# ICC-ES Evaluation Report

**ESR-2635**

*Reissued January 2024*

*Revised August 2024*

*Subject to renewal January 2026*

*This report also contains:*

**- LABC Supplement**

**- CBC Supplement**

**- Chicago Title 14 Supplement**

**- FBC Supplement**



| | | | |
|---|---|---|---|
| **DIVISION: 05 00 00 — METALS**<br>**Section: 05 31 00 — Steel Decking** | **REPORT HOLDER: NEW MILLENNIUM BUILDING SYSTEMS, LLC** | **EVALUATION SUBJECT: NEW MILLENNIUM COMPOSITE DECK PANELS: 2.0VSC, 2.0VLSC, 2.0VSESC, 2.0VLSESC, 3.5VLSC, AND 3.5VLSCA** | |

## 1.0 EVALUATION SCOPE

**Compliance with the following codes:**

- 2024, 2021, 2018, 2015 and 2012 *International Building Code®* (IBC)

For evaluation for compliance with codes adopted by the *Los Angeles Department of Building and Safety* (LADBS), see ESR-2635 LABC and LARC Supplement.

**Property evaluated:**

Structural

## 2.0 USES

The New Millennium Versa-Dek® 2.0 S Composite (2.0VSC), Versa-Dek® 2.0 LS Composite (2.0VLSC), Versa-Dek® 2.0 S ES Composite (2.0VSESC), Versa-Dek® 2.0 LS ES Composite (2.0VLSESC), Versa-Dek® 3.5 LS Composite (3.5VLCS), and Versa-Dek® 3.5 LS Composite Acoustical (3.5VLCSA) deck panels are used in conjunction with structural normal weight and lightweight concrete topping with minimum specified compressive strength, $f_c'$, of 3,000 psi (20.68 MPa) to support construction, gravity, and lateral loads.

## 3.0 DESCRIPTION

### 3.1 General:

The New Millennium 2.0VSC, 2.0VLSC, 2.0VSESC, 2.0VLSESC, 3.5VLSC, and 3.5VLSCA deck panels are cold-formed from steel sheets complying with either of the following:

- ASTM A653 SS Grade 40 steel with a minimum G40 galvanization. Some panels may have a paint coating over the galvanized bottom surface, which is not in contact with concrete.
- ASTM A1008 SS Grade 40 steel with a mill finished (bare steel) top surface and primed painted bottom surface.

Panels dimensions and profiles are shown in the tables and figures of this report.

### 3.2 2.0VSC, 2.0VLSC, 2.0VSESC, and 2.0VLSESC Panels:

The 2.0VSC, 2.0VLSC, 2.0VSESC, and 2.0VLSESC deck panels are fluted sections as shown in Figure 1 and are available in design thicknesses ranging from No. 16 to No. 22 gage [0.0598 inch (1.52 mm) to 0.0295 inch (0.75 mm)].

### 3.3 3.5VLSC and 3.5VLSCA Panels:

The 3.5VLSC and 3.5VLSCA deck panels are fluted sections as shown in Figure 1 and are available in design thicknesses ranging from No. 16 to No. 20 gage [0.0598 inch (1.52 mm) to 0.0358 inch (0.91 mm)]. The 3.5VLSCA deck panel is identical to the 3.5VLSC deck panel, except that the bottom flanges of the 3.5VLSCA panel are perforated with holes as shown in Figure 2. The 3.5VLSCA assembly includes factory-installed acoustical insulation and a nonstructural No. 20 gage [0.0358 inch (0.91 mm)] cap to protect the acoustical insulation during concrete placement.

## 4.0 DESIGN AND INSTALLATION

### 4.1 Vertical Load Design:

The composite deck slabs must be designed in accordance with ANSI/SDI SD-2022 using the section properties in Table 1 and additional requirements of Sections 4.1.1 and 4.1.2.

**4.1.1 Shear Bond Resistance of Composite Deck Slabs:** The shear bond resistance and permissible uniform load for shear bond of composite deck slabs must be determined in accordance with ANSI/SDI SD-2022, with the tested shear bond resistance, $V_t$, calculated using the Multi-Linear Regression Model in Section F Commentary of ANSI/SDI T-CD-2022, and the shear bond coefficients presented in Appendix A of this report as follows:

$$V_t = bd\left[\frac{k_1 t}{l'} + \frac{k_2}{l'} + k_3 t + k_4\right]$$

where,

$V_t$ = Nominal shear bond resistance, lbs/ft of slab width.

$b$ = Unit slab width = 12 in.

$d$ = Effective slab depth, measured from top of slab to the gross section neutral axis of the deck unit, in.

$l'$ = Shear span, in.

$t$ = Base metal thickness, in.

$k_1, k_2, k_3, k_4$ = Shear bond coefficients in Appendix A of this report.

The LRFD resistance factor (ϕ) and ASD safety factor (Ω) for shear bond capacity are 0.85 and 1.75, respectively.

**4.1.2 Flexural Strength of Composite Deck Slabs in Positive Bending:** The flexural strength of composite deck slabs must be determined in accordance with ANSI/SDI SD-2022.

### 4.2 Horizontal Load (Diaphragm) Design:

The diaphragm shear strength and stiffness of the composite deck slabs must be determined in accordance with AISI S310-20 w/S1-22 using the section properties in Table 1 and Figures 1 and 2. The diaphragm shear strength and stiffness of composite deck slabs with perforations in bottom flanges (3.5VLSCA) must be modified as described in Appendix B.

### 4.3 Installation:

**4.3.1 General:** The deck panels must be installed in accordance with this report, ANSI/SDI SD-2022, and New Millennium's published installation guidelines and instructions. If there is a conflict between New Millennium's published installation guidelines and instructions and this report, this report governs.

**4.3.2 Reinforcement:** Reinforcement for crack control due to temperature and shrinkage shall be provided in accordance with ANSI/SDI SD-2022.

## 5.0 CONDITIONS OF USE

The New Millennium steel deck panels described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

**5.1** The design base-metal thicknesses for all steel deck panels are indicated in Table 1. The thickness delivered to the jobsite must be at least 95 percent of the thickness noted in the tables.

**5.2** The minimum loads of IBC Chapter 16 in addition to the construction loads required by references in 2024 IBC Section 2208.1 (2021, 2018, 2015 and 2012 IBC Section 2210.1.1) must be considered by the registered design professional based on the specific occupancy or use, as applicable.

**5.3** Special inspections must be provided in accordance with Chapter 17 of the IBC.

**5.4** Calculations and details demonstrating that the loads applied to the decks comply with this report must be submitted to the code official for approval. Calculations and drawings must be prepared, signed, and sealed by a registered design professional where required by the statutes of the jurisdiction in which the project is to be constructed.

**5.5** The steel deck panels are manufactured in Memphis, Tennessee under an approved quality control program with inspections by ICC-ES.

## 6.0 EVIDENCE SUBMITTED

Data in accordance with ICC-ES Acceptance Criteria for Steel Deck Roof and Floor Systems (AC43), dated August 2022 (editorially revised November 2023).

## 7.0 IDENTIFICATION

**7.1** The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-2635) along with the name, registered trademark, or registered logo of the report holder [and/or listee] must be included in the product label. [Electronic labeling is the ICC-ES web address (www.icc-es.org); specific URL related to the report; or the ICC-ES machine-readable code placed on the aforementioned items.]

**7.2** In addition, each bundle of the New Millennium steel deck panels described in this report is identified by a label bearing the manufacturer's name (New Millennium Building Systems, LLC); the deck panel profile name; the design thickness; the minimum specified yield strength; the cover width of the panel; the manufacturing location (MD—Memphis, Tennessee); and the evaluation report number (ESR-2635).

**7.3** The report holder's contact information is as follows:

**NEW MILLENNIUM BUILDING SYSTEMS, LLC**
**7575 WEST JEFFERSON BOULEVARD**
**FORT WAYNE, INDIANA 46804**
**(260) 969-3500**
**www.newmill.com**

## SYMBOLS AND DEFINITIONS

| Symbol | Definition |
|---|---|
| $c_p$ | Perforation center-to-center spacing |
| $D_d$ | Depth of deck panel |
| d | Panel corrugation pitch |
| $d_p$ | Diameter of perforation |
| $E_p$ | Width of perforation band in deck bottom flange |
| e | One-half the bottom flange width of deck panel measured between points of intercepts |
| f | Top flange width of panel measured between points of intercepts |
| h | Flat dimension of web measured in plane of web |
| $h_{sl}$ | Total slab height |
| $I_{gx}$ | Moment of inertia of full unreduced section (considering perforations for acoustical deck) |
| $I_{oi}$ | Effective moment of inertia in inverted (negative) bending |
| $I_{on}$ | Effective moment of inertia in normal (positive) bending |
| R | Inside bend radius |
| $S_{ei}$ | Effective section modulus in inverted (negative) bending |
| $S_{en}$ | Effective section modulus in normal (positive) bending |
| t | Base steel thickness of deck panel |
| w | Web width of deck panel measured between points of intercept in plane of web |
| θ | Web angle |

**TABLE 1—SECTION PROPERTIES[1, 2, 3,4]**

| DECK PANEL | GAGE | t (in.) | h (in.) | SECTION PROPERTIES | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | $I_{gx}$ (in.$^4$/ft) | $I_{on}$ (in.$^4$/ft) | $I_{oi}$ (in.$^4$/ft) | $S_{en}$ (in.$^3$/ft) | $S_{ei}$ (in.$^3$/ft) |
| Versa-Dek® 2.0 S Composite (2.0VSC) | 22 | 0.0295 | 1.706 | 0.401 | 0.398 | 0.322 | 0.286 | 0.256 |
| | 20 | 0.0358 | 1.698 | 0.485 | 0.485 | 0.416 | 0.356 | 0.319 |
| | 18 | 0.0474 | 1.682 | 0.640 | 0.640 | 0.596 | 0.473 | 0.438 |
| | 16 | 0.0598 | 1.666 | 0.805 | 0.805 | 0.786 | 0.595 | 0.567 |
| Versa-Dek® 2.0 LS Composite (2.0VLSC) | 22 | 0.0295 | 1.706 | 0.399 | 0.396 | 0.370 | 0.284 | 0.280 |
| | 20 | 0.0358 | 1.698 | 0.483 | 0.482 | 0.464 | 0.354 | 0.345 |
| | 18 | 0.0474 | 1.682 | 0.637 | 0.637 | 0.637 | 0.471 | 0.463 |
| | 16 | 0.0598 | 1.666 | 0.801 | 0.801 | 0.801 | 0.593 | 0.589 |
| Versa-Dek® 2.0 S ES Composite (2.0VSESC) | 22 | 0.0295 | 1.708 | 0.422 | 0.422 | 0.337 | 0.307 | 0.273 |
| | 20 | 0.0358 | 1.699 | 0.511 | 0.511 | 0.437 | 0.390 | 0.346 |
| | 18 | 0.0474 | 1.684 | 0.674 | 0.674 | 0.627 | 0.514 | 0.475 |
| | 16 | 0.0598 | 1.668 | 0.848 | 0.848 | 0.828 | 0.646 | 0.615 |
| Versa-Dek® 2.0 LS ES Composite (2.0VLSESC) | 22 | 0.0295 | 1.708 | 0.417 | 0.417 | 0.406 | 0.304 | 0.309 |
| | 20 | 0.0358 | 1.699 | 0.505 | 0.505 | 0.505 | 0.386 | 0.379 |
| | 18 | 0.0474 | 1.684 | 0.667 | 0.667 | 0.667 | 0.510 | 0.507 |
| | 16 | 0.0598 | 1.668 | 0.838 | 0.838 | 0.838 | 0.640 | 0.640 |
| VersaDek® 3.5 LS Composite (3.5VLSC) | 20 | 0.0358 | 3.330 | 2.042 | 1.917 | 1.766 | 0.775 | 0.910 |
| | 18 | 0.0474 | 3.313 | 2.697 | 2.648 | 2.475 | 1.113 | 1.226 |
| | 16 | 0.0598 | 3.295 | 3.395 | 3.394 | 3.262 | 1.504 | 1.573 |
| VersaDek® 3.5 LS Composite Acoustical (3.5VLSCA) | 20 | 0.0358 | 3.330 | 1.877 | 1.766 | 1.742 | 0.754 | 0.909 |
| | 18 | 0.0474 | 3.313 | 2.480 | 2.436 | 2.418 | 1.084 | 1.224 |
| | 16 | 0.0598 | 3.295 | 3.123 | 3.122 | 3.123 | 1.466 | 1.564 |

For **SI** dimensions: 1 inch = 25.4 mm; 1 plf = 14.6 N/m; 1 foot = 304.8 mm

Notes:
[1]Effective properties are based on yield strength ($F_y$) of 40 ksi.
[2]The design thickness is the uncoated base-metal thickness of the deck panel.
[3]The full moment of inertia is also referred to as the gross moment of inertia.
[4]Deck deflection under uniform loads can be determined using the moment of inertia, $I_D$, calculated as follows:
- for a simple span, $I_D$ is permitted to be equal to $(I_x + 2*I_{on})/3$ or $I_{on}$.
- for multiple spans, $I_D$ is permitted to be equal to $(I_x + 2*I_{oi})/3$, $(I_x + 2*I_{on})/3$ or the minimum of $I_{on}$ and $I_{oi}$.

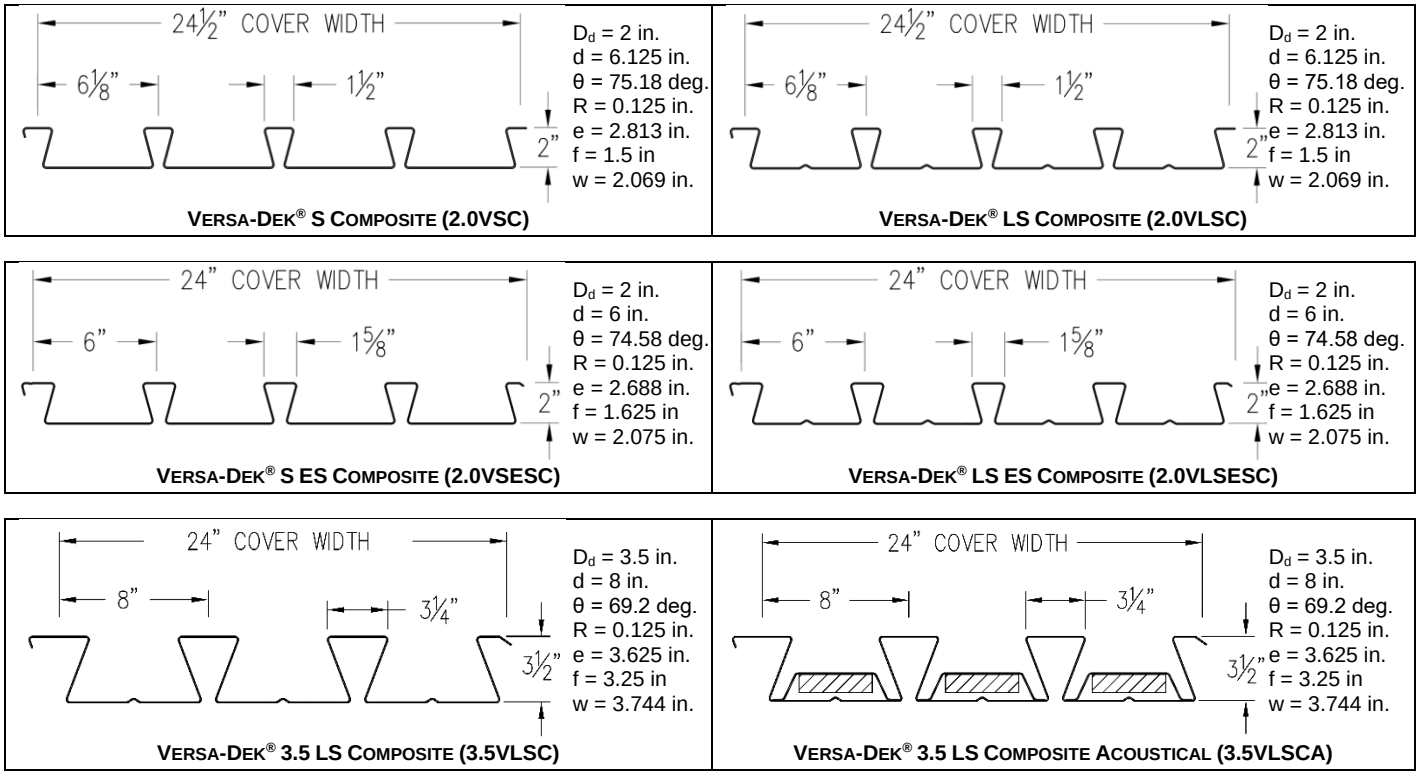
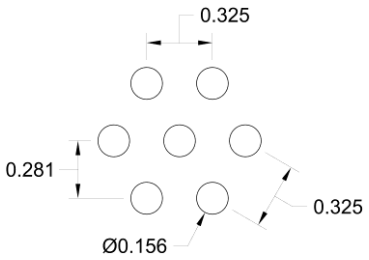


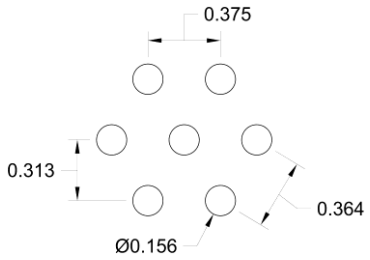

**FIGURE 1—STEEL DECK PANEL PROFILES**

| DECK TYPE | DIAMETER OF PERFORATION, $d_p$ (in.) | PERFORATION CENTER-TO-CENTER SPACING, $c_p$ (in.) | PERFORATED BAND WIDTH IN DECK BOTTOM FLANGE, $E_p$ (in.) |
|---|---|---|---|
| Versa-Dek® 3.5 LS Composite Acoustical, 3.5VLSCA (Option 1) | 0.156 | 0.325 | 5.844 |
| Versa-Dek® 3.5 LS Composite Acoustical, 3.5VLSCA (Option 2) | 0.156 | 0.375* | 5.781 |

*Note: Table shows the perforation center-to-center spacing, $c_p$, for deck calculation purposes taken as (0.375+0.364)/2=0.370 in.




Versa-Dek® 3.5 LS Composite Acoustical (Option 1)




Versa-Dek® 3.5 LS Composite Acoustical (Option 2)

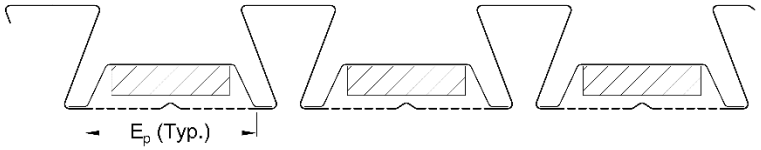



**FIGURE 2—PERFORATION PATTERNS OF VERSA-DEK® 3.5 LS COMPOSITE ACOUSTICAL (3.5VLSCA) PROFILE**

## APPENDIX A

### Shear Bond Coefficients

Shear bond coefficients for deck panels are presented in Table A.1.

**TABLE A.1—Shear Bond Coefficients**

| Deck Panel | $k_1$ | $k_2$ | $k_3$ | $k_4$ |
|---|---|---|---|---|
| 2.0VSC, 2.0VLSC, 2.0VSESC, and 2.0VLSESC [1] | 13.50 | 191.96 | 135.47 | -5.24 |
| 3.5VLSC [2] | 986.87 | 129.53 | 179.43 | -5.90 |
| 3.5VLSCA [2] | 3986.67 | 74.89 | 8.24 | -0.43 |

[1] Provided coefficients are for slab depth range of 4 – 8.5 inches (102 – 216 mm). For shear span less than 25.5 inches (648 mm), use *l*' = 25.5 inches for the calculation of the nominal shear bond resistance, $V_t$, using the Multi-Linear Regression Model in Section F Commentary of SDI T-CD-2022.
[2] Provided coefficients are for slab depth range of 5.5 – 8.5 inches (140 – 216 mm). For shear span less than 30 inches (762 mm), use *l*' = 30 inches for the calculation of the nominal shear bond resistance, $V_t$, using the Multi-Linear Regression Model in Section F Commentary of SDI T-CD-2022.

## APPENDIX B

### Diaphragm Shear Strength and Stiffness of Composite Deck-Slabs on Versa-Dek® 3.5 LS Composite Acoustical (3.5VLSCA)

The diaphragm shear strength and stiffness of composite deck-slabs on Versa-Dek® 3.5 LS Composite Acoustical (3.5VLSCA) shall be calculated in accordance with AISI S310-20 w/S1-22 with the following modifications.

The following nominal shear strengths of support connections shall be multiplied by the reduction coefficient of 0.65:

- the nominal shear strengths, $P_{nf}$ and $P_{nfs}$, of arc spot welds and arc seam welds on steel supports;
- the nominal shear strengths, $P_{nf}$ and $P_{nfs}$, of screws on steel supports governed by the member in contact with screw head and calculated with AISI S100-16 w/S2-20 Eqs. J4.3.1-2 and J4.3.1-4;
- the nominal shear strength of wood support connection for fully penetrated screw or nail controlled by bearing against the deck panel, $P_{nfws}$;
- the nominal shear strength, $P_{nf}$ and $P_{nfs}$, of power-actuated support fasteners.

For screws into steel and wood supports and power-actuated fasteners, the support connection flexibility shall be multiplied by the amplification coefficient of 2.4. For arc spot and arc seam welds, the support connection flexibility of the 20 and 18-gage deck shall be multiplied by the amplification coefficient of 1.5.

**DIVISION: 05 00 00— METALS**
**Section: 05 31 00—Steel Decking**

**REPORT HOLDER:**

**NEW MILLENNIUM BUILDING SYSTEMS, LLC**

**EVALUATION SUBJECT:**

**NEW MILLENNIUM COMPOSITE DECK PANELS: 2.0VSC, 2.0VLSC, 2.0VSESC, 2.0VLSESC, 3.5VLSC, AND 3.5VLSCA**

## 1.0 REPORT PURPOSE AND SCOPE

**Purpose:**

The purpose of this evaluation report supplement is to indicate that the New Millennium Composite Deck Panels, described in ICC-ES evaluation report ESR-2635, have also been evaluated for compliance with the Chicago Construction Code (Title 14 of the Chicago Municipal Code) as noted below.

**Applicable code edition:**

- 2019 *Chicago Building Code, Title 14B* (with Revised April 2022 Supplement)

## 2.0 CONCLUSIONS

The New Millennium Composite Deck Panels, described in Sections 2.0 through 7.0 of the evaluation report ESR-2635, comply with Chapter 22 of the 2019 *Chicago Building Code, Title 14B* (with Revised April 2022 Supplement) and are subject to the conditions of use described in this supplement.

## 3.0 CONDITIONS OF USE

The New Millennium Composite Deck Panels described in this evaluation report supplement must comply with all of the following conditions:

- All applicable sections in the evaluation report ESR-2635.
- The design, installation, conditions of use and identification of the New Millennium Composite Deck Panels must be in accordance with the 2018 *International Building Code®* (IBC) provisions noted in the evaluation report ESR-2635.
- The design, installation and inspection are in accordance with additional requirements of Chapters 16, 17, and 22 of Title 14B, as applicable.

This supplement expires concurrently with the evaluation report, reissued January 2024 and revised August 2024.

**DIVISION: 05 00 00—METALS**
**Section: 05 31 00—Steel Decking**

**REPORT HOLDER:**

**NEW MILLENNIUM BUILDING SYSTEMS, LLC**

**EVALUATION SUBJECT:**

**NEW MILLENNIUM COMPOSITE DECK PANELS: 2.0VSC, 2.0VLSC, 2.0VSESC, 2.0VLSESC, 3.5VLSC, AND 3.5VLSCA**

## 1.0 REPORT PURPOSE AND SCOPE

**Purpose:**

The purpose of this evaluation report supplement is to indicate that New Millennium composite deck panels, described in ICC-ES evaluation report ESR-2635, have also been evaluated for compliance with the code noted below as adopted by the Los Angeles Department of Building and Safety (LADBS).

**Applicable code edition:**

2023 *City of Los Angeles Building Code* (LABC)

## 2.0 CONCLUSIONS

The New Millennium composite deck panels, described in Sections 2.0 through 7.0 of the ICC-ES evaluation report ESR-2635, comply with the LABC Chapter 22, and are subject to the conditions of use described in this supplement.

## 3.0 CONDITIONS OF USE

The New Millennium composite deck panels described in this evaluation report supplement must comply with all of the following conditions:

- The design, installation, conditions of use and identification of the New Millennium composite deck panels are in accordance with the 2021 *International Building Code*® (IBC) provisions noted in the evaluation report ESR-2635.
- The design, installation and inspection are in accordance with additional requirements of LABC Chapters 16, 17, 22 and City of Los Angeles Information Bulletin P/BC 2023-046, as applicable.
- When exposed to weather, the deck units shall be galvanized.

This supplement expires concurrently with the evaluation report, reissued January 2024 and revised August 2024.

**DIVISION: 05 00 00—METALS**
**Section: 05 31 00—Steel Decking**

**REPORT HOLDER:**

**NEW MILLENNIUM BUILDING SYSTEMS, LLC**

**EVALUATION SUBJECT:**

**NEW MILLENNIUM COMPOSITE DECK PANELS: 2.0VSC, 2.0VLSC, 2.0VSESC, 2.0VLSESC, 3.5VLSC, AND 3.5VLSCA**

## 1.0 REPORT PURPOSE AND SCOPE

**Purpose:**

The purpose of this evaluation report supplement is to indicate that the New Millennium composite deck panels described in ICC-ES evaluation report ESR-2635 have also been evaluated for compliance with the code noted below.

**Applicable code edition:**

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 and 2.2 below.

## 2.0 CONCLUSIONS

The New Millennium composite deck panels, described in Sections 2.0 through 7.0 of the ICC-ES evaluation report ESR-2635, 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 the CBC Chapters 16, 17 and 22, as applicable.

### 2.1 OSHPD:

The New Millennium composite deck panels, described in sections 2.0 through 7.0 of the evaluation report ESR-2635, comply with CBC amended Chapters 16, 17 and 22, and Chapters 16A, 17A 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 in Sections 2.1.1 and 2.1.2 of this supplement:

#### 2.1.1 Condition of Use:

1. All loads applied to the deck panels shall be determined by the registered design professional and shall comply with the applicable loads from CBC amended sections in Chapter 16 and Chapter 16A.
2. The maximum span-depth ratio for diaphragms shall not exceed the values determined in accordance with Section 1604A.3.8 [OSHPD 1 & 4].
3. Attachment of decks to exterior walls shall be in accordance with Sections 1604A.8.2 and 1604A.8.3 [OSHPD 1 & 4].
4. Structures assigned to Seismic Design Category D, E or F having structural irregularity Type 1b of Table 12.3-1 or vertical structural irregularities Type 1b, 5a or 5b of Table 12.3-2 of ASCE 7-16 shall not be permitted, except as specified in Section 1617A.1.10 [OSHPD 1 & 4].

**2.1.2 Special Inspection Requirements:**

1. Periodic special inspections shall be required in accordance with Sections 1705A.12.2 and 1705A.13.3 [OSHPD 1 & 4].
2. Deck weld (if any) special inspection shall satisfy the requirements in Table 1705A.2.1 and Section 1705A.2.5 as specified in Section 1705A.2.2 [OSHPD 1 & 4].

**2.2 DSA:**

The New Millennium composite deck panels, described in sections 2.0 through 7.0 of the evaluation report ESR-2635, comply with CBC amended Chapters 16 and 22, and Chapters 16A, 17A 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 in Sections 2.2.1 and 2.2.2 of this supplement:

**2.2.1 Condition of Use:**

1. All loads applied to the deck panels shall be determined by the registered design professional and shall comply with the applicable loads from CBC amended sections in Chapter 16 and Chapter 16A.
2. The maximum span-depth ratio for diaphragms shall not exceed the values determined in accordance with Section 1604A.3.8 [DSA-SS].
3. Attachment of decks to exterior walls shall be in accordance with Sections 1604A.8.2 and 1604A.8.3 [DSA-SS].
4. Structures assigned to Seismic Design Category D, E or F having structural irregularity Type 1b of Table 12.3-1 or vertical structural irregularities Type 1b, 5a or 5b of Table 12.3-2 of ASCE 7-16 shall not be permitted, except as specified in Section 1617A.1.10 [DSA-AC].

**2.2.2 Special Inspection Requirements:**

1. Periodic special inspections shall be required in accordance with Sections 1705A.12.2 and 1705A.13.3 [DSA-SS/CC].
2. Deck weld (if any) special inspection shall satisfy the requirements in Table 1705A.2.1 and Section 1705A.2.5 as specified in Section 1705A.2.2 [DSA-SS/CC].

This supplement expires concurrently with the evaluation report, reissued January 2024 and revised August 2024.

# ICC-ES Evaluation Report

# ESR-2635 FBC Supplement

*Reissued January 2024*
*Revised August 2024*
*This report is subject to renewal January 2026.*

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**DIVISION: 05 00 00—METALS**
**Section: 05 31 00—Steel Decking**

**REPORT HOLDER:**

**NEW MILLENNIUM BUILDING SYSTEMS, LLC**

**EVALUATION SUBJECT:**

**NEW MILLENNIUM COMPOSITE DECK PANELS: 2.0VSC, 2.0VLSC, 2.0VSESC, 2.0VLSESC, 3.5VLSC, AND 3.5VLSCA**

## 1.0 REPORT PURPOSE AND SCOPE

**Purpose:**

The purpose of this evaluation report supplement is to indicate that New Millennium steel floor deck panels, described in ICC-ES evaluation report ESR-2635, has also been evaluated for compliance with the code noted below.

**Applicable code edition:**

2023 *Florida Building Code—Building*

## 2.0 CONCLUSIONS

The steel deck panels, described in Sections 2.0 through 7.0 of ICC-ES evaluation report ESR-2635, comply with the *Florida Building Code—Building*. The design requirements shall be determined in accordance with the *Florida Building Code—Building*. The installation requirements noted in ICC-ES evaluation report ESR-2635 for the 2018 *International Building Code®* meet the requirements of the *Florida Building Code—Building*.

Use of the steel deck panels has also been found to be in compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building* except that the protection of metal must be in accordance with Section 2222.6 of the *Florida Building Code—Building*.

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 January 2024 and revised August 2024.