U.S. DEPARTMENT OF HOMELAND SECURITY Federal Emergency Management Agency National Flood Insurance Program

OMB No. 1660-0008 Expiration Date: November 30, 2018

ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1-9.

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

SECTION A - PROPERTY INFORMATION				FOR INSURANCE COMPANY USE			
A1. Building Owner's Name						Policy Num	
Mungo Hom					·		
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Company NAIC Numbe 3100 Kingswood Drive					IAIC Number:		
City	City State ZIP Code						
Richmond Hi	1			Georgia		31324	
	A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Lot 378, Buckhead East, Section 2 - Phase 5, 20th G.M. District, Bryan County, Georgia, PIN: 061-66-007-378 (SMB 673, Pages 7-8)						
A4. Building Use	(e.g., Resident	ial, Non-Residential, A	ddition	, Accessory, etc.)	Residential		
A5. Latitude/Long	itude: Lat. 3	31.88197 L	ong.	-81.24741	Horizontal Datum	n:	1927 ⊠ NAD 1983
A6. Attach at leas	t 2 photograph	ns of the building if the	Certific	ate is being used to			
A7. Building Diag	am Number	1B					
A8. For a building	with a crawls	pace or enclosure(s):					
a) Square fo	stage of crawls	space or enclosure(s)		N/A sq ft			
b) Number of	permanent flo	od openings in the cra	wlspac	e or enclosure(s) wi	ithin 1.0 foot above	adjacent gr	ade N/A
c) Total net a	rea of flood op	enings in A8.b N//	A s	q in			
d) Engineere	d flood openin	gs? ☐ Yes ☒ No	,				
A9. For a building	with an attach	ed garage:					
a) Square for	a) Square footage of attached garage 425 sq ft						
b) Number o	b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade 4						
c) Total net a	rea of flood op	enings in A9.b 80	0	sq in			
d) Engineere	d flood openin	gs? ⊠ Yes □ No	· · · · · ·	- '			
SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION							
		ommunity Number		B2. County Name			B3. State
Bryan	County 13	0016		<u> </u>	Bryan		Georgia
B4. Map/Panel Number	B5, Suffix	B6. FIRM Index Date	E	IRM Panel ffective/ evised Date	B8. Flood Zone(s	Ö (Zo	se Flood Elevation(s) ne AO, use Base od Depth)
13029C0325	С	May 5, 2014	М	arch 2, 2009	AE		13.0'
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:							
☐ FIS Profile ☐ FIRM ☐ Community Determined ☐ Other/Source:							
B11. Indicate elevation datum used for BFE in Item B9: NGVD 1929 NAVD 1988 Other/Source:							
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? 🔲 Yes 🔀 No							
Designation Date: CBRS OPA							
							ļ

ELEVATION CERTIFICATE

OMB No. 1660-0008 Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy the corresponding information				
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or	P.O. Route and Box No. Policy Number:			
3100 Kingswood Drive				
City State	ZIP Code Company NAIC Number			
Richmond Hill Georgia	31324			
SECTION C – BUILDING ELEVATION IN	FORMATION (SURVEY REQUIRED)			
C1. Building elevations are based on: Construction Drawings*	☐ Building Under Construction* ☐ Finished Construction			
*A new Elevation Certificate will be required when construction of				
	specified in Item A7. In Puerto Rico only, enter meters. al Datum:NAVD 88			
Indicate elevation datum used for the elevations in items a) throug NGVD 1929 NAVD 1988 Dother/Source:	h h) below.			
Datum used for building elevations must be the same as that used				
a) Top of bottom floor (including basement, crawlspace, or enclose)	Check the measurement used.			
	24 6			
b) Top of the next higher floor	X leet			
c) Bottom of the lowest horizontal structural member (V Zones or	10 5			
d) Attached garage (top of slab)	125 feet			
 e) Lowest elevation of machinery or equipment servicing the built (Describe type of equipment and location in Comments) 	ling146			
f) Lowest adjacent (finished) grade next to building (LAG)	118 feet meters			
g) Highest adjacent (finished) grade next to building (HAG)	120 🔀 feet 🗌 meters			
 h) Lowest adjacent grade at lowest elevation of deck or stairs, inc structural support 	sluding N/A feet meters			
SECTION D - SURVEYOR, ENGINEER,	OR ARCHITECT CERTIFICATION			
This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.				
Were latitude and longitude in Section A provided by a licensed land s				
Certifier's Name License Nu	mber			
Randall A. Richter GA# 3279	CEORG/			
Title Professional Surveyor	G REGISTERED A			
Company Name	// * / * * * * \			
Coleman Company Inc.	No. 003279			
Address				
17 Park of Commerce Boulevard, Suite 201	By Tho SURVEYOR			
City State	ZIP Code 31405			
Savannah GA	31405			
Signature Date	Telephone			
Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.				
Comments (including type of equipment and location, per C2(e), if applicable)				
Section A9d: Garage vented by (4) engineered vents. (2) FloodVENT, model 1540-520 and (2) FloodVENT Overhead Door, model 1540-524. Section B9: A 1' (one foot) freeboard is required by the Bryan County Damage Prevention Ordinance. Section C2: Benchmark utilized was from Subdivision Map Book 673, Pages 7-8. Section C2e: Lowest elevation of machinery servicing building is top of HVAC compressor pad.				
	· ·			

ELEVATION CERTIFICATE

OMB No. 1660-0008 Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy the correspondi	FOR INSURANCE COMPANY USE			
Building Street Address (including Apt., Unit, Suite, and	Policy Number:			
3100 Kingswood Drive				
City	tate	ZIP Code	Company NAIC Number	
Richmond Hill	Georgia	31324		
SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)				
For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1–E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.				
E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).				
a) Top of bottom floor (including basement, crawlspace, or enclosure) is		feet mete	rs above or below the HAG.	
 b) Top of bottom floor (including basement, crawlspace, or enclosure) is 		[] feet [] mete	rs 🔲 above or 🔲 below the LAG.	
E2. For Building Diagrams 6–9 with permanent flood or	eninas provided in	Section A Items 8 and/or	9 (see pages 1–2 of Instructions).	
the next higher floor (elevation C2.b in the diagrams) of the building is	,			
E3. Attached garage (top of slab) is	,			
E4. Top of platform of machinery and/or equipment servicing the building is		feet _ mete		
E5. Zone AO only: If no flood depth number is available		ottom floor elevated in ac		
SECTION F – PROPERTY OWN	ER (OR OWNER'S	REPRESENTATIVE) C	ERTIFICATION	
	· · · · · · · · · · · · · · · · · · ·	·		
The property owner or owner's authorized representative community-issued BFE) or Zone AO must sign here. The	e wno completes Se e statements in Sec	ections A, B, and E for Zo tions A, B, and E are co	rrect to the best of my knowledge.	
Property Owner or Owner's Authorized Representative's	s Name	······································		
Address	City	S	ate ZIP Code	
Signature	Date) Te	elephone	
Comments				
			1	
			1	

ELEVATION CERTIFICATE

OMB No. 1660-0008 Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy the corre	FOR INSURANCE COMPANY USE				
Building Street Address (including Apt., Unit, St 3100 Kingswood Drive	No. Policy Number:				
City Richmond Hill	State ZIP Code Georgia 31324	Company NAIC Number			
	N G - COMMUNITY INFORMATION (OPTIC	DNAL)			
The local official who is authorized by law or or Sections A, B, C (or E), and G of this Elevation used in Items G8–G10. In Puerto Rico only, en	dinance to administer the community's floodpl Certificate. Complete the applicable item(s) a	lain management ordinance can complete			
G1. The information in Section C was take engineer, or architect who is authorized that in the Comments area below.)	en from other documentation that has been si ed by law to certify elevation information. (Ind	gned and sealed by a licensed surveyor, icate the source and date of the elevation			
G2. A community official completed Section Zone AO.	on E for a building located in Zone A (without	a FEMA-issued or community-issued BFE)			
G3. The following information (Items G4–	G10) is provided for community floodplain ma	nagement purposes.			
G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate of Compliance/Occupancy Issued			
G7. This permit has been issued for:	New Construction Substantial Improvem	pent			
G8. Elevation of as-built lowest floor (including of the building:	p basement)	feet meters Datum			
G9. BFE or (in Zone AO) depth of flooding at t	the building site:	feet meters Datum			
G10. Community's design flood elevation:	·	feet meters Datum			
Local Official's Name	Title				
Community Name	Telephone				
Signature	Date				
Comments (including type of equipment and loc	cation, per C2(e), if applicable)				
		Check here if attachments.			

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

See Instructions for Item A6.

OMB No. 1660-0008 Expiration Date: November 30, 2018

IMPORTANT: In these spaces, cop	FOR INSURANCE COMPANY USE		
Building Street Address (including A 3100 Kingswood Drive	Policy Number:		
City Richmond Hill	State Georgia	ZIP Code 31324	Company NAIC Number

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.



Photo One Caption

FRONT RIGHTVIEW 7/11/2017



Photo Two Caption

REAR LEFT VIEW 7/11/2017

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

OMB No. 1660-0008 Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy	FOR INSURANCE COMPANY USE		
Building Street Address (including Ap 3100 Kingswood Drive	Policy Number:		
City	State	ZIP Code	Company NAIC Number
Richmond Hill	Georgia	31324	

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8.



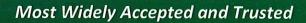
Photo One Caption

VENTS 7/11/2017



Photo Two Caption

VENTS 7/11/2017





ICC-ES Report

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ESR-2074

Reissued 02/2017 This report is subject to renewal 02/2019.

DIVISION: 08 00 00—OPENINGS

SECTION: 08 95 43—VENTS/FOUNDATION FLOOD VENTS

REPORT HOLDER:

SMARTVENT PRODUCTS, INC.

430 ANDBRO DRIVE, UNIT 1 **PITMAN, NEW JERSEY 08071**

EVALUATION SUBJECT:

SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1540-574; #1540-524; #1540-514



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ICC-ES Evaluation Report

ESR-2074

Reissued February 2017

This report is subject to renewal February 2019.

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A Subsidiary of the International Code Council®

DIVISION: 08 00 00—OPENINGS

Section: 08 95 43-Vents/Foundation Flood Vents

REPORT HOLDER:

SMARTVENT PRODUCTS, INC. 430 ANDBRO DRIVE, UNIT 1 PITMAN, NEW JERSEY 08071 (877) 441-8368 www.smartvent.com info@smartvent.com

EVALUATION SUBJECT:

SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1540-574; #1540-524; #1540-514

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2015, 2012, 2009 and 2006 International Building Code® (IBC)
- 2015, 2012, 2009 and 2006 International Residential Code® (IRC)
- 2013 Abu Dhabi International Building Code (ADIBC)^T

[†]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:

- Physical operation
- Water flow

2.0 USES

The Smart Vent® units are engineered mechanically operated flood vents (FVs) employed to equalize hydrostatic pressure on walls of enclosures subject to rising or falling flood waters. Certain models also allow natural ventilation.

3.0 DESCRIPTION

3.1 General:

When subjected to rising water, the Smart Vent[®] FVs internal floats are activated, then pivot open to allow flow in either direction to equalize water level and hydrostatic pressure from one side of the foundation to the other. The FV pivoting door is normally held in the closed position by a buoyant release device. When subjected to rising water, the buoyant release device causes the unit to unlatch, allowing the door to rotate out of the way and allow flow.

The water level stabilizes, equalizing the lateral forces. Each unit is fabricated from stainless steel. Smart Vent® Automatic Foundation Flood Vents are available in various models and sizes as described in Table 1. The SmartVENT® Stacking Model #1540-511 and FloodVENT® Stacking Model #1540-521 units each contain two vertically arranged openings per unit.

3.2 Engineered Opening:

The FVs comply with the design principle noted in Section 2.7.2.2 and Section 2.7.3 of ASCE/SEI 24-14 [Section 2.6.2.2 of ASCE/SEI 24-05 (2012, 2009, 2006 IBC and IRC)] for a maximum rate of rise and fall of 5.0 feet per hour (0.423 mm/s). In order to comply with the engineered opening requirement of ASCE/SEI 24, Smart Vent FVs must be installed in accordance with Section 4.0.

3.3 Ventilation:

The SmartVENT® Model #1540-510 and SmartVENT® Overhead Door Model #1540-514 both have screen covers with ¹/₄-inch-by-¹/₄-inch (6.35 by 6.35 mm) openings, yielding 51 square inches (32 903 mm²) of net free area to supply natural ventilation. The SmartVENT® Stacking Model #1540-511 consists of two Model #1540-510 units in one assembly, and provides 102 square inches (65 806 mm²) of net free area to supply natural ventilation. Other FVs recognized in this report do not offer natural ventilation.

4.0 DESIGN AND INSTALLATION

SmartVENT® and FloodVENT® are designed to be installed into walls or overhead doors of existing or new construction from the exterior side. Installation of the vents must be in accordance with the manufacturer's instructions, the applicable code and this report. Installation clips allow mounting in masonry and concrete walls of any thickness. In order to comply with the engineered opening design principle noted in Section 2.7.2.2 and 2.7.3 of ASCE/SEI 24-14 [Section 2.6.2.2 of ASCE/SEI 24-05 (2012, 2009, 2006 IBC and IRC)], the Smart Vent® FVs must be installed as follows:

- With a minimum of two openings on different sides of each enclosed area.
- With a minimum of one FV for every 200 square feet (18.6 m²) of enclosed area, except that the SmartVENT® Stacking Model #1540-511 and FloodVENT® Stacking Model #1540-521 must be installed with a minimum of one FV for every 400 square feet (37.2 m²) of enclosed area.
- Below the base flood elevation.



With the bottom of the FV located a maximum of 12 inches (305.4 mm) above the higher of the final grade or floor and finished exterior grade immediately under each opening.

5.0 CONDITIONS OF USE

The Smart Vent® FVs 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 Smart Vent® FVs must be installed in accordance with this report, the applicable code and the manufacturer's installation instructions. In the event of a conflict, the instructions in this report govern.
- 5.2 The Smart Vent® FVs must not be used in the place of "breakaway walls" in coastal high hazard areas, but

are permitted for use in conjunction with breakaway walls in other areas.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Mechanically Operated Flood Vents (AC364), dated August 2015.

7.0 IDENTIFICATION

The Smart VENT® models recognized in this report must be identified by a label bearing the manufacturer's name (Smartvent Products, Inc.), the model number, and the evaluation report number (ESR-2074).

TABLE 1—MODEL SIZES

MODEL NAME	MODEL NUMBER	MODEL SIZE (in.)	COVERAGE (sq. ft.)
FloodVENT®	1540-520	15 ³ / ₄ " X 7 ³ / ₄ "	200
SmartVENT®	1540-510	15 ³ / ₄ " X 7 ³ / ₄ "	200
FloodVENT® Overhead Door	1540-524	15 ³ / ₄ " X 7 ³ / ₄ "	200
SmartVENT® Overhead Door	1540-514	15 ³ / ₄ " X 7 ³ / ₄ "	200
Wood Wall FloodVENT®	1540-570	14" X 8 ³ / ₄ "	200
Wood Wall FloodVENT® Overhead Door	1540-574	14" X 8 ³ / ₄ "	200
SmartVENT [®] Stacker	1540-511	16" X 16"	400
FloodVent® Stacker	1540-521	16" X 16"	400

For Si: 1 inch = 25.4 mm; 1 square foot = m^2

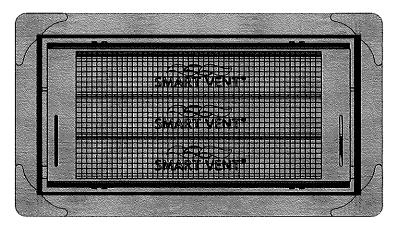


FIGURE 1-SMART VENT: MODEL 1540-510

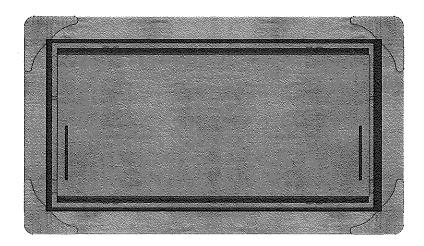


FIGURE 2-SMART VENT MODEL 1540-520

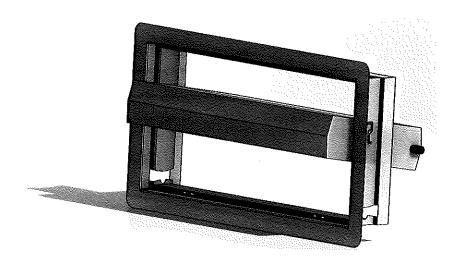


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN



ICC-ES Evaluation Report

ESR-2074 CBC and CRC Supplement

Issued January 2017

This report is subject to renewal February 2019.

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A Subsidiary of the International Code Council®

DIVISION: 08 00 00—OPENINGS

Section: 08 95 43—Vents/Foundation Flood Vents

REPORT HOLDER:

SMARTVENT PRODUCTS, INC. 430 ANDBRO DRIVE, UNIT 1 PITMAN, NEW JERSEY 08071 (877) 441-8368 www.smartvent.com info@smartvent.com

EVALUATION SUBJECT:

SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1540-574; #1540-524; #1540-514

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Smart Vent® Automatic Foundation Flood Vents, recognized in ICC-ES master evaluation report ESR-2074, have also been evaluated for compliance with codes noted below.

Applicable code edition:

- 2016 California Building Code (CBC)
- 2016 California Residential Code (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The Smart Vent® Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2074, comply with 2016 CBC Chapter 12, provided the design and installation are in accordance with the 2015 International Building Code® (IBC) provisions noted in the master report and the additional requirements of CBC Chapters 12, 16 and 16A, as applicable.

The products recognized in this supplement have not been evaluated under CBC Chapter 7A for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area.

2.2 CRC:

The Smart Vent® Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2074, comply with the 2016 CRC, provided the design and installation are in accordance with the 2015 *International Residential Code*® (IRC) provisions noted in the master report.

The products recognized in this supplement have not been evaluated under 2016 CRC Chapter R337, for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area.

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 February 2017.





ICC-ES Evaluation Report

ESR-2074 FBC Supplement

Reissued February 2017

This report is subject to renewal February 2019.

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A Subsidiary of the International Code Council®

DIVISION: 08 00 00—OPENINGS

Section: 08 95 43—Vents/Foundation Flood Vents

REPORT HOLDER:

SMARTVENT PRODUCTS, INC. 430 ANDBRO DRIVE, UNIT 1 **PITMAN, NEW JERSEY 08071** (877) 441-8368 www.smartvent.com info@smartvent.com

EVALUATION SUBJECT:

SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1540-574; #1540-524; #1540-514

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Smart Vent® Automatic Foundation Flood Vents, recognized in ICC-ES master report ESR-2074, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2014 Florida Building Code—Building (FBC)
- 2014 Florida Building Code—Residential (FRC)

2.0 CONCLUSIONS

The Smart Vent® Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2074, comply with the FBC and the FRC, provided the design and installation are in accordance with the International Building Code® provisions noted in the master report.

Use of the Smart Vent® Automatic Foundation Flood Vents has also been found to be in compliance with the High-Velocity Hurricane Zone provisions of the FBC and the FRC.

For products falling under Florida Rule 9N-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 master report, reissued February 2017.

