

## ICC-ES Legacy Report

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 Legacy report on the 1997 *Uniform Building Code™*
**DIVISION: 07—THERMAL AND MOISTURE PROTECTION  
Section: 07410—Metal Roof and Wall Panels**
**METL-SPAN III CF/CFA COMPOSITE FOAM PANELS  
(M-20S CFP/CFAP)**
**METL-SPAN I, LTD.  
1497 NORTH KEALY AVENUE  
LEWISVILLE, TEXAS 75057**
**1.0 SUBJECT**

Metl-Span III CF/CFA Composite Foam Panels (M-S CFP/CFAP).

**2.0 DESCRIPTION**
**2.1 General:**

The Metl-Span M-S III CFP and CFAP composite foam panels are factory-assembled, metal-faced, sandwich panels with a chemically bonded, continuously foamed-in-place plastic core. The panels are used as interior and exterior, nonload-bearing wall or fascia systems for combustible and noncombustible construction. Panels have model numbers CF-30, CF-36, CF-42, CFA-30, CFA-36, and CFA-42, which correspond to standard 30-, 36- and 42-inch (762, 914 and 1067 mm) widths. Panel thicknesses are 2, 2½ and 3 inches (51, 63.5 and 76 mm) for noncombustible construction, and 2, 2½, 3, 4, 5 and 6 inches (51, 63.5, 76, 102, 127 and 152 mm) for combustible construction. Maximum panel length is 52 feet (15 850 mm). The panels recognized in this report have identical side joints and liner profiles; the difference between the panels is the exterior fascia skin. Three exterior fascia profiles are available: Fluted, Mesa, and Architectural Flat. See Figure 1 for panel profiles.

**2.2 Materials:**

**2.2.1 Panel Core:** The core is a polyurethane foam plastic, designated FE-219 or FE-242 (both manufactured by Foam Enterprises, Inc.) and having a 2.0-pcf (32 kg/m<sup>3</sup>) nominal density. The foam plastic has a Class I flame-spread classification and a smoke-developed rating of less than 450 when tested in accordance with UBC Standard 8-1. The foam plastic is continuously foamed-in-place into the core of the panel during panel fabrication.

**2.2.2 Panel Facings:** Panel facing material is steel conforming to ASTM A 653 (SQ), 33 grade, with ASTM A 924, Class G 90 galvanization. Facing material thickness is No. 26, No. 24 or No. 22 gage, with an uncoated metal

thickness of 0.019, 0.024 or 0.0300 inch (0.483, 0.610 or 0.762 mm). The panel skin material facing the exterior of the building is called "Fascia Skin," and the panel skin material facing the interior of the building is called "Liner Skin." The fascia and liner skins can have equal or different thicknesses. The three types of fascia skin profiles are denoted by a single character, as follows:

- A = "Architectural Flat" profile, having a maximum width of 36 inches (914 mm).
- F = "Fluted" profile, having a maximum width of 42 inches (1067 mm).
- M = "Mesa" profile, having a maximum width of 42 inches (1067 mm).

For example, product designation CF-42-FM-22/26 indicates a composite foam panel that has a 42-inch (1067 mm) panel cover width, "Fluted" fascia profile and "Mesa" liner profile, and No. 22 gage [0.030 inch (0.762 mm)] and No. 26 gage [0.019 inch (0.483 mm)] fascia and liner skin steel thicknesses, respectively.

**2.2.3 U-Clips:** The U-clips are galvanized or stainless steel, and measure 1 inch (25.4 mm) wide by 4 inches (102 mm) long by No. 14 gage [0.068 inch (1.727 mm)]. See Figures 2 and 3 for details of the U-clip and its application.

**2.2.4 Clip Fasteners:** Screws used to attach the panels to steel supports are minimum No. 14, self-tapping or self-drilling screws, and must comply with SAE J78, 1979 Standard Specification for Self-Drilling Tapping Screws. The screws used with the panels must be sufficiently long to penetrate the structural supporting member.

**2.2.5 Expansion Fasteners:** Fab-lok® expansion anchors used to support the panels have three different grip ranges: 0 to ¼ inch (0 to 6.4 mm), ¼ to ½ inch (6.4 to 12.7 mm), and ½ to ¾ inch (12.7 to 19 mm).

**2.2.6 Sealants:** Butyl caulk is used for panel joints, and butyl sealant tape is used for trim.

**2.2.7 Flashing:** Flashing material is steel having the same finish, color, texture, and gage as the panel fascia skin.

**2.3 Installation:**

The panels are placed with the longitudinal joint oriented in the vertical or horizontal position. Individual panels may span one, two, three or more spans. The panels are

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erected from left to right or from bottom to top, leading with the male edge. See Figure 2 for typical panel layout. The panels are fastened to structural girts by means of self-tapping screws and U-clip fasteners placed in the tongue-and-groove joint of the panels.

These structural fasteners mechanically fasten both the fascia (exterior) and the liner (interior) metallic sheets to the structural girts. The side joints of the panels have a  $\frac{1}{4}$ -inch (6.4 mm) bead of butyl sealant that is either factory- or field-applied into one or both of the grooves of the panels. During erection, the side joints of adjacent panels are firmly interlocked to make continuous contact with the sealant. Erection proceeds along the wall elevation, with the installation of successive panels in accordance with the published Metl-Span installation guide. Expansion fasteners are used to attach the liner facing to framing supports as required by the approved structural design. See Figure 3 for panel joint details and Figure 4 for attachment details.

Flashing must be placed at the building base and at eaves, openings, and horizontal and vertical corners. The flashing is attached to the panels with self-tapping, self-drilling screws or pop rivets in accordance with the published Metl-Span installation guide.

#### 2.4 Allowable Panel Capacity:

Allowable panel capacity is based on panel stiffness, panel bending and shear strength, and panel connection capacity. Tables 1 through 27 show allowable wind pressures based on panel stiffness, panel strength, and fastener capacity. The lowest value from the tables in this evaluation report governs the allowable capacity of the panel and its attachments. Allowable loads for panels having No. 24 gage thick [0.024 inch (0.610 mm)] facings can be conservatively based on allowable loads associated with panels having No. 26 gage thick [0.019 inch (0.483 mm)] facings.

An analysis must be submitted to the building official showing that the panel system, including fasteners and structural framing members, provides a complete load path capable of transferring all loads and forces from their point of origin to load-resisting elements.

#### 2.5 Noncombustible Construction:

Panels having a panel thickness of 2, 2 $\frac{1}{2}$  or 3 inches (51, 63.5 or 76 mm) are permitted to be used in noncombustible construction.

#### 2.6 Combustible Construction:

Panels having a panel thickness of 2, 2 $\frac{1}{2}$ , 3, 4, 5 or 6 inches (51, 63.5, 76, 102, 127 or 152 mm) are permitted to be used in combustible construction.

#### 2.7 One-hour Fire-resistive Nonload-bearing-wall Construction:

One-hour fire-resistive nonload-bearing-wall construction consists of one minimum-3-inch-thick (76 mm) Metl-Span III CF or CFA composite foam wall panel, and two layers of  $\frac{5}{8}$ -inch-thick (15.9 mm), Type X gypsum wallboard complying with ASTM C 36, attached to the interior side of the wall panel. Each CF and CFA composite foam wall

panel must have a minimum 42-inch (1067 mm) width, except at wall terminations and openings, where the width of the panels may be less than 42 inches (1067 mm). The maximum span of the panels is governed by structural considerations.

The first layer of  $\frac{5}{8}$ -inch-thick (15.9 mm), Type X gypsum wallboard must be mechanically fastened to the wall panels with  $\frac{1}{8}$ -inch-long (41.3 mm), No. 6, self-tapping drywall screws spaced 20 inches (508 mm) on center vertically and spaced 24 inches (610 mm) on center horizontally. The second layer of  $\frac{5}{8}$ -inch-thick (15.9 mm), Type X gypsum wallboard is installed with staggered joints spaced 24 inches (610 mm) on center, and is attached to the wall panels through the first layer using  $\frac{1}{8}$ -inch-long (48 mm), No. 6, self-tapping drywall screws vertically spaced 8 inches (203 mm) on center at the perimeter and 12 inches (305 mm) on center in the field, with columns spaced 16 inches (406 mm) on center. Wallboard joints on the second layer must be taped and treated with joint compound complying with ASTM C 474 and C 475. The exposed screw heads on the second layer are permitted to be treated with joint compound only.

#### 2.8 Identification:

Each panel is identified on the edge or on the face with the quality control inspection agency name (SWRI), product name, insulation manufacturer name, and flame-spread and smoke-development ratings. The panel package identifies the evaluation report number (PFC-5384), panel thickness, panel width, fascia/liner profile, and fascia/liner facing steel thickness.

### 3.0 EVIDENCE SUBMITTED

Reports of tests in conformance with UBC Standards 7-1, 26-1 and 26-4; and data in accordance with the Acceptance Criteria for Sandwich Panels (AC04), dated July 1996, and the Acceptance Criteria for Foam Plastic Insulation (AC12), dated July 2001.

### 4.0 FINDINGS

That the Metl-Span III CF/CFA Composite Foam Panels (M-S CFP/CFAP) described in this report comply with the 1997 *Uniform Building Code*<sup>TM</sup>, subject to the following conditions:

- 4.1 Plans and details on wall framing and panel attachment are approved by the building official before panel installation.
- 4.2 Panels are fabricated by Metl-Span I, Ltd., at their manufacturing plant located in Lewisville, Texas, under a quality control program with inspections by Southwest Research Institute (AA-665).
- 4.3 Panels are installed in accordance with this report and the manufacturer's published installation instructions.
- 4.4 The panels are limited to nonload-bearing wall applications.
- 4.5 The plans approved by the building official must identify the panel thickness, panel width, fascia/liner profile, and fascia/liner facing steel thickness.

TABLE 1—MAXIMUM ALLOWABLE WIND PRESSURES FOR METL-SPAN III CF COMPOSITE FOAM WALL PANEL<sup>1,2</sup>

Panel Thickness: 2 inches  
 Panel Width: 30 inches (CF-30) or 36 inches (CF-36)  
 Fascia/liner Profile: Mesa/Mesa  
 Fascia/liner Steel Thickness: 26/26 gage

SPAN (feet)	NUMBER OF SPANS	LIMITING CRITERIA							
		Panel Stiffness and Strength		Panel Connection Strength <sup>3</sup>					
		L/180	Strength	Pattern 1		Pattern 2		Pattern 3	
				CF-30	CF-36	CF-30	CF-36	CF-30	CF-36
		Allowable Negative and Positive Wind Pressure (psf)							
5	1	99	104	44	36	66	55	90	75
	2	114	90	52	43	78	65	91	76
	3	115	89	52	43	79	65	98	81
6	1	71	87	36	30	55	46	75	62
	2	88	73	44	36	64	54	75	62
	3	87	74	44	37	66	55	81	67
7	1	53	74	31	26	47	39	64	53
	2	69	62	37	31	54	45	63	52
	3	68	63	38	32	57	48	69	57
8	1	40	65	27	23	41	34	56	46
	2	56	54	32	27	47	39	55	45
	3	53	55	33	28	50	42	60	50
9	1	30	58	24	20	36	30	50	41
	2	45	47	28	23	42	35	48	40
	3	43	48	30	25	45	37	53	44
10	1	24	47	22	18	33	27	45	37
	2	37	42	25	21	37	31	43	36
	3	35	43	27	22	40	34	48	40
11	1	19	39	20	16	30	25	40	34
	2	31	38	23	19	34	28	39	32
	3	28	39	24	20	37	31	44	36
12	1	15	33	18	15	27	23	37	31
	2	26	35	21	17	31	25	36	30
	3	23	36	22	19	34	28	40	33

For **SI**: 1 foot = 305 mm, 1 psf = 47.9 Pa, 1 inch = 25.4 mm.

<sup>1</sup>The lowest value from the panel strength and stiffness columns and the panel-connection strength columns shall be used to derive the allowable design load for the panel system.

<sup>2</sup>For unequal multiple spans, the maximum span must be used for all spans before using the design table.

<sup>3</sup>See Figure 4 for details

**TABLE 2—MAXIMUM ALLOWABLE WIND PRESSURES FOR METL-SPAN III CF COMPOSITE FOAM WALL PANEL<sup>1,2</sup>**  
**Panel Thickness: 2 inches**  
**Panel Width: 30 inches (CF-30) or 36 inches (CF-36)**  
**Fascia/liner Profile: Architectural/Mesa**  
**Fascia/liner Steel Thickness: 22/26 gage**

SPAN (feet)	NUMBER OF SPANS	LIMITING CRITERIA							
		Panel Stiffness and Strength		Panel Connection Strength <sup>3</sup>					
		L/180	Strength	Pattern 1		Pattern 2		Pattern 3	
				CF-30	CF-36	CF-30	CF-36	CF-30	CF-36
Allowable Negative and Positive Wind Pressure (psf)									
5	1	110	107	44	37	66	55	90	75
	2	123	93	52	43	77	64	93	77
	3	124	92	52	43	78	65	98	82
6	1	81	89	37	30	55	46	75	62
	2	95	76	44	37	65	54	76	63
	3	95	76	44	37	66	55	81	68
7	1	61	76	31	26	47	39	64	53
	2	76	64	38	31	55	46	64	53
	3	75	65	38	32	57	47	69	58
8	1	47	66	27	23	41	34	56	47
	2	62	56	33	27	48	40	55	46
	3	60	56	33	28	50	42	60	50
9	1	36	53	24	20	36	30	50	41
	2	51	49	29	24	42	35	49	41
	3	49	50	30	25	45	37	54	45
10	1	29	43	22	18	33	27	45	37
	2	42	44	26	21	38	31	43	36
	3	40	45	27	22	40	34	48	40
11	1	23	36	20	16	30	25	40	34
	2	36	40	23	19	34	28	39	33
	3	33	41	24	20	37	31	44	36
12	1	19	30	18	15	27	23	37	31
	2	30	34	21	17	31	26	36	30
	3	28	37	22	19	34	28	40	33

For **SI**: 1 foot = 305 mm, 1 psf = 47.9 Pa, 1 inch = 25.4 mm.

<sup>1</sup>The lowest value from the panel strength and stiffness columns and the panel-connection strength columns shall be used to derive the allowable design load for the panel system.

<sup>2</sup>For unequal multiple spans, the maximum span must be used for all spans before using the design table.

<sup>3</sup>See Figure 4 for details of Metl-Span fastening patterns.

**TABLE 3—MAXIMUM ALLOWABLE WIND PRESSURES FOR METL-SPAN III CF COMPOSITE FOAM WALL PANEL<sup>1,2</sup>**

**Panel Thickness: 2 inches**  
**Panel Width: 42 inches (CF-42)**  
**Fascia/liner Profile: Flute/Mesa or Mesa/Mesa**  
**Fascia/liner Steel Thickness: 26/26 gage**

SPAN (feet)	NUMBER OF SPANS	LIMITING CRITERIA				
		Panel Stiffness and Strength		Panel Connection Strength <sup>3</sup>		
		L/180	Strength	Pattern 1	Pattern 2	Pattern 3
		Allowable Negative and Positive Wind Pressure (psf)				
5	1	98	102	31	47	64
	2	113	88	37	56	65
	3	113	88	37	56	70
6	1	70	84	26	39	53
	2	87	72	31	46	53
	3	86	73	31	47	58
7	1	52	61	22	33	46
	2	68	61	26	39	45
	3	67	62	27	41	49
8	1	39	47	19	29	40
	2	55	53	23	34	39
	3	53	54	24	36	43
9	1	30	37	17	26	35
	2	45	44	20	30	34
	3	42	48	21	32	38
10	1	24	30	15	23	32
	2	34	37	18	26	31
	3	34	40	19	29	34
11	1	19	25	14	21	29
	2	31	28	16	24	28
	3	28	32	17	26	31
12	1	15	21	13	19	26
	2	26	23	15	22	25
	3	23	27	16	24	28

For SI: 1 foot = 305 mm, 1 psf = 47.9 Pa, 1 inch = 25.4 mm.

<sup>1</sup>The lowest value from the panel strength and stiffness columns and the panel-connection strength columns shall be used to derive the allowable design load for the panel system.

<sup>2</sup>For unequal multiple spans, the maximum span must be used for all spans before using the design table.

<sup>3</sup>See Figure 4 for details of Metl-Span fastening patterns.

**TABLE 4—MAXIMUM ALLOWABLE WIND PRESSURES FOR METL-SPAN III CF COMPOSITE FOAM WALL PANEL<sup>1,2</sup>**

**Panel Thickness: 2.5 inches**  
**Panel Width: 30 inches (CF-30) or 36 inches (CF-36)**  
**Fascia/liner Profile: Mesa/Mesa**  
**Fascia/liner Steel Thickness: 26/26 gage**

SPAN (feet)	NUMBER OF SPANS	LIMITING CRITERIA							
		Panel Stiffness and Strength		Panel Connection Strength <sup>3</sup>					
		L/180	Strength	Pattern 1		Pattern 2		Pattern 3	
				CF-30	CF-36	CF-30	CF-36	CF-30	CF-36
Allowable Negative and Positive Wind Pressure (psf)									
5	1	116	106	50	42	72	60	96	80
	2	126	93	58	48	83	69	101	84
	3	127	92	59	49	84	70	107	89
6	1	87	88	42	35	60	50	80	66
	2	99	76	49	41	71	59	83	69
	3	99	76	50	41	71	59	88	73
7	1	66	75	36	30	51	43	68	57
	2	79	64	43	36	61	51	70	58
	3	79	64	43	36	62	51	75	63
8	1	52	66	31	26	45	37	60	50
	2	65	56	37	31	53	44	60	50
	3	64	56	38	31	54	45	66	55
9	1	41	59	28	23	40	33	53	44
	2	54	49	33	27	46	38	53	44
	3	53	50	34	28	49	40	58	48
10	1	32	53	25	21	36	30	48	40
	2	45	44	29	24	41	34	47	39
	3	44	44	30	25	44	36	52	43

(Continued)

**TABLE 4—MAXIMUM ALLOWABLE WIND PRESSURES FOR METL-SPAN III CF COMPOSITE FOAM WALL PANEL<sup>1,2</sup>—(Continued)**  
 Panel Thickness: 2.5 inches  
 Panel Width: 30 inches (CF-30) or 36 inches (CF-36)  
 Fascia/liner Profile: Mesa/Mesa  
 Fascia/liner Steel Thickness: 26/26 gage

SPAN (feet)	NUMBER OF SPANS	LIMITING CRITERIA							
		Panel Stiffness and Strength		Panel Connection Strength <sup>3</sup>					
		L/180	Strength	Pattern 1		Pattern 2		Pattern 3	
				CF-30	CF-36	CF-30	CF-36	CF-30	CF-36
Allowable Negative and Positive Wind Pressure (psf)									
11	1	26	48	22	19	32	27	43	36
	2	39	39	26	22	37	31	43	36
	3	37	40	28	23	40	33	47	39
12	1	21	40	21	17	30	25	40	33
	2	33	36	24	20	34	28	39	32
	3	31	37	25	21	37	30	43	36

For SI: 1 foot = 305 mm, 1 psf = 47.9 Pa, 1 inch = 25.4 mm.

<sup>1</sup>The lowest value from the panel strength and stiffness columns and the panel-connection strength columns shall be used to derive the allowable design load for the panel system.

<sup>2</sup>For unequal multiple spans, the maximum span must be used for all spans before using the design table.

<sup>3</sup>See Figure 4 for details of Metl-Span fastening patterns.

**TABLE 5—MAXIMUM ALLOWABLE WIND PRESSURES FOR METL-SPAN III CF COMPOSITE FOAM WALL PANEL<sup>1,2</sup>**  
 Panel Thickness: 2.5 inches  
 Panel Width: 30 inches (CF-30) or 36 inches (CF-36)  
 Fascia/liner Profile: Architectural/Mesa  
 Fascia/liner Steel Thickness: 22/26 gage

SPAN (feet)	NUMBER OF SPANS	LIMITING CRITERIA							
		Panel Stiffness and Strength		Panel Connection Strength <sup>3</sup>					
		L/180	Strength	Pattern 1		Pattern 2		Pattern 3	
				CF-30	CF-36	CF-30	CF-36	CF-30	CF-36
Allowable Negative and Positive Wind Pressure (psf)									
5	1	125	108	50	42	72	60	96	80
	2	133	97	57	47	82	68	103	86
	3	134	95	58	48	84	70	108	90
6	1	95	90	42	35	60	50	80	67
	2	105	79	49	40	70	58	84	70
	3	106	78	49	41	71	59	89	74
7	1	74	77	36	30	51	43	69	57
	2	85	66	43	35	61	51	71	59
	3	85	66	43	36	61	51	76	63
8	1	58	67	31	26	45	37	60	50
	2	70	57	38	31	53	44	61	51
	3	70	57	38	31	54	45	66	55
9	1	47	60	28	23	40	33	53	44
	2	59	50	33	28	47	39	54	45
	3	58	51	34	28	48	40	58	49
10	1	38	49	25	21	36	30	48	40
	2	50	45	30	25	42	35	48	40
	3	49	45	30	25	44	36	52	44
11	1	31	41	23	19	33	27	43	36
	2	43	41	27	22	38	31	43	36
	3	41	41	28	23	40	33	48	40
12	1	26	34	21	17	30	25	40	33
	2	37	37	24	20	34	29	39	33
	3	35	38	25	21	37	31	44	36

For SI: 1 foot = 305 mm, 1 psf = 47.9 Pa, 1 inch = 25.4 mm.

<sup>1</sup>The lowest value from the panel strength and stiffness columns and the panel-connection strength columns shall be used to derive the allowable design load for the panel system.

<sup>2</sup>For unequal multiple spans, the maximum span must be used for all spans before using the design table.

<sup>3</sup>See Figure 4 for details of Metl-Span fastening patterns.

**TABLE 6—MAXIMUM ALLOWABLE WIND PRESSURES FOR METL-SPAN III CF COMPOSITE FOAM WALL PANEL<sup>1,2</sup>**

**Panel Thickness: 2.5 inches  
 Panel Width: 42 inches (CF-42)  
 Fascia/liner Profile: Flute/Mesa or Mesa/Mesa  
 Fascia/liner Steel Thickness: 26/26 gage**

SPAN (feet)	NUMBER OF SPANS	LIMITING CRITERIA				
		Panel Stiffness and Strength		Panel Connection Strength <sup>3</sup>		
		L/180	Strength	Pattern 1	Pattern 2	Pattern 3
		Allowable Negative and Positive Wind Pressure (psf)				
5	1	115	104	36	51	68
	2	124	92	41	59	72
	3	126	91	42	60	76
6	1	86	87	30	43	57
	2	98	75	35	50	59
	3	98	75	35	51	63
7	1	66	72	25	36	49
	2	79	64	30	43	50
	3	78	64	30	44	54
8	1	51	55	22	32	43
	2	64	55	26	37	43
	3	64	55	27	39	47
9	1	40	43	20	28	38
	2	54	48	23	33	38
	3	52	49	24	35	41
10	1	32	35	18	25	32
	2	45	43	21	29	34
	3	43	44	22	31	37
11	1	26	29	16	23	29
	2	38	34	19	26	30
	3	36	39	20	28	34
12	1	21	24	15	21	26
	2	30	28	17	24	28
	3	31	32	18	26	31

For **SI**: 1 foot = 305 mm, 1 psf = 47.9 Pa, 1 inch = 25.4 mm.

<sup>1</sup>The lowest value from the panel strength and stiffness columns and the panel-connection strength columns shall be used to derive the allowable design load for the panel system.

<sup>2</sup>For unequal multiple spans, the maximum span must be used for all spans before using the design table.

<sup>3</sup>See Figure 4 for details of Metl-Span fastening patterns.

**TABLE 7—MAXIMUM ALLOWABLE WIND PRESSURES FOR METL-SPAN III CF COMPOSITE FOAM WALL PANEL<sup>1,2</sup>**

**Panel Thickness: 3 inches  
 Panel Width: 30 inches (CF-30) or 36 inches (CF-36)  
 Fascia/liner Profile: Mesa/Mesa  
 Fascia/liner Steel Thickness: 26/26 gage**

SPAN (feet)	NUMBER OF SPANS	LIMITING CRITERIA							
		Panel Stiffness and Strength		Panel Connection Strength <sup>3</sup>					
		L/180	Strength	Pattern 1		Pattern 2		Pattern 3	
				CF-30	CF-36	CF-30	CF-36	CF-30	CF-36
Allowable Negative and Positive Wind Pressure (psf)									
5	1	127	107	56	46	78	65	102	85
	2	134	97	62	52	87	72	111	92
	3	135	95	64	53	89	74	115	96
6	1	98	89	46	38	65	54	85	70
	2	106	79	53	44	74	62	90	75
	3	107	78	54	45	76	63	95	79
7	1	77	76	40	33	55	46	72	60
	2	86	66	47	39	65	54	76	63
	3	87	66	47	39	66	55	81	67
8	1	61	67	35	29	48	40	63	53
	2	72	57	41	34	58	48	66	55
	3	72	57	41	34	58	48	70	59
9	1	49	59	31	25	43	36	56	47
	2	61	50	37	31	51	42	58	48
	3	60	50	37	31	52	43	62	52
10	1	40	53	28	23	39	32	51	42
	2	52	45	33	27	45	38	51	43
	3	51	45	34	28	47	39	56	47

(Continued)

**TABLE 7—MAXIMUM ALLOWABLE WIND PRESSURES FOR METL-SPAN III CF COMPOSITE FOAM WALL PANEL<sup>1,2</sup>—(Continued)**  
**Panel Thickness: 3 inches**  
**Panel Width: 30 inches (CF-30) or 36 inches (CF-36)**  
**Fascia/liner Profile: Mesa/Mesa**  
**Fascia/liner Steel Thickness: 26/26 gage**

SPAN (feet)	NUMBER OF SPANS	LIMITING CRITERIA							
		Panel Stiffness and Strength		Panel Connection Strength <sup>3</sup>					
		L/180	Strength	Pattern 1		Pattern 2		Pattern 3	
				CF-30	CF-36	CF-30	CF-36	CF-30	CF-36
Allowable Negative and Positive Wind Pressure (psf)									
11	1	33	48	25	21	35	29	46	38
	2	44	40	30	25	41	34	46	38
	3	43	41	31	25	43	36	51	42
12	1	28	44	23	19	32	27	42	35
	2	38	37	27	22	37	31	42	35
	3	37	37	28	23	39	33	46	39

For SI: 1 foot = 305 mm, 1 psf = 47.9 Pa, 1 inch = 25.4 mm.

<sup>1</sup>The lowest value from the panel strength and stiffness columns and the panel-connection strength columns shall be used to derive the allowable design load for the panel system.

<sup>2</sup>For unequal multiple spans, the maximum span must be used for all spans before using the design table.

<sup>3</sup>See Figure 4 for details of Metl-Span fastening patterns.

**TABLE 8—MAXIMUM ALLOWABLE WIND PRESSURES FOR METL-SPAN III CF COMPOSITE FOAM WALL PANEL<sup>1,2</sup>**  
**Panel Thickness: 3 inches**  
**Panel Width: 30 inches (CF-30) or 36 inches (CF-36)**  
**Fascia/liner Profile: Architectural/Mesa**  
**Fascia/liner Steel Thickness: 22/26 gage**

SPAN (feet)	NUMBER OF SPANS	LIMITING CRITERIA							
		Panel Stiffness and Strength		Panel Connection Strength <sup>3</sup>					
		L/180	Strength	Pattern 1		Pattern 2		Pattern 3	
				CF-30	CF-36	CF-30	CF-36	CF-30	CF-36
Allowable Negative and Positive Wind Pressure (psf)									
5	1	135	109	56	46	78	65	102	85
	2	140	99	62	51	86	71	112	93
	3	141	97	63	53	88	74	116	96
6	1	105	90	46	39	65	54	85	71
	2	111	81	53	44	73	61	92	76
	3	113	80	54	45	75	62	96	80
7	1	84	77	40	33	55	46	73	60
	2	91	68	46	38	64	53	77	64
	3	92	67	47	39	65	54	82	68
8	1	68	68	35	29	48	40	63	53
	2	76	59	41	34	57	48	67	55
	3	77	58	41	34	58	48	71	59
9	1	55	60	31	26	43	36	56	47
	2	65	52	37	31	51	43	58	49
	3	65	52	37	31	52	43	63	52
10	1	46	54	28	23	39	32	51	42
	2	56	46	33	28	46	38	52	43
	3	55	46	33	28	47	39	56	47
11	1	38	45	25	21	35	29	46	38
	2	48	41	30	25	41	34	47	39
	3	48	42	31	25	43	35	51	42
12	1	32	38	23	19	32	27	42	35
	2	42	38	27	23	38	31	43	35
	3	41	38	28	23	39	33	47	39

For SI: 1 foot = 305 mm, 1 psf = 47.9 Pa, 1 inch = 25.4 mm.

<sup>1</sup>The lowest value from the panel strength and stiffness columns and the panel-connection strength columns shall be used to derive the allowable design load for the panel system.

<sup>2</sup>For unequal multiple spans, the maximum span must be used for all spans before using the design table.

<sup>3</sup>See Figure 4 for details of Metl-Span fastening patterns.

**TABLE 9—MAXIMUM ALLOWABLE WIND PRESSURES FOR METL-SPAN III CF COMPOSITE FOAM WALL PANEL<sup>1,2</sup>**

**Panel Thickness: 3 inches  
 Panel Width: 42 inches (CF-42)  
 Fascia/liner Profile: Flute/Mesa or Mesa/Mesa  
 Fascia/liner Steel Thickness: 26/26 gage**

SPAN (feet)	NUMBER OF SPANS	LIMITING CRITERIA				
		Panel Stiffness and Strength		Panel Connection Strength <sup>3</sup>		
		L/180	Strength	Pattern 1	Pattern 2	Pattern 3
		Allowable Negative and Positive Wind Pressure (psf)				
5	1	126	106	40	55	72
	2	133	96	44	62	79
	3	134	94	46	64	82
6	1	97	88	33	46	60
	2	105	72	38	53	64
	3	106	77	39	54	68
7	1	76	75	28	39	52
	2	86	66	33	46	54
	3	86	65	33	47	58
8	1	61	62	25	34	45
	2	71	57	29	41	47
	3	71	57	29	41	50
9	1	49	49	22	30	40
	2	60	50	26	36	41
	3	60	50	26	37	44
10	1	40	40	20	27	36
	2	51	44	23	32	36
	3	50	45	24	33	40
11	1	33	33	18	25	33
	2	44	40	21	31	33
	3	43	40	22	30	36
12	1	28	27	16	23	30
	2	38	34	19	26	30
	3	37	37	20	28	33

For **SI**: 1 foot = 305 mm, 1 psf = 47.9 Pa, 1 inch = 25.4 mm.

<sup>1</sup>The lowest value from the panel strength and stiffness columns and the panel-connection strength columns shall be used to derive the allowable design load for the panel system.

<sup>2</sup>For unequal multiple spans, the maximum span must be used for all spans before using the design table.

<sup>3</sup>See Figure 4 for details of Metl-Span fastening patterns.

**TABLE 10—MAXIMUM ALLOWABLE WIND PRESSURES FOR METL-SPAN III CFA COMPOSITE FOAM WALL PANEL<sup>1,2</sup>**

**Panel Thickness: 2 inches  
 Panel Width: 30 inches (CFA-30) or 36 inches (CFA-36)  
 Fascia/liner Profile: Mesa/Mesa  
 Fascia/liner Steel Thickness: 26/26 gage**

SPAN (feet)	NUMBER OF SPANS	LIMITING CRITERIA							
		Panel Stiffness and Strength		Panel Connection Strength <sup>3</sup>					
		L/180	Strength	Pattern 1		Pattern 2		Pattern 3	
				CFA-30	CFA-36	CFA-30	CFA-36	CFA-30	CFA-36
Allowable Negative and Positive Wind Pressure (psf)									
5	1	88	74	44	36	66	55	90	75
	2	89	67	52	43	78	65	91	76
	3	99	67	52	43	79	65	98	81
6	1	64	64	36	30	55	46	75	62
	2	77	55	44	36	64	54	75	62
	3	77	55	44	37	66	55	81	67
7	1	48	55	31	26	47	39	64	53
	2	61	47	37	31	54	45	63	52
	3	60	47	38	32	57	48	69	57
8	1	37	48	27	23	41	34	56	46
	2	50	40	32	27	47	39	55	45
	3	48	41	33	28	50	42	60	50
9	1	29	43	24	20	36	30	50	41
	2	41	36	28	23	42	35	48	40
	3	39	36	30	25	45	37	53	44

(Continued)

**TABLE 10—MAXIMUM ALLOWABLE WIND PRESSURES FOR METL-SPAN III CFA—(Continued)**  
**COMPOSITE FOAM WALL PANEL<sup>1,2</sup>**  
**Panel Thickness: 2 inches**  
**Panel Width: 30 inches (CFA-30) or 36 inches (CFA-36)**  
**Fascia/liner Profile: Mesa/Mesa**  
**Fascia/liner Steel Thickness: 26/26 gage**

SPAN (feet)	NUMBER OF SPANS	LIMITING CRITERIA							
		Panel Stiffness and Strength		Panel Connection Strength <sup>3</sup>					
		L/180	Strength	Pattern 1		Pattern 2		Pattern 3	
				CFA-30	CFA-36	CFA-30	CFA-36	CFA-30	CFA-36
Allowable Negative and Positive Wind Pressure (psf)									
10	1	23	39	22	18	33	27	45	37
	2	34	32	25	21	37	31	43	36
	3	32	33	27	22	40	34	48	40
11	1	18	35	20	16	30	25	40	34
	2	28	29	23	19	34	28	39	32
	3	26	30	24	20	37	31	44	36
12	1	15	30	18	15	27	23	37	31
	2	24	26	21	17	31	25	36	30
	3	22	27	22	19	34	28	40	33

For SI: 1 foot = 305 mm, 1 psf = 47.9 Pa, 1 inch = 25.4 mm.

<sup>1</sup>Use the lowest value of each condition for allowable design loads.

<sup>2</sup>For unequal multiple spans, conservatively apply the maximum span to all spans before using the design table, or consult Metl-Span.

<sup>3</sup>See Figure 4 for details of Metl-Span fastening patterns.

**TABLE 11—MAXIMUM ALLOWABLE WIND PRESSURES FOR METL-SPAN III CFA**  
**COMPOSITE FOAM WALL PANEL<sup>1,2</sup>**  
**Panel Thickness: 2 inches**  
**Panel Width: 30 inches (CFA-30) or 36 inches (CFA-36)**  
**Fascia/liner Profile: Architectural/Mesa**  
**Fascia/liner Steel Thickness: 22/26 gage**

SPAN (feet)	NUMBER OF SPANS	LIMITING CRITERIA							
		Panel Stiffness and Strength		Panel Connection Strength <sup>3</sup>					
		L/180	Strength	Pattern 1		Pattern 2		Pattern 3	
				CFA-30	CFA-36	CFA-30	CFA-36	CFA-30	CFA-36
Allowable Negative and Positive Wind Pressure (psf)									
5	1	97	79	44	37	66	55	90	75
	2	105	70	52	43	77	64	93	77
	3	106	69	52	43	78	65	98	77
6	1	72	66	37	30	55	46	75	62
	2	83	57	44	37	65	54	76	63
	3	83	57	44	37	66	55	81	68
7	1	55	57	31	23	47	39	64	53
	2	66	48	38	31	55	46	64	53
	3	66	48	38	32	57	47	69	58
8	1	43	49	27	23	41	34	56	47
	2	54	42	33	27	48	40	55	46
	3	54	42	33	28	50	42	60	50
9	1	34	44	24	20	36	30	50	41
	2	45	37	29	24	42	35	49	41
	3	44	37	30	25	45	37	54	45
10	1	27	40	22	18	33	27	45	37
	2	38	33	26	21	38	31	43	36
	3	37	33	27	22	40	34	48	40
11	1	22	36	20	16	30	25	40	34
	2	32	30	23	19	34	28	39	33
	3	31	30	24	20	37	31	44	36
12	1	18	33	18	15	27	23	37	31
	2	28	27	21	17	31	26	36	30
	3	26	28	22	19	34	28	40	33

For SI: 1 foot = 305 mm, 1 psf = 47.9 Pa, 1 inch = 25.4 mm.

<sup>1</sup>Use the lowest value of each condition for allowable design loads.

<sup>2</sup>For unequal multiple spans, conservatively apply the maximum span to all spans before using the design table, or consult Metl-Span.

<sup>3</sup>See Figure 4 for details of Metl-Span fastening patterns.

**TABLE 12—MAXIMUM ALLOWABLE WIND PRESSURES FOR METL-SPAN III CFA COMPOSITE FOAM WALL PANEL<sup>1,2</sup>**  
 Panel Thickness: 2 inches  
 Panel Width: 42 inches (CFA-42)  
 Fascia/liner Profile: Mesa/Mesa or Flute/Mesa  
 Fascia/liner Steel Thickness: 26/26 gage

SPAN (feet)	NUMBER OF SPANS	LIMITING CRITERIA				
		Panel Stiffness and Strength		Panel Connection Strength <sup>3</sup>		
		L/180	Strength	Pattern 1	Pattern 2	Pattern 3
		Allowable Negative and Positive Wind Pressure (psf)				
5	1	87	76	31	47	64
	2	97	66	37	56	65
	3	98	66	37	56	70
6	1	64	63	26	39	53
	2	76	54	31	46	53
	3	76	54	31	47	58
7	1	48	54	22	33	46
	2	60	46	26	39	45
	3	59	46	27	41	49
8	1	37	47	19	29	40
	2	49	40	23	34	39
	3	48	40	24	36	43
9	1	29	42	17	26	35
	2	40	35	20	30	34
	3	39	36	21	32	38
10	1	23	37	15	23	32
	2	34	31	18	26	31
	3	32	32	19	29	34
11	1	18	31	14	21	29
	2	28	28	16	24	28
	3	26	29	17	26	31
12	1	15	26	13	19	26
	2	24	26	15	22	25
	3	22	27	16	24	28

For SI: 1 foot = 305 mm, 1 psf = 47.9 Pa, 1 inch = 25.4 mm.

<sup>1</sup>Use the lowest value of each condition for allowable design loads.

<sup>2</sup>For unequal multiple spans, conservatively apply the maximum span to all spans before using the design table, or consult Metl-Span.

<sup>3</sup>See Figure 4 for details of Metl-Span fastening patterns.

**TABLE 13—MAXIMUM ALLOWABLE WIND PRESSURES FOR METL-SPAN III CFA COMPOSITE FOAM WALL PANEL<sup>1,2</sup>**  
 Panel Thickness: 2 1/2 inches  
 Panel Width: 30 inches (CFA-30) or 36 inches (CFA-36)  
 Fascia/liner Profile: Mesa/Mesa  
 Fascia/liner Steel Thickness: 26/26 gage

SPAN (feet)	NUMBER OF SPANS	LIMITING CRITERIA							
		Panel Stiffness and Strength		Panel Connection Strength <sup>3</sup>					
		L/180	Strength	Pattern 1		Pattern 2		Pattern 3	
				CFA-30	CFA-36	CFA-30	CFA-36	CFA-30	CFA-36
Allowable Negative and Positive Wind Pressure (psf)									
5	1	110	88	50	42	72	60	96	80
	2	119	78	58	48	83	69	101	84
	3	120	77	59	49	84	70	107	89
6	1	83	73	42	35	60	50	80	66
	2	93	64	49	41	71	59	83	69
	3	94	63	50	41	71	59	88	73
7	1	64	63	36	30	51	43	68	57
	2	75	54	43	36	61	51	70	58
	3	75	54	43	36	62	51	75	63
8	1	50	55	31	26	45	37	60	50
	2	62	46	37	31	53	44	60	50
	3	61	47	38	31	54	45	66	55
9	1	40	49	28	23	40	33	53	44
	2	52	41	33	27	46	38	53	44
	3	51	41	34	28	49	40	58	48

(Continued)

**TABLE 13—MAXIMUM ALLOWABLE WIND PRESSURES FOR METL-SPAN III CFA—(Continued)**  
**COMPOSITE FOAM WALL PANEL<sup>1,2</sup>**  
 Panel Thickness: 2<sup>1</sup>/<sub>2</sub> inches  
 Panel Width: 30 inches (CFA-30) or 36 inches (CFA-36)  
 Fascia/liner Profile: Mesa/Mesa  
 Fascia/liner Steel Thickness: 26/26 gage

SPAN (feet)	NUMBER OF SPANS	LIMITING CRITERIA							
		Panel Stiffness and Strength		Panel Connection Strength <sup>3</sup>					
		L/180	Strength	Pattern 1		Pattern 2		Pattern 3	
				CFA-30	CFA-36	CFA-30	CFA-36	CFA-30	CFA-36
Allowable Negative and Positive Wind Pressure (psf)									
10	1	32	44	25	21	36	30	48	40
	2	44	37	29	24	41	34	47	39
	3	42	37	30	25	44	36	52	43
11	1	26	40	22	19	32	27	43	36
	2	37	33	26	22	37	31	43	36
	3	36	34	28	23	40	33	47	39
12	1	21	35	21	17	30	25	40	33
	2	32	30	24	20	34	28	39	32
	3	30	31	25	21	37	30	43	36

For SI: 1 foot = 305 mm, 1 psf = 47.9 Pa, 1 inch = 25.4 mm.

<sup>1</sup>Use the lowest value of each condition for allowable design loads.

<sup>2</sup>For unequal multiple spans, conservatively apply the maximum span to all spans before using the design table, or consult Metl-Span.

<sup>3</sup>See Figure 4 for details of Metl-Span fastening patterns.

**TABLE 14—MAXIMUM ALLOWABLE WIND PRESSURES FOR METL-SPAN III CFA**  
**COMPOSITE FOAM WALL PANEL<sup>1,2</sup>**  
 Panel Thickness: 2<sup>1</sup>/<sub>2</sub> inches  
 Panel Width: 30 inches (CFA-30) or 36 inches (CFA-36)  
 Fascia/liner Profile: Architectural/Mesa  
 Fascia/liner Steel Thickness: 22/26 gage

SPAN (feet)	NUMBER OF SPANS	LIMITING CRITERIA							
		Panel Stiffness and Strength		Panel Connection Strength <sup>3</sup>					
		L/180	Strength	Pattern 1		Pattern 2		Pattern 3	
				CFA-30	CFA-36	CFA-30	CFA-36	CFA-30	CFA-36
Allowable Negative and Positive Wind Pressure (psf)									
5	1	118	89	50	42	72	60	96	80
	2	125	81	57	47	82	68	103	86
	3	126	79	58	48	84	70	108	90
6	1	91	75	42	35	60	50	80	67
	2	99	66	49	40	70	58	84	70
	3	100	65	49	41	71	59	89	74
7	1	71	64	36	30	51	43	69	57
	2	81	55	43	35	61	51	71	59
	3	81	55	43	36	61	51	76	63
8	1	56	56	31	26	45	37	60	50
	2	67	48	38	31	53	44	61	51
	3	67	48	38	31	54	45	66	55
9	1	45	50	28	23	40	33	53	44
	2	56	42	33	28	47	39	54	45
	3	56	42	34	28	48	40	58	49
10	1	37	45	25	21	36	30	48	40
	2	48	38	30	25	42	35	48	40
	3	47	38	30	25	44	36	52	44
11	1	30	41	23	19	33	27	43	36
	2	41	34	27	22	38	31	43	36
	3	40	34	28	23	40	33	48	40
12	1	25	37	21	17	30	25	40	33
	2	36	31	24	20	34	29	39	33
	3	34	32	25	21	37	31	44	36

For SI: 1 foot = 305 mm, 1 psf = 47.9 Pa, 1 inch = 25.4 mm.

<sup>1</sup>Use the lowest value of each condition for allowable design loads.

<sup>2</sup>For unequal multiple spans, conservatively apply the maximum span to all spans before using the design table or consult Metl-Span.

<sup>3</sup>See Figure 4 for details of Metl-Span fastening patterns.

**TABLE 15—MAXIMUM ALLOWABLE WIND PRESSURES FOR METL-SPAN III CFA COMPOSITE FOAM WALL PANEL<sup>1,2</sup>**  
 Panel Thickness: 2<sup>1</sup>/<sub>2</sub> inches  
 Panel Width: 42 inches (CFA-42)  
 Fascia/liner Profile: Mesa/Mesa or Flute/Mesa  
 Fascia/liner Steel Thickness: 26/26 gage

SPAN (feet)	NUMBER OF SPANS	LIMITING CRITERIA				
		Panel Stiffness and Strength		Panel Connection Strength <sup>3</sup>		
		L/180	Strength	Pattern 1	Pattern 2	Pattern 3
Allowable Negative and Positive Wind Pressure (psf)						
5	1	109	87	36	51	68
	2	117	77	41	59	72
	3	119	76	42	60	76
6	1	82	72	30	43	57
	2	92	63	35	50	59
	3	93	62	35	51	63
7	1	63	62	25	36	49
	2	75	53	30	43	50
	3	75	53	30	44	54
8	1	50	54	22	32	43
	2	62	46	26	37	43
	3	61	46	27	39	47
9	1	40	48	20	28	38
	2	51	40	23	33	38
	3	50	41	24	35	41
10	1	32	43	18	25	32
	2	43	36	21	29	34
	3	42	37	22	31	37
11	1	26	39	16	23	29
	2	37	33	19	26	30
	3	35	33	20	28	34
12	1	21	34	15	21	26
	2	32	30	17	24	28
	3	30	30	18	26	31

For SI: 1 foot = 305 mm, 1 psf = 47.9 Pa, 1 inch = 25.4 mm.

<sup>1</sup>Use the lowest value of each condition for allowable design loads.

<sup>2</sup>For unequal multiple spans, conservatively apply the maximum span to all spans before using the design table, or consult Metl-Span.

<sup>3</sup>See Figure 4 for details of Metl-Span fastening patterns.

**TABLE 16—MAXIMUM ALLOWABLE WIND PRESSURES FOR METL-SPAN III CFA COMPOSITE FOAM WALL PANEL<sup>1,2</sup>**  
 Panel Thickness: 3 inches  
 Panel Width: 30 inches (CFA-30) or 36 inches (CFA-36)  
 Fascia/liner Profile: Mesa/Mesa  
 Fascia/liner Steel Thickness: 26/26 gage

SPAN (feet)	NUMBER OF SPANS	LIMITING CRITERIA							
		Panel Stiffness and Strength		Panel Connection Strength <sup>3</sup>					
		L/180	Strength	Pattern 1		Pattern 2		Pattern 3	
				CFA-30	CFA-36	CFA-30	CFA-36	CFA-30	CFA-36
Allowable Negative and Positive Wind Pressure (psf)									
5	1	130	97	56	46	78	65	102	85
	2	134	88	62	52	87	72	111	92
	3	138	86	64	53	89	74	115	96
6	1	100	81	46	38	65	54	85	70
	2	108	72	53	44	74	62	90	75
	3	109	71	54	45	76	63	95	79
7	1	78	69	40	33	55	46	72	60
	2	88	60	47	39	65	54	76	63
	3	89	60	47	39	66	55	81	67
8	1	62	61	35	29	48	40	63	53
	2	73	52	41	34	58	48	66	55
	3	73	52	41	34	58	48	70	59
9	1	50	54	31	25	43	36	56	47
	2	62	46	37	31	51	42	58	48
	3	61	46	37	31	52	43	62	52

(Continued)

**TABLE 16—MAXIMUM ALLOWABLE WIND PRESSURES FOR METL-SPAN III CFA—(Continued)**  
**COMPOSITE FOAM WALL PANEL<sup>1,2</sup>**  
**Panel Thickness: 3 inches**  
**Panel Width: 30 inches (CFA-30) or 36 inches (CFA-36)**  
**Fascia/liner Profile: Mesa/Mesa**  
**Fascia/liner Steel Thickness: 26/26 gage**

SPAN (feet)	NUMBER OF SPANS	LIMITING CRITERIA							
		Panel Stiffness and Strength		Panel Connection Strength <sup>3</sup>					
		L/180	Strength	Pattern 1		Pattern 2		Pattern 3	
				CFA-30	CFA-36	CFA-30	CFA-36	CFA-30	CFA-36
Allowable Negative and Positive Wind Pressure (psf)									
10	1	41	49	28	23	39	32	51	42
	2	53	41	33	27	45	38	51	43
	3	52	41	34	28	47	39	56	47
11	1	34	44	25	21	35	29	46	38
	2	45	37	30	25	41	34	46	38
	3	44	37	31	25	43	36	51	42
12	1	28	40	23	19	32	27	42	35
	2	39	34	27	22	37	31	42	35
	3	38	34	28	23	39	33	46	39

For SI: 1 foot = 305 mm, 1 psf = 47.9 Pa, 1 inch = 25.4 mm.

<sup>1</sup>Use the lowest value of each condition for allowable design loads.

<sup>2</sup>For unequal multiple spans, conservatively apply the maximum span to all spans before using the design table, or consult Metl-Span.

<sup>3</sup>See Figure 4 for details of Metl-Span fastening patterns.

**TABLE 17—MAXIMUM ALLOWABLE WIND PRESSURES FOR METL-SPAN III CFA**  
**COMPOSITE FOAM WALL PANEL<sup>1,2</sup>**  
**Panel Thickness: 3 inches**  
**Panel Width: 30 inches (CFA-30) or 36 inches (CFA-36)**  
**Fascia/liner Profile: Architectural Mesa**  
**Fascia/liner Steel Thickness: 22/26 gage**

SPAN (feet)	NUMBER OF SPANS	LIMITING CRITERIA							
		Panel Stiffness and Strength		Panel Connection Strength <sup>3</sup>					
		L/180	Strength	Pattern 1		Pattern 2		Pattern 3	
				CFA-30	CFA-36	CFA-30	CFA-36	CFA-30	CFA-36
Allowable Negative and Positive Wind Pressure (psf)									
5	1	137	99	56	46	78	65	102	85
	2	142	90	62	51	86	71	112	93
	3	144	88	63	53	88	74	116	96
6	1	107	82	46	39	65	54	85	71
	2	114	74	53	44	73	61	92	76
	3	115	72	54	45	75	62	96	80
7	1	85	71	40	33	55	46	73	60
	2	93	62	46	38	64	53	77	64
	3	94	61	47	39	65	54	82	68
8	1	69	62	35	29	48	40	63	53
	2	78	54	41	34	57	48	67	55
	3	79	53	41	34	58	48	71	59
9	1	56	55	31	26	43	36	56	47
	2	66	47	37	31	51	43	58	49
	3	66	47	37	31	52	43	63	52
10	1	47	49	28	23	39	32	51	42
	2	57	42	33	28	46	38	52	43
	3	57	42	33	28	47	39	56	47
11	1	39	45	25	21	35	29	46	38
	2	49	38	30	25	41	34	47	39
	3	49	38	31	25	43	35	51	42
12	1	33	41	23	19	32	27	42	35
	2	43	34	27	23	38	31	43	35
	3	42	35	28	23	39	33	47	39

For SI: 1 foot = 305 mm, 1 psf = 47.9 Pa, 1 inch = 25.4 mm.

<sup>1</sup>Use the lowest value of each condition for allowable design loads.

<sup>2</sup>For unequal multiple spans, conservatively apply the maximum span to all spans before using the design table, or consult Metl-Span.

<sup>3</sup>See Figure 4 for details of Metl-Span fastening patterns.

**TABLE 18—MAXIMUM ALLOWABLE WIND PRESSURES FOR METL-SPAN III CFA  
COMPOSITE FOAM WALL PANEL<sup>1,2</sup>  
Panel Thickness: 3 inches  
Panel Width: 42 inches (CFA-42)  
Fascia/liner Profile: Mesa/Mesa  
Fascia/liner Steel Thickness: 26/26 gage**

SPAN (feet)	NUMBER OF SPANS	LIMITING CRITERIA				
		Panel Stiffness and Strength		Panel Connection Strength <sup>3</sup>		
		L/180	Strength	Pattern 1	Pattern 2	Pattern 3
		Allowable Negative and Positive Wind Pressure (psf)				
5	1	129	96	40	55	72
	2	135	87	44	62	79
	3	137	85	46	64	82
6	1	99	80	33	46	60
	2	107	71	38	53	64
	3	109	70	39	54	68
7	1	78	69	28	39	52
	2	88	60	33	46	54
	3	88	59	33	47	58
8	1	62	60	25	34	45
	2	73	52	29	41	47
	3	73	52	29	41	50
9	1	50	53	22	30	40
	2	61	45	26	36	41
	3	61	46	26	37	44
10	1	41	48	20	27	36
	2	52	40	23	32	36
	3	52	41	24	33	40
11	1	34	44	18	25	33
	2	45	37	21	31	33
	3	44	37	22	30	36
12	1	28	39	16	23	30
	2	39	33	19	26	30
	3	38	34	20	28	33

For **SI**: 1 foot = 305 mm, 1 psf = 47.9 Pa, 1 inch = 25.4 mm.

<sup>1</sup>Use the lowest value of each condition for allowable design loads.

<sup>2</sup>For unequal multiple spans, conservatively apply the maximum span to all spans before using the design table, or consult Metl-Span.

<sup>3</sup>See Figure 4 for details of Metl-Span fastening patterns.

**TABLE 19—MAXIMUM ALLOWABLE WIND PRESSURES FOR METL-SPAN III CFA  
COMPOSITE FOAM WALL PANEL<sup>1,2</sup>  
Panel Thickness: 4 inches  
Panel Width: 42 inches (CFA-42)  
Fascia/liner Profile: Mesa/Mesa  
Fascia/liner Steel Thickness: 26/26 gage**

SPAN (feet)	NUMBER OF SPANS	LIMITING CRITERIA				
		Panel Stiffness and Strength		Panel Connection Strength <sup>3</sup>		
		L/180	Strength	Pattern 1	Pattern 2	Pattern 3
		Allowable Negative and Positive Wind Pressure (psf)				
5	1	151	102	39	55	72
	2	154	94	42	61	71
	3	156	92	43	63	73
6	1	119	85	32	46	60
	2	124	77	34	50	58
	3	125	75	36	52	60
7	1	96	73	28	39	51
	2	103	65	29	42	49
	3	104	64	30	44	51
8	1	79	64	24	34	45
	2	86	56	25	36	42
	3	87	55	26	38	44
9	1	66	56	22	30	40
	2	74	49	22	32	37
	3	75	49	23	34	39
10	1	55	51	19	27	36
	2	64	44	20	28	33
	3	64	44	21	30	35

(Continued)

**TABLE 19—MAXIMUM ALLOWABLE WIND PRESSURES FOR METL-SPAN III CFA—(Continued)**  
**COMPOSITE FOAM WALL PANEL<sup>1,2</sup>**  
**Panel Thickness: 4 inches**  
**Panel Width: 42 inches (CFA-42)**  
**Fascia/liner Profile: Mesa/Mesa**  
**Fascia/liner Steel Thickness: 26/26 gage**

SPAN (feet)	NUMBER OF SPANS	LIMITING CRITERIA				
		Panel Stiffness and Strength		Panel Connection Strength <sup>3</sup>		
		L/180	Strength	Pattern 1	Pattern 2	Pattern 3
		Allowable Negative and Positive Wind Pressure (psf)				
11	1	47	46	18	25	33
	2	56	40	18	26	30
	3	56	40	19	28	32
12	1	40	42	16	23	30
	2	49	36	16	23	27
	3	49	36	17	25	29

For **SI**: 1 foot = 305 mm, 1 psf = 47.9 Pa, 1 inch = 25.4 mm.

<sup>1</sup>Use the lowest value of each condition for allowable design loads.

<sup>2</sup>For unequal multiple spans, conservatively apply the maximum span to all spans before using the design table, or consult Metl-Span.

<sup>3</sup>See Figure 4 for details of Metl-Span fastening patterns.

**TABLE 20—MAXIMUM ALLOWABLE WIND PRESSURES FOR METL-SPAN III CFA**  
**COMPOSITE FOAM WALL PANEL<sup>1,2</sup>**  
**Panel Thickness: 4 inches**  
**Panel Width: 42 inches (CFA-42)**  
**Fascia/liner Profile: Flute/Mesa**  
**Fascia/liner Steel Thickness: 26/26 gage**

SPAN (feet)	NUMBER OF SPANS	LIMITING CRITERIA				
		Panel Stiffness and Strength		Panel Connection Strength <sup>3</sup>		
		L/180	Strength	Pattern 1	Pattern 2	Pattern 3
		Allowable Negative and Positive Wind Pressure (psf)				
5	1	150	101	39	55	72
	2	153	94	42	61	71
	3	155	91	43	63	73
6	1	119	84	32	46	60
	2	123	77	34	50	58
	3	125	75	36	52	60
7	1	96	72	28	39	51
	2	102	65	29	42	49
	3	103	63	30	44	51
8	1	79	63	24	34	45
	2	86	56	25	36	42
	3	87	55	26	38	44
9	1	66	56	22	30	40
	2	74	49	22	32	37
	3	74	48	23	34	39
10	1	55	50	19	27	36
	2	64	44	20	28	33
	3	64	43	21	30	35
11	1	47	46	18	25	33
	2	56	39	18	26	30
	3	56	39	19	28	32
12	1	40	42	16	23	30
	2	49	36	16	23	27
	3	49	36	17	25	29

For **SI**: 1 foot = 305 mm, 1 psf = 47.9 Pa, 1 inch = 25.4 mm.

<sup>1</sup>Use the lowest value of each condition for allowable design loads.

<sup>2</sup>For unequal multiple spans, conservatively apply the maximum span to all spans before using the design table, or consult Metl-Span.

<sup>3</sup>See Figure 4 for details of Metl-Span fastening patterns.

**TABLE 21—MAXIMUM ALLOWABLE WIND PRESSURES FOR METL-SPAN III CFA COMPOSITE FOAM WALL PANEL<sup>1,2</sup>**  
 Panel Thickness: 4 inches  
 Panel Width: 42 inches (CFA-42)  
 Fascia/liner Profile: Flute/Mesa  
 Fascia/liner Steel Thickness: 24/26 gage

SPAN (feet)	NUMBER OF SPANS	LIMITING CRITERIA				
		Panel Stiffness and Strength		Panel Connection Strength <sup>3</sup>		
		L/180	Strength	Pattern 1	Pattern 2	Pattern 3
		Allowable Negative and Positive Wind Pressure (psf)				
5	1	152	101	39	55	72
	2	154	94	42	62	71
	3	156	92	43	63	73
6	1	121	84	32	46	60
	2	125	77	35	50	58
	3	126	75	36	52	60
7	1	98	72	28	39	51
	2	103	65	29	42	49
	3	104	64	30	44	51
8	1	81	63	24	34	45
	2	87	56	25	37	42
	3	88	55	26	38	44
9	1	68	56	22	30	40
	2	75	49	22	32	37
	3	76	49	23	34	39
10	1	57	50	19	27	36
	2	65	44	20	29	33
	3	65	43	21	31	35
11	1	49	46	18	25	33
	2	57	39	18	26	30
	3	57	39	19	28	32
12	1	42	42	16	23	30
	2	50	36	16	23	27
	3	50	36	17	25	29

For SI: 1 foot = 305 mm, 1 psf = 47.9 Pa, 1 inch = 25.4 mm.

<sup>1</sup>Use the lowest value of each condition for allowable design loads.

<sup>2</sup>For unequal multiple spans, conservatively apply the maximum span to all spans before using the design table, or consult Metl-Span.

<sup>3</sup>See Figure 4 for details of Metl-Span fastening patterns.

**TABLE 22—MAXIMUM ALLOWABLE WIND PRESSURES FOR METL-SPAN III CFA COMPOSITE FOAM WALL PANEL<sup>1,2</sup>**  
 Panel Thickness: 5 inches  
 Panel Width: 42 inches (CFA-42)  
 Fascia/liner Profile: Mesa/Mesa  
 Fascia/liner Steel Thickness: 26/26 gage

SPAN (feet)	NUMBER OF SPANS	LIMITING CRITERIA				
		Panel Stiffness and Strength		Panel Connection Strength <sup>3</sup>		
		L/180	Strength	Pattern 1	Pattern 2	Pattern 3
		Allowable Negative and Positive Wind Pressure (psf)				
5	1	176	115	39	55	72
	2	179	108	43	62	72
	3	180	105	43	63	73
6	1	141	95	32	46	60
	2	145	89	35	51	59
	3	146	86	36	52	60
7	1	116	82	28	39	51
	2	120	75	30	43	50
	3	122	73	30	44	51
8	1	97	72	24	34	45
	2	102	64	25	37	43
	3	103	63	26	39	45
9	1	82	64	22	30	40
	2	88	57	22	33	38
	3	89	56	23	34	40
10	1	70	57	19	27	36
	2	77	50	20	29	33
	3	77	50	21	31	35

(Continued)

**TABLE 22—MAXIMUM ALLOWABLE WIND PRESSURES FOR METL-SPAN III CFA—(Continued)**  
**COMPOSITE FOAM WALL PANEL<sup>1,2</sup>**  
**Panel Thickness: 5 inches**  
**Panel Width: 42 inches (CFA-42)**  
**Fascia/liner Profile: Mesa/Mesa**  
**Fascia/liner Steel Thickness: 26/26 gage**

SPAN (feet)	NUMBER OF SPANS	LIMITING CRITERIA				
		Panel Stiffness and Strength		Panel Connection Strength <sup>3</sup>		
		L/180	Strength	Pattern 1	Pattern 2	Pattern 3
		Allowable Negative and Positive Wind Pressure (psf)				
11	1	60	52	18	25	33
	2	68	45	18	26	30
	3	68	45	19	28	32
12	1	52	48	16	23	30
	2	60	41	16	24	27
	3	60	41	17	25	29

For **SI**: 1 foot = 305 mm, 1 psf = 47.9 Pa, 1 inch = 25.4 mm.

<sup>1</sup>Use the lowest value of each condition for allowable design loads.

<sup>2</sup>For unequal multiple spans, conservatively apply the maximum span to all spans before using the design table, or consult Metl-Span.

<sup>3</sup>See Figure 4 for details of Metl-Span fastening patterns.

**TABLE 23—MAXIMUM ALLOWABLE WIND PRESSURES FOR METL-SPAN III CFA**  
**COMPOSITE FOAM WALL PANEL<sup>1,2</sup>**  
**Panel Thickness: 5 inches**  
**Panel Width: 42 inches (CFA-42)**  
**Fascia/liner Profile: Flute/Mesa**  
**Fascia/liner Steel Thickness: 26/26 gage**

SPAN (feet)	NUMBER OF SPANS	LIMITING CRITERIA				
		Panel Stiffness and Strength		Panel Connection Strength <sup>3</sup>		
		L/180	Strength	Pattern 1	Pattern 2	Pattern 3
		Allowable Negative and Positive Wind Pressure (psf)				
5	1	175	114	39	55	72
	2	178	108	43	62	72
	3	179	105	43	63	73
6	1	141	95	32	46	60
	2	144	88	35	51	59
	3	145	86	36	52	60
7	1	116	81	28	39	51
	2	120	74	30	43	50
	3	121	73	30	44	51
8	1	97	71	24	34	45
	2	102	64	25	37	43
	3	103	63	27	39	45
9	1	82	63	22	30	40
	2	88	56	22	33	38
	3	89	55	23	34	41
10	1	70	57	19	27	36
	2	77	50	20	29	34
	3	77	49	21	31	35
11	1	60	52	18	25	33
	2	67	45	18	26	30
	3	68	45	19	28	32
12	1	52	47	16	23	30
	2	60	41	16	24	27
	3	60	41	17	25	29

For **SI**: 1 foot = 305 mm, 1 psf = 47.9 Pa, 1 inch = 25.4 mm.

<sup>1</sup>Use the lowest value of each condition for allowable design loads.

<sup>2</sup>For unequal multiple spans, conservatively apply the maximum span to all spans before using the design table, or consult Metl-Span.

<sup>3</sup>See Figure 4 for details of Metl-Span fastening patterns.

**TABLE 24—MAXIMUM ALLOWABLE WIND PRESSURES FOR METL-SPAN III CFA  
COMPOSITE FOAM WALL PANEL<sup>1,2</sup>  
Panel Thickness: 5 inches  
Panel Width: 42 inches (CFA-42)  
Fascia/liner Profile: Flute/Mesa  
Fascia/liner Steel Thickness: 24/26 gage**

SPAN (feet)	NUMBER OF SPANS	LIMITING CRITERIA				
		Panel Stiffness and Strength		Panel Connection Strength <sup>3</sup>		
		L/180	Strength	Pattern 1	Pattern 2	Pattern 3
		Allowable Negative and Positive Wind Pressure (psf)				
5	1	177	114	39	55	72
	2	179	108	43	63	72
	3	180	105	43	63	73
6	1	142	95	32	46	60
	2	145	88	35	51	59
	3	146	86	36	52	61
7	1	117	81	28	39	51
	2	121	75	30	43	50
	3	122	73	31	45	52
8	1	98	71	24	34	45
	2	103	64	26	37	43
	3	104	63	27	39	45
9	1	83	63	22	30	40
	2	89	57	22	33	38
	3	90	56	24	34	40
10	1	71	57	19	27	36
	2	78	50	20	29	34
	3	79	50	21	31	36
11	1	62	52	18	25	33
	2	69	45	18	26	30
	3	69	45	19	28	32
12	1	53	47	16	23	30
	2	61	41	16	24	28
	3	61	41	17	25	29

For **SI**: 1 foot = 305 mm, 1 psf = 47.9 Pa, 1 inch = 25.4 mm.

<sup>1</sup>Use the lowest value of each condition for allowable design loads.

<sup>2</sup>For unequal multiple spans, conservatively apply the maximum span to all spans before using the design table, or consult Metl-Span.

<sup>3</sup>See Figure 4 for details of Metl-Span fastening patterns.

**TABLE 25—MAXIMUM ALLOWABLE WIND PRESSURES FOR METL-SPAN III CFA  
COMPOSITE FOAM WALL PANEL<sup>1,2</sup>  
Panel Thickness: 6 inches  
Panel Width: 42 inches (CFA-42)  
Fascia/liner Profile: Mesa/Mesa  
Fascia/liner Steel Thickness: 26/26 gage**

SPAN (feet)	NUMBER OF SPANS	LIMITING CRITERIA				
		Panel Stiffness and Strength		Panel Connection Strength <sup>3</sup>		
		L/180	Strength	Pattern 1	Pattern 2	Pattern 3
		Allowable Negative and Positive Wind Pressure (psf)				
5	1	198	126	39	55	72
	2	200	120	43	63	73
	3	201	117	44	66	74
6	1	160	105	32	46	60
	2	163	99	35	52	60
	3	164	96	36	53	61
7	1	133	90	28	39	51
	2	136	83	30	44	50
	3	137	81	31	45	52
8	1	112	79	24	34	45
	2	116	72	26	38	44
	3	117	70	27	39	45
9	1	96	70	22	30	40
	2	101	63	23	33	38
	3	102	62	24	34	40
10	1	82	63	19	27	36
	2	88	56	20	29	34
	3	89	55	21	31	36

(Continued)

**TABLE 25—MAXIMUM ALLOWABLE WIND PRESSURES FOR METL-SPAN III CFA—(Continued)**  
**COMPOSITE FOAM WALL PANEL<sup>1,2</sup>**  
**Panel Thickness: 6 inches**  
**Panel Width: 42 inches (CFA-42)**  
**Fascia/liner Profile: Mesa/Mesa**  
**Fascia/liner Steel Thickness: 26/26 gage**

SPAN (feet)	NUMBER OF SPANS	LIMITING CRITERIA				
		Panel Stiffness and Strength		Panel Connection Strength <sup>3</sup>		
		L/180	Strength	Pattern 1	Pattern 2	Pattern 3
		Allowable Negative and Positive Wind Pressure (psf)				
11	1	71	57	18	25	33
	2	78	51	18	26	31
	3	79	50	19	28	32
12	1	62	53	16	23	30
	2	69	46	16	24	28
	3	70	46	17	26	30

For **SI**: 1 foot = 305 mm, 1 psf = 47.9 Pa, 1 inch = 25.4 mm.

<sup>1</sup>Use the lowest value of each condition for allowable design loads.

<sup>2</sup>For unequal multiple spans, conservatively apply the maximum span to all spans before using the design table, or consult Metl-Span.

<sup>3</sup>See Figure 4 for details of Metl-Span fastening patterns.

**TABLE 26—MAXIMUM ALLOWABLE WIND PRESSURES FOR METL-SPAN III CFA**  
**COMPOSITE FOAM WALL PANEL<sup>1,2</sup>**  
**Panel Thickness: 6 inches**  
**Panel Width: 42 inches (CFA-42)**  
**Fascia/liner Profile: Flute/Mesa**  
**Fascia/liner Steel Thickness: 26/26 gage**

SPAN (feet)	NUMBER OF SPANS	LIMITING CRITERIA				
		Panel Stiffness and Strength		Panel Connection Strength <sup>3</sup>		
		L/180	Strength	Pattern 1	Pattern 2	Pattern 3
		Allowable Negative and Positive Wind Pressure (psf)				
5	1	198	125	39	55	72
	2	199	120	43	63	73
	3	200	117	44	64	74
6	1	160	105	32	46	60
	2	162	98	35	52	60
	3	163	96	36	53	61
7	1	133	90	28	39	51
	2	136	83	30	44	51
	3	137	81	31	45	52
8	1	112	78	24	34	45
	2	116	72	26	38	44
	3	117	70	27	39	45
9	1	95	70	22	30	40
	2	100	63	23	33	38
	3	101	62	24	34	40
10	1	82	63	19	27	36
	2	88	56	20	29	34
	3	89	55	21	31	36
11	1	71	57	18	25	33
	2	78	50	18	26	31
	3	79	50	19	28	32
12	1	62	52	16	23	30
	2	69	46	16	24	28
	3	70	45	17	26	30

For **SI**: 1 foot = 305 mm, 1 psf = 47.9 Pa, 1 inch = 25.4 mm.

<sup>1</sup>Use the lowest value of each condition for allowable design loads.

<sup>2</sup>For unequal multiple spans, conservatively apply the maximum span to all spans before using the design table, or consult Metl-Span.

<sup>3</sup>See Figure 4 for details of Metl-Span fastening patterns.

**TABLE 27—MAXIMUM ALLOWABLE WIND PRESSURES FOR METL-SPAN III CFA COMPOSITE FOAM WALL PANEL<sup>1,2</sup>**  
**Panel Thickness: 6 inches**  
**Panel Width: 42 inches (CFA-42)**  
**Fascia/liner Profile: Flute/Mesa**  
**Fascia/liner Steel Thickness: 24/26 gage**

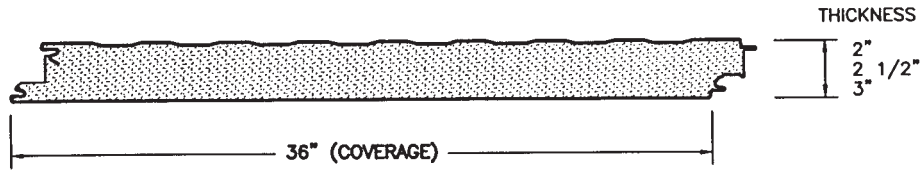
SPAN (feet)	NUMBER OF SPANS	LIMITING CRITERIA				
		Panel Stiffness and Strength		Panel Connection Strength <sup>3</sup>		
		L/180	Strength	Pattern 1	Pattern 2	Pattern 3
Allowable Negative and Positive Wind Pressure (psf)						
5	1	199	125	39	55	72
	2	200	120	43	63	73
	3	201	117	44	64	74
6	1	161	104	32	46	60
	2	163	99	36	52	60
	3	164	96	36	53	61
7	1	134	90	28	39	51
	2	137	83	30	44	51
	3	138	81	31	45	52
8	1	113	78	24	34	45
	2	117	72	26	38	44
	3	118	70	27	39	45
9	1	97	70	22	30	40
	2	101	63	23	33	38
	3	103	62	24	34	40
10	1	84	63	19	27	36
	2	89	56	20	30	34
	3	90	55	21	31	36
11	1	73	57	18	25	33
	2	79	51	18	27	31
	3	80	50	19	28	32
12	1	64	52	16	23	30
	2	70	46	17	24	28
	3	71	45	18	26	30

For **SI**: 1 foot = 305 mm, 1 psf = 47.9 Pa, 1 inch = 25.4 mm.

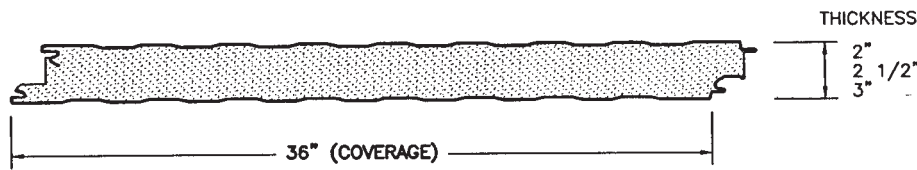
<sup>1</sup>Use the lowest value of each condition for allowable design loads.

<sup>2</sup>For unequal multiple spans, conservatively apply the maximum span to all spans before using the design table, or consult Metl-Span.

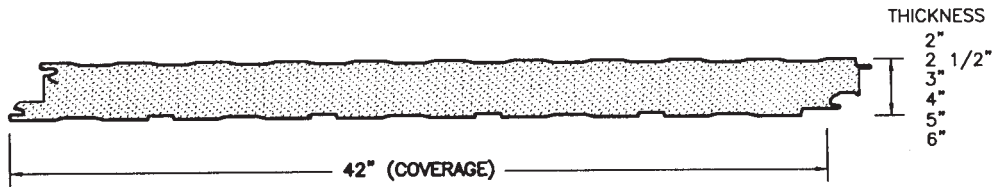
<sup>3</sup>See Figure 4 for details of Metl-Span fastening patterns.



CF OR CFA-36A  
ARCHITECTURAL FLAT EXTERIOR



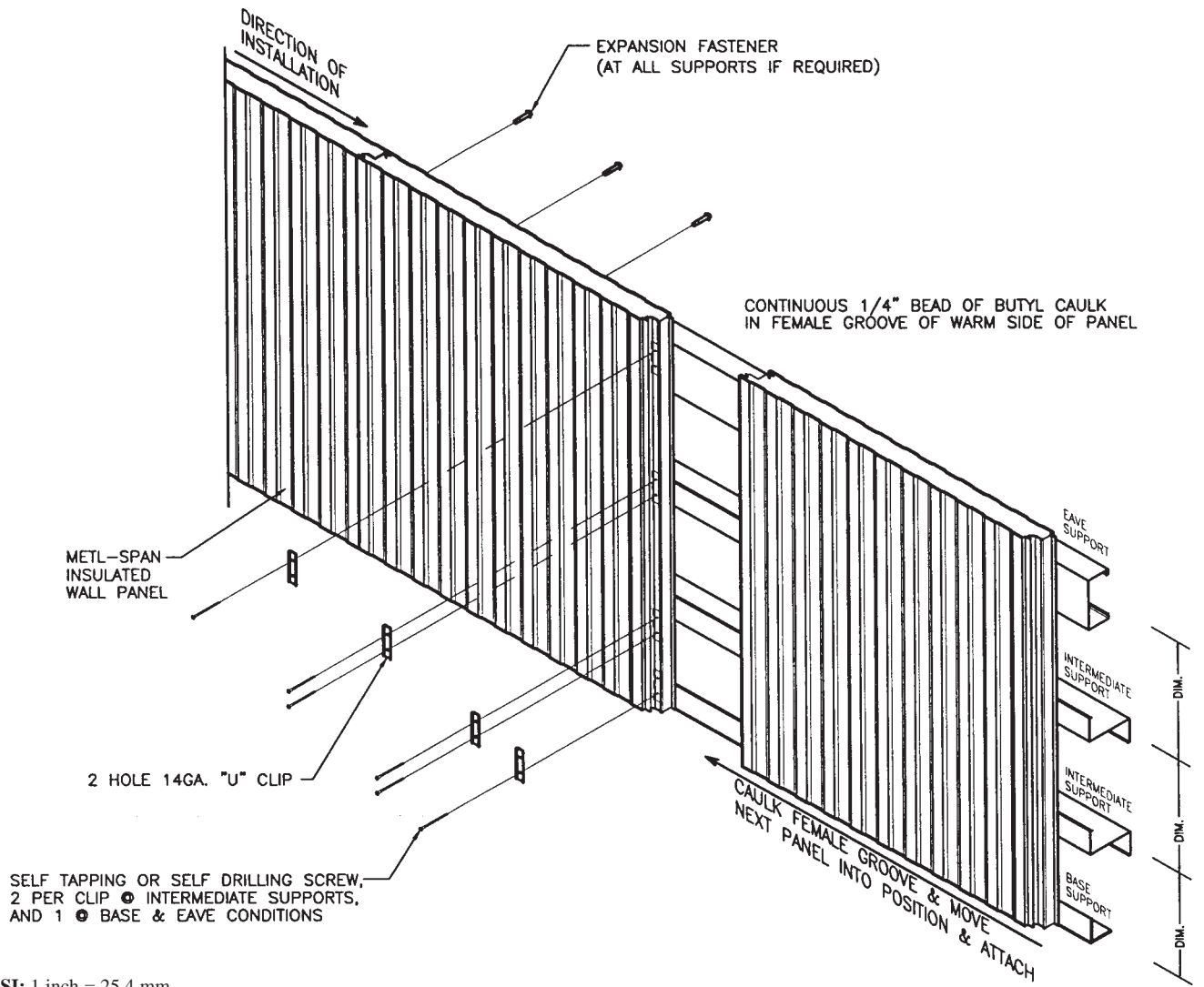
CF OR CFA-36  
MESA OR LIGHT MESA EXTERIOR



CF OR CFA-42  
FLUTE EXTERIOR

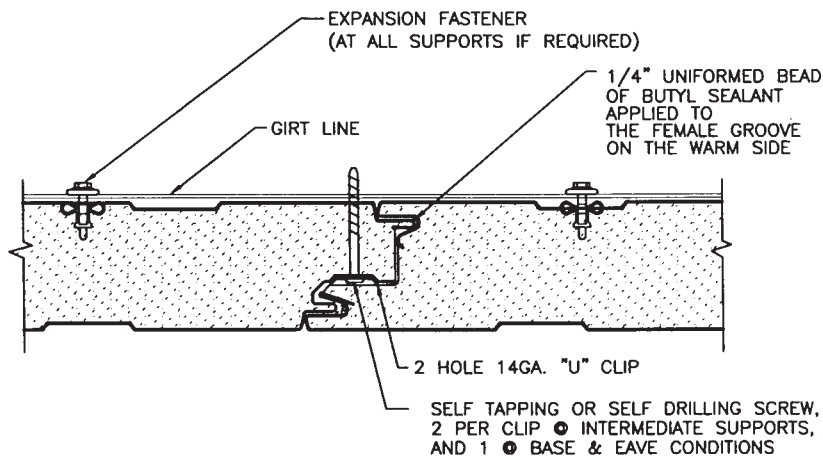
For SI: 1 inch = 25.4 mm.

FIGURE 1—PANEL PROFILES



For SI: 1 inch = 25.4 mm.

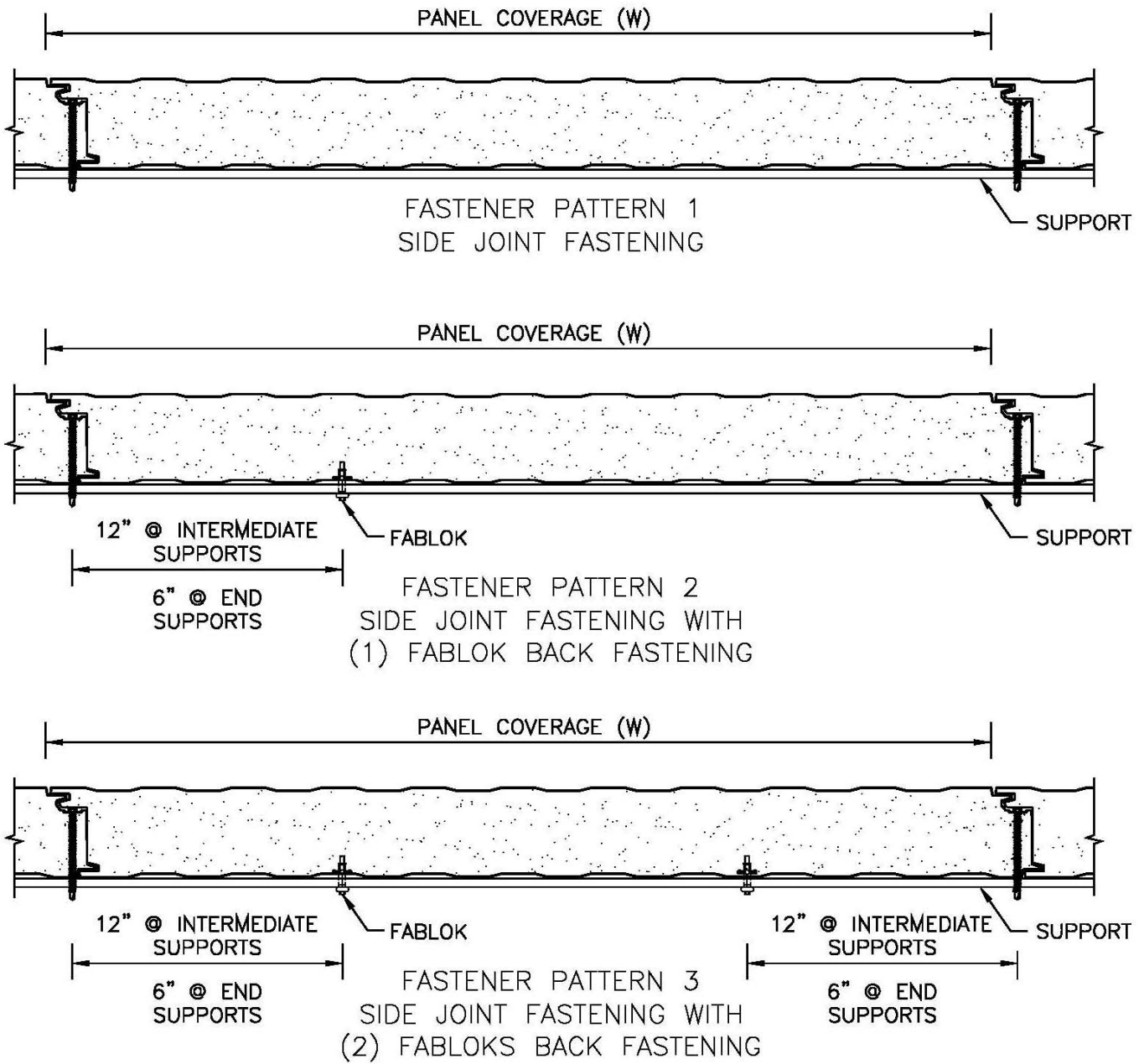
FIGURE 2—TYPICAL INSTALLATION



CF-30, CF-36, CF-42  
CFA-30, CFA-36, CFA-42  
PANEL JOINT DETAIL

For SI: 1 inch = 25.4 mm.

FIGURE 3—TYPICAL JOINT DETAILS



For SI: 1 inch = 25.4 mm.

FIGURE 4—FASTENING PATTERNS FOR CF/CFA PANELS