

ICC-ES Evaluation Report

ESR-4229

Reissued February 2024

This report also contains:

Revised November 2024

- [City of LA Supplement](#)

Subject to renewal February 2026

- [CA Supplement w/ DSA and OSHPD](#)

- [FL Supplement w/ HVHZ](#)

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| | | | |
|--|---|--|---|
| DIVISION: 05 00 00— METALS Section: 05 05 23—Metal Fastenings | REPORT HOLDER: INTERNATIONAL FASTENERS, INC. | EVALUATION SUBJECT: DAGGERZ™ BRAND CONSTRUCTION FASTENERS |  |
|--|---|--|---|

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2024, 2021, 2018 and 2015 [International Building Code® \(IBC\)](#)
- 2024, 2021, 2018 and 2015 [International Residential Code® \(IRC\)](#)

Property evaluated:

- Structural

2.0 USES

International Fasteners, Inc. Daggerz™ Brand Construction Fasteners are used to connect cold-formed steel members together. The screws are used in engineered connections of cold-formed steel and connections prescribed by the code for cold-formed steel framing.

3.0 DESCRIPTION

3.1 General:

International Fasteners, Inc. Daggerz™ Brand Construction Fasteners are fully-threaded, self-drilling tapping screws which have a hex washer head or a modified truss head. The screws are manufactured from carbon steel wire conforming to ASTM A510 Grade 1022 and are heat treated and case hardened. The screws have an electroplated zinc coating, phosphate coating or proprietary corrosion resistant coating identified as Dagger Guard. [Table 1](#) provides screw descriptions, including sizes, head styles, point styles, drilling capacities and finishes for the screws. See [Figure 1](#) for depictions of the screws described in Sections 3.1.1 and 3.1.2. Daggerz™ Brand Construction Fasteners are available with a bonded sealing washer, as indicated in [Table 1](#) and as shown in [Figure 2](#).

3.1.1 HWH Screws: The #8, #10, #12 and 1/4 HWH screws comply with ASTM C1513 and have a hex washer head (HWH) style.

3.1.2 PMTH Screws: The #8, #10 and #12 PMTH screws comply with ASTM C1513 and have a Phillips modified truss head (PMTH) style.

3.2 Cold-formed Steel:

Connected steel must comply with one of the specifications listed in Section A3.1 of AISI S100 (Section A2.1 of AISI S100 for the 2015 IBC) and must have the minimum base-metal thickness and tensile strength (F_u) shown in the tables of this report.

4.0 DESIGN AND INSTALLATION

4.1 Design:

4.1.1 General: Selection of screw length must be based on the thickness of the fastened steel members, plus the minimum required protrusion past the back of the supporting steel. Point selection must be based on the drilling capacity of the screw. See [Table 1](#) for the minimum required protrusion lengths and the drilling capacities.

When tested for corrosion resistance in accordance with ASTM B117, screws with coatings described in [Table 1](#) met the minimum requirements listed in ASTM F1941, as required by ASTM C1513, with no white corrosion after three hours and no red dust after 12 hours.

4.1.2 Prescriptive Design: The HWH and PMTH screws described in Sections 3.1.1 and 3.1.2 may be used where ASTM C1513 screws of the same size, head type and type (self-drilling) are prescribed in the IRC and in the AISI standards referenced in IBC Chapter 22 for steel-to-steel connections.

4.1.3 Engineered Design of Steel-to-Steel Connections: The HWH and PMTH screws described in Sections 3.1.1 and 3.1.2 have been evaluated for use in engineered connections of cold-formed steel, light-framed construction. Design of connections must comply with Section J4 of AISI S100 (Section E4 of AISI S100 for the 2015 IBC), using the fastener tension and shear strengths shown in [Table 5](#). Available strengths for select screw/steel material combinations subjected to pull-out, pull-over, and shear (bearing) capacity, are provided in [Tables 2, 3, and 4](#), respectively. These connection values are applicable to connections where the connected steel elements are in direct contact with one another. Design provisions for tapping screw connections subjected to combined shear and tension loading are outside the scope of this report.

For connections subject to tension, the least of the tensile strength of the screw, the connection pull-over strength, and the connection pull-out strength found, respectively, in [Tables 2, 3 and 5](#) of this report must be used for design. For connections subject to shear, the lesser of the fastener shear strength and the connection shear capacity found, respectively, in [Tables 4 and 5](#) of this report must be used for design.

Under the 2024 and 2021 IBC, for screws used in framing connections, in order for the screws to be considered fully effective, the minimum spacing between the fasteners must be 3 times the nominal screws diameter and the minimum edge distance must be 1.5 times the nominal screw diameter. Under the 2018 and 2015 IBC, for screws used in framing connections, in order for the screws to be considered fully effective, the minimum spacing between the fasteners and the minimum edge distance must be three times the nominal diameter of the screws, except when the edge is parallel to the direction of the applied force, in which case the minimum edge distance must be 1.5 times the nominal screw diameter. When the spacing between screws is less than 3 times the nominal screw diameter, but at least 2 times the nominal screw diameter, the connection shear strength values in [Table 4](#) must be reduced by 20 percent [Refer to Section B1.5.1.3 of AISI S240 (Section D1.5 of AISI S200 for the 2015 IBC)].

For screws used in applications other than framing connections, the minimum spacing between the fasteners must be three times the nominal screw diameter, and the minimum edge and end distance must be 1.5 times the nominal screw diameter.

Connected members must be checked for rupture in accordance with Section J6 of AISI S100 (Section E6 of AISI S100 for the 2015 IBC).

4.2 Installation:

Installation of the screws must be in accordance with the manufacturer's published installation instructions and this report. The manufacturer's published installation instructions must be available at the jobsite at all times during installation.

The screws must be installed perpendicular to the work surface, using a variable screw driving tool. The screw must penetrate through the supporting steel with a minimum of three threads protruding past the back side of the supporting steel.

5.0 CONDITIONS OF USE:

The Daggerz™ Brand Construction 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 Screws must be installed in accordance with the manufacturer's published installation instructions and this report. In the event of a conflict between this report and the manufacturer's published installation instructions, this report governs.

- 5.2 The screw strength values specified in Section 4.1.3 and [Tables 2](#) through [5](#) must not be increased for short-duration loads, such as wind or earthquake loads.
- 5.3 Evaluation of screws subjected to cyclic or fatigue loading is outside the scope of this report. Applicable Seismic Design Categories shall be determined in accordance with the code for the entire assembly constructed with the screws.
- 5.4 The utilization of the nominal screw strength values contained in this evaluation report, for the design of cold-formed steel diaphragms, is outside the scope of this report. Diaphragms constructed using the screws must be addressed in a current ICC-ES evaluation report based upon the ICC-ES Acceptance Criteria for Steel Deck Roof and Floor Systems (AC43).
- 5.5 Drawings and calculations verifying compliance with this report and the applicable code must be submitted to the code official for approval. The drawings and calculations must be prepared by a registered design professional when required by the statutes of the jurisdiction in which the project is to be constructed.
- 5.6 The screws 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 Tapping Screw Fasteners Used in Steel-to-Steel Connections \(AC118\)](#), dated January 2018 (editorially revised February 2024).

7.0 IDENTIFICATION

- 7.1 The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-4229) along with the name, registered trademark, or registered logo of the report holder must be included in the product label.
- 7.2 In addition, the Daggerz™ screws are marked with a D and a Z on the top surface of the screw heads, as shown in [Figure 1](#), and each box of Daggerz™ screws is labeled with the part number, nominal screw size, nominal screw length, point type and finish.
- 7.3 The report holder's contact information is the following:

INTERNATIONAL FASTENERS, INC.
1341 MASSARO BOULEVARD
TAMPA, FLORIDA 33619
(888) 241-0203
www.daggerz.com

TABLE 1—INTERNATIONAL FASTENERS, INC. DAGGERZ™ SELF DRILLING SCREWS

| PART NUMBER ³ | DESCRIPTION (Nominal Size - TPI, Head Style) ¹ | NOMINAL HEAD DIAMETER (in.) | NOMINAL SCREW DIAMETER (in.) | POINT NUMBER | DRILLING CAPACITY (in.) | | MINIMUM REQUIRED PROTRUSION (in.) | COATING ² |
|----------------------------|---|--------------------------------------|---------------------------------------|-----------------|----------------------------|-------|--|----------------------|
| | | | | | Min. | Max. | | |
| NEOSDCT08### ⁴ | 8-18 x L HWH | 0.473 | 0.164 | 2 | 0.033 | 0.112 | 0.488 | DG |
| NEOSDCT10### ⁴ | 10-16 x L HWH | 0.473 | 0.190 | 3 | 0.110 | 0.175 | 0.584 | DG |
| NEOSDCT12### ⁴ | 12-14 x L HWH | 0.551 | 0.216 | 3 | 0.110 | 0.210 | 0.657 | DG |
| NEOSDCT14034 ⁴ | 1/4-14 X 3/4 HWH | 0.591 | 0.250 | 3 | 0.110 | 0.220 | 0.665 | DG |
| NEOSDCT14### ⁴ | 1/4-14 x L HWH | 0.591 | 0.250 | 3 | 0.110 | 0.220 | 0.703 | DG |
| NEOSDZ08### ⁴ | 8-18 x L HWH | 0.473 | 0.164 | 2 | 0.033 | 0.112 | 0.488 | ZINC3 |
| NEOSDZ10### ⁴ | 10-16 x L HWH | 0.473 | 0.190 | 3 | 0.110 | 0.175 | 0.584 | ZINC3 |
| NEOSDZ12### ⁴ | 12-14 x L HWH | 0.551 | 0.216 | 3 | 0.110 | 0.210 | 0.657 | ZINC3 |
| NEOSDZ14034 ⁴ | 1/4-14 X 3/4 HWH | 0.591 | 0.250 | 3 | 0.110 | 0.220 | 0.665 | ZINC3 |
| NEOSDZ14### ⁴ | 1/4-14 x L HWH | 0.591 | 0.250 | 3 | 0.110 | 0.220 | 0.703 | ZINC3 |
| SD4CT1278 | 12-24 X 7/8 HWH | 0.407 | 0.216 | 4 | 0.175 | 0.290 | 0.568 | DG |
| NEOSD4CT1278 ⁴ | 12-24 X 7/8 HWH | 0.551 | 0.216 | 4 | 0.175 | 0.290 | 0.684 | DG |
| SD5CT12### | 12-24 x L HWH | 0.407 | 0.216 | 5 | 0.175 | 0.500 | 0.737 | DG |
| SD5Z12### | 12-24 x L HWH | 0.407 | 0.216 | 5 | 0.175 | 0.500 | 0.737 | ZINC3 |
| NEOSD5CT12### ⁴ | 12-24 x L HWH | 0.551 | 0.216 | 5 | 0.175 | 0.500 | 0.865 | DG |
| NEOSD5Z12### ⁴ | 12-24 x L HWH | 0.551 | 0.216 | 5 | 0.175 | 0.500 | 0.865 | ZINC3 |
| SD5CT14### | 1/4-20 x L HWH | 0.489 | 0.250 | 5 | 0.175 | 0.500 | 0.783 | DG |
| SD5Z14### | 1/4-20 x L HWH | 0.489 | 0.250 | 5 | 0.175 | 0.500 | 0.783 | ZINC3 |
| NEOSD5CT14### ⁴ | 1/4-20 x L HWH | 0.591 | 0.250 | 5 | 0.175 | 0.500 | 0.909 | DG |
| NEOSD5Z14### ⁴ | 1/4-20 x L HWH | 0.591 | 0.250 | 5 | 0.175 | 0.500 | 0.909 | ZINC3 |
| SDCTSLV08### | 8-18 x L HWH | 0.330 | 0.164 | 2 | 0.033 | 0.112 | 0.388 | DG |
| SDCTSLV10### | 10-16 x L HWH | 0.395 | 0.190 | 3 | 0.110 | 0.175 | 0.469 | DG |
| SDCTSLV12### | 12-14 x L HWH | 0.407 | 0.216 | 3 | 0.110 | 0.210 | 0.540 | DG |
| SDCTSLV14034 | 1/4-14 X 3/4 HWH | 0.489 | 0.250 | 3 | 0.110 | 0.220 | 0.530 | DG |
| SDCTSLV14### | 1/4-14 x L HWH | 0.489 | 0.250 | 3 | 0.110 | 0.220 | 0.568 | DG |
| SDZ08### | 8-18 x L HWH | 0.330 | 0.164 | 2 | 0.033 | 0.112 | 0.388 | ZINC3 |
| SDZ100012 | 10-16 X 1/2 HWH | 0.395 | 0.190 | 2 | 0.033 | 0.175 | 0.388 | ZINC3 |
| SDZ10### | 10-16 x L HWH | 0.395 | 0.190 | 3 | 0.110 | 0.175 | 0.450 | ZINC3 |
| SDZ12### | 12-14 x L HWH | 0.407 | 0.216 | 3 | 0.110 | 0.210 | 0.510 | ZINC3 |
| SDZ14### | 1/4-14 x L HWH | 0.489 | 0.250 | 3 | 0.110 | 0.220 | 0.528 | ZINC3 |
| MTSDB08### | 8-18 x L PMTH | 0.437 | 0.164 | 2 | 0.033 | 0.112 | 0.362 | PHOS |
| MTSDZ08### | 8-18 x L PMTH | 0.437 | 0.164 | 2 | 0.033 | 0.112 | 0.364 | ZINC3 |
| MTSDZ10### | 10-16 x L PMTH | 0.437 | 0.190 | 3 | 0.110 | 0.175 | 0.455 | ZINC3 |
| MTSDZ12034 | 12-14 X 3/4 PMTH | 0.437 | 0.216 | 3 | 0.110 | 0.210 | 0.519 | ZINC3 |

For SI: 1 inch = 25.4 mm.

¹Head style abbreviations: PMTH = Phillips Modified Truss Head; HWH = Hex Washer Head; TPI denotes thread per inch.²Coating abbreviations: ZINC3 = Zinc-RoHS compliant; DG = Dagger-Guard; PHOS= phosphate coating (gray to black).³### in the product designation denotes digits representing screw length.⁴Screw has a bonded sealing washer, as shown in [Figure 2](#). Nominal head diameter refers to the nominal diameter of the bonded sealing washer. Minimum required protrusion length includes bonded washer thickness after installation.

TABLE 2—TENSILE PULL-OUT CAPACITIES FOR CONNECTION SCREWS (pounds-force)^{1,2,3,4}

| | | | Steel $F_u = 45$ ksi | | | | | Steel $F_u = 58$ ksi | | |
|-------------------------------|------------------------|---------|--|--------------------|--------------------|--------------------|--------------------|----------------------|-------|-------|
| Screw Designation | Nominal Diameter (in.) | POINT # | Nominal thickness of member not in contact with the fastener head (inch) | | | | | | | |
| | | | 0.036 (20 gage) | 0.048 (18 gage) | 0.060 (16 gage) | 0.075 (14 gage) | 0.105 (12 gage) | 0.125 | 0.188 | 0.250 |
| HWH Allowable Strength (ASD) | | | | | | | | | | |
| #8-18 | 0.164 | 2 | 92 | 127 | 172 | 222 | 275 | - | - | - |
| #10-16 | 0.190 | 3 | 92 | 127 | 178 | 227 | 334 | - | - | - |
| #12-14 | 0.216 | 3 | 98 | 133 | 178 | 247 | 334 | 616 | 908 | - |
| #12-24 | 0.216 | 4 | - | - | - | - | - | 616 | 1028 | 1154 |
| #12-24 | 0.216 | 5 | - | - | - | - | - | 616 | 1028 | 1154 |
| 1/4"-14 | 0.250 | 3 | 106 | 151 | 199 | 252 | 323 | 630 | 938 | - |
| 1/4"-20 | 0.250 | 5 | - | - | - | - | - | 633 | 948 | 1410 |
| HWH Design Strength (LRFD) | | | | | | | | | | |
| #8-18 | 0.164 | 2 | 147 | 203 | 275 | 355 | 439 | - | - | - |
| #10-16 | 0.190 | 3 | 147 | 203 | 285 | 363 | 535 | - | - | - |
| #12-14 | 0.216 | 3 | 157 | 213 | 285 | 395 | 535 | 985 | 1452 | - |
| #12-24 | 0.216 | 4 | - | - | - | - | - | 985 | 1645 | 1847 |
| #12-24 | 0.216 | 5 | - | - | - | - | - | 985 | 1645 | 1847 |
| 1/4"-14 | 0.250 | 3 | 170 | 241 | 318 | 404 | 516 | 1009 | 1500 | - |
| 1/4"-20 | 0.250 | 5 | - | - | - | - | - | 1013 | 1421 | 2256 |
| PMTH Allowable Strength (ASD) | | | | | | | | | | |
| #8-18 | 0.164 | 2 | 91 | 127 | 175 | 227 | 305 | - | - | - |
| #10-16 | 0.190 | 3 | 92 | 127 | 178 | 227 | 334 | - | - | - |
| #12-14 | 0.216 | 3 | 98 | 133 | 178 | 247 | 334 | 616 | 908 | - |
| PMTH Design Strength (LRFD) | | | | | | | | | | |
| #8-18 | 0.164 | 2 | 146 | 203 | 280 | 363 | 487 | - | - | - |
| #10-16 | 0.190 | 3 | 147 | 203 | 285 | 363 | 535 | - | - | - |
| #12-14 | 0.216 | 3 | 157 | 213 | 285 | 395 | 535 | 985 | 1452 | - |

For SI: 1 inch = 25.4 mm, 1lbf = 4.4N, 1 ksi = 6.89 MPa.

¹For tension connections, the least of the screw pull-out, pullover, and tension strength found in [Tables 2, 3 and 5](#) respectively must be used for design.

²Strength values determined for steel with $F_u = 45$ ksi are based on laboratory tests.

³Strength values determined for steel with $F_u = 58$ ksi are based on laboratory tests.

⁴— Indicates the that pull-out capacity for the given steel thickness was not tested or calculated.

TABLE 3—TENSILE PULL-OVER CAPACITIES FOR CONNECTION SCREWS (pounds-force)^{1,2,4}

| | | | Steel $F_u = 45$ ksi | | | | | Steel $F_u = 58$ ksi | | | | |
|--------------------------|---------------------|-----|--|--------------------|--------------------|--------------------|--------------------|----------------------|-------------------|-------|--|--|
| Screw Designation | Head Diameter (in.) | | Nominal thickness of member not in contact with the fastener head (inch) | | | | | | | | | |
| | | | 0.036 (20 gage) | 0.048 (18 gage) | 0.060 (16 gage) | 0.075 (14 gage) | 0.105 (12 gage) | 0.125 | 0.188 | 0.250 | | |
| HWH | | | | | | | | | | | | |
| Allowable Strength (ASD) | | | | | | | | | | | | |
| #8-18 | 0.330 | 285 | 348 | 415 | 682 | 605 | - | - | - | - | | |
| #10-16 | 0.395 | 342 | 506 | 775 | 809 | 792 | - | - | - | - | | |
| #12-14 | 0.407 | 342 | 506 | 832 | 819 | 990 | 1222 | 1161 | - | - | | |
| #12-24 | 0.407 | - | - | - | - | - | 1506 | 1334 | 1193 | - | | |
| #12-24 | 0.407 | - | - | - | - | - | 1506 | 1334 | 1193 | - | | |
| 1/4"-14 | 0.489 | 385 | 603 | 636 | 778 | 1253 | 1949 | 1131 | 2965 ³ | - | | |
| 1/4"-20 | 0.489 | - | - | - | - | - | 1813 ³ | 2712 ³ | 3625 ³ | - | | |
| Design Strength (LRFD) | | | | | | | | | | | | |
| #8-18 | 0.330 | 428 | 522 | 623 | 1091 | 908 | - | - | - | - | | |
| #10-16 | 0.395 | 513 | 759 | 1240 | 1294 | 1267 | - | - | - | - | | |
| #12-14 | 0.407 | 513 | 759 | 1332 | 1311 | 1584 | 1873 | 1858 | - | - | | |
| #12-24 | 0.407 | - | - | - | - | - | 2409 | 2135 | 1909 | - | | |

TABLE 3—TENSILE PULL-OVER CAPACITIES FOR CONNECTION SCREWS (pounds-force)^{1,2,4} (Continued)

| | | | | | | | | | |
|---------------------------------|-------|-----|-----|------|------|------|-------------------|-------------------|-------------------|
| #12-24 | 0.407 | - | - | - | - | - | 2409 | 2135 | 1909 |
| 1/4"-14 | 0.489 | 578 | 905 | 954 | 1167 | 1879 | 3118 | 1810 | 4448 ³ |
| 1/4"-20 | 0.489 | - | - | - | - | - | 2719 ³ | 4067 ³ | 5438 ³ |
| PMTH | | | | | | | | | |
| Allowable Strength (ASD) | | | | | | | | | |
| #8-18 | 0.437 | 387 | 441 | 475 | 682 | 605 | - | - | - |
| #10-16 | 0.437 | 387 | 441 | 775 | 809 | 792 | - | - | - |
| #12-14 | 0.437 | 387 | 441 | 832 | 819 | 990 | 1222 | 1161 | - |
| Design Strength (LRFD) | | | | | | | | | |
| #8-18 | 0.437 | 581 | 662 | 760 | 1091 | 908 | - | - | - |
| #10-16 | 0.437 | 581 | 662 | 1240 | 1294 | 1267 | - | - | - |
| #12-14 | 0.437 | 581 | 662 | 1332 | 1311 | 1584 | 1873 | 1858 | - |

For SI: 1 inch = 25.4 mm, 1lbf = 4.4N, 1 ksi = 6.89 MPa.

¹For tension connections, the least of the screw pull-out, pullover, and tension strength found in Tables 2, 3 and 5 respectively must be used for design.²Strength values determined for steel with $F_u = 45$ ksi and 58 ksi are based on laboratory tests.³Strength values determined for steel with $F_u = 58$ ksi are based on calculations in accordance with Section J4.4.2 of AISI S100.⁴"—" Indicates that pull-over capacity for the given steel thickness was not tested or calculated..TABLE 4—SHEAR (BEARING) CAPACITIES FOR CONNECTION SCREWS (pounds-force)^{1,2,3,4}

| Screw Designation | Nominal Diameter (in.), d | Point Style | Steel in contact with Screw Head | | Thickness of member not in contact with Screw head (in), t_2 | | | | | | | | |
|--|---------------------------|-------------|----------------------------------|-----------------------|--|-----------|-----------|-----------|-----------|-----------|-----------|-------|--|
| | | | F_{u1} (ksi) | Thickness (in), t_1 | 0.036 | 0.048 | 0.060 | 0.075 | 0.105 | 0.125 | 0.187 | 0.250 | |
| Tensile strength of steel under screw head (ksi), F_{u2} | | | | 45 | 45 | 45 | 45 | 45 | 58 | 58 | 58 | | |
| HWH Allowable Strength (ASD) | | | | | | | | | | | | | |
| #8-18 | 0.164 | 2 | 45 | 0.036 | 194* | 239 | 239 | 239 | - | - | - | | |
| | | | 45 | 0.048 | 174 | 292* | 319 | - | - | - | - | | |
| | | | 45 | 0.060 | 174 | 268 | - | - | - | - | - | | |
| | | | 45 | 0.075 | 174 | - | - | - | - | - | - | | |
| | | | 45 | 0.105 | - | - | - | - | - | - | - | | |
| #10-16 | 0.190 | 3 | 45 | 0.036 | 205* | 277 | 277 | 277 | 277 | - | - | | |
| | | | 45 | 0.048 | 188 | 306* | 369 | 369 | 369 | 369 | - | - | |
| | | | 45 | 0.060 | 188 | 289 | 442* | 462 | 462 | - | - | - | |
| | | | 45 | 0.075 | 188 | 289 | 404 | 533* | - | - | - | - | |
| | | | 45 | 0.105 | 188 | 289 | 404 | - | - | - | - | - | |
| | | | 58 | 0.125 | 188 | 289 | - | - | - | - | - | - | |
| #12-14 | 0.216 | 3 | 45 | 0.036 | 205* | 309 | 315 | 315 | 315 | - | - | | |
| | | | 45 | 0.048 | 200 | 306* | 420 | 420 | 420 | - | - | - | |
| | | | 45 | 0.060 | 200 | 308 | 473* | 525 | 525 | - | - | - | |
| | | | 45 | 0.075 | 200 | 308 | 430 | 618* | 656 | 656 | - | - | |
| | | | 45 | 0.105 | 200 | 308 | 430 | 601 | 810* | - | - | - | |
| | | | 58 | 0.125 | 200 | 308 | 430 | 601 | - | - | - | - | |
| #1/4-14 | 0.250 | 3 | 45 | 0.036 | 215* | 339 | 365 | 365 | 365 | - | - | - | |
| | | | 45 | 0.048 | 215 | 332* | 467 | 486 | 486 | - | - | - | |
| | | | 45 | 0.060 | 215 | 331 | 510* | 608 | 608 | 608 | - | - | |
| | | | 45 | 0.075 | 215 | 331 | 463 | 628* | 759 | 759 | - | - | |
| | | | 45 | 0.105 | 215 | 331 | 463 | 647 | 848* | - | - | - | |
| | | | 58 | 0.125 | 215 | 331 | 463 | 647 | - | - | - | - | |

TABLE 4—SHEAR (BEARING) CAPACITIES FOR CONNECTION SCREWS (pounds-force)^{1,2,3,4} (Continued)

| Screw Designation | Nominal Diameter (in.), d | Point Style | Steel in contact with Screw Head | | Thickness of member not in contact with Screw head (in), t ₂ | | | | | | | | | | |
|---|---------------------------|-------------|----------------------------------|--------------------------------|---|-------|-------|-------|-------|-------|-------|-------|----|--|--|
| | | | F _{u1} (ksi) | Thickness (in), t ₁ | 0.036 | 0.048 | 0.060 | 0.075 | 0.105 | 0.125 | 0.187 | 0.250 | | | |
| Tensile strength of steel under screw head (ksi), F _{u2} | | | | | | 45 | 45 | 45 | 45 | 45 | 58 | 58 | 58 | | |
| HWH - Allowable Strength (ASD) | | | | | | | | | | | | | | | |
| #12-24 | 0.216 | 4 | 45 | 0.036 | 200 | 309 | 315 | 315 | 315 | 276* | 315 | 315 | | | |
| | | | 45 | 0.048 | 200 | 308 | 420 | 420 | 420 | 440* | 420 | - | | | |
| | | | 45 | 0.060 | 200 | 308 | 430 | 525 | 525 | 666* | 525 | - | | | |
| | | | 45 | 0.075 | 200 | 308 | 430 | 601 | 656 | 656 | 656 | - | | | |
| | | | 45 | 0.105 | 200 | 308 | 430 | 601 | 919 | 919 | - | - | | | |
| | | | 58 | 0.125 | 200 | 308 | 430 | 601 | 919 | 1409 | - | - | | | |
| | | | 58 | 0.187 | 200 | 308 | 430 | 601 | - | - | - | - | | | |
| | | | 58 | 0.250 | 200 | - | - | - | - | - | - | - | | | |
| #12-24 | 0.216 | 5 | 45 | 0.036 | 200 | 309 | 315 | 315 | 315 | 315 | 315 | 315 | | | |
| | | | 45 | 0.048 | 200 | 308 | 420 | 420 | 420 | 420 | 420 | 420 | | | |
| | | | 45 | 0.060 | 200 | 308 | 430 | 525 | 525 | 525 | 525 | 525 | | | |
| | | | 45 | 0.075 | 200 | 308 | 430 | 601 | 656 | 656 | 656 | 656 | | | |
| | | | 45 | 0.105 | 200 | 308 | 430 | 601 | 919 | 919 | 919 | 919 | | | |
| | | | 58 | 0.125 | 200 | 308 | 430 | 601 | 919 | 1409 | 1409 | 1409 | | | |
| | | | 58 | 0.187 | 200 | 308 | 430 | 601 | 919 | 1409 | 2108 | 2108 | | | |
| | | | 58 | 0.250 | 200 | 308 | 430 | 601 | 919 | 1409 | 2108 | 2819 | | | |
| #1/4-20 | 0.250 | 5 | 45 | 0.036 | 215 | 339 | 365 | 365 | 365 | 365 | 365 | 365 | | | |
| | | | 45 | 0.048 | 215 | 331 | 467 | 486 | 486 | 486 | 486 | 486 | | | |
| | | | 45 | 0.060 | 215 | 331 | 463 | 608 | 608 | 608 | 608 | 608 | | | |
| | | | 45 | 0.075 | 215 | 331 | 463 | 647 | 759 | 759 | 759 | 759 | | | |
| | | | 45 | 0.105 | 215 | 331 | 463 | 647 | 1063 | 1063 | 1063 | 1063 | | | |
| | | | 58 | 0.125 | 215 | 331 | 463 | 647 | 1063 | 1631 | 1631 | 1631 | | | |
| | | | 58 | 0.187 | 215 | 331 | 463 | 647 | 1063 | 1631 | 2440 | 2440 | | | |
| | | | 58 | 0.250 | 215 | 331 | 463 | 647 | 1063 | 1631 | 2440 | 3263 | | | |
| HWH - Design Strength (LRFD) | | | | | | | | | | | | | | | |
| #8-18 | 0.164 | 2 | 45 | 0.036 | 291* | 359 | 359 | 359 | - | - | - | - | | | |
| | | | 45 | 0.048 | 261 | 438* | 478 | - | - | - | - | - | | | |
| | | | 45 | 0.060 | 261 | 402 | - | - | - | - | - | - | | | |
| | | | 45 | 0.075 | 261 | - | - | - | - | - | - | - | | | |
| | | | 45 | 0.105 | - | - | - | - | - | - | - | - | | | |
| #10-16 | 0.190 | 3 | 45 | 0.036 | 308* | 416 | 416 | 416 | 416 | 416 | - | - | | | |
| | | | 45 | 0.048 | 281 | 459* | 554 | 554 | 554 | 554 | - | - | | | |
| | | | 45 | 0.060 | 281 | 433 | 707* | 693 | 693 | - | - | - | | | |
| | | | 45 | 0.075 | 281 | 433 | 605 | 853* | - | - | - | - | | | |
| | | | 45 | 0.105 | 281 | 433 | 605 | - | - | - | - | - | | | |
| | | | 58 | 0.125 | 281 | 433 | - | - | - | - | - | - | | | |

TABLE 4—SHEAR (BEARING) CAPACITIES FOR CONNECTION SCREWS (pounds-force)^{1,2,3,4} (Continued)

| Screw Designation | Nominal Diameter (in.), d | Point Style | Steel in contact with Screw Head | | Thickness of member not in contact with Screw head (in), t ₂ | | | | | | | | | |
|---|---------------------------|-------------|----------------------------------|--------------------------------|---|-------|-------|-------|-------|-------|-------|-------|--|--|
| | | | F _{u1} (ksi) | Thickness (in), t ₁ | 0.036 | 0.048 | 0.060 | 0.075 | 0.105 | 0.125 | 0.187 | 0.250 | | |
| Tensile strength of steel under screw head (ksi), F _{u2} | | | | | 45 | 45 | 45 | 45 | 45 | 58 | 58 | 58 | | |
| Design Strength (LRFD) | | | | | | | | | | | | | | |
| #12-14 | 0.216 | 3 | 45 | 0.036 | 308* | 464 | 472 | 472 | 472 | 472 | - | - | | |
| | | | 45 | 0.048 | 300 | 459* | 630 | 630 | 630 | 630 | - | - | | |
| | | | 45 | 0.060 | 300 | 462 | 757* | 787 | 787 | 787 | - | - | | |
| | | | 45 | 0.075 | 300 | 462 | 645 | 989* | 984 | 984 | - | - | | |
| | | | 45 | 0.105 | 300 | 462 | 645 | 902 | 1296* | - | - | - | | |
| | | | 58 | 0.125 | 300 | 462 | 645 | 902 | - | - | - | - | | |
| #1/4-14 | 0.250 | 3 | 45 | 0.036 | 323* | 508 | 547 | 547 | 547 | 547 | - | - | | |
| | | | 45 | 0.048 | 323 | 498* | 700 | 729 | 729 | 729 | - | - | | |
| | | | 45 | 0.060 | 323 | 497 | 817* | 911 | 911 | 911 | - | - | | |
| | | | 45 | 0.075 | 323 | 497 | 694 | 1004* | 1139 | 1139 | - | - | | |
| | | | 45 | 0.105 | 323 | 497 | 694 | 970 | 1357* | - | - | - | | |
| | | | 58 | 0.125 | 323 | 497 | 694 | 970 | - | - | - | - | | |
| #12-24 | 0.216 | 4 | 45 | 0.036 | 300 | 464 | 472 | 472 | 472 | 442* | 472 | 472 | | |
| | | | 45 | 0.048 | 300 | 462 | 630 | 630 | 630 | 705* | 630 | - | | |
| | | | 45 | 0.060 | 300 | 462 | 645 | 787 | 787 | 1066* | 787 | - | | |
| | | | 45 | 0.075 | 300 | 462 | 645 | 902 | 984 | 984 | 984 | - | | |
| | | | 45 | 0.105 | 300 | 462 | 645 | 902 | 1378 | 1378 | - | - | | |
| | | | 58 | 0.125 | 300 | 462 | 645 | 902 | 1378 | 2114 | - | - | | |
| | | | 58 | 0.187 | 300 | 462 | 645 | 902 | - | - | - | - | | |
| | | | 58 | 0.250 | 300 | - | - | - | - | - | - | - | | |
| #12-24 | 0.216 | 5 | 45 | 0.036 | 300 | 464 | 472 | 472 | 472 | 472 | 472 | 472 | | |
| | | | 45 | 0.048 | 300 | 462 | 630 | 630 | 630 | 630 | 630 | 630 | | |
| | | | 45 | 0.060 | 300 | 462 | 645 | 787 | 787 | 787 | 787 | 787 | | |
| | | | 45 | 0.075 | 300 | 462 | 645 | 902 | 984 | 984 | 984 | 984 | | |
| | | | 45 | 0.105 | 300 | 462 | 645 | 902 | 1378 | 1378 | 1378 | 1378 | | |
| | | | 58 | 0.125 | 300 | 462 | 645 | 902 | 1378 | 2114 | 2114 | 2114 | | |
| | | | 58 | 0.187 | 300 | 462 | 645 | 902 | 1378 | 2114 | 3163 | 3163 | | |
| | | | 58 | 0.250 | 300 | 462 | 645 | 902 | 1378 | 2114 | 3163 | 4228 | | |
| #1/4-20 | 0.250 | 5 | 45 | 0.036 | 323 | 508 | 547 | 547 | 547 | 547 | 547 | 547 | | |
| | | | 45 | 0.048 | 323 | 497 | 700 | 729 | 729 | 729 | 729 | 729 | | |
| | | | 45 | 0.060 | 323 | 497 | 694 | 911 | 911 | 911 | 911 | 911 | | |
| | | | 45 | 0.075 | 323 | 497 | 694 | 970 | 1139 | 1139 | 1139 | 1139 | | |
| | | | 45 | 0.105 | 323 | 497 | 694 | 970 | 1595 | 1595 | 1595 | 1595 | | |
| | | | 58 | 0.125 | 323 | 497 | 694 | 970 | 1595 | 2447 | 2447 | 2447 | | |
| | | | 58 | 0.187 | 323 | 497 | 694 | 970 | 1595 | 2447 | 3661 | 3661 | | |
| | | | 58 | 0.250 | 323 | 497 | 694 | 970 | 1595 | 2447 | 3661 | 4894 | | |

TABLE 4—SHEAR (BEARING) CAPACITIES FOR CONNECTION SCREWS (pounds-force)^{1,2,3,4} (Continued)

| Screw Designation | Nominal Diameter (in.), d | Point Style | Steel in contact with Screw Head | | Thickness of member not in contact with Screw head (in), t ₂ | | | | | | | |
|---------------------------------|---------------------------|-------------|----------------------------------|--------------------------------|---|-------|-------|-------|-------|-------|-------|-------|
| | | | F _{u1} (ksi) | Thickness (in), t ₁ | 0.036 | 0.048 | 0.060 | 0.075 | 0.105 | 0.125 | 0.187 | 0.250 |
| | | | | | Tensile strength of steel under screw head (ksi), F _{u2} | | 45 | 45 | 45 | 45 | 58 | 58 |
| PMTH - Allowable Strength (ASD) | | | | | | | | | | | | |
| #8-18 | 0.164 | 2 | 45 | 0.036 | 194* | 239 | 239 | 239 | - | - | - | |
| | | | 45 | 0.048 | 174 | 292* | 319 | - | - | - | - | |
| | | | 45 | 0.060 | 174 | 268 | - | - | - | - | - | |
| | | | 45 | 0.075 | 174 | - | - | - | - | - | - | |
| | | | 45 | 0.105 | - | - | - | - | - | - | - | |
| #10-16 | 0.190 | 3 | 45 | 0.036 | 205* | 277 | 277 | 277 | 277 | - | - | |
| | | | 45 | 0.048 | 188 | 306* | 369 | 369 | 369 | 369 | - | |
| | | | 45 | 0.060 | 188 | 289 | 442* | 462 | 462 | - | - | |
| | | | 45 | 0.075 | 188 | 289 | 404 | 533* | - | - | - | |
| | | | 45 | 0.105 | 188 | 289 | 404 | - | - | - | - | |
| | | | 58 | 0.125 | 188 | 289 | - | - | - | - | - | |
| #12-14 | 0.216 | 3 | 45 | 0.036 | 205* | 309 | 315 | 315 | 315 | 315 | - | |
| | | | 45 | 0.048 | 200 | 306* | 420 | 420 | 420 | 420 | - | |
| | | | 45 | 0.060 | 200 | 308 | 473* | 525 | 525 | 525 | - | |
| | | | 45 | 0.075 | 200 | 308 | 430 | 618* | 656 | 656 | - | |
| | | | 45 | 0.105 | 200 | 308 | 430 | 601 | 810* | - | - | |
| | | | 58 | 0.125 | 200 | 308 | 430 | 601 | - | - | - | |
| PMTH - Design Strength (LRFD) | | | | | | | | | | | | |
| #8-18 | 0.164 | 2 | 45 | 0.036 | 291* | 359 | 359 | 359 | - | - | - | |
| | | | 45 | 0.048 | 261 | 438* | 478 | - | - | - | - | |
| | | | 45 | 0.060 | 261 | 402 | - | - | - | - | - | |
| | | | 45 | 0.075 | 261 | - | - | - | - | - | - | |
| | | | 45 | 0.105 | - | - | - | - | - | - | - | |
| #10-16 | 0.190 | 3 | 45 | 0.036 | 308* | 416 | 416 | 416 | 416 | - | - | |
| | | | 45 | 0.048 | 281 | 459* | 554 | 554 | 554 | 554 | - | |
| | | | 45 | 0.060 | 281 | 433 | 707* | 693 | 693 | - | - | |
| | | | 45 | 0.075 | 281 | 433 | 605 | 853* | - | - | - | |
| | | | 45 | 0.105 | 281 | 433 | 605 | - | - | - | - | |
| | | | 58 | 0.125 | 281 | 433 | - | - | - | - | - | |
| #12-14 | 0.216 | 3 | 45 | 0.036 | 308* | 464 | 472 | 472 | 472 | - | - | |
| | | | 45 | 0.048 | 300 | 459* | 630 | 630 | 630 | 630 | - | |
| | | | 45 | 0.060 | 300 | 462 | 757* | 787 | 787 | - | - | |
| | | | 45 | 0.075 | 300 | 462 | 645 | 989* | 984 | 984 | - | |
| | | | 45 | 0.105 | 300 | 462 | 645 | 902 | 1296* | - | - | |
| | | | 58 | 0.125 | 300 | 462 | 645 | 902 | - | - | - | |

For SI: 1 inch = 25.4 mm, 1lbf = 4.4 N, 1 ksi = 6.89 Mpa.

¹For shear connections, the lesser of the screw shear (bearing) capacity and shear strength found in Tables 4 and 5, respectively, must be used for design.²Unless otherwise noted, strength values are based on calculations in accordance with Section J.4.3.1 of AISI S100.³— Indicates that shear (bearing) capacity for the given steel thickness was not calculated.⁴ "Shading with asterisk" represents strength values based on laboratory tests.

TABLE 5—SCREW STRENGTH (pounds-force)^{1,2,3}

| SCREW DESIGNATION | NOMINAL SCREW DIAMETER (in.) | NOMINAL SCREW STRENGTH | | ALLOWABLE SCREW STRENGTH (ASD) | | DESIGN SCREW STRENGTH (LRFD) | |
|----------------------|---------------------------------------|---------------------------|-----------------|-----------------------------------|------------------------|---------------------------------|----------------------|
| | | Tension, P_{ts} | Shear, P_{ss} | Tension, P_{ts}/Ω | Shear, P_{ss}/Ω | Tension, ϕP_{ts} | Shear, ϕP_{ss} |
| HWH | | | | | | | |
| #8-18 | 0.164 | 2001 | 1309 | 667 | 460 | 1000 | 737 |
| #10-16 | 0.190 | 2616 | 1605 | 967 | 535 | 1547 | 803 |
| #12-14 | 0.216 | 3938 | 1979 | 1313 | 659 | 1969 | 989 |
| #12-24 | 0.216 | 4249 | 2284 | 1416 | 761 | 2124 | 1142 |
| 1/4"-14 | 0.250 | 5632 | 3221 | 2081 | 1191 | 3330 | 1905 |
| 1/4"-20 | 0.250 | 5922 | 3338 | 1974 | 1112 | 2961 | 1669 |
| PMTH | | | | | | | |
| #8-18 | 0.164 | 2268 | 1014 | 756 | 363 | 1134 | 581 |
| #10-16 | 0.190 | 2616 | 1605 | 967 | 535 | 1547 | 803 |
| #12-14 | 0.216 | 3938 | 1979 | 1313 | 659 | 1969 | 989 |

For SI: 1 inch = 25.4 mm, 1 lbf = 4.4 N.

¹For tension connections, the least of the screw pull-out, pullover, and tension strength found in [Tables 2, 3](#) and [5](#), respectively must be used for design.

²For shear connections, the lesser of the screw shear (bearing) capacity and the shear strength found in [Tables 4](#) and [5](#), respectively must be used for design.

³Strength values are based on laboratory tests.

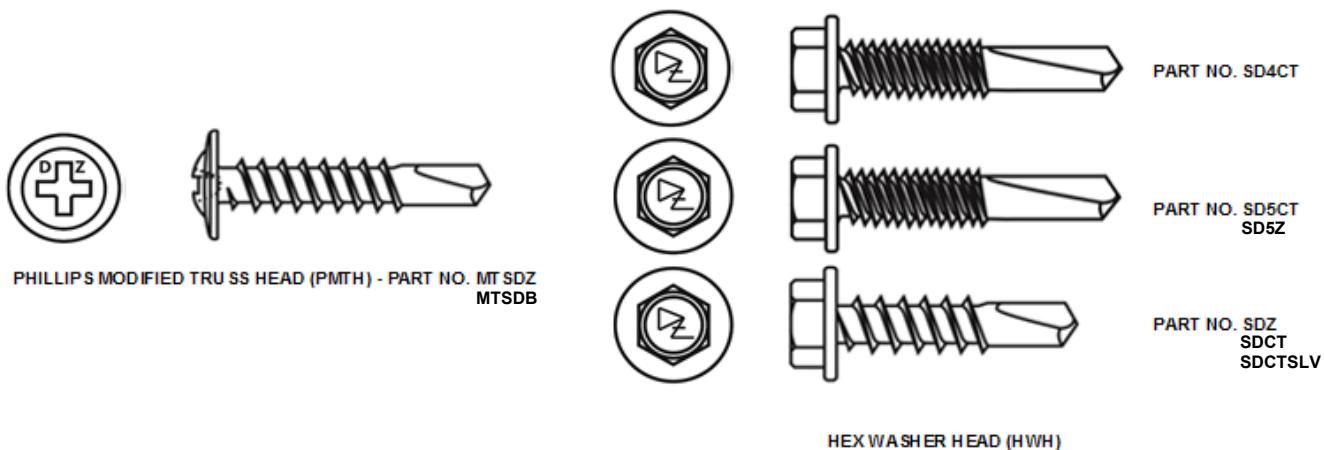


FIGURE 1—DAGGERZ™ SELF DRILLING FASTENERS

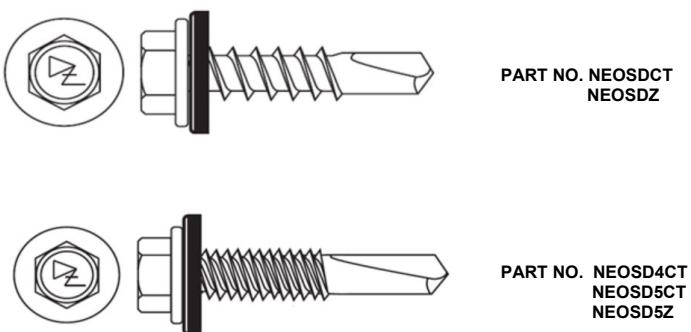


FIGURE 2—DAGGERZ™ SELF DRILLING FASTENERS WITH BONDED WASHERS

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DIVISION: 05 00 00—METALS

Section: 05 05 23—Metal Fastenings

REPORT HOLDER:

INTERNATIONAL FASTENERS, INC.

EVALUATION SUBJECT:

DAGGERZ™ BRAND CONSTRUCTION FASTENERS

1.0 REPORT PURPOSE AND SCOPE**Purpose:**

The purpose of this evaluation report supplement is to indicate that DAGGERZ™ Brand Construction Fasteners, described in ICC-ES evaluation report [ESR-4229](#), 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:

- 2023 City of Los Angeles Building Code ([LABC](#))
- 2023 City of Los Angeles Residential Code ([LARC](#))

2.0 CONCLUSIONS

The DAGGERZ™ Brand Construction Fasteners, described in Sections 2.0 through 7.0 of the evaluation report [ESR-4229](#), comply with the LABC Chapter 22, and the LARC, and are subject to the conditions of use described in this supplement.

3.0 CONDITIONS OF USE

The Daggerz™ screws described in this evaluation report supplement must comply with all of the following conditions:

- All applicable sections in the evaluation report [ESR-4229](#).
- The design, installation, conditions of use and identification of the Daggerz™ screws are in accordance with the 2021 *International Building Code®* (IBC) and the 2021 *International Residential Code®* (IRC) provisions noted in the evaluation report [ESR-4229](#).
- The design, installation and inspection are in accordance with additional requirements of LABC Chapters 16 and 17, as applicable.

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

DIVISION: 05 00 00—METALS**Section: 05 05 23—Metal Fastenings****REPORT HOLDER:****INTERNATIONAL FASTENERS, INC.****EVALUATION SUBJECT:****DAGGERZ™ BRAND CONSTRUCTION FASTENERS****1.0 REPORT PURPOSE AND SCOPE****Purpose:**

The purpose of this evaluation report supplement is to indicate that DAGGERZ™ Brand Construction Fasteners, described in ICC-ES evaluation report ESR-4229, have also been evaluated for compliance with the code(s) 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 Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

- 2022 California Residential Code (CRC)

2.0 CONCLUSIONS**2.1 CBC:**

The DAGGERZ™ Brand Construction Fasteners, described in Sections 2.0 through 7.0 of the evaluation report ESR-4229, comply with CBC Chapter 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 and 17, as applicable.

2.1.1 OSHPD:

The DAGGERZ™ Brand Construction Fasteners, described in Sections 2.0 through 7.0 of the evaluation report ESR-4229, comply with CBC Chapters 16, 16A, 17, 17A, 22 and 22A, 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 Chapter 16 and amendments [OSHPD 1R, 2, 3 and 5], Chapter 16A [OSHPD 1 and 4], amended Chapter 17 [OSHPD 1R, 2 and 5] and Chapter 17A [OSHPD 1 and 4], as applicable.

2.1.2 DSA:

The DAGGERZ™ Brand Construction Fasteners, described in Sections 2.0 through 7.0 of the evaluation report ESR-4229, comply with CBC Chapters 16, 16A, 17A, 22 and 22A, 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 amended Chapter 16 [DSA-SS/CC], Chapter 16A [DSA/SS] and Chapter 17A [DSA-SS and DSA-SS/CC].

2.2 CRC:

The DAGGERZ™ Brand Construction Fasteners, described in Sections 2.0 through 7.0 of the evaluation report ESR-4229, 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 February 2024 and revised November 2024.

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DIVISION: 05 00 00—METALS**Section: 05 05 23—Metal Fastenings****REPORT HOLDER:****INTERNATIONAL FASTENERS, INC.****EVALUATION SUBJECT:****DAGGERZ™ BRAND CONSTRUCTION FASTENERS****1.0 REPORT PURPOSE AND SCOPE****Purpose:**

The purpose of this evaluation report supplement is to indicate that DAGGERZ™ Brand Construction Fasteners, described in ICC-ES evaluation report ESR-4229, 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 DAGGERZ™ Brand Construction Fasteners, described in Sections 2.0 through 7.0 of ICC-ES evaluation report ESR-4229, complies with the *Florida Building Code—Building* and the *Florida Building Code—Residential*. The design requirements must be 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-4229 for the 2021 *International Building Code®* meet the requirements of the *Florida Building Code—Building* and the *Florida Building Code—Residential*, as applicable.

Use of the DAGGERZ™ Brand Construction Fasteners has also been found to be in compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building* or the *Florida Building Code—Residential*.

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 February 2024 and revised November 2024.