

ICC-ES Evaluation Report

ESR-2579

Reissued April 2025 This report also contains:

- City of LA Supplement

Subject to renewal April 2026 - CA Supplement w/DSA and OSHPD

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| DIVISION: 03 00 00— CONCRETE Section: 03 16 00— Concrete Anchors DIVISION: 04 00 00— MASONRY Section: 04 05 19.16— Masonry Anchors DIVISION: 05 00 00— METALS Section: 05 05 23— | REPORT HOLDER: ITW RAMSET | EVALUATION SUBJECT: TRAKFAST FASTENERS | |
|---|---------------------------|---|--|
| Metal Fastenings | | | |

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2021, 2018, 2015, 2012, and 2009 <u>International Building Code® (IBC)</u>
- 2021, 2018, 2015, 2012, and 2009 International Residential Code® (IRC)

Property evaluated:

■ Structural

2.0 USES

TrakFast power-driven fasteners are used for general fastening of building components, such as cold-formed steel framing members, to uncracked normal-weight concrete, sand-lightweight concrete, steel decks filled with sand-lightweight concrete, concrete masonry units (CMUs) and steel base materials. The fasteners are used as alternatives to the cast-in-place concrete anchors described in IBC Section 1901.3 (2012 IBC Section 1908; 2009 IBC Section 1911) for placement in concrete; the embedded anchors described in Section 8.1.3 of TMS 402 referenced in Section 2107 of the IBC (Section 2.1.4 of TMS 402-11 and -08, referenced in Section 2107 of the 2012 and 2009 IBC, respectively); and to the welds and bolts used to attach to steel, described in IBC Sections 2204.1 and 2204.2, respectively. For structures regulated under the IRC, the fasteners may also be used where an engineered design is submitted in accordance with IRC Section R301.1.3.

3.0 DESCRIPTION

3.1 TrakFast Fasteners:

The fasteners are manufactured from steel complying with ASTM A510, grades 1060 or 1062, and austempered to a Rockwell "C" core hardness of 52-56. All fasteners have a straight, smooth shank with a diameter of 0.109 inch (2.77 mm), and a head diameter of 0.25 inch (6.4 mm). The minimum effective length of the fastener is 0.03 inch (0.762 mm) less than the nominal fastener length. Fasteners for installation into concrete have either a black oxide or a zinc-plated finish. Fasteners for installation into steel and concrete masonry have a zinc-plated finish. The fasteners are supplied in collated strips. See Figure 2.

3.2 Substrate Materials:

- **3.2.1 Concrete:** Normal-weight and sand-lightweight concrete must 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 the applicable allowable load table.
- **3.2.2 Steel Deck Panels:** Steel deck panels must conform to a code-referenced material standard, with the minimum thickness and minimum yield strength and tensile strength noted in <u>Table 2</u>. See <u>Figure 1</u> for panel configuration requirements.
- **3.2.3 Concrete Masonry:** Concrete masonry units (CMUs) must be minimum 8-inch-thick (203 mm), normal-weight blocks conforming to ASTM C90. Mortar must be minimum Type S mortar complying with the ASTM C270. The masonry wall must have a minimum compressive strength, f'_m of 1,800 psi (12.41 MPa).
- **3.2.4 Structural Steel:** Structural steel used in supports must comply with the minimum strength requirements of ASTM A36, and must have a thickness as noted in <u>Table 4</u>.

4.0 DESIGN AND INSTALLATION

4.1 Design:

- **4.1.1 General:** Selection of fasteners must take into consideration the applicable base material and the length of the fastener. The minimum fastener length must be determined as follows:
- Unless otherwise noted, for installation into concrete, concrete-filled steel deck panels, concrete masonry and steel base materials, the minimum effective shank length must equal or exceed the sum of the thickness of the attached material and the minimum embedment depth (penetration) shown in the applicable tables in this report.
- For installation through steel base materials, the minimum effective shank length must equal or exceed the sum of the following: the thickness of the attached material, the thickness of the base material and the required point penetration shown in Table 4.
- **4.1.2 Allowable Loads:** The most critical applied loads, excluding seismic load effects, resulting from the load combinations in ASCE 7-16/S1 (referenced in 2021 IBC Section 1605.1) or 2021 IBC Section 1605.2 (Section 1605.3.1 or 1605.3.2 of the 2018, 2015, 2012 and 2009 IBC) 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 <u>Tables 1</u> through <u>4</u> are for use in allowable stress design (ASD). The allowable loads apply to the interaction between the fasteners and the specified base materials only, and 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. The stress increases and load reductions described in 2021 IBC Section 1605.2 (2018, 2015, 2012 and 2009 IBC Section 1605.3) are not allowed.

Allowable shear and tension values for TrakFast fasteners driven into uncracked normal-weight concrete are shown in <u>Table 1</u>. Allowable shear and tension values for fasteners driven into sand-lightweight concrete, with or without metal deck, are shown in <u>Table 2</u>. Allowable shear and tension values for fasteners driven into concrete masonry are shown in <u>Table 3</u>. Allowable shear and tension values for fasteners driven into steel are shown in <u>Table 4</u>.

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

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

where:

p = Actual applied tension load on fastener, lbf (N).

 P_a = Allowable tension load for the fastener, lbf (N).

v = Actual applied shear load on fastener, lbf (N).

 V_a = Allowable shear load for the fastener, lbf (N).

- **4.1.4 Steel-to-steel Connections:** When the fasteners are used in connections of two steel elements in accordance with Section J5 of AlSI S100 (Section E5 of AlSI S100-12 for the 2015, 2012 and 2009 IBC), connection capacity must be determined in accordance with Sections 4.1.4.1 and 4.1.4.2, as applicable.
- **4.1.4.1 Connection Strength Tension:** To determine tensile connection strength in accordance with Section J5.2 of AISI S100 (Section E5.2 of AISI S100-12), the fastener tension strength, pull-out strength and pull-over strength must be known. These characteristics must be determined as follows:
- PAF Tensile Strength: The allowable fastener tension strengths must be calculated in accordance with Section J5.2.1 of AISI S100 (Section E5.2.1 of AISI S100-12) using a value of 260,000 psi for F_{uh}.
- Pull-out Strength: See <u>Table 4</u> for available pull-out strength.
- Pull-over Strength: The available pull-over strengths must be calculated in accordance with Section J5.2.3 of AISI S100 (Section E5.2.3 of AISI S100-12).
- **4.1.4.2 Connection Strength Shear:** To determine shear connection strength in accordance with Section J5.3 of AISI S100 (Section E5.3 of AISI S100-12), the fastener shear strength, bearing and tilting strength, pull-out strength in shear, net section rupture strength and shear strength limited by edge distance must be known. These characteristics must be determined as follows:
- PAF Shear Strength: The allowable fastener shear strengths must be calculated in accordance with Section J5.3.1 of AISI S100 (Section E5.3.1 of AISI S100-12) using a value of 260,000 psi for Fuh.
- **Bearing and Tilting Strength:** The available bearing and tilting strengths must be calculated in accordance with Section J5.3.2 of AISI S100 (Section E5.3.2 of AISI S100-12).
- **Pull-out Strength in Shear:** The available pull-out strength in shear must be the applicable allowable shear strength from <u>Table 4</u>, or must be calculated in accordance with Section J5.3.3 of AISI S100 (Section E5.3.3 of AISI S100-12).
- Net Section Rupture Strength and Shear Strength Limited by Edge Distance: The net section rupture strength must be determined in accordance with Section J5.3.4 of AISI S100 (Section E5.3.4 of AISI S100-12) and the shear strength limited by edge distance must be determined in accordance with Section J5.3.5 of AISI S100 (Section E5.3.5 of AISI S100-12).
- **4.1.5 Seismic Considerations:** The fasteners are recognized for use when subjected to seismic loads as follows:
- The TrakFast fasteners may be used for attachment of nonstructural components listed in Section 13.1.4 of ASCE 7, which are exempt from the requirements of ASCE 7.
- Concrete base materials: The fasteners installed in concrete may be used to support acoustical tile or layin panel suspended ceiling systems, distributed systems, and distribution systems where the service load on any individual fastener does not exceed the lesser of 90 lbf (400 N) or the published allowable load shown in <u>Tables 1</u> and <u>2</u>, as applicable.
- 3. Steel base materials: The fasteners installed in steel may be used where the service load on any individual fastener does not exceed the lesser of 250 lbf (1112 N) or the published allowable load shown in <u>Table 4</u>.
- 4. Interior, nonstructural walls: For interior, nonstructural walls that are not subject to sustained tension loads and are not a bracing application, the power-driven fasteners described in Section 3.1 may be used to attach steel tracks to concrete or steel in all Seismic Design Categories. In Seismic Design Categories D, E and F, the allowable shear load due to transverse pressure must be no more than 90 pounds (400 N) when attaching to concrete; or 250 pounds (1112 N) when attaching to steel. Substantiating calculations are submitted addressing the fastener-to-base material capacity and the fastener-to-attached material capacity. Interior nonstructural walls are limited to locations where bearing walls, shear walls or braced walls are not required by the approved plans. The design load on the fastener must not exceed the allowable load shown in Tables 1, 2 and 4, as applicable.

4.2 Installation:

The fasteners must be installed with a power fastening tool in accordance with ITW Ramset recommendations. The fastening procedures must comply with ITW Ramset's published installation instructions. These instructions must be available on the jobsite at all times during installation.

The fasteners must be installed with the fastener penetration, spacing and edge distances specified in this report. Concrete thickness must be a minimum of three times the fastener penetration. Face shell thickness of CMUs must be a minimum of 1¹/₄ inches (32 mm). Fasteners must not be installed into concrete until the concrete has reached the specified compressive strength. Installation is limited to dry, interior environments.

5.0 CONDITIONS OF USE:

The TrakFast fasteners 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 are manufactured and identified in accordance with this report.
- 5.2 Fastener installation complies with this report and the ITW Ramset published installation instructions. In the event of conflict between this report and ITW Ramset published installation 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 for approval. The calculations must be prepared by a registered design professional where required by the statutes of the jurisdiction in which the project is constructed.
- 5.4 For steel-to-steel connections that meet the applicability requirements of Section J5 of AISI S100 (Section E5 of AISI S100-12), calculations demonstrating that the available connection strength has been determined in accordance with Section J5 of AISI S100 (Section E5 of AISI S100-12) and Section 4.1.4 of this report, and equals to or exceeds the applied load, 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.
- 5.5 The minimum concrete thickness must be three times the fastener embedment.
- **5.6** See Section 4.1.5 for seismic considerations.
- **5.7** The use of fasteners is limited to installation in uncracked concrete or masonry. Cracking occurs when ft > fr due to service loads or deformations.
- **5.8** Use of fasteners is limited to dry, interior locations, which include exterior walls which are protected by an exterior wall envelope.
- **5.9** The TrakFast products 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 December 2019 (editorially revised January 2021).

7.0 IDENTIFICATION

- 7.1 Containers of fasteners are identified with the manufacturer's name (ITW Ramset), the product name (TrakFast), the fastener catalog number and length, quantity, the manufacturing date, and the evaluation report number (ESR-2579). In addition, each fastener is identified by the letter "R" stamped into the fastener head.
- 7.2 The report holder's contact information is the following:

ITW RAMSET
155 HARLEM AVENUE, N3E
GLENVIEW, ILLINOIS 60025
(800) 848-5611
www.ramset.com
techsupport@itwccna.com

TABLE 1—ALLOWABLE TENSION AND SHEAR VALUES FOR TRAKFAST FASTENERS INSTALLED IN UNCRACKED NORMALWEIGHT CONCRETE¹

| FASTENER PART NUMBER ² | SHANK DIAMETER (inch) | MINIMUM EMBEDMENT (inch) | MINIMUM SPACING (inches) | MINIMUM EDGE DISTANCE (inches) | ALLOWABLE LOADS (lbf) | | | |
|--------------------------------------|-----------------------|-----------------------------|--------------------------------|--------------------------------------|-----------------------|---------------------|------------------|-------------|
| Concrete Compressive Strength: | | | | | | 2,500 psi 4,000 psi | | |
| Load Direction: | | | | | | Shear (lbf) | Tension (lbf) | Shear (lbf) |
| FPP### | 0.109 | ⁵ / ₈ | 4 | 3 ³ / ₁₆ | 60 | 55 | 55 | 95 |
| FPP### | 0.109 | 3/4 | 4 | 3 ³ / ₁₆ | 60 | 80 | 55 | 115 |

For SI: 1 lbf = 4.448 N, 1 inch = 25.4 mm, 1 psi = 6.895 kPa.

TABLE 2—ALLOWABLE TENSION AND SHEAR VALUES FOR TRAKFAST FASTENERS INSTALLED IN MINIMUM 3,000 psi SAND-LIGHTWEIGHT CONCRETE¹

| | SHANK DIAMETER | MINIMUM EMBEDMENT | MINIMUM SPACING | MINIMUM EDGE | INSTALLED IN CONCRETE | | INSTALLED THROUGH METAL DECK⁴ (LOWER FLUTE) | | |
|---|-------------------|-----------------------------|--------------------|-----------------------|--------------------------|-------------|--|-------------|--|
| FASTENER PART NUMBER ² | (inch) | (inch) | (inches) | DISTANCE ³ | Tension (lbf) | Shear (lbf) | Tension (lbf) | Shear (lbf) | |
| FPP### | 0.109 | ⁵ / ₈ | 6 | 6 | 35 | 55 | 30 | 205 | |
| FPP### | 0.109 | 3/4 | 6 | 6 | 80 | 100 | 40 | 235 | |

For **SI:** 1 lbf = 4.448 N, 1 inch = 25.4 mm, 1 psi = 6.895 kPa, 1 ksi = 6.895 Mpa.

TABLE 3—ALLOWABLE TENSION AND SHEAR VALUES FOR TRAKFAST FASTENERS INSTALLED IN CONCRETE MASONRY UNITS (CMUs)^{1,2,7}

| | SHANK | MINIMUM | MINIMUM | MINIMUM EDGE | ALLOWABLE LOADS (lbf) FOR HOLLOW CMU (ANY LOCATION) ⁶ | | | |
|---|--------------------|-----------------------------|----------------------|--------------------|--|-------------|--|--|
| FASTENER PART NUMBER ³ | DIAMETER (inch) | EMBEDMENT (inch) | SPACING⁴ (inches) | DISTANCE⁵ (inches) | Tension (lbf) | Shear (lbf) | | |
| FPP### | 0.109 | ⁵ / ₈ | 6 | 5 | 35 | 50 | | |

For **SI:** 1 lbf = 4.448 N, 1 inch = 25.4 mm.

¹The fasteners must 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.

²### denotes numbers used in fastener designation to represent nominal fastener length.

¹The fasteners must 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.

²### denotes numbers used in fastener designation to represent nominal fastener length.

³For fasteners installed through steel deck, the fastener must be installed through the lower flutes of the steel deck and into minimum 3,000 psi sand-lightweight concrete, with minimum edge distances of 1¹/₈ inches from the edge of the steel deck and 4 inches from the end of the deck. See Figure 1.

⁴The allowable values are applicable to fasteners installed through the underside of a steel deck at the ribs and into minimum 3,000 psi sand-lightweight concrete. See Figure 1. The steel deck must have a minimum base-metal thickness of 0.034 inch and conform to ASTM A653 SS Grade 40, or higher. For ASTM A653 SS Grade 33 deck with a yield strength of 33 ksi, the tabulated shear values must be multiplied by 0.68. For steel decks having a yield strength of 38 ksi, tabulated shear values must be multiplied by 0.78.

¹See section 3.2.3 for CMU and mortar requirements.

 $^{^2\,\}text{Face}$ shell thickness of the CMUs must be a minimum of $1^{1}\!/_{\!4}$ inches.

^{3###} denotes numbers used in fastener designation to represent nominal fastener length.

⁴Applies to fasteners installed along the bed joint.

⁵Minimum distance from the edge of the wall.

⁶Fastener installed into face shell of CMU must be located a minimum of 1 inch from the mortar joints, center web and end web of the CMUs.

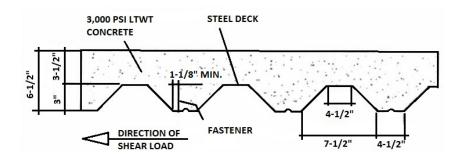
⁷No more than one fastener may be installed in an individual CMU cell.

TABLE 4—ALLOWABLE TENSION AND SHEAR VALUES FOR TRAKFAST FASTENERS INSTALLED IN ASTM A36 STEEL

| | | | MINIMUM EDGE DISTANCE (inch) | STEEL THICKNESS (inch) | | | | | | |
|------------------------------|-------|------------------------------|---------------------------------------|---|----------------|------------------|----------------|------------------|----------------|--|
| FASTENER PART (inch) NUMBER¹ | | MINIMUM SPACING (inch) | | ³ / ₁₆ ² | | 1/42 | | 3/83 | | |
| | | | | Tension (lbf) | Shear (lbf) | Tension (lbf) | Shear (lbf) | Tension (lbf) | Shear (lbf) | |
| FPP### | 0.109 | 1 | 1/2 | 195 | 292 | 223 | 278 | 181 | 186 | |

For **SI:** 1 lbf = 4.448 N, 1 inch = 25.4 mm.

³Fasteners must have 0.32-inch fastener penetration when installed into ³/₈-inch-thick steel. For steel-to-steel connections designed in accordance with Section 4.1.4, the tabulated allowable tension load may be increased by a factor of 1.25, and the design tension strength may be taken as the tabulated allowable tension load multiplied by a factor of 2.0.



SECTION - COMPOSITE DECK - NO SCALE

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

FIGURE 1—TRAKFAST FASTENER INSTALLATION LOCATION IN COMPOSITE DECK



FIGURE 2—TRAKFAST FASTENER

^{1###} denotes numbers used in fastener designation to represent nominal fastener length.

²Fasteners installed in ³/₁₆- and ¹/₄-inch-thick steel must penetrate the steel such that the shank pierces the steel and protrudes 0.16 and 0.10 inch, respectively.



ICC-ES Evaluation Report

ESR-2579 City of LA Supplement

Reissued April 2025

This report is subject to renewal April 2026.

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Section: 04 05 19.16—Masonry Anchors

DIVISION: 05 00 00-METALS

Section: 05 05 23—Metal Fastenings

REPORT HOLDER:

ITW RAMSET

EVALUATION SUBJECT:

TRAKFAST FASTENERS

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Trakfast Fasteners, described in ICC-ES evaluation report <u>ESR-2579</u>, 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:

- 2020 City of Los Angeles Building Code (LABC)
- 2020 City of Los Angeles Residential Code (LARC)

2.0 CONCLUSIONS

The Trakfast Fasteners, described in Sections 2.0 through 7.0 of the evaluation report <u>ESR-2579</u>, comply with the LABC Chapters 19, 21, 22 and the LARC, and are subject to the conditions of use described in this supplement.

3.0 CONDITIONS OF USE

The Trakfast Fasteners described in this evaluation report must comply with all of the following conditions:

- All applicable sections in the evaluation report <u>ESR-2579</u>.
- The design, installation, conditions of use and identification of the Trakfast Fasteners are in accordance with the 2018 *International Building Code*® (IBC) provisions noted in the evaluation report <u>ESR-2579</u>.
- The design, installation and inspection are in accordance with additional requirements of LABC Chapters 16 and 17, as applicable.
- Under the LARC, an engineered design in accordance with LARC Section R301.1.3 must be submitted.
- The allowable strength values listed in the evaluation report are for the connection of the fasteners to normal-weight concrete, and sand-lightweight concrete over metal decks. The connection between the fasteners and the connected members must be checked for capacity (which may govern).

This supplement expires concurrently with the evaluation report, reissued April 2025.





ICC-ES Evaluation Report

ESR-2579 CA Supplement w/DSA and OSHPD

Reissued April 2025 This report is subject to renewal April 2026.

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Section: 04 05 19.16—Masonry Anchors

DIVISION: 05 00 00—METALS Section: 05 05 23—Metal Fastenings

REPORT HOLDER:

ITW RAMSET

EVALUATION SUBJECT:

TRAKFAST FASTENERS

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Trakfast Fasteners, described in ICC-ES evaluation report ESR-2579, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

■ 2022 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 Architects (DSA), see Sections 2.1.1 and 2.1.2 below.

■ 2022 California Residential Code (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The Trakfast Fasteners, described in Sections 2.0 through 7.0 of the evaluation report ESR-2579, comply with CBC Chapters 19, 21 and 22, provided the design and installation are in accordance with the 2021 International Building Code® (IBC) provisions noted in the evaluation report and the additional requirements of CBC Chapters 16, 17, 19, 21 and 22, as applicable.

2.1.1 OSHPD:

The Trakfast Fasteners, described in Sections 2.0 through 7.0 of the evaluation report ESR-2579, comply with CBC amended Chapter 19 [OSHPD 1R, 2 & 5], and Chapter 19A [OSHPD 1 & 4], provided the design and installation are in accordance with the 2021 International Building Code® (IBC) provisions noted in the evaluation report and the additional requirements in Sections 2.1.1.1 and 2.1.1.2 of this supplement:

- 2.1.1.1 Verification Test Requirements: The installation verification test loads, frequency, and acceptance criteria shall be in accordance with Section 1901.3.4 [OSHPD 1R, 2B & 5] or 1910A.5 [OSHPD 1 & 4] of the CBC, as applicable.
- 2.1.1.2 Conditions of Use: Power actuated fastener in seismic shear application shall be in accordance with Section 1901.3.1 [OSHPD 1R, 2 & 5] or Section 1617A.1.20 [OSHPD 1 & 4].

2.1.2 DSA:

The Trakfast Fasteners, described in Sections 2.0 through 7.0 of the evaluation report ESR-2579, comply with CBC amended Chapter 19 [DSA-SS/CC] and Chapter 19A [DSA-SS], provided the design and installation are in accordance with the 2021





International Building Code® (IBC) provisions noted in the evaluation report and the additional requirements in Sections 2.1.2.1 and 2.1.2.2 of this supplement:

- 2.1.2.1 Verification Test Requirements: The installation verification test loads, frequency, and acceptance criteria shall be in accordance with Section 1909.2.7 [DSA-SS/CC] or 1910A.5 [DSA-SS] of the CBC, as applicable.
- 2.1.2.2 Conditions of Use: Power actuated fastener in seismic shear application shall be in accordance with Section 1617A.1.20 [DSA-SS].

2.2 CRC:

The Trakfast Fasteners, described in Sections 2.0 through 7.0 of the evaluation report ESR-2579, comply with the CRC, provided the design and installation are in accordance with the 2021 International Residential Code® (IRC) provisions noted in the evaluation report.

This supplement expires concurrently with the evaluation report, reissued April 2025.