

ICC-ES Evaluation Report

ESR-2515

Reissued February 2026

Subject to renewal February 2028

This report also contains:

- [City of Chicago Supplement](#)
- [City of LA Supplement](#)
- [CA Supplement](#)
- [FL Supplement](#)
- [OR Supplement](#)

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DIVISION: 03 00 00— CONCRETE Section: 03 38 00—Post- Tensioned Concrete	REPORT HOLDER: GENERAL TECHNOLOGIES, INC.	EVALUATION SUBJECT: GTI ZERO VOID® POST- TENSIONING SYSTEM	
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1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2024, 2021, 2018, 2015, 2012 and 2009 [International Building Code® \(IBC\)](#)
- 2024, 2021, 2018, 2015, 2012 and 2009 [International Residential Code® \(IRC\)](#)

Property evaluated:

Structural

2.0 USES

2.1 General Uses:

The GTI Zero Void® Post-Tensioning System is used as anchorages at fixed-end, intermediate, and stressing-end locations, and as couplers for unbonded, monostrand (single-strand), post-tensioning tendons in prestressed concrete designed in accordance with Chapter 25 of ACI 318 (Chapter 18 of ACI 318-11 or -08 for the 2012 and 2009 IBC, respectively), under the provisions of IBC Section 1901.2. The components of these systems may be used in structures assigned to Seismic Design Categories A through F. For structures regulated under the IRC, the general use of the GTI Zero Void® Post-Tensioning System must be addressed in an engineered design in accordance with IRC Section R301.1.3.

2.2 Slab-on-ground Foundations on Expansive Soils:

The GTI Zero Void® Post-Tensioning System is also used as anchorages at fixed-end, intermediate, and stressing-end locations, and as couplers for unbonded, monostrand (single-strand), post-tensioning tendons in prestressed concrete slab-on-ground foundations on expansive soils regulated under IBC Section 1808.6.2; and IBC Sections 1904 and 1907 (2009 IBC Sections 1904 and 1910). For structures regulated under the IRC, the use of the GTI Zero Void® Post-Tensioning System for slab-on-ground foundations on expansive soils must be addressed in an engineered design in accordance with IRC Section R301.1.3.

3.0 DESCRIPTION

3.1 General:

The GTI Zero Void® Post-Tensioning System consists of ductile iron anchor castings, steel barrel anchors, steel couplers and steel wedges, as described in Section 3.2. The GTI S1-05 and SC1-05 Zero Void® Post-Tensioning System components are used with 0.5-inch-diameter (12.7 mm) steel strand and the GTI S1-06 Zero Void® Post-Tensioning System components are used with 0.6-inch-diameter (15.2 mm) steel strand. The

strands are seven-wire, low relaxation, steel strand conforming to ASTM A416, Grade 270. The GTI Zero Void[®] Post-Tensioning System anchorage and coupler assemblies comply with ACI 423.7-14, which is required by ACI 318 Sections 25.8.1, 25.8.3 and 25.9.3.1(a) (ACI 318-11 or -08 Sections 18.21.1 and 18.14.1 for the 2012 and 2009 IBC).

Under the 2024 and 2021 IBC and IRC, the GTI Zero Void[®] Post-Tensioning System anchorage and coupler assemblies comply with Sections 2.2.1, 2.2.1.1 and 2.2.1.2 of PTI M10.6-15, as required by Section 10.2.1.1 of PTI DC10.5-2019, which is referenced in IBC Section 1808.6.2.

Under the 2018 and 2015 IBC and IRC, the GTI Zero Void[®] Post-Tensioning System anchorage and coupler assemblies comply with Sections 2.2.1, 2.2.1.1 and 2.2.1.2 of PTI M10.2-00 (PTI Specifications for Unbonded Single Strand Tendons) as required by Section 4.2.2.1.1 of PTI DC 10.5-2012, which is referenced in IBC Section 1808.6.2.

Under the 2012 and 2009 IBC and IRC, the GTI Zero Void[®] Post-Tensioning System anchorage and coupler assemblies comply with Sections 2.2.1, 2.2.1.1 and 2.2.1.2 of PTI M10.2-00 (PTI Specifications for Unbonded Single Strand Tendons), as required by Section 5.3.1 of PTI Standard Requirements for Design and Analysis of Shallow Post-Tensioned Concrete Foundations on Expansive Soils, which is referenced in IBC Section 1808.6.2. Refer to [Figure 1](#) for illustrations of the anchor and coupler assembly components.

3.2 GTI Zero Void[®] Post-Tensioning System Components:

3.1.1 GTI S1-05ZV Anchor Casting: The GTI S1-05ZV Anchor Casting is a ductile iron casting complying with ASTM A536, Grade 80-55-06. Acceptable Brinell Hardness Number (BHN) range is 187 to 255. The anchors are used with either of the wedges described in Section 3.2.9.

3.1.2 GTI Sure-Lock[®] Anchor Casting: The Sure-Lock[®] Anchor Casting is a ductile iron casting complying with ASTM A536, Grade 80-55-06. Acceptable BHN range is 187 to 255. The anchors are used with either of the wedges described in Section 3.2.9.

3.1.3 GTI SM1-05ZV Anchor Casting: The GTI SM1-05ZV Anchor Casting is a ductile iron casting complying with ASTM A536, Grade 80-55-06. Acceptable BHN range is 187 to 255. The anchors are used with the GTI S1-05 1.2 inch wedges described in Section 3.2.9.

3.1.4 GTI SC1-05ZV Anchor Casting: The GTI SC1-05ZV Anchor Casting is a ductile iron casting complying with ASTM A536, Grade 80-55-06. Acceptable BHN range is 187 to 255. The anchors are used with the wedges described in Section 3.2.10.

3.1.5 GTI SFC1-05ZV Anchor Casting: The GTI SFC1-05ZV Anchor Casting is a ductile iron casting complying with ASTM A536, Grade 80-55-06. Acceptable BHN range is 187 to 255. The anchors are used with the wedges described in Section 3.2.10.

3.1.6 GTI SF1-05ZV Anchor Casting: The GTI SF1-05ZV Anchor Casting is a ductile iron casting complying with ASTM A536, Grade 80-55-06. Acceptable BHN range is 187 to 255. The anchors are used with the 1.2 inch wedges described in Section 3.2.9.

3.1.7 GTI S1-05ZV Barrel Anchor: The GTI S1-05ZV Barrel Anchor is machined from steel bar conforming to the Euro-Asian Council for Standardization Metrology and Certification (ESAC) Standard GOST 1050-74, Grade C55 or National Standard of P.R.C. GB/T 3077-1999, Brand 40Cr. The anchors are used with either of the wedges described in Section 3.2.9.

3.1.8 GTI S1-05ZV Intermediate Coupler: The GTI S1-05ZV Intermediate Coupler is comprised of a housing, a threaded barrel anchor and a smooth barrel anchor. The threaded barrel anchor and smooth barrel anchor are machined from steel bar conforming to GOST 1050-74, Grade C55 or GB/T 3077-1999, Brand 40Cr and the housing is machined from steel bar conforming to GOST 1050-74, Grade C60 or GB/T 3077-1999, Brand 40Cr. The couplers are used with either of the wedges described in Section 3.2.9.

3.1.9 GTI S1-05 Wedges: GTI S1-05 1.2 inch and 1.3 inch wedges are two-piece wedges which are 1.2 and 1.3 inches (31 and 33 mm) long, respectively, and are manufactured from steel conforming to ASTM A108 Grade 12L14 or GB/T 3077-1999, Brand 20CrMnTi. The wedges are heat treated according to the specification, and have case and core hardness as specified in the GTI quality documentation.

3.1.10 GTI SC1-05 Wedges: GTI SC1-05 wedges are two-piece wedges which are 1.1 inches (27.9 mm) long and are manufactured from steel conforming to GB/T 3077-1999, Brand 20CrMnTi. The wedges are heat treated according to the specification, and have case and core hardness as specified in the GTI quality documentation.

3.1.11 GTI S1-05 One-Time Use (OTU) Splice Chuck: The GTI S1-05 One-Time Use (OTU) Splice Chuck is comprised of a housing, two threaded barrels (one on each end), and two three-piece wedges (one on each end). Supplied with the splice chuck are two springs (one on each end) with a plastic transfer head, and an iron washer to facilitate the assembly of the splice chuck with the tendons. The housing and barrel anchors are machined from steel bar conforming to GB/T 3077-1999, Brand 40Cr; the wedges are manufactured from steel conforming to GB/T 3077-1999, Brand 20CrMnTi.

3.1.12 GTI SURE-LOCK[®] (OTU) Splice Chuck Coupler: The coupler is comprised of a 2-inch-diameter (51 mm) threaded connecting tube of ASTM A513/5 520 DOM steel tubing (Grade 1026) and threaded end chucks (caps) of ASTM A108, C1045 steel. The SURE-LOCK[®] coupler is nominally 5½ inches (140 mm) long and uses the 1.3 wedges described in Section 3.2.9. The couplers also contain a plastic spacer, springs, and rings as temporary positioning aids.

3.1.13 GTI S1-06ZV Anchor Casting: The GTI S1-06ZV Anchor Casting is a ductile iron casting complying with ASTM A536, Grade 80-55-06. Acceptable BHN range is 187 to 255. The anchors are used with the wedges described in Section 3.2.16.

3.1.14 GTI S1-06ZV Barrel Anchor: The GTI S1-06ZV Barrel Anchor is machined from steel bar conforming to the National Standard of P.R.C. GB/T 3077-1999, Brand 40Cr. The anchors are used with the wedges described in Section 3.2.16.

3.1.15 GTI S1-06ZV Intermediate Coupler: The GTI S1-06ZV Intermediate Coupler is comprised of a housing, a threaded barrel anchor and a smooth barrel anchor. The threaded barrel anchor and the smooth barrel anchor and the housing are machined from steel bar conforming to GB/T 3077-1999, Brand 40Cr. The couplers are used with the wedges described in Section 3.2.16.

3.1.16 GTI S1-06 Wedges: The GTI S1-06 wedges are two-piece wedges which are 1.6 inches (40.6 mm) long, and are manufactured from steel conforming to ASTM A108 Grade 12L14 or GB/T 3077-1999, Brand 20CrMnTi. The wedges are heat treated according to the specification, and have case and core hardness as specified in the GTI quality documentation.

3.1.17 GTI S1-06 One-Time Use (OTU) Splice Chuck: The GTI S1-06 One-Time Use (OTU) Splice Chuck is comprised of a housing, two threaded barrels (one on each end), and two three-piece wedges (one on each end). Supplied with the splice chuck are two springs (one on each end) with a plastic transfer head, and an iron washer to facilitate the assembly of the splice chuck with the tendons. The housing and barrel anchors are machined from steel bar conforming to GB/T 3077-1999, Brand 40Cr; the wedges are manufactured from steel conforming to GB/T 3077-1999, Brand 20CrMnTi.

4.0 DESIGN AND INSTALLATION

4.1 Design:

4.1.1 General Uses: Concrete prestressed with the GTI Zero Void[®] Post-Tensioning System anchorage and coupler assemblies must be designed in accordance with Chapter 25 of ACI 318 (Chapter 18 of ACI 318-11 or -08 for the 2012 and 2009 IBC), with the anchorage zones designed in accordance with ACI 318 Sections 25.8.1, 25.8.3 and 25.9.3.1(a) (Sections 18.13 and 18.14 of ACI 318-11 or -08 for the 2012 and 2009 IBC).

4.1.2 Slab-on-ground Foundations on Expansive Soils: The moments, shears and deflections used in the design must be based on PTI DC10.5 (PTI Standard Requirements for Design and Analysis of Shallow Concrete Foundations or Expansive Soils for the 2012 and 2009 IBC), referenced in IBC Section 1808.6.2. The foundation must comply with IBC Sections 1904 and 1907 (Sections 1904 and 1910 in the 2009 IBC), and be designed in accordance with PTI DC10.5 (PTI Standard Requirements for Design and Analysis of Shallow Post-Tensioned Concrete Foundations or Expansive Soils for the 2012 and 2009 IBC). In addition, the prestressed concrete must be designed in accordance with the applicable provisions of Chapter 25 of ACI 318 (Chapter 18 of ACI 318-11 or -08 for the 2012 and 2009 IBC), with the anchorage zones designed in accordance with ACI 318 Sections 25.8.1, 25.8.3 and 25.9.3.1(a) (Sections 18.13 and 18.14 of ACI 318-11 or -08 for the 2012 and 2009 IBC).

4.2 Installation:

The GTI Zero Void[®] Post-Tensioning System components must be installed in accordance with the manufacturer's published installation instructions and the approved plans. The manufacturer's published installation instructions and the approved plans must be available at the jobsite at all times during installation. The GTI Zero Void[®] Post-Tensioning System components must only be used in combination with other components described in this report and seven-wire, low-relaxation steel strand complying with ASTM A416, Grade 270.

4.3 Special Inspection:

Special inspection must be provided for the installation and stressing of the tendons, in accordance with IBC Section 1705.3 (Section 1704.4 of the 2009 IBC). The special inspector's duties include verification of concrete compressive strength at the time the tendons are stressed; compliance with the design engineer's requirements, including prestressing instructions; and checking elongation and jacking force parameters, and the sequence of tendon stressing, as well as end and edge distance and tendon spacing dimensions.

5.0 CONDITIONS OF USE:

The GTI Zero Void[®] Post-Tensioning System described in this report complies with, or is a suitable alternative to what is specified in, the code noted in Section 1.0 of this report, subject to the following conditions:

- 5.1 The materials, fabrication and installation must comply with this report and the manufacturer's instructions. In the event of a conflict between this report and the manufacturer's instructions, this report governs.
- 5.2 Where fire-resistance-rated construction is required, the minimum concrete cover on the tendons, anchor castings, wedges, and couplers must comply with IBC Table 721.1(1), Item 4-1.1 or 4-1.2 [Table 720.1(1), Item 4-1.1 or 4-1.2 of the 2009 IBC].
- 5.3 The design and installation of the anchor castings, wedges, and couplers and the prestressed concrete must be in accordance with Section 4.0 of this report.
- 5.4 Encapsulation of tendons has not been evaluated and is outside the scope of the evaluation report. Reports of tests of the encapsulated tendons must be provided when required by the authority having jurisdiction.
- 5.5 Special inspection must be provided in accordance with Section 4.3 of this report.
- 5.6 The components of the GTI Zero Void[®] Post-Tensioning System 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 Post-tensioning Anchorages and Couplers of Prestressed Concrete \(AC303\)](#), dated April 2011 (editorially revised May 2024).

7.0 IDENTIFICATION

- 7.1 The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-2515) along with the name, registered trademark, or registered logo of the report holder must be included in the product label.
- 7.2 In addition, packages of the anchor castings, machined anchors, couplers and wedges are labeled with the part designation and tracing codes.
- 7.3 The anchor castings are identified by embossments with the product name designation and date lot codes.
- 7.4 The report holder's contact information is the following:

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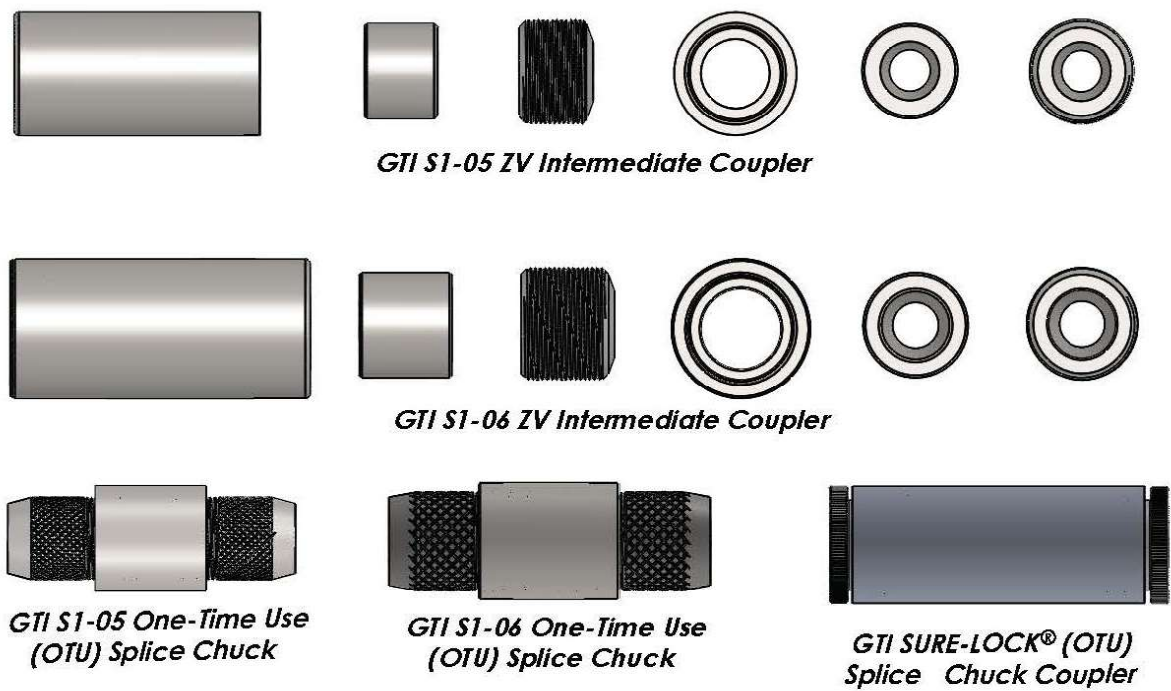
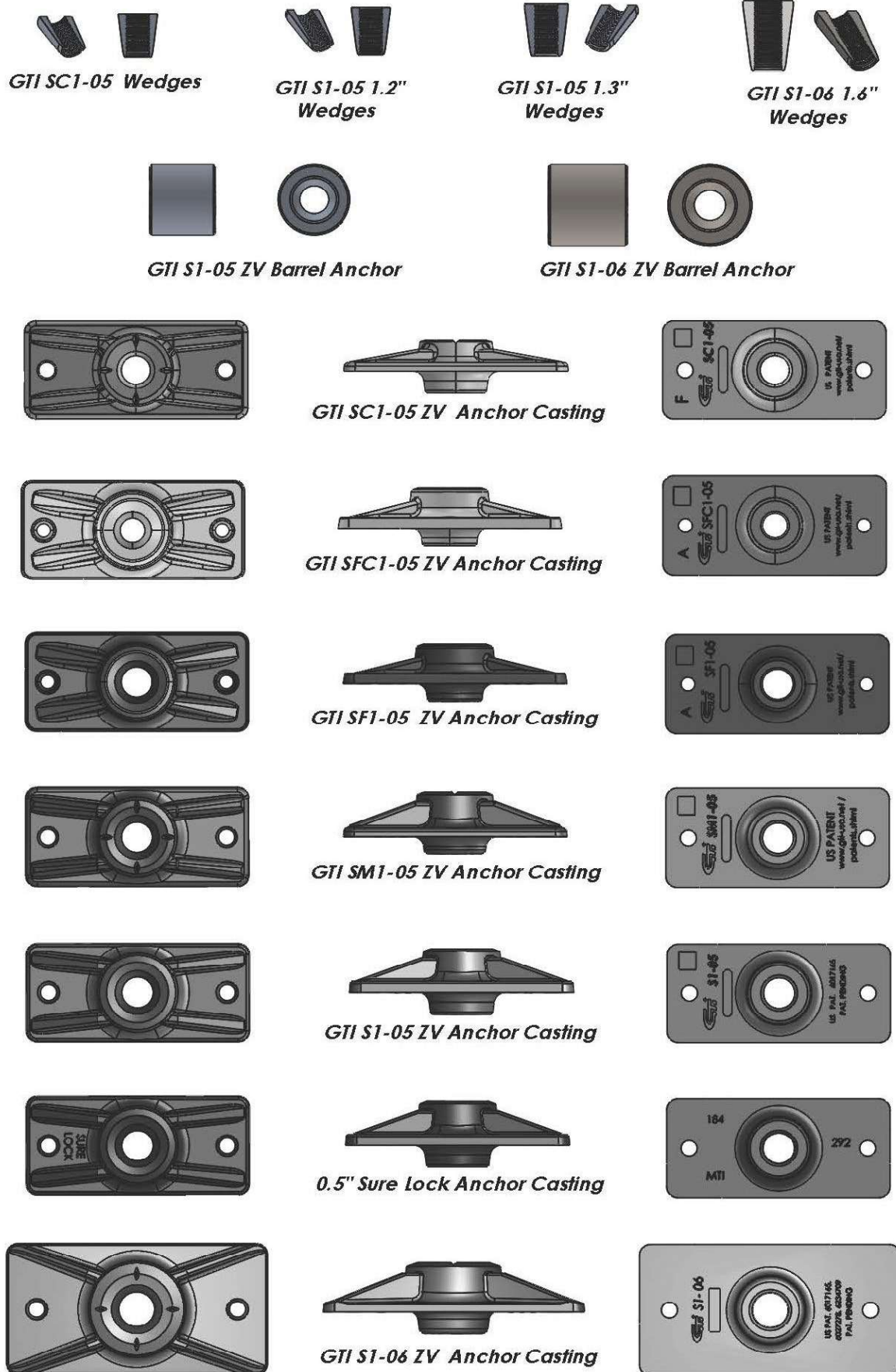


FIGURE 1—GTI ZERO VOID[®] POST-TENSIONING SYSTEM COMPONENTS

FIGURE 1—GTI ZERO VOID[®] POST-TENSIONING SYSTEM COMPONENTS (CONTINUED)

ICC-ES Evaluation Report

ESR-2515 Chicago Title 14 Supplement

Issued February 2026

This report is subject to renewal February 2028.

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DIVISION: 03 00 00—CONCRETE

Section: 03 38 00—Post-Tensioned Concrete

REPORT HOLDER:

GENERAL TECHNOLOGIES, INC.

EVALUATION SUBJECT:

GTI ZERO VOID® POST-TENSIONING SYSTEM

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the GTI Zero Void® Post-Tensioning System, described in ICC-ES evaluation report [ESR-2515](#), has also been evaluated for compliance with the Chicago Construction Codes (Title 14 of the Chicago Municipal Code) as noted below.

Applicable code editions:

- 2019 *Chicago Building Code* (Title 14B)

2.0 CONCLUSIONS

The GTI Zero Void® Post-Tensioning System, described in Sections 2.0 through 7.0 of the evaluation report [ESR-2515](#), complies with Title 14B, and is subject to the conditions of use described in this supplement.

3.0 CONDITIONS OF USE

The GTI Zero Void® Post-Tensioning System described in this evaluation report supplement must comply with all of the following conditions:

- Use for slab-on-ground foundations on expansive soils is outside the scope of this supplement, since Section 1808 of Title 14B does not reference PTI DC 10.5.
- All applicable sections in the evaluation report [ESR-2515](#).
- The design, installation, conditions of use and identification of the GTI Zero Void® Post-Tensioning System are in accordance with the 2018 *International Building Code*® (IBC) provisions noted in the evaluation report [ESR-2515](#).
- The design, installation and inspection are in accordance with additional requirements of Chapters 7, 16 and 17 of Title 14B, as applicable.

This supplement expires concurrently with the evaluation report, reissued February 2026.

DIVISION: 03 00 00—CONCRETE

Section: 03 38 00—Post-Tensioned Concrete

REPORT HOLDER:

GENERAL TECHNOLOGIES, INC.

EVALUATION SUBJECT:

GTI ZERO VOID® POST-TENSIONING SYSTEM

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the GTI Zero Void® Post-Tensioning System, described in ICC-ES evaluation report [ESR-2515](#), has 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 GTI Zero Void® Post-Tensioning System, described in Sections 2.0 through 7.0 of the evaluation report [ESR-2515](#), complies with LABC Chapters 18 and 19, and the LARC, and is subject to the conditions of use described in this supplement.

3.0 CONDITIONS OF USE

The GTI Zero Void® Post-Tensioning System described in this evaluation report supplement must comply with all of the following conditions:

- All applicable sections in the evaluation report [ESR-2515](#).
- The design, installation, conditions of use and identification of the GTI Zero Void® Post-Tensioning System components are in accordance with the 2021 *International Building Code*® (IBC) and 2021 *International Residential Code*® (IRC) provisions, as applicable, noted in the evaluation report [ESR-2515](#).
- The design, installation and inspection are in accordance with additional requirements of LABC Chapters 7, 16 and 17, as applicable.
- Under the LARC, an engineered design in accordance with LARC Section R301.1.3 must be submitted.

This supplement expires concurrently with the evaluation report, reissued February 2026.

DIVISION: 03 00 00—CONCRETE

Section: 03 38 00—Post-Tensioned Concrete

REPORT HOLDER:

GENERAL TECHNOLOGIES, INC.

EVALUATION SUBJECT:

GTI ZERO VOID® POST-TENSIONING SYSTEM

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the GTI Zero Void® Post-Tensioning System, described in ICC-ES evaluation report [ESR-2515](#), has also been evaluated for compliance with the code(s) noted below.

Applicable code edition:

- 2025 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 Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

- 2025 California Residential Code (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The GTI Zero Void® Post-Tensioning System, described in Sections 2.0 through 7.0 of the evaluation report [ESR-2515](#), complies with CBC Chapters 18 and 19, provided the design and installation are in accordance with the 2024 *International Building Code*® (IBC) provisions noted in the evaluation report and the additional requirements of CBC Chapters 7, 16 and 17, as applicable.

2.1.1 OSHPD:

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

2.1.2 DSA:

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

2.2 CRC:

The GTI Zero Void® Post-Tensioning System, described in Sections 2.0 through 7.0 of the evaluation report [ESR-2515](#), comply with the CRC, provided the design and installation are in accordance with the 2024 *International Residential Code*® (IRC) provisions noted in the evaluation report.

This supplement expires concurrently with the evaluation report, reissued February 2026.

DIVISION: 03 00 00—CONCRETE

Section: 03 38 00—Post-Tensioned Concrete

REPORT HOLDER:

GENERAL TECHNOLOGIES, INC.

EVALUATION SUBJECT:

GTI ZERO VOID® POST-TENSIONING SYSTEM

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the GTI Zero Void® Post-Tensioning System, described in ICC-ES evaluation report [ESR-2515](#), 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 GTI Zero Void® Post-Tensioning System, described in Sections 2.0 through 7.0 of ICC-ES evaluation report [ESR-2515](#), 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-Report Number for the 2021 *International Building Code*® meet the requirements of the *Florida Building Code-Building* or the *Florida Building Code-Residential*, as applicable.

Use of the GTI Zero Void® Post-Tensioning System for compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code-Building* or the *Florida Building Code-Residential* has not been evaluated, and is outside the scope of this supplemental report.

For products falling under Florida Rule 61G20-3, verification that the report holder's quality assurance program is audited by a quality assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the responsibility of an approved validation entity (or the code official when the report holder does not possess an approval by the Commission). Florida Rule 61G20-3 is applicable to products and/or systems which comprise the building envelope and structural frame for compliance with the structural requirements of the Florida Building Code.

This supplement expires concurrently with the evaluation report reissued February 2026.

DIVISION: 03 00 00—CONCRETE

Section: 03 38 00—Post-Tensioned Concrete

REPORT HOLDER:

GENERAL TECHNOLOGIES, INC.

EVALUATION SUBJECT:

GTI ZERO VOID® POST-TENSIONING SYSTEM

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the GTI Zero Void® Post-Tensioning System, described in ICC-ES evaluation report [ESR-2515](#), has also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2025 Oregon Structural Specialty Code (OSSC)
- 2023 Oregon Residential Specialty Code (ORSC)

2.0 CONCLUSIONS

The GTI Zero Void® Post-Tensioning System, described in Sections 2.0 through 7.0 of the ICC-ES evaluation report [ESR-2515](#), complies with the OSSC Chapters 18 and 19, and the ORSC, and is subject to the conditions of use described in this supplement.

3.0 CONDITIONS OF USE

The GTI Zero Void® Post-Tensioning System described in this evaluation report supplement must comply with all of the following conditions:

- All applicable sections in the evaluation report [ESR-2515](#).
- The design, installation, conditions of use and identification of the GTI Zero Void® Post-Tensioning System are in accordance with the 2024 *International Building Code*® (IBC) and the 2021 *International Residential Code*® (IRC) provisions noted in the ICC-ES evaluation report [ESR-2515](#).
- Under the ORSC, an engineering design in accordance with ORSC Section R301.1.3 must be submitted.

This supplement expires concurrently with the evaluation report, reissued February 2026.