

APPENDIX 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE

TABLE	JURISDICTIONS	PANEL	MATERIAL	ATTACHMENT	PAGE
1	NON-HVHZ	Dri-Design® Panel	Aluminum or Zinc	Integral Flange	1
2A	NON-HVHZ and HVHZ	EN-V® Panel, A80-Series	Aluminum	Integral Flange	3
2B	NON-HVHZ and HVHZ	EN-V® Panel, A80-Series	Aluminum	Integral Flange with Clips	4
3A	NON-HVHZ and HVHZ	EN-V® Panel, G-Series (22 ga.)	Galvanized Steel	Integral Flange	6
3B	NON-HVHZ and HVHZ	EN-V® Panel, G-Series (16 ga.)	Galvanized Steel	Integral Flange	7
4	NON-HVHZ and HVHZ	EN-V® Panel, Z-Series	Zinc	Integral Flange	8

The following notes apply to the systems outlined herein:

- The evaluation herein pertains to wall-cladding components. Framing and sheathing shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction.
- “MDP” = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC 1609 (non-HVHZ) or FBC 1620 (HVHZ) for determination of design wind loads.

TABLE 1: SYSTEM DESCRIPTION & ALLOWABLE DESIGN PRESSURES
DRI-DESIGN® SYSTEM
(NOT FOR USE IN HVHZ JURISDICTIONS)

SYSTEM NO.	SUPPORT TYPE (NOTE 1)	DRI-DESIGN PANEL			PANEL ATTACHMENT (FIGURE 1A TO 1C)			MDP (PSF)	IMPACT RESISTANT
		MATERIAL	MIN. THICKNESS	PANEL HEIGHT	COMPONENT ATTACHED	FASTENERS (F)	FASTENER SPACING		
1.	Min. 5/8-inch plywood or min. 14 ga. Steel girts and/or hat channels	Aluminum	0.050-inch	30-inch	Min. 0.050" aluminum J-Channel at wall sill	#8 x ¾" self-tapping, pancake head screws	8" o.c.	+20.1 -43.5	N/A
					Min. 0.050" aluminum closure at wall terminations	#8 x 1-5/8" self-tapping, pancake head screws	16" o.c.		
					Integral Horizontal Flange	#8 x ¾" self-tapping, pancake head screws	8" o.c.		
2.	Min. 5/8-inch plywood or min. 14 ga. Steel girts and/or hat channels	Aluminum	0.050-inch	30-inch	Min. 0.050" aluminum J-Channel at wall sill	#12 x 1" self-tapping, pancake head screws	8" o.c.	+43.3 -60.0	N/A
					Min. 0.050" aluminum closure at wall terminations	#12 x 1" self-tapping, pancake head screws	16" o.c.		
					Integral Horizontal Flange	#12 x 1" self-tapping, pancake head screws	14" o.c.		
3.	Min. 5/8-inch plywood or min. 14 ga. Steel girts and/or hat channels	Aluminum	0.080-inch	33-inch	Min. 0.080" aluminum J-Channel at wall sill	#8 x ¾" self-tapping, pancake head screws	8" o.c.	+20.1 -60.2	N/A
					Min. 0.080" aluminum closure at wall terminations	#8 x 1-5/8" self-tapping, pancake head screws	16" o.c.		
					Integral Horizontal Flange	#8 x ¾" self-tapping, pancake head screws	8" o.c.		
4.	Min. 5/8-inch plywood or min. 14 ga. Steel girts and/or hat channels	Aluminum	0.080-inch	48-inch	Min. 0.080" aluminum J-Channel at wall sill	#12 x 1" self-tapping, pancake head screws	8" o.c.	+43.3 -43.3	N/A
					Min. 0.080" aluminum closure at wall terminations	#12 x 1" self-tapping, pancake head screws	16" o.c.		
					Integral Horizontal Flange	#12 x 1" self-tapping, pancake head screws	16" o.c.		
5.	Min. 5/8-inch plywood or min. 14 ga. Steel girts and/or hat channels	Zinc	0.040-inch	18½-inch	Min. 0.040" zinc J-Channel at wall sill	#8 x ¾" self-tapping, pancake head screws	8" o.c.	+27.6 -25.0	N/A
					Min. 0.040" zinc closure at wall terminations	#8 x 1-5/8" self-tapping, pancake head screws	16" o.c.		
					Integral Horizontal Flange	#8 x ¾" self-tapping, pancake head screws	8" o.c.		

TABLE 1: SYSTEM DESCRIPTION & ALLOWABLE DESIGN PRESSURES
DRI-DESIGN® SYSTEM
(NOT FOR USE IN HVHZ JURISDICTIONS)

SYSTEM No.	SUPPORT TYPE (NOTE 1)	DRI-DESIGN PANEL			PANEL ATTACHMENT (FIGURE 1A TO 1C)			MDP (PSF)	IMPACT RESISTANT
		MATERIAL	MIN. THICKNESS	PANEL HEIGHT	COMPONENT ATTACHED	FASTENERS (F)	FASTENER SPACING		
6.	Min. 5/8-inch plywood or min. 14 ga. Steel girts and/or hat channels	Zinc	0.060-inch	32-inch	Min. 0.060" zinc J-Channel at wall sill	#8 x 3/4" self-tapping, pancake head screws	8" o.c.	+20.1 -33.4	N/A
					Min. 0.060" zinc closure at wall terminations	#8 x 1-5/8" self-tapping, pancake head screws	16" o.c.		
					Integral Horizontal Flange	#8 x 3/4" self-tapping, pancake head screws	8" o.c.		

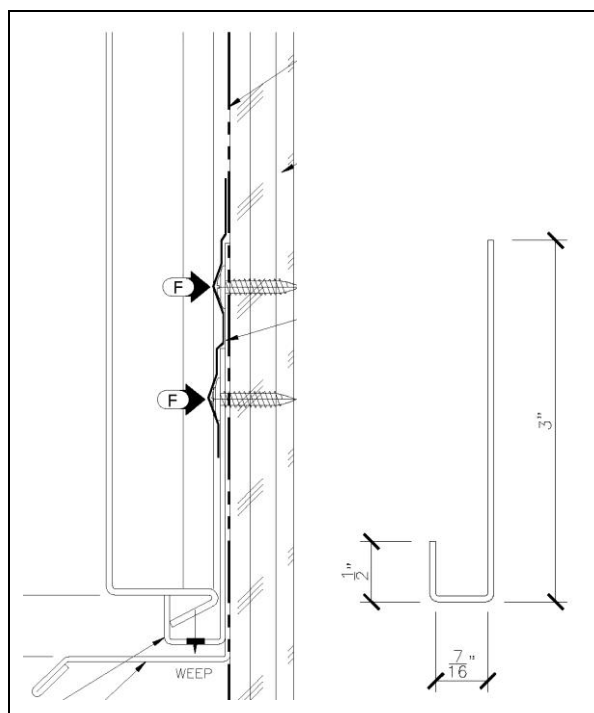


FIGURE 1A: DRI-DESIGN PANEL
SILL SECUREMENT W/ J-CHANNEL

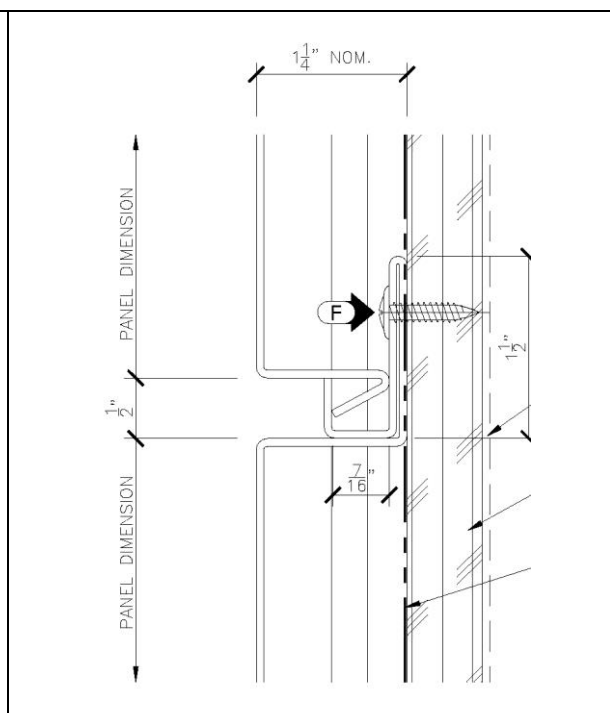


FIGURE 1B: DRI-DESIGN PANEL
HORIZONTAL JOINT SECUREMENT

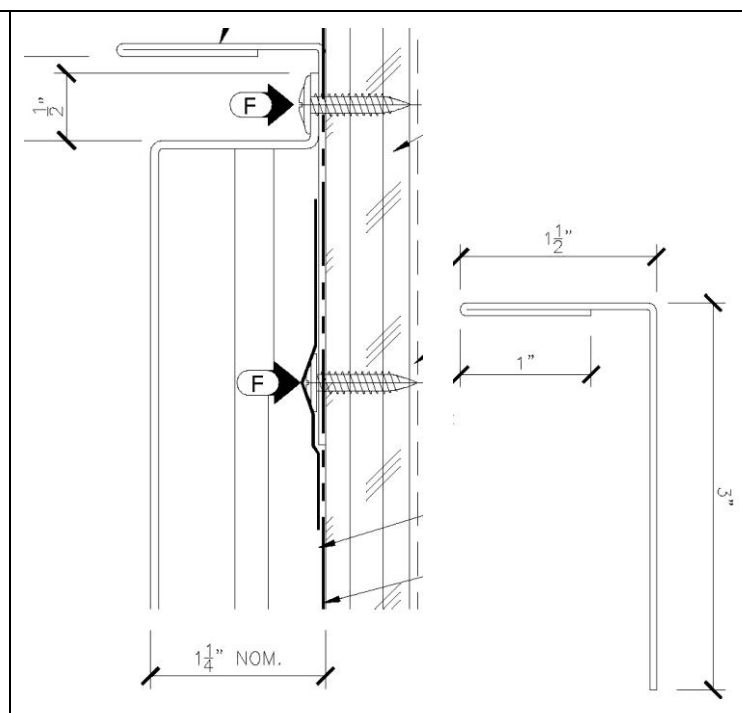


FIGURE 1C: DRI-DESIGN PANEL
TOP SECUREMENT W/ CLOSURE TRIM

TABLE 2A: SYSTEM DESCRIPTION & ALLOWABLE DESIGN PRESSURES
EN-V® SYSTEM, A80-SERIES (FLANGE ATTACHED)
(FOR USE IN NON-HVHZ AND HVHZ JURISDICTIONS)

SYSTEM NO.	SUPPORT TYPE (NOTE 1)	EN-V® PANEL					PANEL ATTACHMENT (FIGURE 2B TO 2D)			MDP (PSF)	IMPACT RESISTANT
		SERIES	MATERIAL	MIN. THICK	MAX. PANEL HEIGHT	STIFFENERS (FIGURE 2A)	COMPONENT ATTACHED	FASTENERS	FASTENER SPACING		
7.	Min. 18 ga. Steel girts and/or hat channels over solidly sheathed wall	A80	Aluminum	12 ga. (0.080-inch)	24-inch	Vertically max. 14 1/4 inch o.c.	J-Channel (at sill) and Integral Horizontal Flange (at top)	F1: 3/4-14 x 1" HWH Tek screws	8" o.c.	±70.0	N/A
8.	Min. 18 ga. Steel girts and/or hat channels over solidly sheathed wall	A80	Aluminum	12 ga. (0.080-inch)	36-inch	Vertically max. 11 13/16 inch o.c.	J-Channel (at sill) and Integral Horizontal Flange (at top)	F1: 3/4-14 x 1" HWH Tek screws	8" o.c.	±70.0	N/A

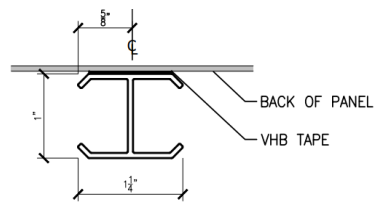
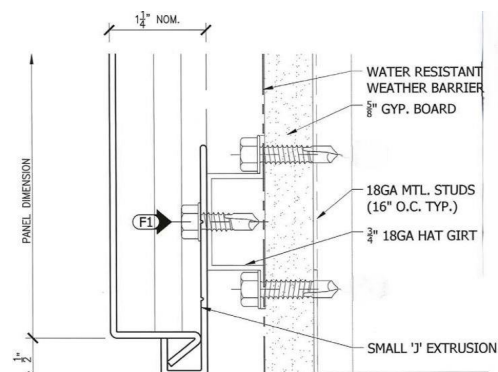
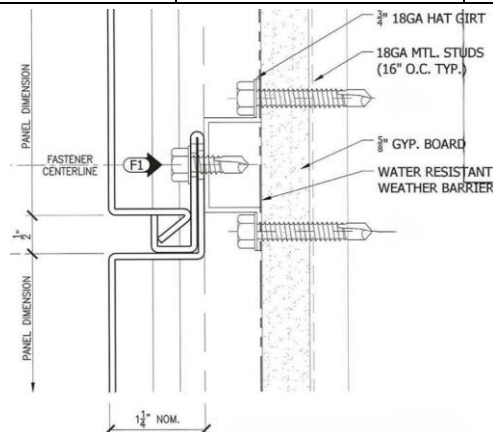
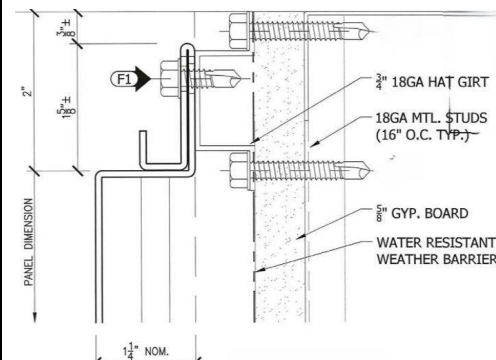
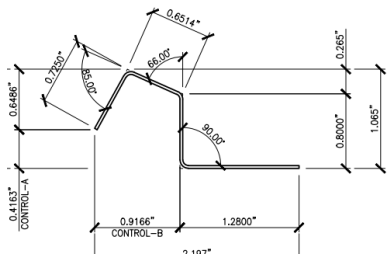

TYPICAL STIFFENER PROFILE
FIGURE 2A: STIFFENER PROFILE

**FIGURE 2B: EN-V® A80-SERIES
SILL SECUREMENT**

**FIGURE 2C: EN-V® A80-SERIES
HORIZONTAL JOINT SECUREMENT**

**FIGURE 2D: EN-V® A80-SERIES
PANEL TOP SECUREMENT**

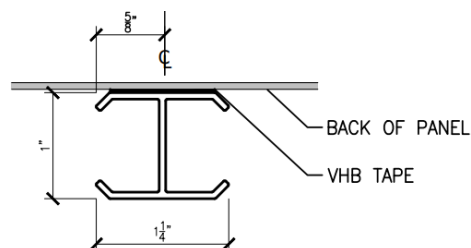
TABLE 2B: SYSTEM DESCRIPTION & ALLOWABLE DESIGN PRESSURES
EN-V® SYSTEM, A80-SERIES (INTEGRAL FLANGE WITH CLIPS)
(FOR USE IN NON-HVHZ AND HVHZ JURISDICTIONS)

SYSTEM No.	SUPPORT TYPE (NOTE 1)	EN-V® PANEL					PANEL ATTACHMENT (FIGURE 2F TO 2I)			MDP (PSf)	IMPACT RESISTANT
		SERIES	MATERIAL	MIN. THICK	MAX. PANEL WIDTH	STIFFENERS (FIGURE 2E)	COMPONENT ATTACHED	FASTENERS	SPACING		
9.	Min. 18 ga. Steel girts and/or hat channels over solidly sheathed wall	A80	Aluminum	12 ga. (0.080- inch)	24-inch	Horizontally max. 17 7/8 inch o.c.	J-Channel (at sill) and Integral Horizontal Flange (at top)	F1: ¼-14 x 1" HWH Teks screws	Horizontally 8" o.c.	±60.0	N/A
							22 ga. x 3.5" wide, ASTM A240, Type 304 2B stainless steel wind clips (Part No. WLC-080-35)	F1: ¼-14 x 1" HWH Teks screws, one (1) per clip	Vertically 24" o.c.		



Technical drawing of a J-channel attachment showing dimensions and angles. The drawing includes the following dimensions and angles:

- Angles: 60.00°, 90.00°, 0.6514°, 0.265°, 0.8000°, 1.085°.
- Dimensions: 0.6486", 0.4183" CONTROL-A, 0.9166" CONTROL-B, 1.2800", 2.197", 0.8000", 1.085", 0.265°, 0.6514°, 0.6486", 0.4183" CONTROL-A.



TYPICAL STIFFENER PROFILE

FIGURE 2E: STIFFENER PROFILE

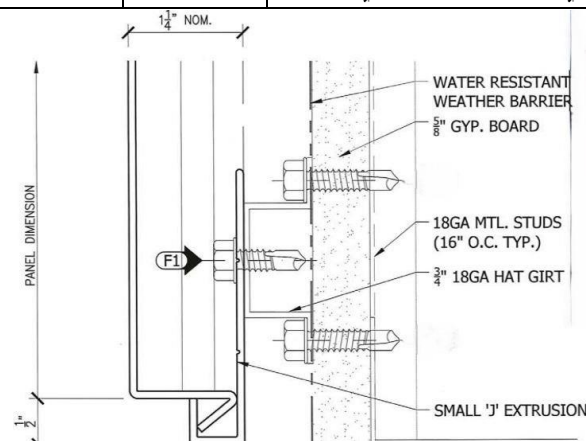


**FIGURE 2F: EN-V® A80-SERIES
SILL SECUREMENT**

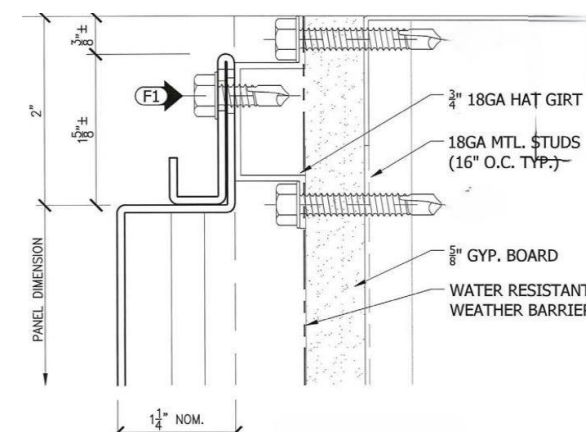


**FIGURE 2G: EN-V® A80-SERIES
PANEL TOP SECUREMENT**

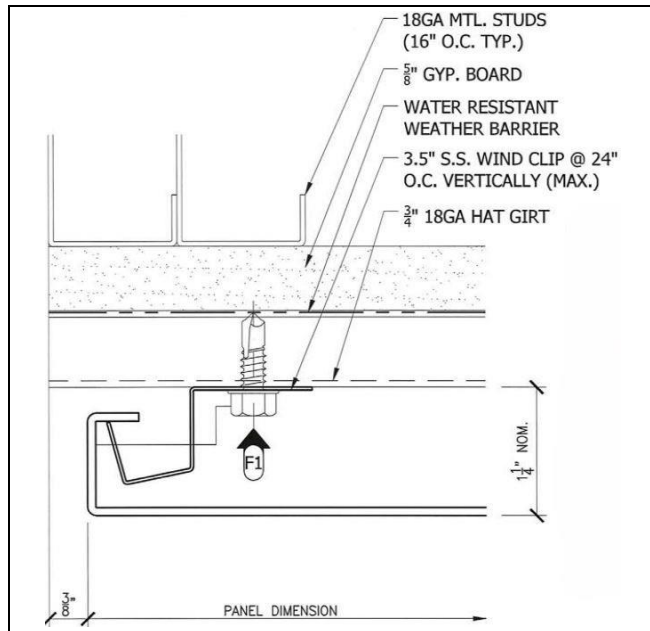


FIGURE 2H: EN-V® A80-SERIES
CLIPS AT LEFT JAMB

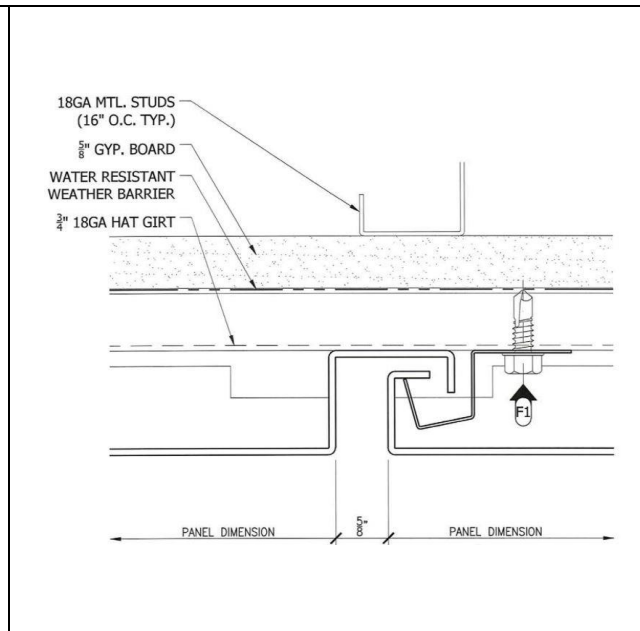


FIGURE 2I: EN-V® A80-SERIES
CLIPS AT VERTICAL JOINT

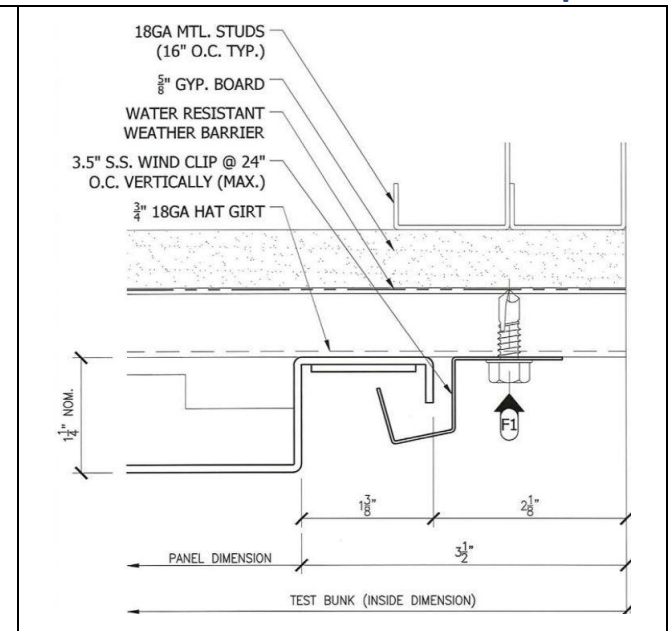


FIGURE 2J: EN-V® A80-SERIES
CLIPS AT RIGHT JAMB

TABLE 3A: SYSTEM DESCRIPTION & ALLOWABLE DESIGN PRESSURES
EN-V® SYSTEM, G-SERIES, 22 GA.
(FOR USE IN NON-HVHZ AND HVHZ JURISDICTIONS)

SYSTEM NO.	SUPPORT TYPE (NOTE 1)	EN-V® PANEL					PANEL ATTACHMENT (FIGURE 3B TO 3D)			MDP (PSF)	IMPACT RESISTANT
		SERIES	MATERIAL	MIN. THICK	MAX. PANEL HEIGHT	STIFFENERS (FIGURE 3A)	COMPONENT ATTACHED	FASTENERS	FASTENER SPACING		
10.	Min. 18 ga. Steel girts and/or hat channels over solidly sheathed wall	G	Steel	22 ga. (0.028-inch)	24-inch	Vertically max. 14 1/4 inch o.c.	J-Channel (at sill) and Integral Horizontal Flange (at top)	F1: 3/4-14 x 1" HWH Teks screws	8" o.c.	±70.0	N/A
11.	Min. 18 ga. Steel girts and/or hat channels over solidly sheathed wall	G	Steel	22 ga. (0.028-inch)	36-inch	Vertically max. 11 13/16 inch o.c.	J-Channel (at sill) and Integral Horizontal Flange (at top)	F1: 3/4-14 x 1" HWH Teks screws	8" o.c.	±70.0	N/A

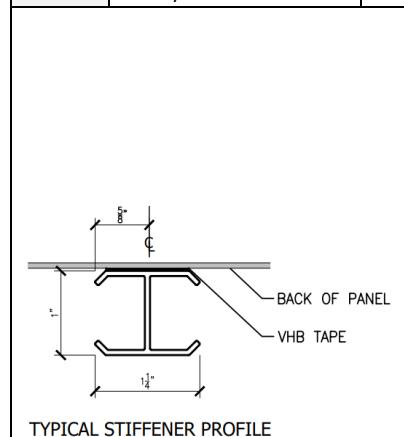
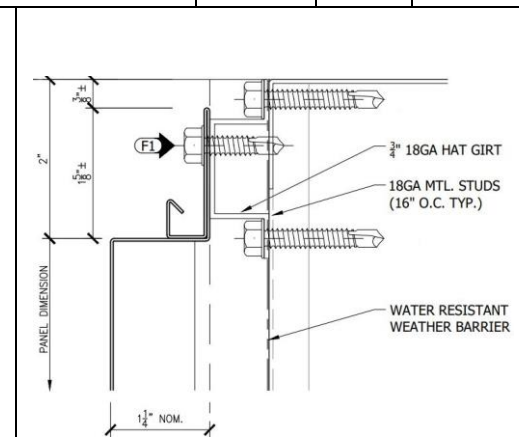
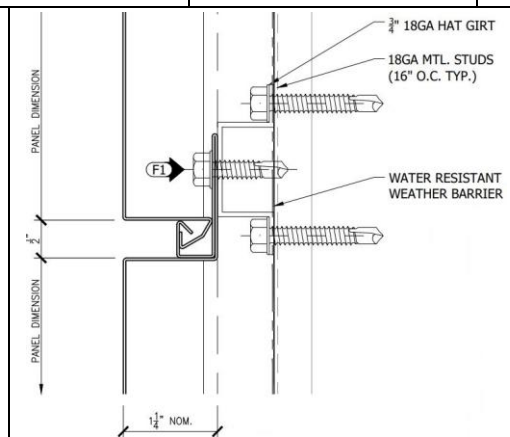
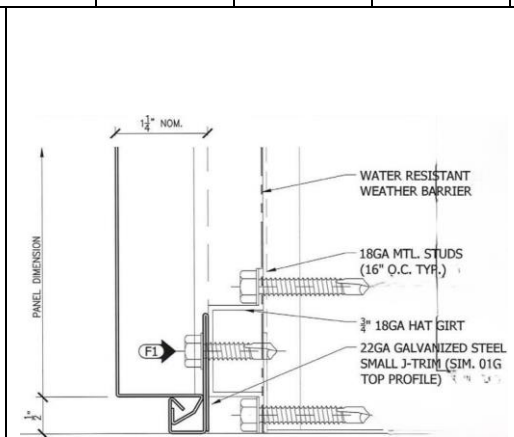

FIGURE 3A: STIFFENER PROFILE


TABLE 3B: SYSTEM DESCRIPTION & ALLOWABLE DESIGN PRESSURES
EN-V® SYSTEM, G-SERIES, 16 GA.
(FOR USE IN NON-HVHZ AND HVHZ JURISDICTIONS)

SYSTEM NO.	SUPPORT TYPE (NOTE 1)	EN-V® PANEL					PANEL ATTACHMENT (FIGURE 3F TO 3H)			MDP (PSF)	IMPACT RESISTANT
		SERIES	MATERIAL	MIN. THICK	MAX. PANEL HEIGHT	STIFFENERS (FIGURE 3E)	COMPONENT ATTACHED	FASTENERS	FASTENER SPACING		
12.	Min. 18 ga. Steel girts and/or hat channels over solidly sheathed wall	G	Steel	16 ga. (0.059-inch)	24-inch	Vertically max. 14 1/4 inch o.c.	J-Channel (at sill) and Integral Horizontal Flange (at top)	F1: 3/4-14 x 1" HWH Tek screws	8" o.c.	±80.0	N/A
13.	Min. 18 ga. Steel girts and/or hat channels over solidly sheathed wall	G	Steel	16 ga. (0.059-inch)	36-inch	Vertically max. 11 13/16 inch o.c.	J-Channel (at sill) and Integral Horizontal Flange (at top)	F1: 3/4-14 x 1" HWH Tek screws	8" o.c.	±80.0	N/A

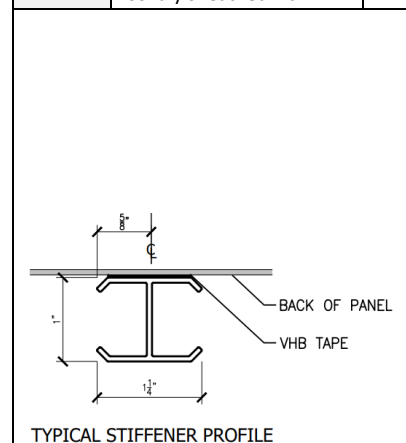
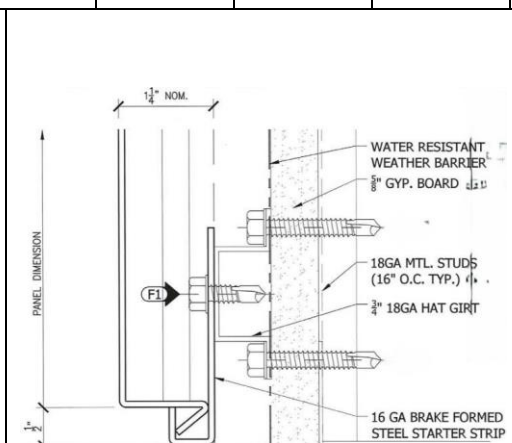
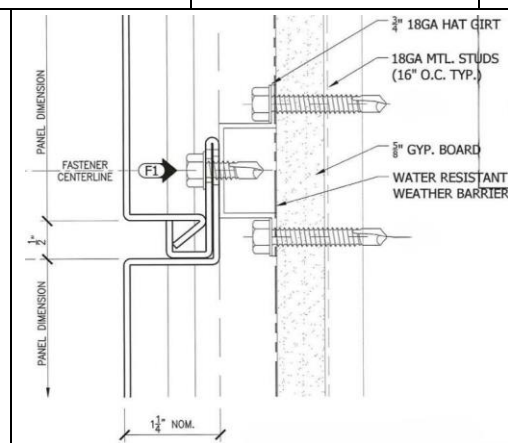
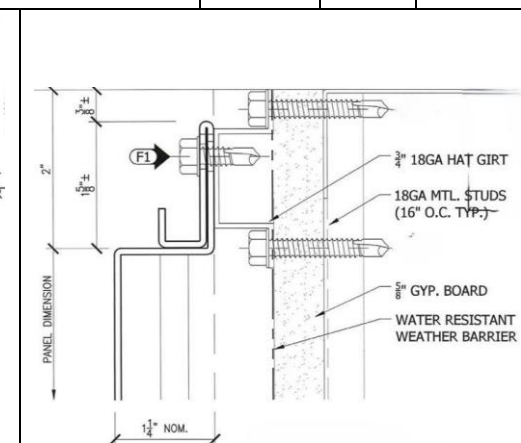
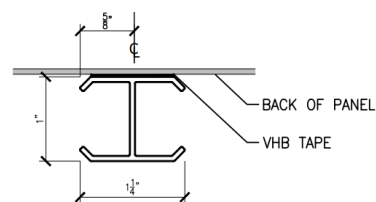
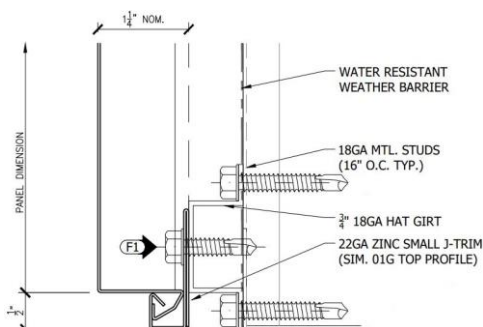
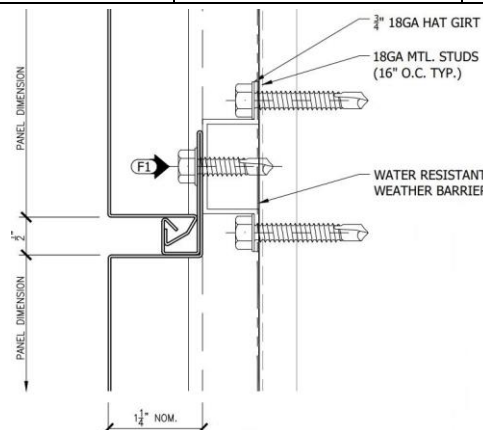
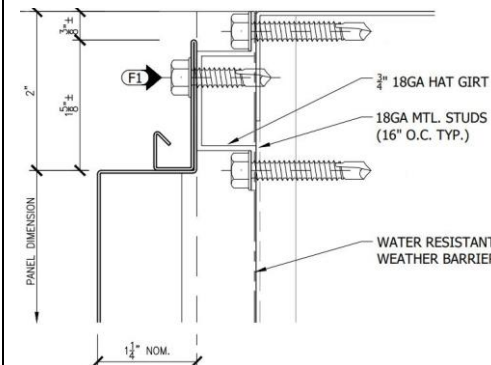

FIGURE 3E: STIFFENER PROFILE

**FIGURE 3F: EN-V® G-SERIES (16 GA.)
SILL SECUREMENT**

**FIGURE 3G: EN-V® G-SERIES (16 GA.)
HORIZONTAL JOINT SECUREMENT**

**FIGURE 3H: EN-V® G-SERIES (16 GA.)
PANEL TOP SECUREMENT**

TABLE 4: SYSTEM DESCRIPTION & ALLOWABLE DESIGN PRESSURES
EN-V® SYSTEM, Z-SERIES
(FOR USE IN NON-HVHZ AND HVHZ JURISDICTIONS)

SYSTEM NO.	SUPPORT TYPE (NOTE 1)	EN-V® PANEL					PANEL ATTACHMENT (FIGURE 4B TO 4D)			MDP (PSF)	IMPACT RESISTANT
		SERIES	MATERIAL	MIN. THICK	MAX. PANEL HEIGHT	STIFFENERS (FIGURE 4A)	COMPONENT ATTACHED	FASTENERS	FASTENER SPACING		
14.	Min. 18 ga. Steel girts and/or hat channels over solidly sheathed wall	Z	Zinc	18 ga. (0.039-inch)	24-inch	Vertically max. 14 1/4 inch o.c.	J-Channel (at sill) and Integral Horizontal Flange (at top)	F1: 3/4-14 x 1" HWH Tek screws	8" o.c.	±60.0	N/A
15.	Min. 18 ga. Steel girts and/or hat channels over solidly sheathed wall	Z	Zinc	18 ga. (0.039-inch)	30-inch	Vertically max. 9 13/16 inch o.c.	J-Channel (at sill) and Integral Horizontal Flange (at top)	F1: 3/4-14 x 1" HWH Tek screws	8" o.c.	±60.0	N/A


TYPICAL STIFFENER PROFILE
FIGURE 4A: STIFFENER PROFILE

**FIGURE 4B: EN-V® Z-SERIES
SILL SECUREMENT**

**FIGURE 4C: EN-V® Z-SERIES
HORIZONTAL JOINT SECUREMENT**

**FIGURE 4D: EN-V® Z-SERIES
PANEL TOP SECUREMENT**