

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

REPORT HOLDER:

MITEK® INC.

EVALUATION SUBJECT:

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

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2021, 2018, 2015, 2012, 2009 and 2006 *International Building Code*® (IBC)
- 2021, 2018, 2015, 2012, 2009 and 2006 *International Residential Code*® (IRC)

For evaluation for compliance with codes adopted with Los Angeles Department of Building and Safety (LADBS), see [ESR-3456 LABC and LARC Supplement](#).

Property evaluated:

Structural

2.0 USES

The MiTek connectors described in this report (see Table 4 for a complete listing) are used for connecting wood framing members in accordance with Section 2304.10.4 of the 2021 IBC, Section 2304.10.3 of the 2018, 2015 and 2012 IBC, or Section 2304.9.3 of the 2012, 2009 and 2006 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 MB16 and MBG Bridging:

The MB16 and MBG series bridging are designed to span between two dimensional sawn lumber joists to provide lateral bridging and bracing meeting the requirements of Section 2308.4.6 of the 2021, 2018 and 2015 IBC or Section 2308.8.5 of the 2012, 2009, and 2006 IBC, and IRC Section R502.7.1. The MB16 series and MBG series bridging are cold-formed from No. 22 gage steel. The MB16 series is designed to be installed without the use of nails, and the

MBG series is prepunched for installation with 8d by 1½-inch-long nails. See Table 1 and Figure 1 for product dimensions, fastener schedule, joist sizes and spacings, and typical installation details.

3.2 N and O Bridging:

The N series bridging is designed to span between two dimensional sawn lumber joists to provide lateral bridging and bracing meeting the requirements of Section 2308.4.6 of the 2021, 2018 and 2015 IBC or Section 2308.8.5 of the 2012, 2009 and 2006 IBC, and IRC Section R502.7.1. The N series bridging is cold-formed from No. 20 gage steel or No. 22 gage steel. The O series bridging is designed to span across three sawn lumber joists in an over-and-under configuration to provide lateral bridging and bracing meeting the requirements of Section 2308.4.6 of the 2021, 2018, and 2015 IBC or Section 2308.8.5 of the 2012, 2009, and 2006 IBC, and IRC Section R502.7.1. The O series bridging 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 1½-inch-long nails, and the O series is also partially punched in the middle to allow prongs to be pressed into the middle joist. See Figure 2 and Table 2 for product dimensions, fastener schedule, joist depths and spacings, and typical installation details.

3.3 RWB, WBC and WBT Wall Bracing:

The RWB, WBC and WBT wall bracing series are designed to provide lateral resistance in dimensional 2-by sawn lumber stud framed walls, for stud spacings of either 16 or 24 inches (406 or 610 mm) on center. The RWB 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 WBC wall bracing is cold-formed from No. 18 gage steel, and is available in a flat configuration. The WBC 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 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. See Figure 3 and Table 3 for product dimensions, fastener schedules, wall heights, angle of installation, and typical installation details.

3.4 WB Wall Bracing:

The WB series wall bracing is designed as an alternative to the code-prescribed let-in bracing method as noted in Section 2308.6 of the 2021, 2018 and 2015 IBC or Section 2308.9.3(1) and IRC Section R602.10.3(1). 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.

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

3.5 Materials:

3.5.1 Steel: The specific types of steel and corrosion protection for each product are described in Table 6 of this evaluation report. 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.

3.5.2 Wood: Wood members must be sawn lumber with a minimum specific gravity of 0.50, unless otherwise noted in the applicable table within this evaluation report. Wood members must have a moisture content not exceeding 19 percent, except as noted in Section 4.1. For connectors 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 3.5.4 for issues related to treated wood.

3.5.3 Fasteners: Required fastener types and sizes for use with connectors described in this report are specified in this section and Tables 1 through 3.

3.5.3.1 Nails: Nails used for connectors described in this report must comply with material requirements, physical properties, tolerances, workmanship, protective coating and finishes, and packaging and package marking requirements specified in ASTM F1667; and must have lengths, diameters and bending yield strengths as shown in the following table:

FASTENER DESIGNATION	FASTENER LENGTH (inches)	SHANK DIAMETER (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.

3.5.4 Use in Treated Wood: Connectors and fasteners used in contact with preservative-treated or fire-retardant-treated wood must comply with Section 2304.10.6 of the 2021 IBC, Section 2304.10.5 of the 2018 and 2015 IBC, Section 2304.9.5 in the 2012, 2009 and 2006 IBC, Section R317.3 of the IRC or Section R319.3 of the 2006 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 fire-retardant-treated lumber.

4.0 DESIGN AND INSTALLATION

4.1 Design:

The MiTek connectors described in this report are to be used under continuously dry conditions and where the maximum moisture content in wood is 19 percent or less and sustained temperatures are limited to 100°F (37.8°C) or less. When connectors are installed in wood having a moisture content greater than 19 percent, or where the in-

service moisture content is expected to exceed this value, the applicable wet service factor, C_M , in Section 11.3.3 of the NDS, must be applied. When connectors are installed in wood that will experience sustained exposure to temperatures exceeding 100°F (37.8°C), the allowable loads in this evaluation report must be adjusted by the temperature factor, C_t , specified in Section 11.3.4 of the NDS. Connected wood members must be checked for load-carrying capacity at the connection in accordance with NDS Section 11.1.2.

4.2 Installation:

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

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 2021 IBC, Sections 1704.2 of the IBC and 1705.11 of the 2018 and 2015 IBC, 1705.10 of the 2012 IBC, Sections 1704 and 1706 of the 2009 IBC, and Section 1704 of the 2006 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 2021 IBC, Sections 1704.2 of the IBC and 1705.12 of the 2018 and 2015 IBC, 1705.11 of the 2012 IBC, and Sections 1704 and 1707 of the 2009 and 2006 IBC.

4.3.3 Installations under the IRC: Special inspections are normally not required for connectors used in structures regulated under the IRC. However, for components and systems requiring an engineered design in accordance with IRC Section R301, periodic special inspection requirements and exemptions must be in accordance with Sections 4.3.1 and 4.3.2 of this report.

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:

- 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, this report governs.
- Calculations showing compliance with this report must be submitted to the code official. The calculations must be prepared by a registered design professional where required by the statutes of the jurisdiction in which the project is to be constructed.
- Connected wood members and fasteners must comply with Sections 3.5.2 and 3.5.3, respectively.
- Adjustment factors, noted in Section 4.1 of this report and the applicable codes, must be considered where applicable.
- Use of connectors and fasteners with preservative-treated or fire-retardant-treated lumber must be in accordance with Section 3.5.4.

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 December 2020).

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 (ESR-2685), 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:

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TABLE 1—MB16 and MBG SERIES BRIDGING ^{1,2,3}

JOIST SIZE	STOCK NO.	STEEL GAGE	DIMENSIONS (in.)		FASTENER SCHEDULE		JOIST SPACING O.C. (in.)
			W	L	Qty	Type	
2 x 8 - 10 - 12	MB16	22	1 ¹ / ₁₆	(adjustable)	-- --	-- --	16
2 x 8	MBG812	22	1 ⁵ / ₁₆	11 ³ / ₄	1	8d x 1 ¹ / ₂	12
2 x 8	MBG816	22	1 ⁵ / 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	1 ⁵ / ₁₆	12 ³ / ₄	1	8d x 1 ¹ / ₂	12
2 x 10	MBG1016	22	1 ⁵ / 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	1 ⁵ / ₁₆	14	1	8d x 1 ¹ / ₂	12
2 x 12	MBG1216	22	1 ⁵ / 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	1 ⁵ / ₁₆	16	1	8d x 1 ¹ / ₂	12
2 x 14	MBG1416	22	1 ⁵ / 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	1 ⁵ / ₁₆	17	1	8d x 1 ¹ / ₂	12
2 x 16	MBG1616	22	1 ⁵ / ₁₆	19 ⁵ / ₈	1	8d x 1 ¹ / ₂	16
2 x 16	MBG1624	22	1 ⁵ / ₁₆	26 ⁵ / ₈	1	8d x 1 ¹ / ₂	24

For SI: 1 inch = 25.4 mm.

¹See Section 3.5.3 for required fastener dimensions and mechanical properties.

²MB16 and MBG series bridging must be attached to wood framing members complying with Section 3.5.2

³Joist spacing values are based on one 1¹/₂-inch joist width.

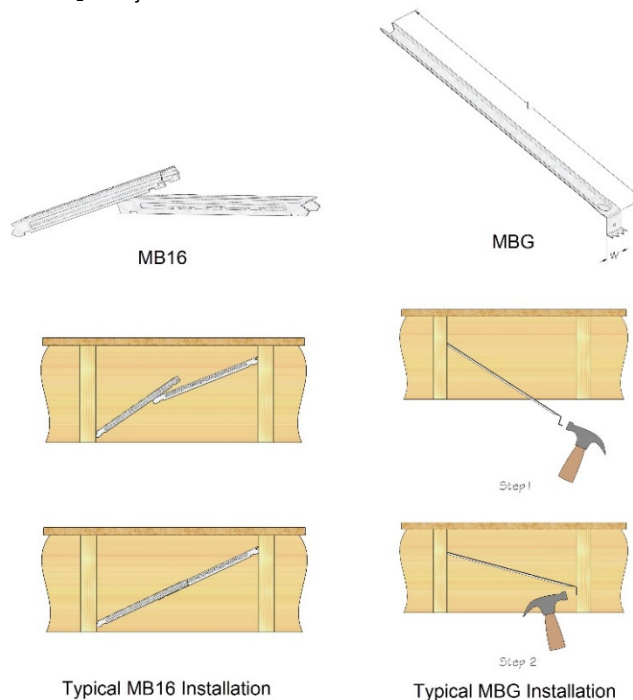


FIGURE 1—MB16 AND MBG SERIES BRIDGING

TABLE 2—N AND O SERIES BRIDGING^{1,2,3}

STOCK NO.	STEEL GAGE	DIMENSIONS (in)		FASTENER SCHEDULE		JOIST SPACING
		W	L	Qty	Type	
N16	22	3/4	19 ³ / ₄	4	8d x 1 1/2	(See below)
N27	20	3/4	26 ¹³ / ₁₆	4	8d x 1 1/2	(See below)
N30	20	3/4	29 ¹³ / ₁₆	4	8d x 1 1/2	(See below)
N36	20	3/4	35 ¹³ / ₁₆	4	8d x 1 1/2	(See below)
N42	20	3/4	42	4	8d x 1 1/2	(See below)
N48	20	3/4	48	4	8d x 1 1/2	(See below)
N54	20	3/4	54	4	8d x 1 1/2	(See below)
N56	20	1	56	4	8d x 1 1/2	(See below)
N60	20	1	60	4	8d x 1 1/2	(See below)
O40	22	3/4	39 ³ / ₄	4	8d x 1 1/2	(See below)

STOCK NUMBER FOR JOIST-TO-JOIST X BRIDGING									
Joist Depth (in)	Joist Spacing (in)								
	12"	16"	19.2"	24"	30"	32"	36"	42"	48"
7 1/4	--	N16/O40	--	--	--	--	--	--	--
9 1/4	N16	N16/O40	N27	N27/N30	N36	N36/N42	N42	N48	N54/N56
9 1/2	N16	N16	N27	N27/N30	N36	N36/N42	N42	N48	N54/N56
10	N16	N16	N27	N27/N30	N36	N36/N42	N42	N48	N54/N56
11 1/4	N16	N16	N27	N30	N36	N36/N42	N42	N48	N54/N56
11 7/8	N16	N27	N27	N30	N36	N36/N42	N42	N48	N54/N56
12	N16	N27	N27	N30	N36	N36/N42	N42	N48	N54/N56
14	N16	N27	N27/N30	N30	N36/N42	N36/N42	N42	N48	N54/N56
16	N27	N27	N27/N30	N30	N36/N42	N42	N42/N48	N48/N54	N54/N56
18	N27	N27/N30	N30	N36	N36/N42	N42	N42/N48	N48/N54	N54/N56
20	N27/N30	N27/N30	N30	N36	N42	N42	N42/N48	N48/N54	N54/N56/N60
22	N27/N30	N30	N36	N36/N42	N42	N42/N48	N48	N54/N56	N54/N56/N60
24	N30	N36	N36	N36/N42	N42	N42/N48	N48	N54/N56	N56/N60
26	N30/N36	N36	N36/N42	N42	N42/N48	N48	N48/N54	N54/N56	N56/N60
28	N36	N36/N42	N36/N42	N42	N42/N48	N48	N48/N54	N54/N56	N60
30	N36/N42	N36/N42	N42	N42/N48	N48	N48	N48/N54/N56	N54/N56/N60	N60
32	N36/N42	N42	N42	N42/N48	N48	N48/N54	N54/N56	N54/N56/N60	N60

For SI: 1 inch = 25.4 mm.

¹See Section 3.5.3 for required fastener dimensions and mechanical properties.

²NO and O series bridging must be attached to wood framing members complying with Section 3.5.2.

³Joist spacing values are based on one 1 1/2-inch joist width.

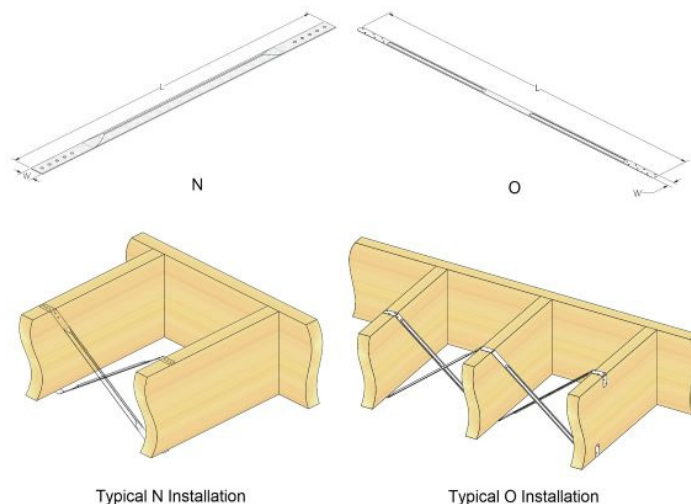


FIGURE 2—N AND O SERIES BRIDGING

TABLE 3—RWB, WBC WBT AND WB WALL BRACING^{1,2,3,4,5,6,7}

STOCK NO.	STEEL GAGE	WALL HEIGHT (ft)	ANGLE OF INSTALLATION ⁸ (Degrees)	QTY. AT EACH END ¹	DIMENSIONS			FASTENER SCHEDULE			
					W1 (in)	W2 (in)	L	Into Each Plate		Into Each Stud	
								Qty.	Type	Qty.	Type
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	?	60	2	1 1/4		9'-5 1/2"	3	16d Common	1	8d Common
WB 126	16	?	45	2	1 1/4		11'-4 1/4"	3	16d Common	1	8d Common
WBC 10	18	8	60	1	7/8	1	9' 5 3/4"	2	16d Common	1	8d Common
WBC 12	18	8	45	1	7/8	1	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, WBC and WBT wall braces must be attached to wood framing members complying with Section 3.5.2.

⁴See Section 3.5.3 for required fastener dimensions and mechanical properties.

⁵WB wall bracing is 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.

⁶WB wall bracing is for use with studs spaced at 16 inches or 24 inches on center and must be installed in pairs.

⁷The fastener schedule applies to each strap. See Section 3.5.3 for required fastener dimensions and mechanical properties.

⁸The 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.

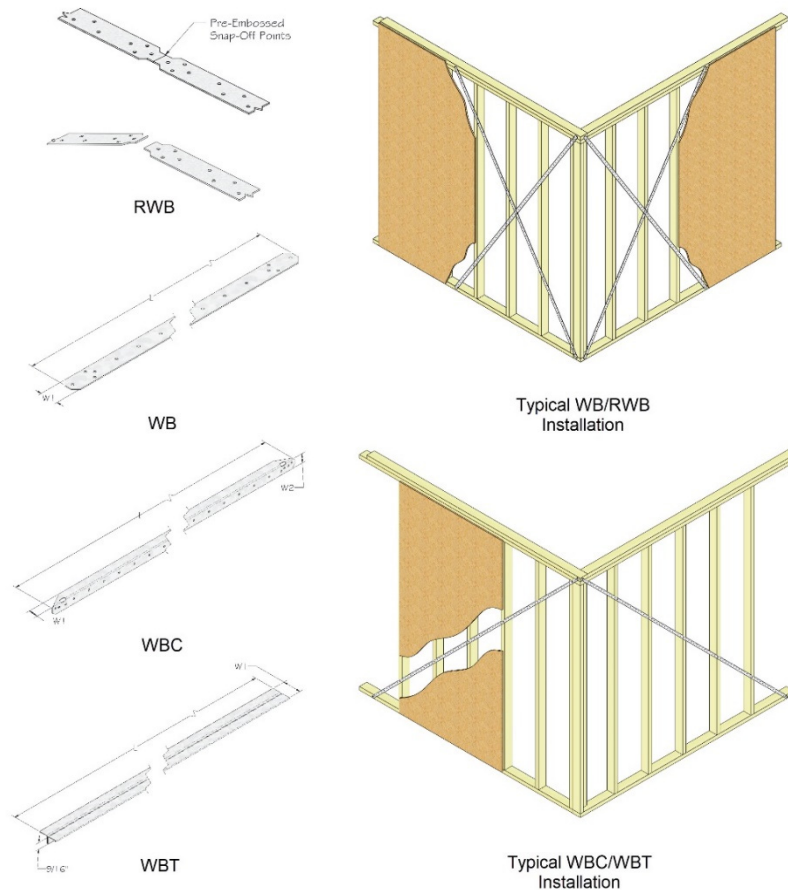


FIGURE 3—RWB, WB, WBC, AND WBT WALL BRACING

TABLE 4—STEEL TYPE, GRADE AND CORROSION RESISTANCE

PRODUCT	STEEL	COATING
MB16 and MBG Series Bracing	ASTM A653, SS designation, Grade 40	G90 ¹
N and O Series Bridging	ASTM A653, SS designation, Grade 40	G90 ¹
RWB, WBC and WBT Wall Bracing	ASTM A653, SS designation, Grade 40	G90 ¹
WB Wall Bracing	ASTM A653, SS designation, Grade 40	G90 ¹

¹Corrosion protection is a zinc coating in accordance with ASTM A653.

TABLE 5—CROSS-REFERENCE OF PRODUCT NAMES WITH APPLICABLE REPORT SECTIONS, TABLES AND FIGURES

PRODUCT NAME	REPORT SECTION	TABLE NO.	FIGURE NO.
MB16 and MBG Series Bracing	3.1	1	1
N and O Series Bridging	3.2	2	2
RWB, WBC and WBT Wall Bracing	3.3	3	3
WB Wall Bracing	3.4	3	3

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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 [ESR-3456](#), 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 MiTek connectors, described in Sections 2.0 through 7.0 of the evaluation report [ESR-3456](#), 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 [ESR-3456](#).
- The design, installation, conditions of use and identification are in accordance with the 2018 *International Building Code*® (IBC) provisions noted in the evaluation report [ESR-3456](#).
- 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 [ESR-3456](#) 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 2021 and revised February 9, 2021.

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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, has also been evaluated for compliance with the code(s) noted below.

Applicable code editions:

- 2019 *California Building Code* (CBC)

For evaluation of applicable chapters adopted by the California Office of Statewide Health Planning and Development (OSHPD) and Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

- 2019 *California Residential Code* (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The MiTek connectors, described in Sections 2.0 through 7.0 of the evaluation report ESR-3456, comply with CBC Chapter 23, provided the design and installation are in accordance with the 2018 *International Building Code*® (IBC) provisions noted in the evaluation report and the additional requirements of 2019 CBC Chapters 16, 17, and 23, as applicable.

2.1.1 OSHPD: The applicable OSHPD Sections of the CBC are beyond the scope of this supplement.

2.1.2 DSA: The applicable DSA Sections of the CBC are beyond the scope of this supplement.

2.2 CRC:

The MiTek connectors, described in Sections 2.0 through 7.0 of the evaluation report ESR-3456, comply with CRC, provided the design and installation are in accordance with the 2018 *International Residential Code*® (IRC) provisions noted in the evaluation report and the additional requirements of 2019 CRC Chapter 3, as applicable.

This evaluation report supplement expires concurrently with the evaluation report ESR-3456, reissued February 2021 and revised February 9, 2021.

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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 ESR-3456, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2020 *Florida Building Code—Building*
- 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*, and the *Florida Building Code—Residential*, provided the design requirements are 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-3456 for the 2018 *International Building Code*® meet the requirements of the *Florida Building Code—Building* or the *Florida Building Code—Residential*, as applicable, with the following conditions.

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).

This evaluation report supplement expires concurrently with the evaluation report ESR-3456, reissued February 2021 and revised February 9, 2021.