

ICC-ES Evaluation Report

ESR-3456

 Reissued February 2024
 This report also contains:

 Revised April 2024
 - FBC Supplement

 Subject to renewal February 2026
 - LABC Supplement

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1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2024, 2021, 2018, 2015 and 2012 <u>International Building Code[®] (IBC)</u>
- 2024, 2021, 2018, 2015 and 2012 <u>International Residential Code[®] (IRC)</u>

For evaluation for compliance with codes adopted with Los Angeles Department of Building and Safety (LADBS), see <u>ESR-3456 LABC and LARC Supplement</u>.

Property evaluated:

Structural

2.0 USES

The MiTek connectors described in this report are used for connecting wood framing members in accordance with Section 2304.10.4 of the 2024 and 2021 IBC, Section 2304.10.3 of the 2018, 2015 and 2012 IBC, or Section 2304.9.3 of the 2012 IBC. The connectors may also be used in structures regulated under the IRC when an engineered design is submitted to, and approved by, the code official, in accordance with Section R301.1.3 of the IRC.

3.0 DESCRIPTION

3.1 Bridging:

3.1.1 MB16 and MBG Series Bridging: The MB16 and MBG series bridging products are cold-formed from No. 22 gage steel. The MB16 series bridging is designed to be installed without the use of nails, and MBG series bridging is prepunched for installation with 8d by $1^{1}/_{2}$ -inch-long nails. See <u>Table 1</u> and <u>Figure 1</u> for product dimensions, fastener schedule, joist sizes and spacings, and typical installation details.

3.1.2 N and **O** Series Bridging: The N series bridging, designed to span between two joists, is cold-formed from No. 20 gage steel or No. 22 gage steel. The O series bridging, designed to span across three joists in an over-and-under configuration, is cold-formed from No. 22 gage steel. The ends of both the N and O series bridging are prepunched for installation with 8d by 1¹/₂-inch-long nails, and the O series bridging is also partially punched in the middle to allow prongs to be pressed into the middle joist. See Figure 2 and Tables 2A and 2B for product dimensions, fastener schedule, joist depths and spacings, and typical installation details.

3.2 Wall Bracing:

See <u>Figure 3</u> and <u>Table 3</u> for product dimensions, fastener schedule, angle of installation, and a typical installation detail.



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3.2.1 RWB and WB Series Wall Bracing: The RWB and WB series wall bracing products are designed for use with stud spacings of either 16 or 24 inches (406 or 610 mm) on center. The RWB series wall bracing is cold-formed from No. 16 gage steel and is available in a standard 35-pound pack (15.9 kg). The RWB wall bracing is prepunched for installation with 8d common nails. The WB series bracing is cold-formed from No. 16 gage steel, and is prepunched for installation with 8d common nails into each stud and 16d common nails into the top plate and sill plate.

3.2.2 WBC and WBT Wall Bracing: The WBC and WBT series wall bracing products are designed for use with stud spacings of either 12 or 16 inches (305 or 406 mm) on center. The WBC series wall bracing is cold-formed from No. 18 gage steel, and is available in a flat configuration. The WBC series wall bracing is prepunched for installation with 16d common nails into the top and bottom plates and 8d common nails into each intervening stud. The WBT series wall bracing is cold-formed with rolled edges in a T-style from No. 22 gage steel and is prepunched for installation with 8d common nails.

3.3 Materials:

3.3.1 Steel: The connectors described in this report are formed from ASTM A653, SS designation, Grade 40 galvanized steel and have a G90 zinc coating complying with ASTM A653. Minimum steel base-steel thicknesses for the different gages are shown in the following table:

| GAGE NO. | MINIMUM BASE-STEEL THICKNESS (inch) | | | | | | |
|----------|-------------------------------------|--|--|--|--|--|--|
| 22 | 0.029 | | | | | | |
| 20 | 0.033 | | | | | | |
| 18 | 0.044 | | | | | | |
| 16 | 0.055 | | | | | | |

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

3.3.2 Wood: Wood members used in braced walls must comply with the IBC or IRC, as applicable. For bridging and wall bracing installed with nails, the thickness of each wood member must be sufficient such that the specified fasteners do not protrude through the opposite side of the member, unless otherwise permitted in the applicable table within this report. Refer to Section 3.3.4 for issues related to treated wood.

3.3.3 Fasteners: Nails used for connectors described in this report must comply with ASTM F1667; and must have dimensions and bending yield strengths as shown in the following table:

| FASTENER DESIGNATION | FASTENERSHANKLENGTHDIAMETER(inches)(inch) | | MINIMUM REQUIRED F _{yb} , (psi) | | |
|------------------------------------|---|-------|--|--|--|
| 8d x 1 ¹ / ₂ | 1.5 | 0.131 | 100,000 | | |
| 8d common | 2.5 | 0.131 | 100,000 | | |
| 16d common | 3.5 | 0.162 | 90,000 | | |

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

3.3.4 Use in Treated Wood: Connectors and fasteners used in contact with preservative-treated or fireretardant-treated wood must comply with Section 2304.10.6 of the 2024 and 2021 IBC (Section 2304.10.5 of the 2018 and 2015 IBC, Section 2304.9.5 of the 2012 IBC) or Section R304.3 of the 2024 IRC (Section R317.3 of the 2021, 2018, 2015 and 2012 IRC). The lumber treater or the report holder (MiTek), or both, should be contacted for recommendations on the appropriate level of corrosion resistance to specify for the connectors and fasteners as well as the connection capacities of the fasteners used with the specific proprietary preservative-treated or fireretardant-treated lumber.

4.0 DESIGN AND INSTALLATION

4.1 Design:

The MiTek Bridging products are used prescriptively to span between wood joists to provide lateral bridging and bracing meeting the requirements of 2024 IBC Sections 2308.8.6 and 2308.11.7 (Sections 2308.4.6 and 2308.7.8 of the 2021, 2018 and 2015 IBC, Sections 2308.8.5 and 2308.10.6 of the 2012 IBC) and IRC Section R502.7.1 and R802.8.1. For engineered designs, the bridging is used to address the requirement of Section 4.4.1.2(d) of the NDS. The MiTek Wall Bracing products are used to provide lateral resistance in dimensional 2-by solid sawn lumber stud framed walls, as shown for wall Let-in-bracing (LIB) in 2024 IBC Table 2308.10.3(1) (Table 2308.6.3(1) for the 2021, 2018, 2015 and 2012 IBC) and IRC Table R602.10.4 and as an alternate to the bracing methods prescribed in 2012 IBC Section 2308.9.3.

4.2 Installation

Installation of the connectors must be in accordance with this evaluation report and the manufacturer's published installation instructions.

4.2.1 Bridging: Bridging units should be installed in pairs at intervals of 8-ft or less. Bridging pairs should form an "X" between joists; leave a slight space between the units to avoid noise-generating contact. See <u>Figures 1</u> and <u>2</u>.

4.2.2 Wall Bracing: RWB and WB series bracing is for use with 16 or 24 inch (406 or 610 mm) on-center studs. They must be installed in pairs forming an "X" or opposing "V" at each end of a maximum 25-foot-long wall panel. WBC and WBT series bracing is for use with 12 or 16 inch (305 or 406 mm) on-center studs. Install one brace at each end of wall section, not exceeding 25-feet, in an opposing "V" pattern. See <u>Figure 3</u>.

4.3 Special Inspection:

4.3.1 Main Windforce-resisting Systems under the IBC: Periodic special inspection must be conducted for components within the main windforce-resisting system, where required in accordance with Sections 1704.2 and 1705.12 of the 2024 and 2021 IBC, Sections 1704.2 and 1705.11 of the 2018 and 2015 IBC and Sections 1704.2 and 1705.10 of the 2012 IBC.

4.3.2 Seismic-force-resisting Systems under the IBC: Periodic special inspection must be conducted for components within the seismic-force-resisting system, where required in accordance with Sections 1704.2 and 1705.13 of the 2024 and 2021 IBC, Sections 1704.2 and 1705.12 of the 2018 and 2015 IBC and Sections 1704.2 and 1705.11 of the 2012 IBC.

5.0 CONDITIONS OF USE:

The MiTek connectors described in this evaluation 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 connectors must be manufactured, identified and installed in accordance with this evaluation report and the manufacturer's published installation instructions. A copy of the manufacturer's published installation instructions must be available at the jobsite at all times during installation. In the event of a conflict between this report and the manufacturer's published installation instructions, the most stringent requirements govern.
- **5.2** Connected wood members and fasteners must comply with Sections 3.3.2 and 3.3.3, respectively.
- **5.3** Use of connectors and fasteners with preservative-treated or fire-retardant-treated lumber must be in accordance with Section 3.3.4.
- **5.4** The bridging and wall bracing products are manufactured under a quality control system with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Joist Hangers and Similar Devices (AC13), dated October 2018 (editorially revised February 2024).

7.0 IDENTIFICATION

- 7.1 Each connector described in this evaluation report is identified by the product model (stock) number, the number of the ICC-ES index evaluation report for MiTek (<u>ESR-2685</u>), and by one or more of the following designations: MiTek, USP Structural Connectors, or USP.
- **7.2** The report holder's contact information is the following:

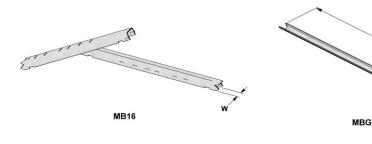
MITEK INC. 16023 SWINGLEY RIDGE ROAD CHESTERFIELD, MISSOURI 63017 (800) 328-5934 <u>www.mitek-us.com</u> <u>uspcustomerservice@mii.com</u>

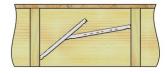
| 10107 0175 | | STEEL | D | IMENSIONS (in.) | FAST | ENER SCHEDULE | JOIST SPACING | |
|-----------------|-----------|-------|--------------------------------|--|------|------------------------------------|---------------|--|
| JOIST SIZE | STOCK NO. | GAGE | w | L | Qty | Туре | O.C. (in.) | |
| 2 x 8 - 10 - 12 | MB16 | 22 | ¹¹ / ₁₆ | ¹¹ / ₁₆ (adjustable) | | | 16 | |
| 2 x 8 | MBG812 | 22 | ¹⁵ / ₁₆ | 11 ³ / ₄ | 1 | 8d x 1 ¹ / ₂ | 12 | |
| 2 x 8 | MBG816 | 22 | ¹⁵ / ₁₆ | 15 ⁹ / ₁₆ | 1 | 8d x 1 ¹ / ₂ | 16 | |
| 2 x 8 | MBG824 | 22 | 1 ⁵ / ₁₆ | 23 ¹ / ₂ | 1 | 8d x 1 ¹ / ₂ | 24 | |
| 2 x 10 | MBG1012 | 22 | ¹⁵ / ₁₆ | 12 ³ / ₄ | 1 | 8d x 1 ¹ / ₂ | 12 | |
| 2 x 10 | MBG1016 | 22 | ¹⁵ / ₁₆ | 16 ⁵ / ₁₆ | 1 | 8d x 1 ¹ / ₂ | 16 | |
| 2 x 10 | MBG1024 | 22 | 1 ⁵ / ₁₆ | 24 | 1 | 8d x 1 ¹ / ₂ | 24 | |
| 2 x 12 | MBG1212 | 22 | ¹⁵ / ₁₆ | 14 | 1 | 8d x 1 ¹ / ₂ | 12 | |
| 2 x 12 | MBG1216 | 22 | ¹⁵ / ₁₆ | 17 ¹ / ₄ | 1 | 8d x 1 ¹ / ₂ | 16 | |
| 2 x 12 | MBG1224 | 22 | 1 ⁵ / ₁₆ | 24 ³ / ₄ | 1 | 8d x 1 ¹ / ₂ | 24 | |
| 2 x 14 | MBG1412 | 22 | ¹⁵ / ₁₆ | 16 | 1 | 8d x 1 ¹ / ₂ | 12 | |
| 2 x 14 | MBG1416 | 22 | ¹⁵ / ₁₆ | 18 ⁷ / ₁₆ | 1 | 8d x 1 ¹ / ₂ | 16 | |
| 2 x 14 | MBG1424 | 22 | 1 ⁵ / ₁₆ | 25 ⁵ / ₈ | 1 | 8d x 1 ¹ / ₂ | 24 | |
| 2 x 16 | MBG1612 | 22 | ¹⁵ / ₁₆ | 17 | 1 | 8d x 1 ¹ / ₂ | 12 | |
| 2 x 16 | MBG1616 | 22 | ¹⁵ / ₁₆ | 19 ⁵ / ₈ | 1 | 8d x 1 ¹ / ₂ | 16 | |
| 2 x 16 | MBG1624 | 22 | ¹⁵ / ₁₆ | 26 ⁵ / ₈ | 1 | 8d x 1 ¹ / ₂ | 24 | |

TABLE 1—MB16 and MBG SERIES BRIDGING 1,2,3

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

 1See Section 3.3.3 for required fastener dimensions and mechanical properties. 2MB16 and MBG series bridging must be attached to wood framing members complying with Section3.3.2 3Joist spacing values are based on one $1^{1}\!/_2$ -inch joist width.

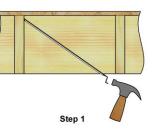




Step 1



Step 2





Typical MB16 Installation

Typical MBG Installation



| TABLE 2A-N | AND O SERIES | BRIDGING |
|------------|--------------|----------|
| | | |

| STOCK NO. | STEEL GAGE | DIMENSI | ONS (in) | FASTENER SCHEDULE | | |
|-----------|------------|-----------------------------|----------------------------------|-------------------|------------------------------------|--|
| oroonno. | OTELE OAGE | W | L | Qty | Туре | |
| N16 | 22 | 3/4 | 19 ³ / ₄ | 4 | 8d x 1 ¹ / ₂ | |
| N27 | 20 | ³ / ₄ | 26 ¹³ / ₁₆ | 4 | 8d x 1 ¹ / ₂ | |
| N30 | 20 | 3/4 | 29 ¹³ / ₁₆ | 4 | 8d x 1 ¹ / ₂ | |
| N36 | 20 | 3/4 | 35 ¹³ / ₁₆ | 4 | 8d x 1 ¹ / ₂ | |
| N42 | 20 | ³ / ₄ | 42 | 4 | 8d x 1 ¹ / ₂ | |
| N48 | 20 | ³ / ₄ | 48 | 4 | 8d x 1 ¹ / ₂ | |
| N54 | 20 | ³ / ₄ | 54 | 4 | 8d x 1 ¹ / ₂ | |
| N56 | 20 | 1 | 56 | 4 | 8d x 1 ¹ / ₂ | |
| N60 | 20 | 1 | 60 | 4 | 8d x 1 ¹ / ₂ | |
| O40 | 22 | 3/4 | 39 ³ / ₄ | 4 | 8d x 1 ¹ / ₂ | |

TABLE 2B-N AND O SERIES BRIDGING INSTALLATION^{1,2}

| | STOCK NUMBER FOR JOIST-TO-JOIST X BRIDGING | | | | | | | | | | | |
|--------------------|--|-------------------------------|---------|---------|---------|-----|-----|-----|-----|-------------|--|--|
| Joist | Joist | Joist Spacing ⁽ⁱⁿ⁾ | | | | | | | | | | |
| Туре | Depth (in) | 12″ | 16″ | 19.2″ | 24″ | 30″ | 32″ | 36″ | 42″ | 48″ | | |
| 2x | 7 ¹ / ₄ | | N16/O40 | N27 | N27/N30 | N36 | N36 | N42 | N48 | N54/N56 | | |
| Sawn | 9 ¹ / ₄ | N16 | N16/O40 | N27 | N30 | N36 | N36 | N42 | N48 | N54/N56 | | |
| Dimensional | 11 ¹ / ₄ | N16/O40 | O40 | N27 | N30 | N36 | N36 | N42 | N48 | N54/N56 | | |
| | 9 ¹ / ₂ | N16 | N16 | N27 | N30 | N36 | N36 | N42 | N48 | N54/N56 | | |
| 1 ³ ⁄4" | 11 ⁷ /8 | N16 | N16 | N27 | N30 | N36 | N36 | N42 | N48 | N54/N56 | | |
| SCL | 14 | N16 | N27 | N27/N30 | N30 | N36 | N36 | N42 | N48 | N54/N56 | | |
| | 16 | N27 | N27 | N27/N30 | N30 | N36 | N42 | N42 | N48 | N54/N56 | | |
| | 9 ¹ / ₂ | N16 | N16 | N16 | N27/N30 | N36 | N36 | N36 | N42 | N56 | | |
| | 11 ⁷ / ₈ | N16 | N16 | N27 | N30 | N36 | N36 | N42 | N48 | N56 | | |
| I-Joists: | 14 | N16 | N16 | N27 | N30 | N36 | N36 | N42 | N48 | N54/N56 | | |
| 2 ½" | 16 | N16 | N27 | N27/N30 | N30 | N36 | N36 | N42 | N48 | N54/N56 | | |
| and 3 ½" | 18 | N27 | N27 | N30 | N30 | N36 | N36 | N42 | N48 | N54/N56 | | |
| Wide | 20 | N27 | N30 | N30 | N36 | N36 | N42 | N42 | N48 | N54/N56 | | |
| | 22 | N30 | N30 | N30 | N36 | N42 | N42 | N42 | N48 | N54/N56/N60 | | |
| | 24 | N30 | N30 | N36 | N36 | N42 | N42 | N48 | N56 | N56/N60 | | |

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

¹Gray shaded cells represent bridging installed on the face of the joist; web stiffeners are required for I-Joists.
 ²See Section 3.3.3 for required fastener dimensions and mechanical properties.
 ³N and O series bridging must be attached to wood framing members complying with Section 3.3.2.

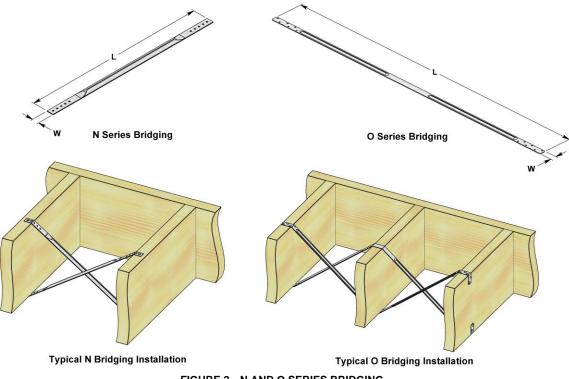


FIGURE 2-N AND O SERIES BRIDGING

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TABLE 3-RWB, WB, WBC AND WBT WALL BRACING^{1,2,3,4,5,6}

| I STOCK NO | | WALL | ANGLE OF | QTY. AT | DIMENSIONS (in) | | FASTENER SCHEDULE | | | | |
|------------|---------------|--------|-----------|------------------|-------------------------------|------------------------------------|-------------------|------------|----------------|-----------|--|
| | STEEL GAGE | HEIGHT | | EACH | | | Into Each Plate | | Into Each Stud | | |
| | UAUL | (ft) | (Degrees) | END ¹ | vv | L | Qty. | Туре | Qty. | Туре | |
| RWB 96 | 16 | 8 | 60 | 2 | 1 ¹ / ₄ | 9' 6" | 4 | 8d Common | 1 | 8d Common | |
| RWB 114 | 16 | 8 | 45 | 2 | 1 ¹ / ₄ | 11' 4 ³ / _{8"} | 4 | 8d Common | 1 | 8d Common | |
| RWB 143 | 16 | 10 | 45 | 2 | 1 ¹ / ₄ | 14' 3" | 4 | 8d Common | 1 | 8d Common | |
| WB 106 | 16 | 8 | 60 | 2 | 1 ¹ / ₄ | 9'-5 ¹ /2" | 3 | 16d Common | 1 | 8d Common | |
| WB 126 | 16 | 8 | 45 | 2 | 1 ¹ / ₄ | 11'-4 ¹ /4 | 3 | 16d Common | 1 | 8d Common | |
| WBC 10 | 18 | 8 | 60 | 1 | 7/ ₈ | 9' 5 ³ / _{4"} | 2 | 16d Common | 1 | 8d Common | |
| WBC 12 | 18 | 8 | 45 | 1 | 7/ ₈ | 11' 4 ³ / _{8"} | 2 | 16d Common | 1 | 8d Common | |
| WBT 10 | 22 | 8 | 60 | 1 | 1 ³ / ₈ | 9' 3" | 4 | 8d Common | 1 | 8d Common | |
| WBT 12 | 22 | 8 | 45 | 1 | 1 ³ /8 | 11' 4" | 2 | 8d Common | 1 | 8d Common | |
| WBT 14 | 22 | 10 | 45 | 1 | 1 ³ / ₈ | 14' 2" | 2 | 8d Common | 1 | 8d Common | |

For **SI:** 1 inch = 25.4 mm, 1 foot = 0.305 m.

¹The RWB and WB braces must be installed in pairs forming either an "X" or "V" pattern at each end of a maximum twenty-five-foot-long stud wall section. The WBC and WBT straps must be installed such that there are two straps for a maximum twenty-five-foot-long stud wall section, one at each end of the wall in an opposing "V" pattern.

²The RWB, WBC and WBT wall braces are not designed to replace shear wall load carrying components. ³The RWB, WB, WBC and WBT wall braces must be attached to wood framing members complying with Section 3.3.2.

⁴Wall bracing connectors are intended to be an alternative to the nominal 1 x 4 continuous diagonal wood brace as described in the prescriptive wall bracing provisions of the applicable code. ⁵The fastener schedule applies to each strap. See Section 3.3.3 for required fastener dimensions and mechanical properties.

⁶The tabulated angle of installation is the required angle from horizontal, in degrees, at which the bracing must be installed. An angle of 45 degrees is equivalent to a slope of 12 units vertical in 12 units horizontal. An angle of 60 degrees is approximately equivalent to 21 units vertical in 12 units horizontal.

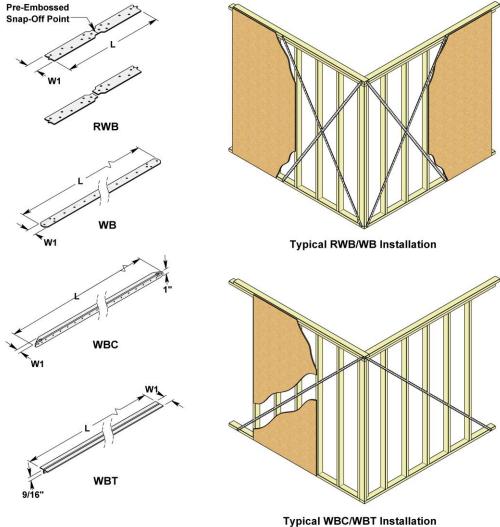


FIGURE 3-RWB, WB, WBC, AND WBT WALL BRACING



ICC-ES Evaluation Report

ESR-3456 LABC and LARC Supplement

Reissued February 2024 Revised April 2024 This report is subject to renewal February 2026.

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DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES Section: 06 05 23—Wood, Plastics, and Composite Fastenings

REPORT HOLDER:

MITEK[®] INC.

EVALUATION SUBJECT:

MITEK® CONNECTORS FOR WOOD-FRAMED CONSTRUCTIONS—FRAMING BRACES AND BRIDGING

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the MiTek connectors, described in ICC-ES evaluation report <u>ESR-3456</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:

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

2.0 CONCLUSIONS

The MiTek connectors, described in Sections 2.0 through 7.0 of the evaluation report <u>ESR-3456</u>, comply with the LABC Chapter 23, and the LARC, and are subject to the conditions of use described in this supplement.

3.0 CONDITIONS OF USE

The MiTek connectors, described in this evaluation report supplement, must comply with all of the following conditions:

- All applicable sections in the evaluation report <u>ESR-3456</u>.
- The design, installation, conditions of use and identification are in accordance with the 2021 International Building Code[®] (IBC) provisions noted in the evaluation report <u>ESR-3456</u>.
- The design, installation and inspection are in accordance with additional requirements of LABC Chapters 16, 17 and 23 as applicable.
- The tabulated allowable loads in the evaluation report <u>ESR-3456</u> must not be increased for duration of loading.
- Under the LARC, an engineered design in accordance with LARC Section R301.1.3 must be submitted.

This evaluation report supplement expires concurrently with the evaluation report ESR-3456, reissued February 2024 and revised April 2024.





ICC-ES Evaluation Report

ESR-3456 FBC Supplement

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1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the MiTek connectors, described in ICC-ES evaluation report ESR-3456, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2023 and 2020 Florida Building Code—Building
- 2023 and 2020 Florida Building Code—Residential

2.0 CONCLUSIONS

The MiTek connectors, described in Sections 2.0 through 7.0 of the evaluation report ESR-3456, comply with the *Florida Building Code*—*Building Code*—*Buildi*

Use of the MiTek connectors has also been found to be in compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building*, and the *Florida Building Code—Residential*, and the following conditions apply:

- a. For connections subject to uplift, the connection must be designed for no less than 700 pounds (3114 N).
- b. Fasteners must be galvanized.

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).

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