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ESR-1844

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DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES

SECTION: 06 16 00—SHEATHING

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

SECTION: 07 46 46—FIBER-CEMENT SIDING

REPORT HOLDER:

JAMES HARDIE BUILDING PRODUCTS INC

**10901 ELM AVENUE
FONTANA, CALIFORNIA 92337**

EVALUATION SUBJECT:

**HARDIEPANEL® (PREVAIL™, CEMPANEL®) SIDING, HARDIFLEX® SIDING AND
HARDITEX® BASEBOARD**



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**DIVISION: 06 00 00—WOOD, PLASTICS AND
COMPOSITES****Section: 06 16 00—Sheathing****DIVISION: 07 00 00—THERMAL AND MOISTURE
PROTECTION****Section: 07 46 46—Fiber-Cement Siding****REPORT HOLDER:**

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EVALUATION SUBJECT:**HARDIEPANEL® (PREVAIL™, CEMPANEL®) SIDING,
HARDIFLEX® SIDING AND HARDITEX® BASEBOARD****1.0 EVALUATION SCOPE****Compliance with the following codes:**

- 2012, 2009 and 2006 *International Building Code*® (IBC)
- 2012, 2009 and 2006 *International Residential Code*® (IRC)
- 2006 *International Energy Conservation Code*® (IECC)
- 2013 *Abu Dhabi International Building Code* (ADIBC)[†]

[†]The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

Properties evaluated:

- Weather protection
- Structural
- Noncombustible (Types I, II, III and IV) construction
- Fire-resistance-rated construction
- Thermal resistance

2.0 USES

The James Hardie fiber-cement panels described in this report are used as exterior wall coverings. The panels may be used in fire-resistance-rated construction as set forth in Section 4.3 and may be used on exterior walls of Types I, II, III, IV and V construction.

3.0 DESCRIPTION**3.1 General:**

The panels are single-faced, cellulose fiber-reinforced

cement (fiber-cement) products identified as HardiePanel® (Prevail™, Cempanel®) panel siding, Hardiflex® panel siding and Harditex® Baseboard; and are supplied either unprimed or primed for subsequent application of a compatible primer and/or exterior-grade top coat(s).

The panels comply with ASTM C1186, Grade II, Type A. They have a nominal density of 83 lbs/ft³; a flame-spread index of 5 or less and a smoke-developed index of 50 or less when tested in accordance with ASTM E84; and are classified as noncombustible when tested in accordance with ASTM E136. Thermal conductance (*K*) and thermal resistance (*R*) values for the panels are as shown in Table 2. When tested in accordance with ASTM E96, products with a thickness of 1/4 inch (6.4 mm) and 5/16 inch (7.5 mm) have permeance values given in Table 3.

3.2 Materials:

3.2.1 HardiePanel® (Prevail™, Cempanel®) Siding: HardiePanel® Prevail™, Cempanel® siding is available with various surface textures including smooth. Nominal product dimensions are noted in Table 1 of this report.

3.2.2 Hardiflex® Siding: Hardiflex® siding is available in various textures including smooth. Nominal product dimensions are noted in Table 1 of this report.

3.2.3 Harditex® Baseboard: Harditex® Baseboard is used as a starter strip for exterior applications of walls and soffits. Harditex® Baseboard has an untextured finish and is available with either tapered or trough edges on the two long sides for joint treatment or all square edges. Harditex® Baseboard is supplied either sealed or unsealed for the subsequent application of a primer or sealer by the end user as a component in a direct-applied exterior coating or finish system. Nominal dimensions are noted in Table 1 of this report.

3.3 Fasteners:

Fastener type, size and spacing must be as shown in Table 4.

4.0 DESIGN AND INSTALLATION**4.1 Design:**

The maximum basic wind speeds for positive and negative transverse load resistance are presented in Table 4.

4.2 Installation:

4.2.1 General: The manufacturer's published installation instructions and this report must be strictly adhered to and a copy of this report and the instructions must be available on the jobsite during construction. The panels must be installed in accordance with IBC Section 1405.15 and IRC

Tables R703.4 and R703.10.2, and the manufacturer's installation instructions.

4.2.2 HardiePanel® (Prevail™, Cempanel®) Siding: The panels are applied with the long dimension either parallel or perpendicular to framing. Vertical joints are fastened at abutting sheet edges. Vertical joints must occur over framing members except where the panels are installed and fastened to wood structural panel sheathing in accordance with Table 4. The vertical joints must be sealed with caulking and covered with battens, or must be designed to comply with IBC Section 1403.2 and IRC Section R703.1 Horizontal joints must be flashed with Z-flashing. Fasteners must be installed with a minimum $\frac{3}{8}$ -inch (9.5 mm) edge distance and a minimum 2-inch (51 mm) clearance from corners. Where a specified level of wind resistance is required, the panel siding is attached to framing members, appropriately spaced, with fastener types, lengths, and spacing described in Table 4.

4.2.3 Hardiflex® Siding: The panels are applied with the long dimension either parallel or perpendicular to framing and with all panel edges supported by framing. Fasteners must be installed with a minimum $\frac{3}{8}$ -inch (9.5 mm) edge distance and a minimum 2-inch (51 mm) clearance from corners. Joints must be fastened at abutting sheet edges. Vertical joints must occur over framing members and must be protected by PVC joint treatment, lumber battens, or sealant. Horizontal joints must be flashed with metal Z-flashing and blocked with solid framing. Where a specified level of wind resistance is required, the panel siding is attached to framing members, appropriately spaced, with fastener types, lengths, and spacing as noted in Table 4.

4.2.4 Harditex® Baseboard: The panels are applied with the long dimension either parallel or perpendicular to framing and with all panel edges supported by framing. Vertical and horizontal joints must be sealed with a sealant or bedding compound, including any required joint reinforcing mesh or tape, specified by the coating or finish system manufacturer. Fasteners must be installed with a minimum $\frac{3}{8}$ -inch (9.5 mm) edge distance and a minimum 2-inch (51 mm) clearance from corners. Where a specified level of wind resistance is required, the baseboard is attached to framing members, appropriately spaced, with fasteners types, lengths, and spacing as noted in Table 4.

4.3 Fire-resistance-rated Assemblies:

4.3.1 Assembly 1—One-hour Asymmetrical Nonload-bearing:

4.3.1.1 Interior Face: The asymmetrical, nonload-bearing, one-hour fire-resistance-rated wall assembly consists of minimum $3\frac{5}{8}$ -inch-deep (92 mm), No. 20 gage [0.0359-inch (0.91 mm)] steel "C" studs spaced at a maximum of 24 inches (610 mm) on center, with corresponding top and bottom tracks. One layer of $\frac{5}{8}$ -inch-thick (15.9 mm), Type X gypsum board complying with ASTM C1396, 48 inches (1219 mm) wide, is applied vertically to the interior side of the studs and secured with $1\frac{1}{4}$ -inch-long (32 mm), Type S, gypsum board screws, spaced 8 inches (203 mm) on center at board edges and 12 inches (305 mm) on center at intermediate framing members. All board joints must be backed by framing members. The $\frac{5}{8}$ -inch-thick (15.9 mm) gypsum board joints and screw heads must be finished in accordance with ASTM C840.

4.3.1.2 Exterior Face: The exterior side of the studs must be covered with one layer of $\frac{1}{2}$ -inch-thick (12.7 mm), Type X, water-resistant gypsum board complying with ASTM

C1396, followed by one layer of minimum $\frac{1}{4}$ -inch-thick (6.4 mm) HardiePanel® (Prevail™, Cempanel®), or Hardiflex® siding or Harditex® Baseboard. The Type X gypsum boards must be applied vertically to framing members with vertical edges staggered 24 inches (610 mm). The $\frac{1}{2}$ -inch-thick (12.7 mm), Type X gypsum board must be fastened to the framing members with $1\frac{1}{4}$ -inch-long (32 mm), Type S, gypsum board screws spaced 24 inches (610 mm) on center. All gypsum board joints must be backed by framing members. HardiePanel® (Prevail™, Cempanel®), or Hardiflex® siding and Harditex® Baseboards, must be fastened through the gypsum board to the framing members with minimum $1\frac{5}{8}$ -inch-long (41 mm) by minimum 0.323-inch (8.2 mm) HD self-drilling, corrosion-resistant, ribbed buglehead or ribbed waferhead screws located a maximum of 8 inches (203 mm) on center. HardiePanel® (Prevail™, Cempanel®), Hardiflex® siding and Harditex® Baseboard joints require treatment similar to that described in Sections 4.2.2, 4.2.3 and 3.2.3, respectively.

4.3.2 Assembly 2—One-hour Nonload-bearing: The nonload-bearing, one-hour, fire-resistance-rated wall assembly consists of minimum $3\frac{5}{8}$ -inch-deep (92 mm), No. 20 gage [0.0359 inch (0.91 mm)], steel "C" studs spaced at a maximum of 24 inches (610 mm) on center, with corresponding top and bottom tracks. Both sides of the wall must be covered with one layer of $\frac{1}{2}$ -inch-thick (12.7 mm), Type X gypsum board (interior side)/gypsum sheathing (exterior side) complying with ASTM C1396, followed by one layer of minimum $\frac{1}{4}$ -inch-thick (6.4 mm) HardiePanel® (Prevail™, Cempanel®), or Hardiflex® siding, or Harditex® Baseboard. The panels must be applied either perpendicular (horizontally) or parallel (vertically) to framing members. All board joints must be backed by framing. Base layer and face layer board joints of both wall sides must be offset by 24 inches (610 mm). The $\frac{1}{2}$ -inch-thick (12.7 mm), Type X gypsum board/sheathing must be fastened to the framing members with minimum 1-inch-long (25.4 mm), Type S, gypsum board screws spaced a maximum of 24 inches (610 mm) on center. The panels must be fastened through the gypsum board to the framing members with minimum $1\frac{5}{8}$ -inch-long (41 mm) by minimum 0.323-inch (8.2 mm) HD self-drilling, corrosion-resistant, ribbed, buglehead or ribbed waferhead screws located a maximum of 8 inches (203 mm) on center. Panel joints and fasteners require treatment similar to that described in Section 4.2.2, 4.2.3 or 4.2.4, of this report.

5.0 CONDITIONS OF USE

The HardiePanel® (Prevail™, Cempanel®) and Hardiflex® panel sidings, and Harditex® baseboard products, 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 panels must be installed in accordance with the applicable code, this report and the manufacturer's published installation instructions. In the event of a conflict between this report and the manufacturer's instructions, this report governs.
- 5.2** Design wind loads applied to the siding panels must be determined in accordance with the applicable code and must be equal to, or less than, the allowable loads shown in Table 4.
- 5.3** Use of the products listed in this report as a lateral-force-resisting element of a shear wall that resists wind or seismic forces is beyond the scope of this

report. Walls must be braced by other means as required by the applicable code.

- 5.4 The exterior plank and panel products installed on exterior walls must be installed over a weather-resistive barrier in accordance with applicable codes.

In jurisdictions adopting the 2012 IBC, vertical and lateral flame propagation, exterior walls on buildings of Type I, II, III or IV construction that are greater than 40 feet (12 192 mm) in height above grade plane and that contain a combustible water-resistive barrier must be shown to comply with NFPA 285.

- 5.5 Flashing must be installed at all penetrations and terminations in accordance with the applicable code and the manufacturer's instructions.
- 5.6 The products are manufactured at the following locations under a quality control program with inspections by ICC-ES:
 - Cleburne, Texas
 - Plant City, Florida
 - Tacoma, Washington

- Waxahachie, Texas
- Peru, Illinois
- Pulaski, Virginia
- Sparks, Nevada
- Fontana, California

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Fiber Cement Siding Used as Exterior Wall Siding (AC90), dated June 2012.

7.0 IDENTIFICATION

For field identification, James Hardie Building Products, Inc., HardiePanel® (Prevail™, Cempanel®) and Hardiflex® panel sidings, and Harditex® baseboards, must bear a label with the manufacturer's name and telephone number, the product name, and the evaluation report number (ESR-1844).

TABLE 1—STANDARD NOMINAL PANEL DIMENSIONS^{1,2}

PRODUCT	WIDTH (inches)	LENGTH (feet)	THICKNESSES (inch)
HardiePanel® siding	48	8, 9 & 10	1/4 & 5/16
Cempanel® siding	48	8, 9, 10, 12	5/16
Prevail™ siding	48	8, 10, & 12	5/16
Hardiflex® panel	48	8, 9 & 10	1/4 & 5/16
Harditex® baseboard	48	8, 9 & 10	1/4 & 5/16

For SI: 1 inch = 25.4 mm, 1 ft = 305 mm.

TABLE 2—“K” and “R” VALUES FOR FIBER-CEMENT PRODUCTS

PRODUCT THICKNESS ³ (inch)	THERMAL CONDUCTANCE ¹ K _{eff} = Btu/hr-ft ² -°F	THERMAL RESISTANCE ¹ R = 1/K _{eff}	ACTUAL THERMAL CONDUCTANCE ² (K _{eff})	ACTUAL THERMAL RESISTANCE ² (R)
1/4	1.95	0.51	7.80	0.13
5/16	2.07	0.48	6.62	0.15

For SI: 1 inch = 25.4 mm, 1 Btu/h-ft²-°F = 5.678 W/m²-K.

¹Based on 1 inch of panel thickness.
²Actual value for panel thickness shown.

TABLE 3—PERMEANCE VALUES FOR FIBER-CEMENT PRODUCTS

PRODUCT THICKNESS ¹ (inch)	PERMEANCE (perms)
1/4	1.75
5/16	1.54

For SI: 1 inch = 25.4 mm, 1 perm = 57 mg/(s·m²·Pa).

TABLE 4—MAXIMUM WIND SPEEDS FOR EXPOSURE CATEGORY (mph)²

Product	Minimum Product Thickness (in.)	Fastener Type	Fastener Spacing (in.)	Frame Type	Stud Spacing (in.)	Building Height (ft.)	2012 IRC, 2009 IBC/IRC, 2006 IBC/IRC (Basic Wind Speed, $V_{asd}^{1,5,8}$)			2012 IBC (Ultimate Design Wind Speed, $V_{ult}^{6,7}$)		
							EXPOSURE CATEGORY			EXPOSURE CATEGORY		
							B	C	D	B	C	D
Hardiflex® HardiePanel™	¼	4d common, 1½-in long	8	2 x 4 wood ³	16	20	105	-	-	136	-	-
						40	95	-	-	123	-	-
						60	85	-	-	110	-	-
Hardiflex® HardiePanel™	¼	4d common, 1½-in long	8	2 x 4 wood ³	24	20	85	-	-	110	-	-
						40						
						60						
Hardiflex® HardiePanel™	¼	6d common, 2 in. long	6	2 x 4 wood ³	16	20	137	116	-	177	150	-
						40	137	105	-	177	136	-
						60	137	105	-	177	136	-
Hardiflex® HardiePanel™	¼	No. 11 ga. x 1¼-in. long galvanized roofing nail	6	2 x 4 wood ³	16	20	126	95	-	163	123	-
						40	121	95	-	156	123	-
Hardiflex® HardiePanel™ Harditex®	¼	No. 11 ga. x 1¼-in. long galvanized roofing nail	6	2 x 4 wood ³	24	20	95	-	-	123	-	-
						40	95	-	-	123	-	-
Hardiflex® HardiePanel™ Harditex®	¼	No. 11 ga. x 1¼-in. long galvanized roofing nail	4 edge, 12 field	2 x 4 wood ³	16	20	137	105	-	177	136	-
						40	137	105	-	177	136	-
						60	126	95	-	163	123	-
Hardiflex® HardiePanel™	5/16	0.091-in. shank x .225-in HD x 1½-in. long ring shank nail	4 edge, 8 field	2 x 4 wood ³	16	20	112	98	90	145	127	116
						40	107	92	85	138	119	110
						60	101	88	-	130	114	-
Hardiflex® HardiePanel™	5/16	4d common, 1½-in long	8	2 x 4 wood ³	16	40	126	95	-	163	123	-
						60						
Hardiflex® HardiePanel™	5/16	4d common, 1½-in long	8	2 x 4 wood ³	24	20	105	-	-	136	-	-
						40	95	-	-	123	-	-
Hardiflex® HardiePanel™	5/16	6d common, 2 in. long	4	2 x 4 wood ³	16	0-15	181	164	149	234	212	192
						20	181	159	146	234	205	188
						40	174	148	137	225	191	177
						60	164	142	132	212	183	170
Hardiflex® HardiePanel™	5/16	6d common, 2 in. long	4	2 x 4 wood ³	24	0-15	141	128	116	182	165	150
						20	141	124	113	182	160	146
						40	135	116	107	174	150	138
						60	128	111	103	165	143	133
Hardiflex® HardiePanel™	5/16	6d common, 2 in. long	6	2 x 4 wood ³	16	0-15	144	130	118	186	168	152
						20	144	127	116	186	164	150
						40	138	118	109	178	152	141
						60	130	113	105	168	146	136
Hardiflex® HardiePanel™	5/16	6d common, 2 in. long	6	2 x 4 wood ³	24	0-15	114	103	94	147	133	121
						20	114	101	92	147	130	119
						40	109	94	86	141	121	111
						60	103	90	-	133	116	-

TABLE 4—MAXIMUM WIND SPEEDS FOR EXPOSURE CATEGORY (mph)² (Continued)

Product	Minimum Product Thickness (in.)	Fastener Type	Fastener Spacing (in.)	Frame Type	Stud Spacing (in.)	Building Height (ft.)	2012 IRC, 2009 IBC/IRC, 2006 IBC/IRC (Basic Wind Speed, $V_{asd}^{1,5,8}$)			2012 IBC (Ultimate Design Wind Speed, $V_{ult}^{6,7}$)		
							EXPOSURE CATEGORY			EXPOSURE CATEGORY		
							B	C	D	B	C	D
Hardiflex® HardiePanel™	5/16	6d common, 2 in. long	6 edge, 12 field	2 x 4 wood ³	16	40	137	105	-	177	136	-
						60	126	100	-	163	129	-
Hardiflex® HardiePanel™	5/16	0.091-in. shank x .225-in HD x 1½-in. long ring shank nail	3 edge, 8 field	2 x 4 wood ⁴	16	20	126	95	-	163	123	-
						40	110	90	-	142	116	-
HardiePanel™	5/16	No. 8 X 1-5/8 in. long X 0.375 in. HD ribbed waferhead screw	6" OC vertically / 12" OC horizontally	Attached to 7/16" wood structural panel sheathing only	7/16" WSP attached per code	0-15	150	136	123	194	176	159
						20	150	132	120	194	170	155
						40	143	123	113	185	159	146
Hardiflex® HardiePanel™	¼	Min. No. 8 x 1-in. long x 0.323-in. HD ribbed buglehead screw	6	Min. No. 20 ga. X 3 ⁵ / ₈ in. x 1 ³ / ₈ in. metal C-stud	16	20	137	105	-	177	136	-
						40	126	105	-	163	136	-
						60	116	95	-	150	123	-
Hardiflex® HardiePanel™	¼	Min. No. 8 x 1-in. long x 0.323-in. HD ribbed buglehead screw	6	Min. No. 20 ga. X 3 ⁵ / ₈ in. x 1 ³ / ₈ in. metal C-stud	24	20	105	85	-	136	110	-
						40	95	-	-	123	-	-
Hardiflex® HardiePanel™	5/16	ET & F 0.10-in. knurled shank x 1½-in. long x 0.25-in. HD pin fastener (AKN100-0150NA)	4 edge, 8 field	Min. No. 20 ga. X 3 ⁵ / ₈ in. x 1 ³ / ₈ in. metal C-stud	16	15	153	139	127	198	179	164
						20	153	135	124	198	174	160
						40	147	126	116	190	163	150
Hardiflex® HardiePanel™	5/16	ET & F 0.10-in. knurled shank x 1½-in. long x 0.25-in. HD pin fastener (AKN100-0150NA)	4 edge, 8 field	Min. No. 20 ga. X 3 ⁵ / ₈ in. x 1 ³ / ₈ in. metal C-stud	24	15	118	107	98	152	138	127
						20	118	104	95	152	134	123
						40	114	97	90	147	125	116
						60	107	93	87	138	120	112

For SI: 1 ft = 305 mm, 1 inch = 25.4 mm, 1 mph = 0.44 m/s.

¹ Wind speed design assumptions per Section 6.5, Method 2, of ASCE 7-05: I = 1.0, Kzt = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.

² Installation must be in accordance with Section 4.2 of this report.

³ Values are for species of wood having a specific gravity of 0.42 or greater.

⁴ Values are for species of wood having a specific gravity of 0.36 or greater.

⁵ Vasd = nominal design wind speed.

⁶ Vult = ultimate design wind speed

⁷ Wind speed design assumptions per Section 30.4, of ASCE 7-10: Kzt = 1, Kd = 0.85, GCpi = 0.18, GCp = -1.4.

⁸ 2012 IBC Section 1609.3.1, Eqn. 16-33, $V_{asd} = V_{ult} \sqrt{0.6}$

ICC-ES Evaluation Report**ESR-1844 CBC and CRC Supplement**

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DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES
Section: 06 16 00—Sheathing**DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION**
Section: 07 46 46—Fiber-Cement Panels**REPORT HOLDER:****JAMES HARDIE BUILDING PRODUCTS, INC.**
10901 ELM AVENUE
FONTANA, CALIFORNIA 92337
(909) 356-6300
www.jameshardie.com
info@jhresearchusa.com**EVALUATION SUBJECT:****HARDIEPANEL® (PREVAIL™, CEMPANEL®) SIDING, HARDIFLEX® SIDING AND HARDITEX® BASEBOARD****1.0 REPORT PURPOSE AND SCOPE****Purpose:**

The purpose of this evaluation report supplement is to indicate that HardiePanel® (Prevail™, Cempanel®) siding, HardiFlex® siding and Harditex® baseboard, recognized in ICC-ES master evaluation report ESR-1844, have also been evaluated for compliance with Chapters 7A and 14 of the *California Building Code*® (CBC) and with Chapters R3 and R7 of the *California Residential Code*® (CRC).

Applicable code edition(s):

- 2013 and 2010 *California Building Code*® (CBC)
- 2013 and 2010 *California Residential Code*® (CRC)

2.0 CONCLUSIONS**2.1 CBC:**

The HardiePanel® (Prevail™, Cempanel®) siding, HardiFlex® siding and Harditex® baseboard, described in Sections 2.0 through 7.0 of the master evaluation report ESR-1844, may be used where noncombustible or ignition-resistant exterior walls complying with Chapter 7A and 14 of the CBC are required, provided installation is in accordance with the master report and the additional requirements in Sections 1405.16 and 1405.17 of the CBC.

The use of the products in construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland–Urban Interface Area requires installation in accordance with the master report and the additional requirements of CBC Sections 701A.3, 704A.3, 707A.3 as applicable.

The products recognized in this supplement have not been evaluated for compliance with the *International Wildland–Urban Interface Code*®.

2.2 CRC:

The HardiePanel® (Prevail™, Cempanel®) siding, HardiFlex® siding and Harditex® baseboard, described in Sections 2.0 through 7.0 of the master evaluation report ESR-1844, may be used where noncombustible or ignition-resistant exterior walls complying with Chapter R3 and R7 of the CRC are required, provided installation is in accordance with the master report and the additional requirements in Section R703.10 of the CRC.

The use of the products in construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland–Urban Interface Area requires installation in accordance with the master report and the additional requirements of CRC Sections R327.1.1.3.1, R327.4.3 and R327.7 as applicable.

The products recognized in this supplement have not been evaluated for compliance with the *International Wildland–Urban Interface Code*[®].

This supplement expires concurrently with the master report reissued November 2015.