation.

Fastener placement requires the use of a low-velocity powder-actuated tool used in accordance with the Blue Point Fastening, Inc., published installation instructions. For fasteners installed into concrete, the fasteners must not be driven until the concrete has reached the designated compressive strength.

4.2.2 Use with Treated Lumber: The Blue Point powder-actuated fasteners may be used in contact with fire-retardant-treated wood in dry, interior locations only, in accordance with 2015 IBC Section 2304.10.5.4 (2012 and 2009 IBC Section 2304.9.5.4), and Blue Point's recommendations. Use of fasteners in contact with preservative-treated wood, or in contact with fire-retardant-treated wood in exterior applications, is outside the scope of this report.

5.0 CONDITIONS OF USE

The Blue Point powder-actuated fasteners and ceiling clip assemblies 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 fasteners and ceiling clip assemblies are manufactured and identified in accordance with this report.
- 5.2** Fasteners and ceiling clip assemblies are installed in accordance with this report and Blue Point Fastening, Inc., instructions. In the event of a conflict between this report and the Blue Point Fastening, Inc., instructions, the more restrictive requirements govern.

- 5.3 Calculations demonstrating that the applied loads are less than the allowable loads described in this report must be submitted to the code official. The calculations must be prepared by a registered design professional where required by the statutes of the jurisdiction in which the project is to be constructed.
- 5.4 See Section 4.2.2 regarding fasteners in contact with preservative-treated and fire-retardant-treated lumber.
- 5.5 See Section 4.1.5 for seismic considerations.
- 5.6 Installation must be limited to dry, interior locations, which include exterior walls which are protected by an exterior wall envelope.
- 5.7 The minimum concrete thickness is three times the fastener embedment in concrete.
- 5.8 Use is limited to uncracked concrete. Cracking occurs when $f_t > f_r$ due to service loads or deformations.
- 5.9 The Blue Point powder-actuated fasteners and ceiling clip assemblies addressed in this report 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 Power-actuated Fasteners Driven into Concrete, Steel and Masonry Elements (AC70), dated February 2016.

7.0 IDENTIFICATION

Packages of fasteners and ceiling clip assemblies are labeled with the company name (Blue Point Fastening, Inc.), company address, the product designation, the fastener head and shank diameters or clip type, as applicable, and the evaluation report number (ESR-1530). In addition, the fastener heads are marked as shown in Figure 1.

TABLE 1—ALLOWABLE TENSION AND SHEAR VALUES FOR BLUEPOINT FASTENERS INSTALLED IN NORMALWEIGHT CONCRETE ^{1,2}

FASTENER	SHANK DIAMETER (inch)	EMBEDMENT DEPTH (inches)	ALLOWABLE LOADS (lbf)									
			2,500 psi		3,000 psi		3,500 psi		4,000 psi		4,500 psi	
Concrete Compressive Strength:			Tension	Shear	Tension	Shear	Tension	Shear	Tension	Shear	Tension	Shear
PD Series	0.145	1	121	230	140	230	160	235	180	240	200	245
	0.145	1 ^{5/32}	230	230	215	230	200	235	185	240	175	245

For SI: 1 inch = 25.4 mm, 1 psi = 6.89 kPa, 1 lbf = 4.45 N.

¹The fasteners shall not be driven until the concrete has reached the designated minimum compressive strength. Minimum concrete thickness is three times the fastener embedment into the concrete.

²The minimum fastener spacing is 4 inches center-to-center, and the minimum edge and end distances are 3 inches.

TABLE 2—ALLOWABLE TENSION, SHEAR AND OBLIQUE TENSION VALUES FOR BLUE POINT CEILING CLIP ASSEMBLIES INSTALLED IN NORMALWEIGHT CONCRETE ^{1,2,3}

CEILING CLIP ASSEMBLY	SHANK DIAMETER (inch)	EMBEDMENT (inch)	ALLOWABLE LOADS (lbf)		
			Vertical Tension	Shear	Oblique Tension
Concrete Compressive Strength:			$f'_c = 2500$ psi		
Load Direction:			Vertical Tension	Shear	Oblique Tension
PDAC90-32F10	0.145	1	154	239	197

For SI: 1 inch = 25.4 mm, 1 psi = 6.89 kPa, 1 lbf = 4.45 N.

¹The fasteners shall not be installed until the concrete has reached the designated minimum compressive strength. Minimum concrete thickness is three times the fastener embedment into the concrete.

²The minimum fastener spacing is 4 inches center-to-center, and the minimum edge and end distances are 3 inches.

³The oblique tension load is applied at a 45-degree angle; vertical tension load is applied at a 90-degree angle to the substrate (parallel to the fastener); shear load is applied parallel to the substrate (perpendicular to the fastener).

TABLE 3—ALLOWABLE TENSION AND SHEAR VALUES FOR BLUE POINT CEILING CLIP ASSEMBLIES INSTALLED THROUGH STEEL DECK INTO 3,000 psi SAND-LIGHTWEIGHT CONCRETE (lbf)^{1,2,3}

CEILING CLIP ASSEMBLY	LOWER FLUTE		UPPER FLUTE	
	Tension	Shear	Tension	Shear
PDAC90-32F10	149	257	169	260
PDAC120-32F10	146	255	194	229

For **SI**: 1 inch = 25.4 mm, 1 psi = 6.89 kPa, 1 lbf = 4.45 N.

¹The fasteners shall not be installed until the concrete has reached the designated minimum compressive strength. Minimum concrete thickness must be as shown in Figure 2.

²The steel deck panels must be 3-inch-deep (76 mm) composite deck panels and must have a minimum base-metal thickness of 0.035 inch, a minimum yield strength of 40 ksi and a minimum tensile strength of 55 ksi. See Figure 2 for steel deck panel configuration requirements. The thickness of concrete above the steel deck panels must be a minimum of 3 1/4 inches (83 mm).

³The minimum fastener spacing parallel to the deck flute and the minimum end distance is 4 inches center-to-center. Minimum distance to the edge of the deck flute is 1 1/8 inches, as shown in Figure 2.

TABLE 4—DESIGN INFORMATION FOR WOOD SILL PLATE ANCHORAGE TO NORMALWEIGHT CONCRETE FOOTING OR SLAB^{1,2,4}

FASTENER	SHANK DIAMETER (inch)	FASTENER LENGTH (inches)	WASHER DIAMETER (inch)	WASHER THICKNESS (inch)	WASHER BEARING AREA (in ²)	EMBEDMENT (inches)	ALLOWABLE LOAD (lbf) ³	
							Tension	Shear
PDW25-76F10	0.145	3	1	0.073	0.77	1 1/2	194	173

For **SI**: 1 inch = 25.4 mm, 1 psi = 6.89 kPa, 1 lbf = 4.45 N.

¹The fasteners must not be driven until the concrete has reached a minimum compressive strength of 2,500 psi. Minimum concrete thickness must be three times the fastener embedment into the concrete.

²Minimum edge distance is 1 3/4 inches (44 mm).

³Wood members connected to the substrate must be investigated for compliance with the applicable code in accordance with referenced design criteria, for both lateral resistance and fastener pull-through.

⁴Walls must have fasteners placed at 6 inches from ends of sill plates with maximum spacing as shown in this table.

TABLE 5—SPACING REQUIREMENTS FOR WOOD SILL PLATE ANCHORAGE OF INTERIOR NONSTRUCTURAL WALLS^{1,2,3,4,5,6,7}

FASTENER	NOMINAL FASTENER SHANK DIAMETER (inch) ²	FASTENER LENGTH (inches)	EMBEDMENT (inches)	CONCRETE EDGE DISTANCE (inches)	MAXIMUM SPACING (feet)	MAXIMUM WALL HEIGHT (feet)
PDW25-76F10	0.145	3	1 1/2	1.750	3	14

For **SI**: 1 inch = 25.4 mm, 1 foot = 305 mm, 1 psi = 6.89 kPa.

¹Fasteners shall not be driven until the concrete has reached a minimum concrete compressive strength of 2,500 psi.

²Interior nonstructural walls are limited to locations where bearing walls, shear walls or braced walls are not required by the approved plans.

³Fasteners shall be driven into the center of the sill plate and be at least 1 3/4 inch from the concrete edge.

⁴Walls shall have fasteners placed at 6 inches from ends of sill plates with maximum spacing between, as shown in this table.

⁵Walls shall be laterally supported at the top and the bottom.

⁶Sill or bottom plates shall comply with IBC Section 2304.1 and be of lumber with a specific gravity of 0.50 or greater.

⁷Minimum spacing shall be 4 inches on center or shall comply with Section 11.1.5 of the NDS to prevent splitting of the wood.

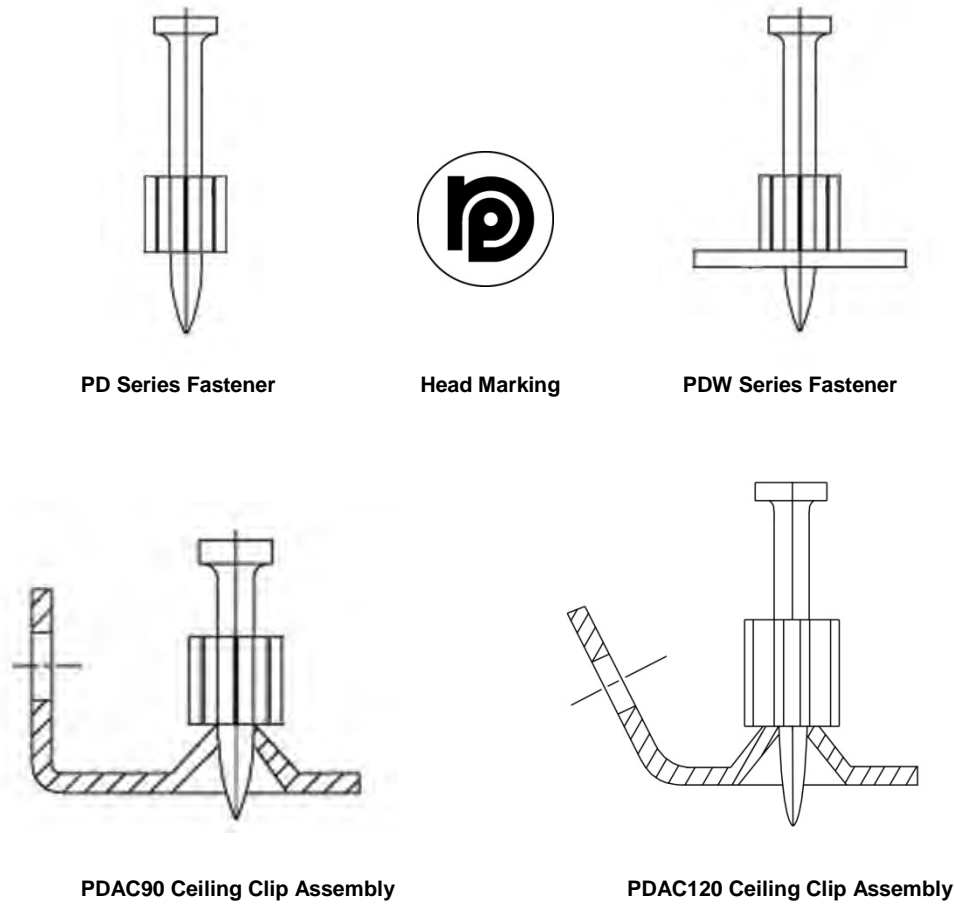


FIGURE 1—BLUE POINT FASTENERS AND CEILING CLIP ASSEMBLIES

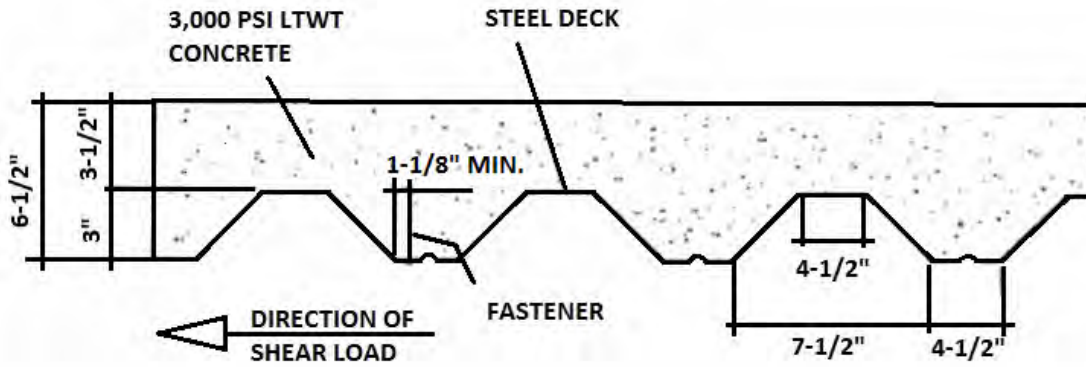


FIGURE 2—INSTALLATION THROUGH STEEL DECK PANELS INTO SAND-LIGHTWEIGHT CONCRETE

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ESR-1530 LABC and LARC Supplement

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EVALUATION SUBJECT:

BLUE POINT POWDER-ACTUATED FASTENERS AND CEILING CLIP ASSEMBLIES

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Blue Point Powder-Actuated Fasteners and Ceiling Clip Assemblies, described in ICC-ES master evaluation report [ESR-1530](#), have also been evaluated for compliance with the codes noted below as adopted by the Los Angeles Department of Building and Safety (LADBS).

Applicable code editions:

- 2017 *City of Los Angeles Building Code* (LABC)
- 2017 *City of Los Angeles Residential Code* (LARC)

2.0 CONCLUSIONS

The Blue Point Powder-Actuated Fasteners and Ceiling Clip Assemblies, described in Sections 2.0 through 7.0 of the master evaluation report [ESR-1530](#), comply with the LABC Chapters 19, and the LARC, and are subjected to the conditions of use described in this supplement.

3.0 CONDITIONS OF USE

The Blue Point Powder-Actuated Fasteners and Ceiling Clip Assemblies described in this evaluation report must comply with all of the following conditions:

- All applicable sections in the master evaluation report [ESR-1530](#).
- The design, installation, conditions of use and identification of the Blue Point Powder-Actuated Fasteners and Ceiling Clip Assemblies are in accordance with the 2015 *International Building Code*® (2015 IBC) provisions noted in the master evaluation report [ESR-1530](#).
- The design, installation and inspection are in accordance with additional requirements of LABC Chapters 16 and 17, as applicable.

- For seismic applications, Blue Point Powder-Actuated Fasteners must comply with Sections 4.1.4 and 4.1.5 of the master report ESR-1530. To be consistent with Section 4.1.4 of the master report ESR-1530, Blue Point Powder-Actuated fasteners must not be used to attach naturally durable wood sill plates to concrete for structural walls since all structures under the jurisdiction of the City of Los Angeles are assigned to a Seismic Design Category D, E or F.
- Under the LARC, an engineered design in accordance with LARC Section R301.1.3 must be submitted.
- The allowable load values listed in the master evaluation report are for the connection of the fasteners or ceiling clip assemblies to normalweight concrete, and lightweight concrete over metal decks. The connection between the fasteners/ceiling clip assemblies and the connected members must be checked for capacity (which may govern).

This supplement expires concurrently with the master report, reissued September 2017, and revised November 2017.

ICC-ES Evaluation Report

ESR-1530 CBC and CRC Supplement

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1.0 REPORT PURPOSE AND SCOPE

Purpose:

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Applicable code editions:

- 2016 *California Building Code* (CBC)
- 2016 *California Residential Code* (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The Blue Point Powder-Actuated Fasteners and Ceiling Clip Assemblies, described in Sections 2.0 through 7.0 of the master evaluation report ESR-1530, comply with CBC Chapters 19 and 19A, provided the design and installation are in accordance with the 2015 *International Building Code*® (2015 IBC) provisions noted in the master report, and the additional requirements of CBC Chapters 16, 16A, 17, 17A, 19 and 19A, as applicable.

2.2 CRC:

The Blue Point Powder-Actuated Fasteners and Ceiling Clip Assemblies, described in Sections 2.0 through 7.0 of the master evaluation report ESR-1530, comply with the CRC, provided the design and installation are in accordance with the 2015 *International Building Code*® (2015 IBC) provisions noted in the master report, and the additional requirements of CBC Chapters 16, 17 and 19, as applicable.

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ICC-ES Evaluation Report

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1.0 REPORT PURPOSE AND SCOPE

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Applicable code editions:

- 2017 *Florida Building Code—Building* (FBC-B)
- 2017 *Florida Building Code—Residential* (FBC-R)

2.0 CONCLUSIONS

The Blue Point Powder-Actuated Fasteners and Ceiling Clip Assemblies, described in Sections 2.0 through 7.0 of the master report ESR-1530, comply with the FBC-B and FBC-R, provided the design and installation are in accordance with the 2015 *International Building Code*® provisions noted in the master report.

Use of the Blue Point Powder-Actuated Fasteners and Ceiling Clip Assemblies has also been found to be in compliance with the High-Velocity Hurricane Zone provisions of the FBC-B and FBC-R.

For products falling under Florida Rule 9N-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).

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