



FASCIA AND SOFFIT
INSTALLATION MANUAL

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GENERAL NOTES

The details shown on the following pages are suggestions or guidelines on how to install TremLock Soffit and TremLock Flush panels. The information shown is accurate and the installation details shown are proven methods of construction, but it is not intended to cover all instances, building requirements, designs or codes. The details may require changes or revisions due to individual project conditions. The installer should follow these recommended details using proper workmanship procedures.

It is the responsibility of the designer/installer to ensure the details meet particular building requirements and to assure adequate water-tightness. It must be noted that water-tightness is a function of the installer. Tremco Roofing and Building Maintenance will be held harmless from any and all claims arising from a lack of water-tightness.

A proper uniform substructure should be used to avoid any panel distortion. All substructures should be designed to meet all necessary code requirements.

The installer should thoroughly familiarize himself/herself with all installation instructions. Before beginning installation of the panels, the installer should examine the substrate to ensure that all supporting members are straight, level and plumb.

The panels should be installed plumb, straight and accurately to the adjacent work. No penetrations shall be placed in the panel system by fasteners except as shown on the installation drawings.

Tremco Roofing and Building Maintenance can provide all flashings and accessories shown in the installation drawings unless noted otherwise. Installation procedures shall be in accordance with the manufacture's printed instructions, detail or approved shop drawings. Flashing and trim shall be installed true and in proper alignment, with any exposed fasteners equally spaced for the best appearance.

Some field cutting and fitting of panels and flashings is to be expected by the installer and minor field corrections are a part of normal installation work. Workmanship shall be of the best industry standards and with installation performed by experienced metal craftsman.

Oil canning of metal panels is inherent in the product and is not a cause for rejection.

Contents of this manual are subject to change without notice. Because this manual is revised from time to time, users are advised to check the revision date to be sure they have the most current copy in print. To confirm this book is the most current copy, please visit Tremco Roofing and Building Maintenance's website at <http://www.Tremcoroofing.com>.

SECTION PROPERTIES & LOAD TABLES

TremLock Soffit

Bare Galvalume & Painted Galvalume

SECTION PROPERTIES				TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
GAUGE	FY (KSI)	WEIGHT (PSF)	V _a kip/ft.	I _x (in. ⁴ /ft.)	S _e (in. ³ /ft.)	M _a kip-in./ft.	I _x (in. ⁴ /ft.)	S _e (in. ³ /ft.)	M _a kip-in./ft.
24	50.0	1.27	0.5360	0.0043	0.0205	0.6140	0.0068	0.0231	0.6910

1. Section properties are calculated with the 2001 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
2. V_a is the allowable shear.
3. I_x is for deflection determination.
4. S_e is for bending.
5. M_a is the allowable bending moment.
6. All values are for one foot of panel width.

Allowable Uniform Loads (PSF)

Span Type	Load Type	Span in Feet															
		1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	5.00
Single	Positive Wind	409	261	181	133	102	80	65	54	45	38	33	29	25	22	20	16
	Live	409	261	181	133	102	80	65	54	45	38	33	29	25	22	20	16
	Deflection (L/180)	375	192	111	70	46	32	24	18	13	10	8	7	5	4	4	3
	Deflection (L/240)	281	144	83	52	35	24	18	13	10	8	6	5	4	3	3	2
2 Span	Positive Wind	405	270	192	143	111	88	72	59	50	43	37	32	28	25	22	18
	Live	405	270	192	143	111	88	72	59	50	43	37	32	28	25	22	18
	Deflection (L/180)	500	500	346	218	146	102	74	56	43	34	27	22	18	15	12	9
	Deflection (L/240)	500	448	259	163	109	76	56	42	32	25	20	16	13	11	9	7
3 Span	Positive Wind	483	327	235	176	137	109	89	74	62	53	46	40	35	31	28	22
	Live	483	327	235	176	137	109	89	74	62	53	46	40	35	31	28	22
	Deflection (L/180)	500	468	271	170	114	80	58	44	33	26	21	17	14	11	10	7
	Deflection (L/240)	500	351	203	128	85	60	43	33	25	20	16	13	10	8	7	5
4 Span	Positive Wind	459	309	221	165	128	102	83	69	58	50	43	37	33	29	26	21
	Live	459	309	221	165	128	102	83	69	58	50	43	37	33	29	26	21
	Deflection (L/180)	500	497	287	181	121	85	62	46	35	28	22	18	15	12	10	7
	Deflection (L/240)	500	373	215	135	91	63	46	35	26	21	16	13	11	9	7	5
ASTM E1592 Testing		109	105	101	96	92	88	84	79	75	70	66	61	56	51	46	36

Notes:

1. Allowable uniform loads are based upon equal span lengths.
2. Positive Wind is wind pressure and is **NOT** increased by 33 1/3 %.
3. Live is the allowable live or snow load.
4. Deflection (L/180) is the allowable load that limits the panel's deflection to L/180 while under positive or live load.
5. Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
6. The weight of the panel has **NOT** been deducted from the allowable loads.
7. Positive wind and Live load values are limited to combined shear & bending using Eq. C3.3.1-1 of the AISI Specification.
8. Values of ASTM E1592 Testing include a factor of safety of 2.0. Shaded areas are outside of test range. Contact Tremco Roofing and Building Maintenance for more information.
9. Web Crippling has **NOT** been checked for this panel.
10. Load Tables are limited to a maximum allowable load of 500 psf.

SECTION PROPERTIES & LOAD TABLES

TremLock Soffit

Bare Galvalume

SECTION PROPERTIES				TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
GAUGE	FY (KSI)	WEIGHT (PSF)	V _a kip/ft.	I _x (in. ⁴ /ft.)	S _e (in. ³ /ft.)	M _a kip-in./ft.	I _x (in. ⁴ /ft.)	S _e (in. ³ /ft.)	M _a kip-in./ft.
29	80.0	0.78	0.3896	0.0020	0.0089	0.3190	0.0034	0.0113	0.4050

1. Section properties are calculated with the 2001 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
2. V_a is the allowable shear.
3. I_x is for deflection determination.
4. S_e is for bending.
5. M_a is the allowable bending moment.
6. All values are for one foot of panel width.

Allowable Uniform Loads (PSF)

		Span in Feet															
Span Type	Load Type	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	5.00
Single	Positive Wind	212	136	94	69	53	42	34	28	23	20	17	15	13	11	10	8
	Live	212	136	94	69	53	42	34	28	23	20	17	15	13	11	10	8
	Deflection (L/180)	174	89	51	32	21	15	11	8	6	5	4	3	2	2	1	1
	Deflection (L/240)	131	67	38	24	16	11	8	6	4	3	3	2	2	1	1	1
2 Span	Positive Wind	247	163	115	85	65	52	42	35	29	25	21	19	16	14	13	10
	Live	247	163	115	85	65	52	42	35	29	25	21	19	16	14	13	10
	Deflection (L/180)	500	291	168	106	71	49	36	27	21	16	13	10	8	7	6	4
	Deflection (L/240)	426	218	126	79	53	37	27	20	15	12	9	8	6	5	4	3
3 Span	Positive Wind	299	199	141	105	81	64	52	43	36	31	27	23	20	18	16	13
	Live	299	199	141	105	81	64	52	43	36	31	27	23	20	18	16	13
	Deflection (L/180)	445	228	131	83	55	39	28	21	16	12	10	8	6	5	4	3
	Deflection (L/240)	334	171	98	62	41	29	21	16	12	9	7	6	5	4	3	2
4 Span	Positive Wind	282	187	133	99	76	60	49	41	34	29	25	22	19	17	15	12
	Live	282	187	133	99	76	60	49	41	34	29	25	22	19	17	15	12
	Deflection (L/180)	472	242	140	88	59	41	30	22	17	13	11	8	7	6	5	3
	Deflection (L/240)	354	181	105	66	44	31	22	17	13	10	8	6	5	4	3	2
ASTM E1592 Testing		NO TEST DATA AVAILABLE															

Notes:

1. Allowable uniform loads are based upon equal span lengths.
2. Positive Wind is wind pressure and is **NOT** increased by 33 1/3 %.
3. Live is the allowable live or snow load.
4. Deflection (L/180) is the allowable load that limits the panel's deflection to L/180 while under positive or live load.
5. Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
6. The weight of the panel has **NOT** been deducted from the allowable loads.
7. Positive wind and Live load values are limited to combined shear & bending using Eq. C3.3.1-1 of the AISI Specification.
8. Values of ASTM E1592 Testing include a factor of safety of 2.0. Shaded areas are outside of test range. Contact Tremco Roofing and Building Maintenance for more information.
9. Web Crippling has **NOT** been checked for this panel.
10. Load Tables are limited to a maximum allowable load of 500 psf.

SECTION PROPERTIES & LOAD TABLES

TremLock Soffit

Painted Galvalume

SECTION PROPERTIES				TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
GAUGE	FY (KSI)	WEIGHT (PSF)	V _a (kip/ft.)	I _x (in. ⁴ /ft.)	S _e (in. ³ /ft.)	M _a (kip-in./ft.)	I _x (in. ⁴ /ft.)	S _e (in. ³ /ft.)	M _a (kip-in./ft.)
29	80.0	0.81	0.4096	0.0022	0.0096	0.3440	0.0036	0.0121	0.4330

1. Section properties are calculated with the 2001 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
2. V_a is the allowable shear.
3. I_x is for deflection determination.
4. S_e is for bending.
5. M_a is the allowable bending moment.
6. All values are for one foot of panel width.

Allowable Uniform Loads (PSF)

Span Type	Load Type	Span in Feet															
		1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	5.00
Single	Positive Wind	229	146	101	74	57	45	36	30	25	21	18	16	14	12	11	9
	Live	229	146	101	74	57	45	36	30	25	21	18	16	14	12	11	9
	Deflection (L/180)	192	98	56	35	24	16	12	9	7	5	4	3	3	2	2	1
	Deflection (L/240)	144	73	42	26	18	12	9	6	5	4	3	2	2	1	1	1
2 Span	Positive Wind	264	174	123	91	70	55	45	37	31	27	23	20	17	15	14	11
	Live	264	174	123	91	70	55	45	37	31	27	23	20	17	15	14	11
	Deflection (L/180)	500	312	180	113	76	53	39	29	22	17	14	11	9	7	6	4
	Deflection (L/240)	457	234	135	85	57	40	29	22	16	13	10	8	7	5	5	3
3 Span	Positive Wind	319	212	151	112	87	69	56	46	39	33	29	25	22	19	17	14
	Live	319	212	151	112	87	69	56	46	39	33	29	25	22	19	17	14
	Deflection (L/180)	478	244	141	89	59	41	30	23	17	13	11	9	7	6	5	3
	Deflection (L/240)	358	183	106	66	44	31	22	17	13	10	8	6	5	4	3	2
4 Span	Positive Wind	301	200	142	105	81	64	52	43	36	31	27	23	20	18	16	13
	Live	301	200	142	105	81	64	52	43	36	31	27	23	20	18	16	13
	Deflection (L/180)	500	259	150	94	63	44	32	24	18	14	11	9	7	6	5	4
	Deflection (L/240)	380	194	112	71	47	33	24	18	14	11	8	7	5	4	4	3
ASTM E1592 Testing		NO TEST DATA AVAILABLE															

Notes:

1. Allowable uniform loads are based upon equal span lengths.
2. Positive Wind is wind pressure and is **NOT** increased by 33 1/3 %.
3. Live is the allowable live or snow load.
4. Deflection (L/180) is the allowable load that limits the panel's deflection to L/180 while under positive or live load.
5. Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
6. The weight of the panel has **NOT** been deducted from the allowable loads.
7. Positive wind and Live load values are limited to combined shear & bending using Eq. C3.3.1-1 of the AISI Specification.
8. Values of ASTM E1592 Testing include a factor of safety of 2.0. Shaded areas are outside of test range. Contact Tremco Roofing and Building Maintenance for more information.
9. Web Crippling has **NOT** been checked for this panel.
10. Load Tables are limited to a maximum allowable load of 500 psf.

SECTION PROPERTIES & LOAD TABLES

TremLock Flush Bare Galvalume & Painted Galvalume

SECTION PROPERTIES						TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
GAUGE	FY (KSI)	WEIGHT (PSF)	V _a kip/ft.	P _{a_end} lbs/ft.	P _{a_int} lbs/ft.	I _x (in. ⁴ /ft.)	S _e (in. ³ /ft.)	M _a kip-in./ft.	I _x (in. ⁴ /ft.)	S _e (in. ³ /ft.)	M _a kip-in./ft.
22	50.0	1.64	0.7580	496.50	779.50	0.0270	0.0488	1.4600	0.0565	0.0672	2.0110

1. Section properties are calculated in accordance with the 2001 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
2. V_a is the allowable shear.
3. P_a is the allowable load for web crippling on end & interior supports.
4. I_x is for deflection determination.
5. S_e is for bending.
6. M_a is the allowable bending moment.
7. All values are for one foot of panel width.

Allowable Uniform Loads (PSF)

		Span in Feet															
Span Type	Load Type	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	7.92	8.00
Single	Positive Wind	500	432	243	155	108	79	60	48	38	32	27	23	19	17	15	15
	Live	500	432	243	155	108	79	60	48	38	32	27	23	19	17	15	15
	Deflection (L/180)	500	500	295	151	87	55	36	25	18	14	10	8	6	5	4	4
	Deflection (L/240)	500	500	221	113	65	41	27	19	14	10	8	6	5	4	3	3
2 Span	Positive Wind	500	415	293	196	139	104	80	64	52	43	36	31	27	23	21	20
	Live	500	415	293	196	139	104	80	64	52	43	36	31	27	23	21	20
	Deflection (L/180)	500	500	500	500	325	205	137	96	70	52	40	32	25	20	17	17
	Deflection (L/240)	500	500	500	421	244	153	103	72	52	39	30	24	19	15	13	12
3 Span	Positive Wind	500	472	349	236	168	124	95	75	60	50	42	35	31	27	24	23
	Live	500	472	349	236	168	124	95	75	60	50	42	35	31	27	24	23
	Deflection (L/180)	500	500	500	440	255	160	107	75	55	41	31	25	20	16	13	13
	Deflection (L/240)	500	500	500	330	191	120	80	56	41	31	23	18	15	12	10	10
4 Span	Positive Wind	500	454	331	223	160	120	93	74	60	50	42	36	31	27	24	24
	Live	500	454	331	223	160	120	93	74	60	50	42	36	31	27	24	24
	Deflection (L/180)	500	500	500	467	270	170	114	80	58	43	33	26	21	17	14	14
	Deflection (L/240)	500	500	500	350	203	127	85	60	43	32	25	19	15	12	11	10
ASTM E1592 Wind Uplift Testing		106.5	99.5	92.5	85.5	78.5	71.5	64.5	58.0	52.0	46.5	41.5	37.5	33.5	29.5	26.0	25.0

Notes:

1. Allowable uniform loads are based upon equal span lengths.
2. Positive Wind is wind pressure and is **NOT** increased by 33 1/3 %.
3. Live is the allowable live or snow load.
4. Deflection (L/180) is the allowable load that limits the panel's deflection to L/180 while under positive or live load.
5. Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
6. The weight of the panel has **NOT** been deducted from the allowable loads.
7. Positive wind and Live load values are limited to combined shear & bending using Eq. C3.3.1-1 of the AISI Specification.
8. Values of ASTM E1592 Wind Uplift Testing include a factor of safety of 2.0. Shaded areas are outside of test range. Contact Tremco Roofing and Building Maintenance for more information.
9. Positive Wind and Live Load values are limited by web crippling using a bearing length of 2".
10. Web crippling values are determined using a ratio of the uniform load **actually** supported by the top flanges of the section.
11. Load Tables are limited to a maximum allowable load of 500 psf.

SECTION PROPERTIES & LOAD TABLES

TremLock Flush

Bare Galvalume & Painted Galvalume

SECTION PROPERTIES						TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
GAUGE	FY (KSI)	WEIGHT (PSF)	V _a kip/ft.	P _{a_end} lbs/ft.	P _{a_int} lbs/ft.	I _x (in. ⁴ /ft.)	S _e (in. ³ /ft.)	M _a kip-in./ft.	I _x (in. ⁴ /ft.)	S _e (in. ³ /ft.)	M _a kip-in./ft.
24	50.0	1.26	0.5840	301.20	478.80	0.0185	0.0317	0.9480	0.0423	0.0504	1.5080

1. Section properties are calculated in accordance with the 2001 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
2. V_a is the allowable shear.
3. P_a is the allowable load for web crippling on end & interior supports.
4. I_x is for deflection determination.
5. S_e is for bending.
6. M_a is the allowable bending moment.
7. All values are for one foot of panel width.

Allowable Uniform Loads (PSF)

Span Type	Load Type	Span in Feet															
		1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	7.92	8.00
Single	Positive Wind	500	280	158	101	70	51	39	31	25	20	17	14	12	11	10	9
	Live	500	280	158	101	70	51	39	31	25	20	17	14	12	11	10	9
	Deflection (L/180)	500	479	202	103	59	37	25	17	12	9	7	5	4	3	3	3
	Deflection (L/240)	500	359	151	77	44	28	18	13	9	7	5	4	3	2	2	2
2 Span	Positive Wind	383	255	191	147	105	78	60	48	39	32	27	23	20	17	15	15
	Live	383	255	191	147	105	78	60	48	39	32	27	23	20	17	15	15
	Deflection (L/180)	500	500	500	409	237	149	100	70	51	38	29	23	18	15	12	12
	Deflection (L/240)	500	500	500	307	177	111	75	52	38	28	22	17	13	11	9	9
3 Span	Positive Wind	435	290	217	158	109	80	61	48	39	32	27	23	20	17	15	15
	Live	435	290	217	158	109	80	61	48	39	32	27	23	20	17	15	15
	Deflection (L/180)	500	500	500	320	185	116	78	55	40	30	23	18	14	11	10	9
	Deflection (L/240)	500	500	470	240	139	87	58	41	30	22	17	13	10	8	7	7
4 Span	Positive Wind	418	279	209	163	113	83	63	50	40	33	28	24	20	18	16	15
	Live	418	279	209	163	113	83	63	50	40	33	28	24	20	18	16	15
	Deflection (L/180)	500	500	500	340	197	124	83	58	42	31	24	19	15	12	10	10
	Deflection (L/240)	500	500	499	255	147	93	62	43	31	23	18	14	11	9	8	7
ASTM E1592 Wind Uplift Testing		36.0	35.5	34.5	33.5	32.5	31.5	30.5	29.5	28.5	27.0	25.5	23.5	21.5	19.5	18.0	17.5

Notes:

1. Allowable uniform loads are based upon equal span lengths.
2. Positive Wind is wind pressure and is **NOT** increased by 33 1/3 %.
3. Live is the allowable live or snow load.
4. Deflection (L/180) is the allowable load that limits the panel's deflection to L/180 while under positive or live load.
5. Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
6. The weight of the panel has **NOT** been deducted from the allowable loads.
7. Positive wind and Live load values are limited to combined shear & bending using Eq. C3.3.1-1 of the AISI Specification.
8. Values of ASTM E1592 Wind Uplift Testing include a factor of safety of 2.0. Shaded areas are outside of test range. Contact Tremco Roofing and Building Maintenance for more information.
9. Positive Wind and Live Load values are limited by web crippling using a bearing length of 2".
10. Web crippling values are determined using a ratio of the uniform load **actually** supported by the top flanges of the section.
11. Load Tables are limited to a maximum allowable load of 500 psf.

TECHNICAL INFORMATION

AIR and WATER INFILTRATION

TEST METHODS:

Air Leakage: ASTM E 283-04, "Standard test method for determining the rate leakage through exterior windows, curtain walls, and doors under specified pressure differences across the specimen."

Water Penetration: ASTM E 331-86 (Modified), "Standard test method for water penetration of exterior windows, curtain walls, and doors by uniform static air pressure difference."

TEST SPECIMEN:

Tremco Roofing and Building Maintenance, Inc. 24 Ga. 12 in. wide TremLock Flush Wall Panel. Panels were attached at intermediate supports using #10-16 x 1" pancake head fasteners at 5'-0" spacing. A 3/16" bead of field applied Sikalastomer 511 butyl sealant was applied in the side joint prior to engagement.

TEST RESULTS:

Specimen	Air Infiltration			Water Infiltration			
	Static Pressure Difference (psf)	Air Infiltration Rate (cfm/lf)	Air Infiltration Rate (cfm/sf)	Static Pressure Difference (psf)	Rate (gal/hr/sf)	Test Duration (min)	Water Infiltration
TremLock Flush 12 in. 24 Ga.	1.57	0.017	0.017	12.00	5	15	None
TremLock Flush 12 in. 24 Ga.	6.24	0.040	0.040				

Test Report No.: T102-06

Dated: January 19, 2006

GENERAL INFORMATION

INSTALLATION

MATERIAL INVENTORY

All material is carefully inspected and crated before leaving the plant and accepted by the transportation company complete and in satisfactory condition. It is the carrier's responsibility to deliver the shipment intact. It is the consignee's responsibility to inspect the shipment for damages and shortages when it is delivered.

Shortage or damage of the delivered materials must be noted and clearly marked on the bill of lading before signature of acceptance. Notify Tremco Roofing and Building Maintenance immediately of any conflicts. Tremco Roofing and Building Maintenance will not be responsible for shortages or damages unless they are noted on the bill of lading. Customer's signature on the bill of lading is an acknowledgment that the shipment is complete and undamaged, unless otherwise noted.

FASTENERS

SCREW GUN

Depth sensing or torque-controlled screw guns may be used for driving exposed self-drilling screws. A 2000 maximum R.P.M. variable-speed screw gun may be used, but an 1800 R.P.M. gun is preferred. Use good quality, industrial grade screw guns as the higher amperage rating (5 to 7 amps.) of the guns is required to achieve adequate torque for secure fastening. Screw guns should be variable speed and reversible.

INSULATION

Before starting the screw, the materials to be joined must be pressed together with foot or hand pressure. The pressure must be maintained until the screw has drilled through all the materials and the threads have engaged.

EQUIPMENT for UNLOADING and LIFTING

Hoisting equipment is necessary to unload and position the panels and accessory crates for site storage and installation. The equipment must have sufficient capacity and reach to place the material where it is required for effective installation. A forklift is handy for unloading and placing shorter panel and accessory crates.

Nylon slings will be required to avoid panel damage. Slings should be 8" minimum width and 6'-10" long to accommodate the panel bundle girth. Sling capacity should be at least 6000 pounds. Never use wire rope slings.

A spreader may be required for panel crates over 25'-0" in length to assure correct sling spacing and uniform lifting. The spreader must be sized to handle panel crate weight.

GENERAL INFORMATION

INSTALLATION (CONT.)

HANDLING PANEL BUNDLES

Under normal conditions, panel crates over 25'-0" long should be lifted with two (2) slings spaced at greater distances than third points. Panel crates less than 25'-0" long may be lifted with a forklift only if the forks are spread at least 5'-0" apart.

Slings should be located near the cross boards.

Loads should always be checked for secure hook-up, proper balance, and lift.

Tag lines should be used if necessary to control the load during lifting, especially if operating in the wind.

When moving panel bundles, extreme caution should be taken to prevent damage to the panel edges. Un-crated panels should be supported at each end and at 8'-0" spaces.

ELECTRICAL CONDUCTANCE

Since metal panels are excellent electrical conductors, a possible cause of injury is the contact of metal panels with power lines during handling and installation. Appropriate precautions should be employed. The installation process must be routed to avoid contact with all power lines and high voltage services and equipment. All tools and power cords must be properly insulated and grounded and the use of approved ground fault circuit breakers is recommended.

HANDLING PANELS IN STRONG WINDS

Do not attempt to move panels in strong winds. Wind pressure can easily cause someone to lose their balance and fall.

Loose, wind borne panels are very dangerous and can cause severe injury and damage. Secure open bundles of panels with banding or tie-downs so wind will not propel the panels. Clamp individual unsecured panels to the structural members.

ALLOWABLE TOLERANCES

Variation from plumb: 1/8" in 20'-0" Variation from level: 1/8" in 20'-0" Variation from True Plain: 1/8" in 20'-0"

NOTE:

Although these structure alignment tolerances will allow for reasonable component fit-up and ease of installation, the extremes of these tolerances may, in limited instances, be aesthetically objectionable. For this reason, discretion should always be exercised, and closer tolerances may be necessary in some instances.

GENERAL INFORMATION

INSTALLATION (CONT.)

FIELD CUTTING PANELS and FLASHINGS

It is recommended that panels and flashing be cut with electric or hand shears or electric nibblers to provide a clean, undamaged cut. Electric shears work well for long straight "rip" cuts. Hand snips are used for smaller cuts when power shears or nibblers are not practical.

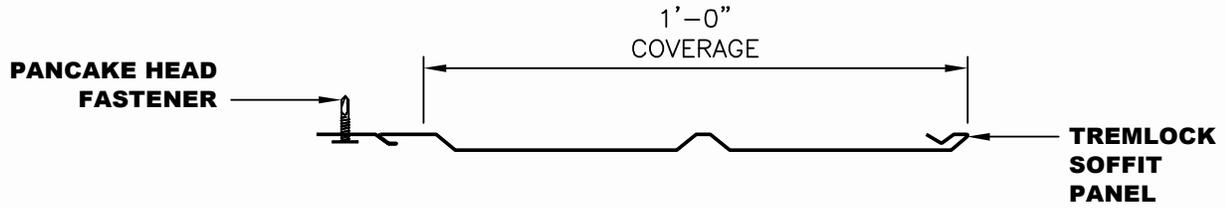
Whenever possible, fit the material so that the factory cut edge is exposed and the field cut edge is covered.

CAUTION!!!

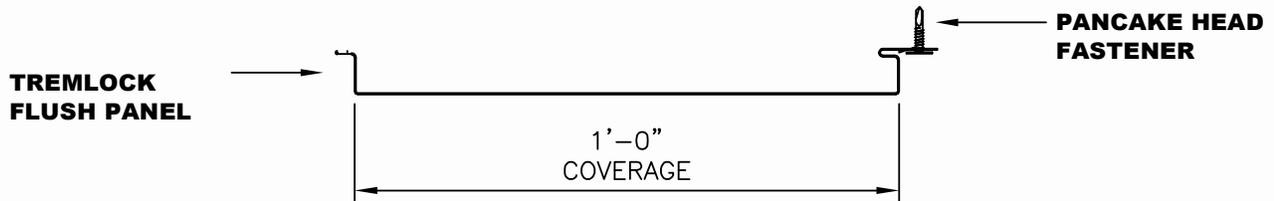
NEVER USE ABRASIVE SAWS (circular saws with friction disks). Abrasive saws create extreme heat, burning away the protective metallic coating from the cut and causing corrosion. Also, abrasive saw dust contains fine, hot-steel particles which can accumulate on the panel and flashing surfaces where they can cause staining and rusting. Rust caused by abrasive saw damage or abrasive dust particles is excluded from warranty coverage.

For cosmetic reasons, avoid marking the panels where markings will be visible on the finished surface. Use only felt tip markers. Never use graphite pencils. Graphite causes rapid corrosion of Galvalume coating and (rusting) of the panel. Such corrosion from graphite pencil marks is excluded from warranty coverage.

FASTENER PATTERNS



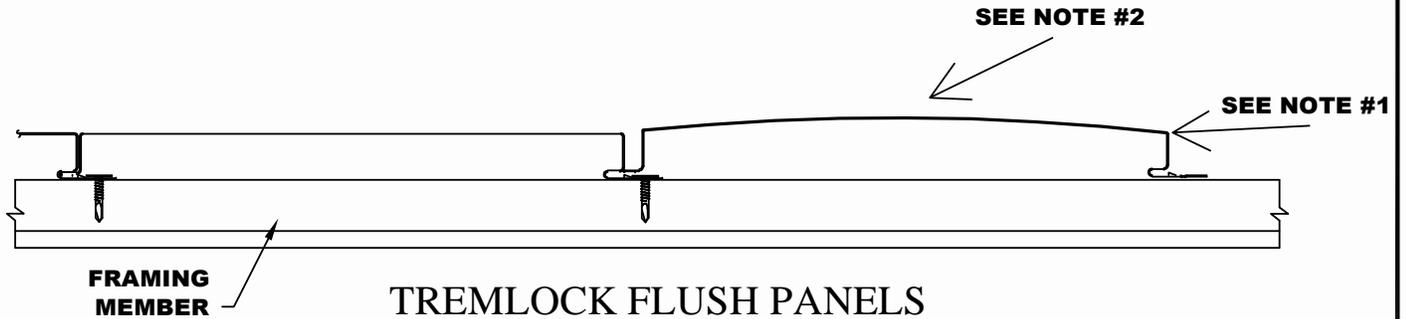
TremLock Soffit Panel



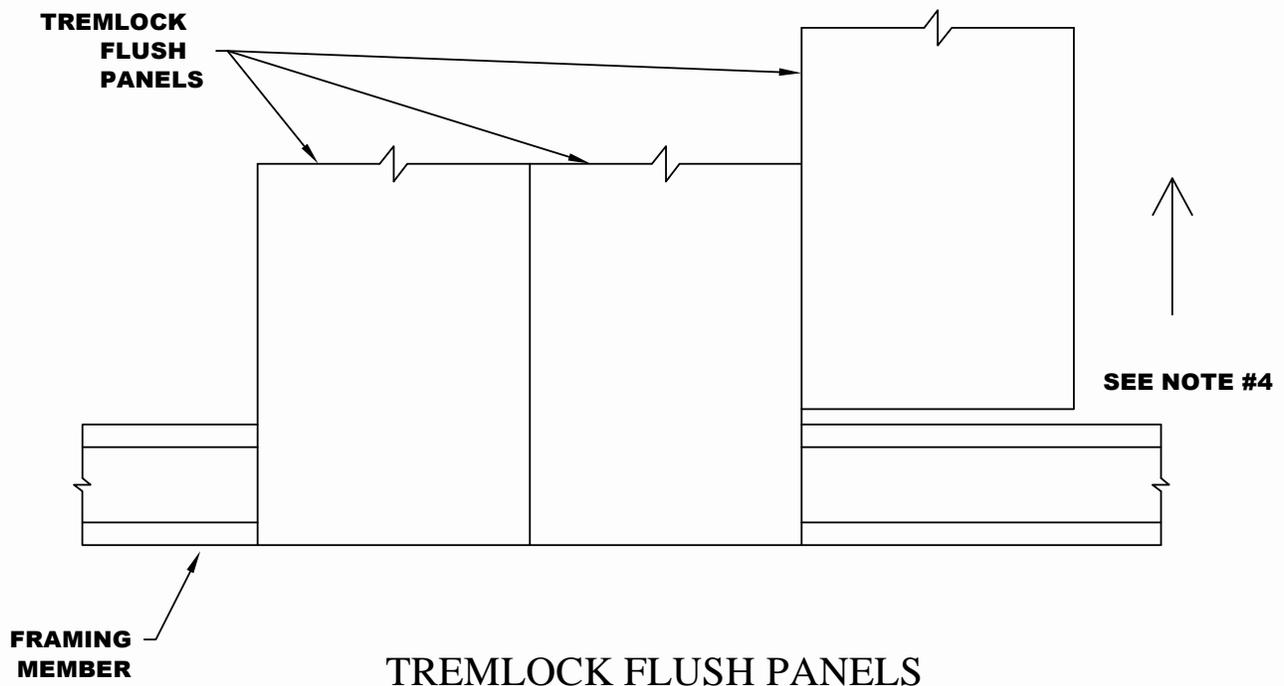
TremLock Flush Panel

GENERAL INFORMATION

INSTALLATION TECHNIQUES



- NOTES:**
1. Using hand, push panel until a bow is formed in the panel.
 2. Using rubber palmed gloves and an angled forced blow, slap bow with palm of hand to snap male leg into female leg.
 3. To verify panels without sealant are fully engaged, panels will slide lengthwise.
 4. To separate panels without sealant, slide the panels lengthwise out of the female leg.



GENERAL INFORMATION

INSPECTION

Inspection of Panel Assembly during Installation

During the panel installation, all areas of the system assembly must be frequently inspected to ensure the correct assembly in accordance with the erection drawings and this installation guide. Although some of these inspection items can be satisfactorily conducted post-assembly, others can only be done as work progresses.

Failure to assemble the system correctly could result in performance problems which may require costly corrective work or replacement. Incorrect installation may also void system warranties.

Inspection List

A: Drawings and Details

Verify that the erection drawings have been reviewed for conflict with actual field conditions. Also, confirm that the drawings and this manual are the latest issuance with the latest revisions. To confirm this manual, please visit Tremco Roofing and Building Maintenance's web site at: <http://www.Tremcoroofing.com>

B: Panel Length

Verify that the panel lengths match the lengths on the invoice and are sufficient for the project.

C: Flashings and Penetrations

Inspect and Verify:

1. All flashings are correctly assembled and tightly fitted.
2. Required sealants are correctly positioned on the "wet" side of the fasteners and in complete contact with the adjoining surfaces without voids or interruptions.
3. Flashing splices are correctly lapped, sealed and fastened.
4. Where critical, confirm pigtail sealants.
5. All fasteners are the specified type, size, length, finish and spacings. Confirm that the fasteners are properly seated with sealing washers in full contact with the flashing surface and not split or otherwise damaged.

D: Surface Conditions

Inspect and Verify:

1. That panel finish has not been excessively scratched, dented or abraded.
2. That no dissimilar metals are in electrolytic contact with panels or flashings and the same are free of graphite pencil markings.
3. All other corrosive elements have not contacted the panels, e.g. strong acids, alkalis or other chemicals or fumes, wet cementitious mortars, stucco, copper condensate, or run-off from treated lumber.

GENERAL INFORMATION

INSPECTION

D: Surface Conditions (cont.)

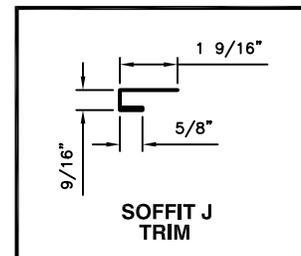
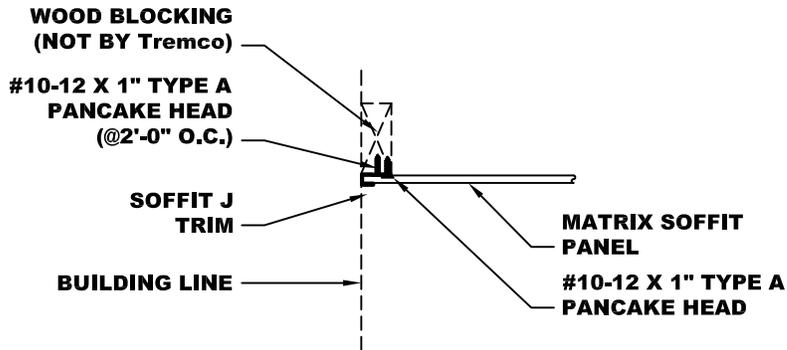
Inspect and Verify:

4. Waste, debris and construction residuals are not left on the panels such as: Tools, material drop-off, fasteners, wire, staples, drill and nibbler chips, saw and file particles, etc.
5. Panels and flashing are not being subjected to long term wet conditions such as: Standing water, consistent source of steam, mist, spray, wet debris, wet insulation or other moisture holding material.
6. Materials have not been subjected to heat sources such as: Cutting torches, abrasive saws, etc.

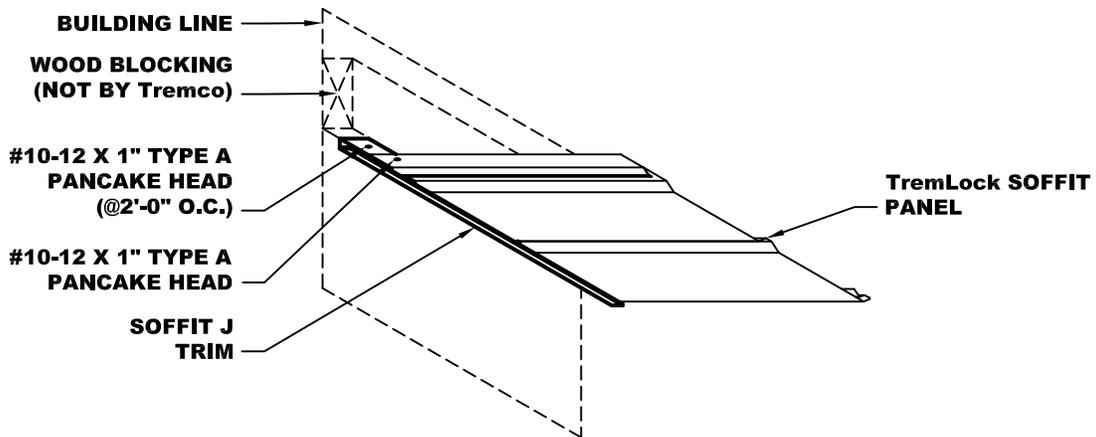
E: Materials, Accessories and Ancillaries by Others

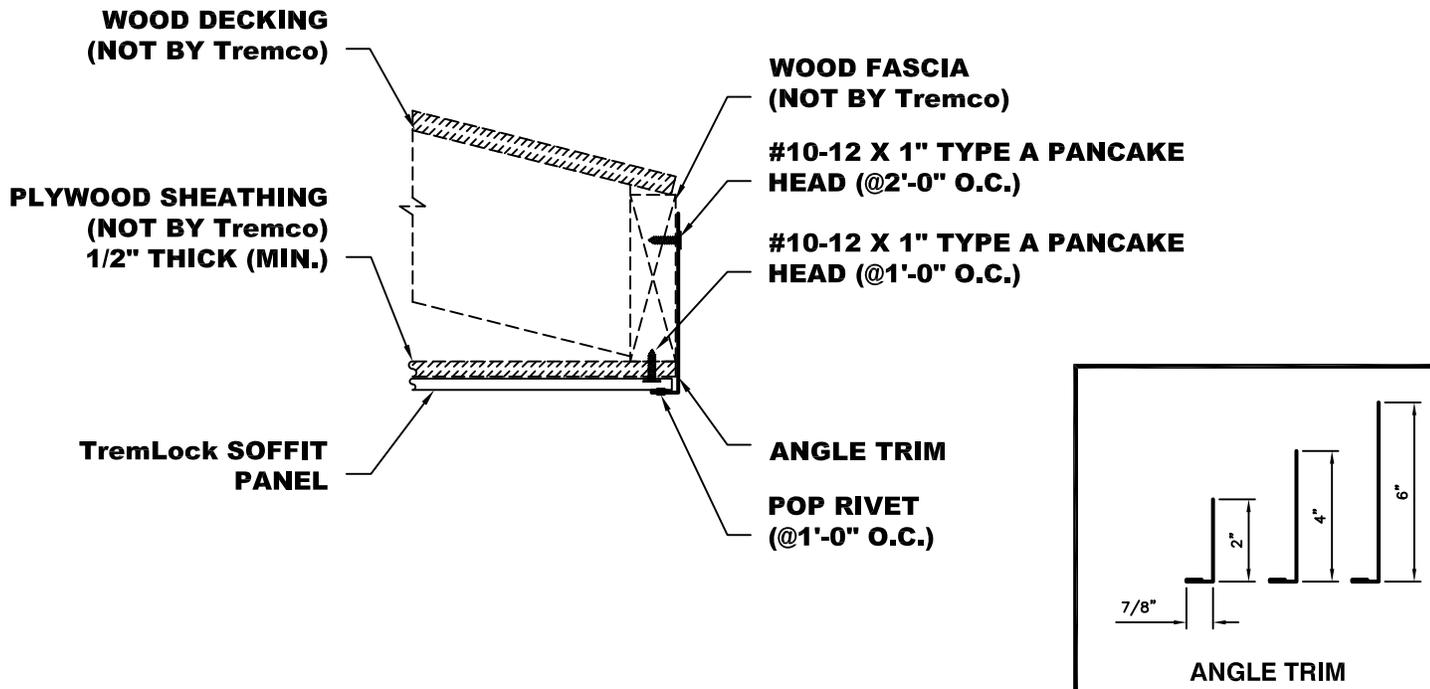
Inspect and Verify:

1. All flashings, accessories, and ancillary items not furnished by Tremco Roofing and Building Maintenance are compatible both metallurgically and from a service life standpoint with Tremco Roofing and Building Maintenance material.
2. Tremco Roofing and Building Maintenance cannot be responsible for the performance of materials which are not provided, specified or approved by Tremco Roofing and Building Maintenance.

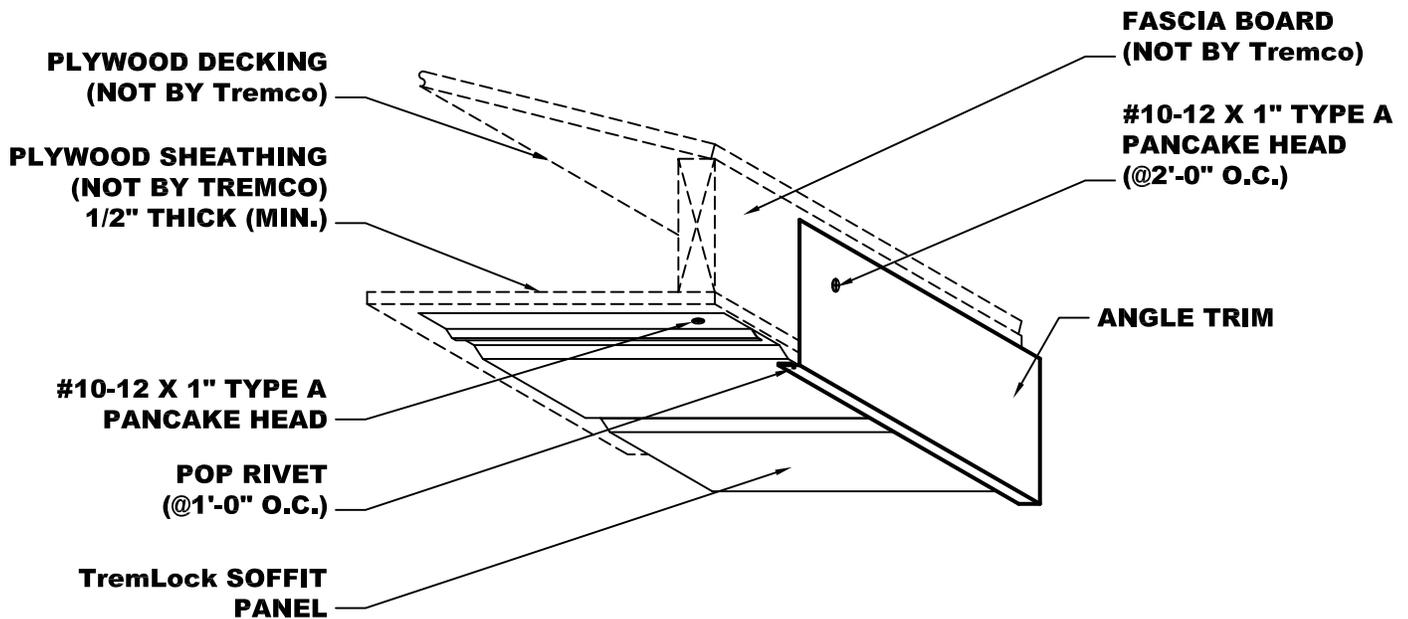


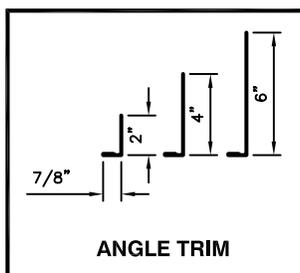
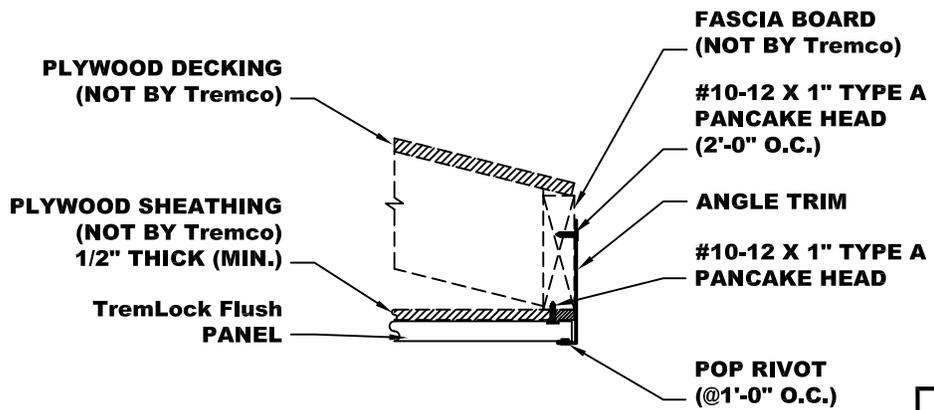
- NOTES:**
1. Trim to start and end at building lines.
 2. Attach trim to blocking with #10-12 x 1" Type A Pancake Head at 2'-0" O.C.
 3. Attach panel to sheathing with #10-12 x 1" Type A Pancake Head.



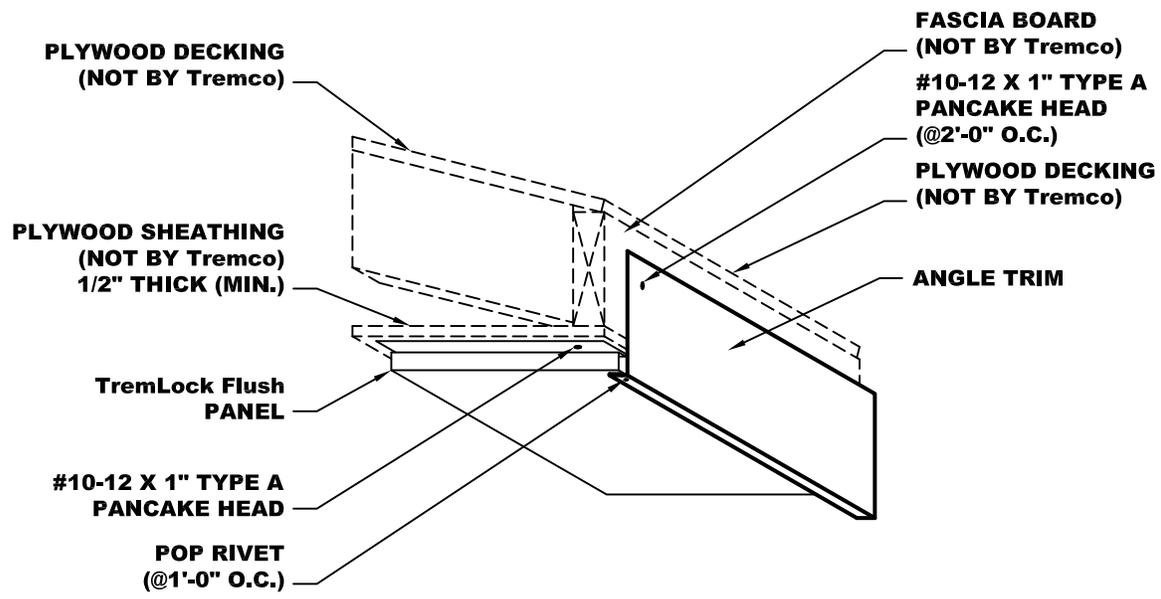


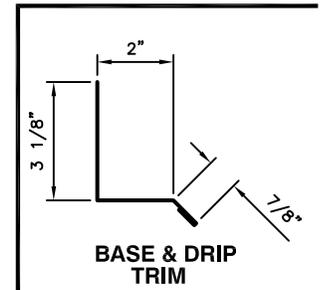
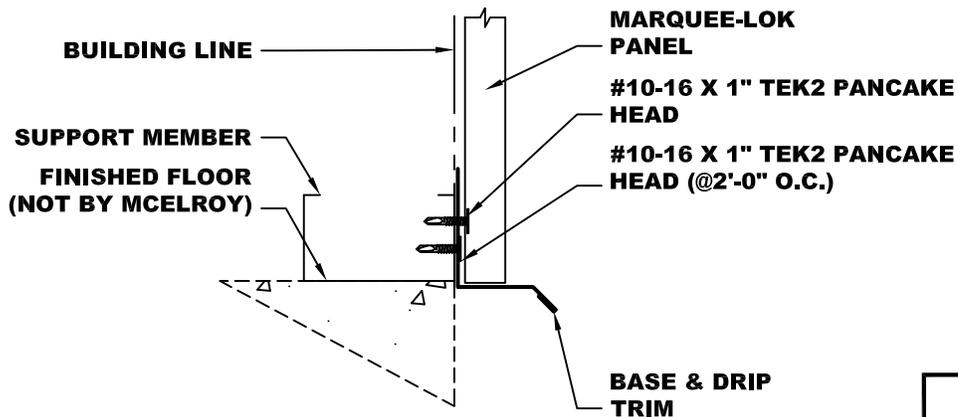
- NOTES:**
1. Trim to start and end at building lines.
 2. Attach trim to blocking with #10-12 x 1" Type A Pancake Head at 2'-0" O.C.
 3. Attach panel to sheathing with #10-12 x 1" Type A Pancake Head.



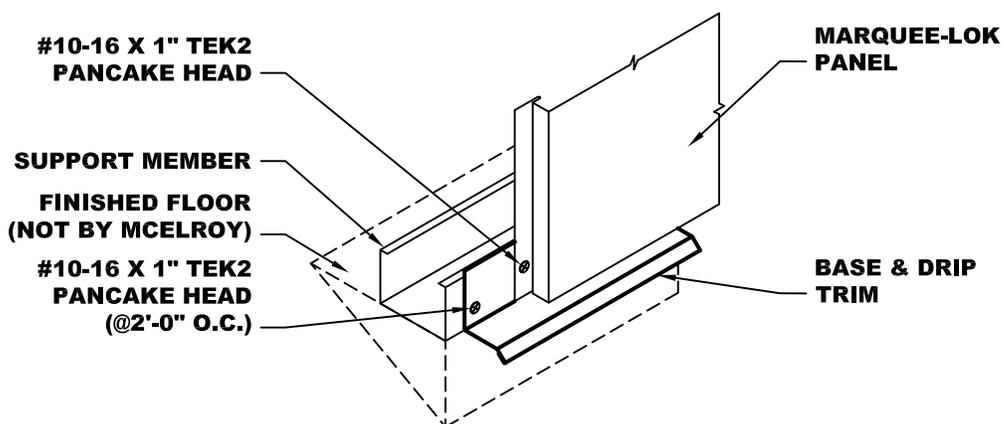


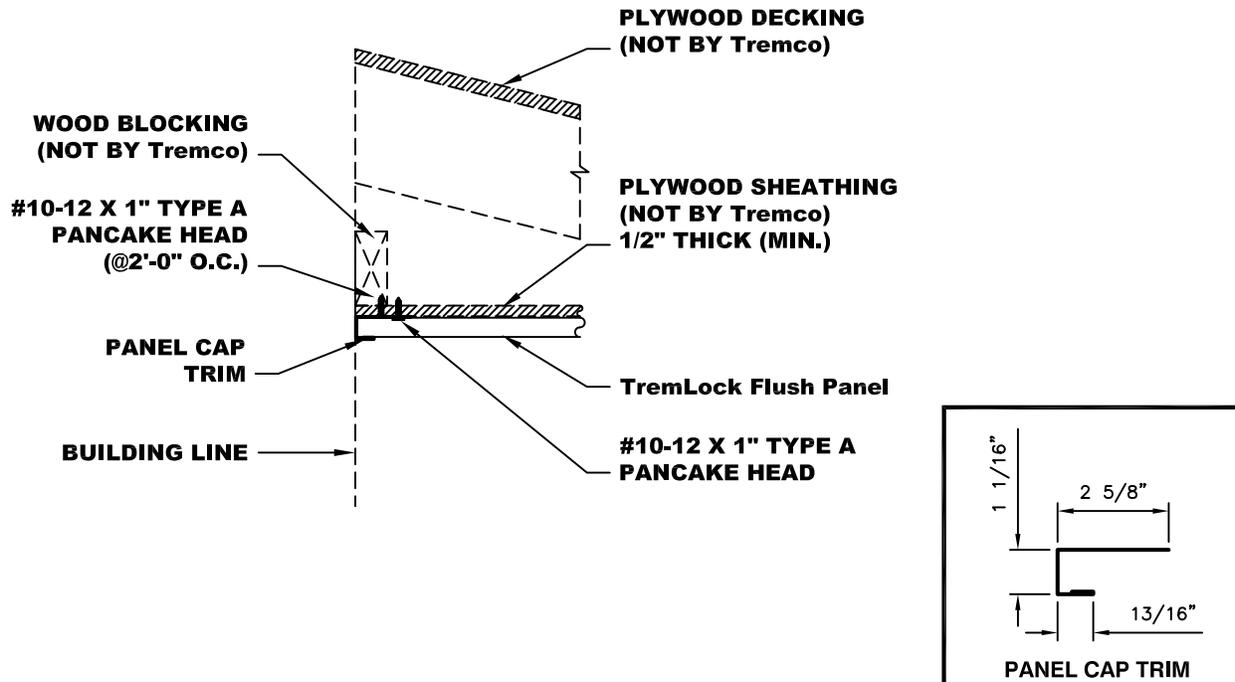
- NOTES:**
1. Trim to start and end at building lines.
 2. Attach trim to blocking with #10-12 x 1" Type A Pancake Head at 2'-0" O.C.
 3. Attach panel to sheathing with #10-12 x 1" Type A Pancake Head.



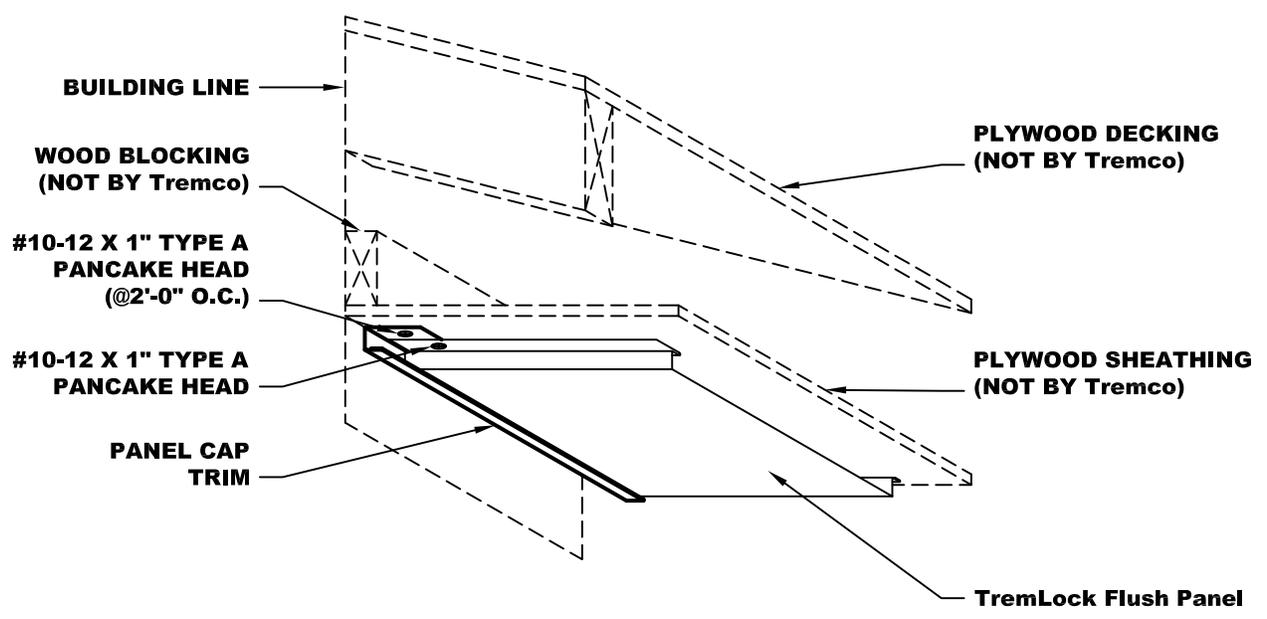


- NOTES:**
1. Trim to start and end at building lines.
 2. Attach trim to Support Member with #10-16 x 1" TEK2 Pancake Head at 2'-0" O.C.
 3. Attach panel to framing with #10-16 x 1" TEK2 Pancake Head.





- NOTES:**
1. Trim to start and end at building lines.
 2. Attach trim to blocking with #10-12 x 1" Type A Pancake Head at 2'-0" O.C.
 3. Attach panel to sheathing with #10-12 x 1" Type A Pancake Head.



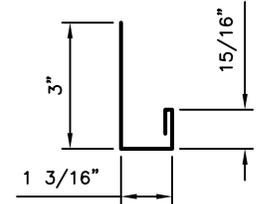
**TREMLOCK FLUSH
PANEL**

HEADER

**#10-12 X 1" TEK2 PANCAKE
HEAD (@2'-0" O.C.)**

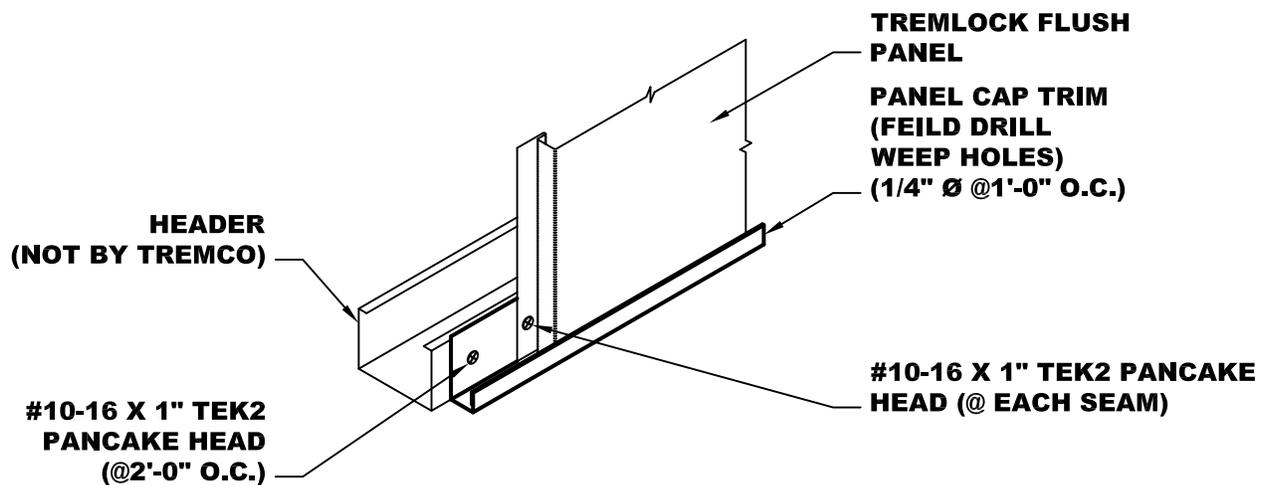
**#10-16 X 1" TEK2 PANCAKE
HEAD (@ EACH SEAM)**

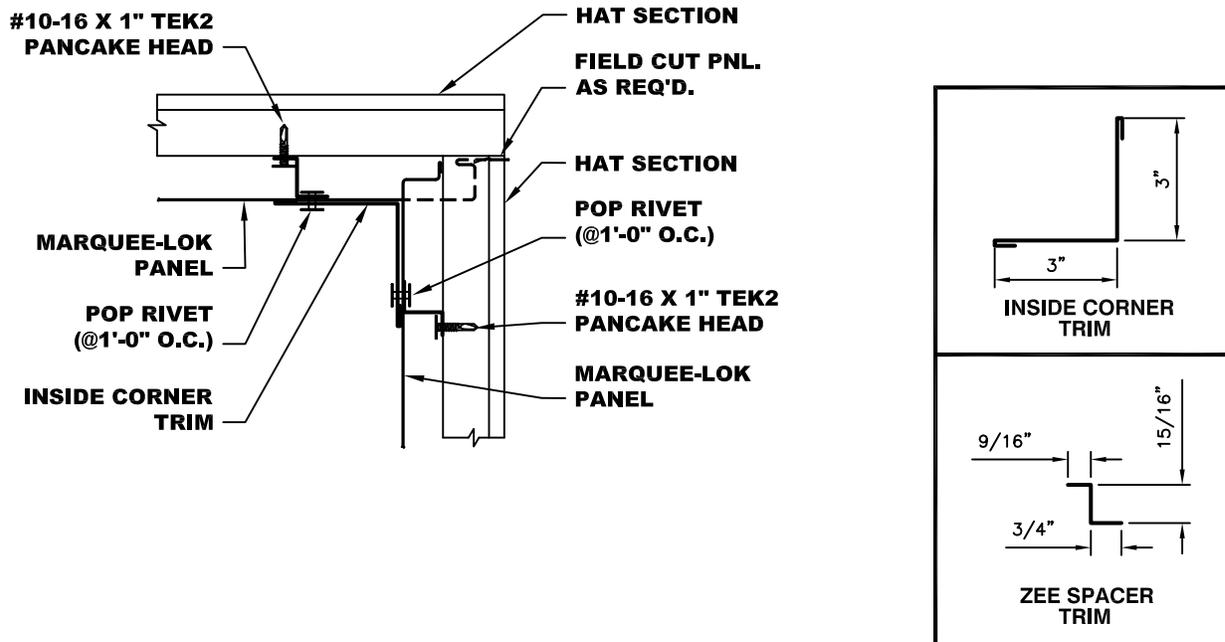
**PANEL CAP TRIM
(FIELD DRILL
WEEP HOLES)
(1/4" Ø @1'-0" O.C.)**



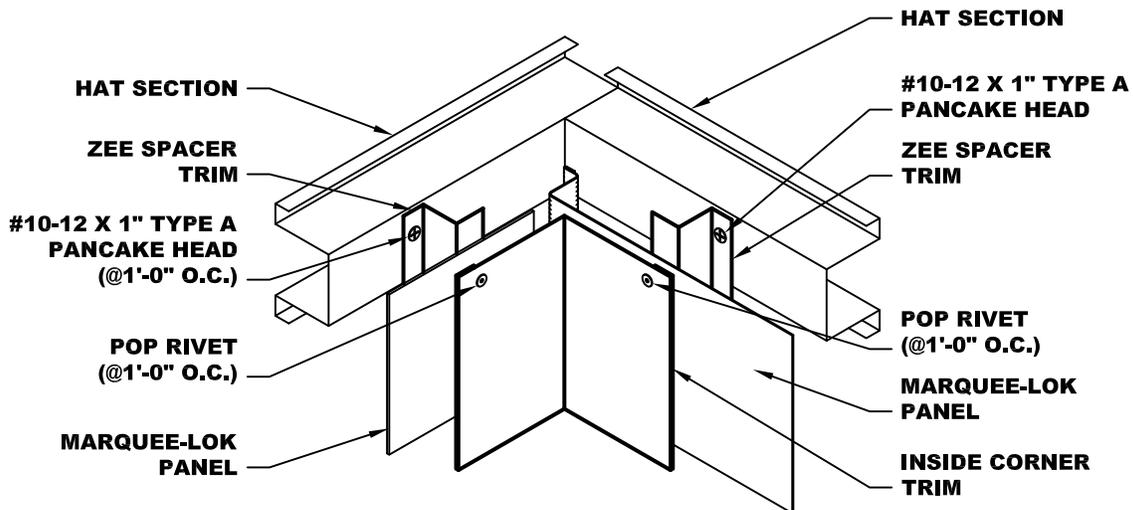
**PANEL CAP
TRIM**

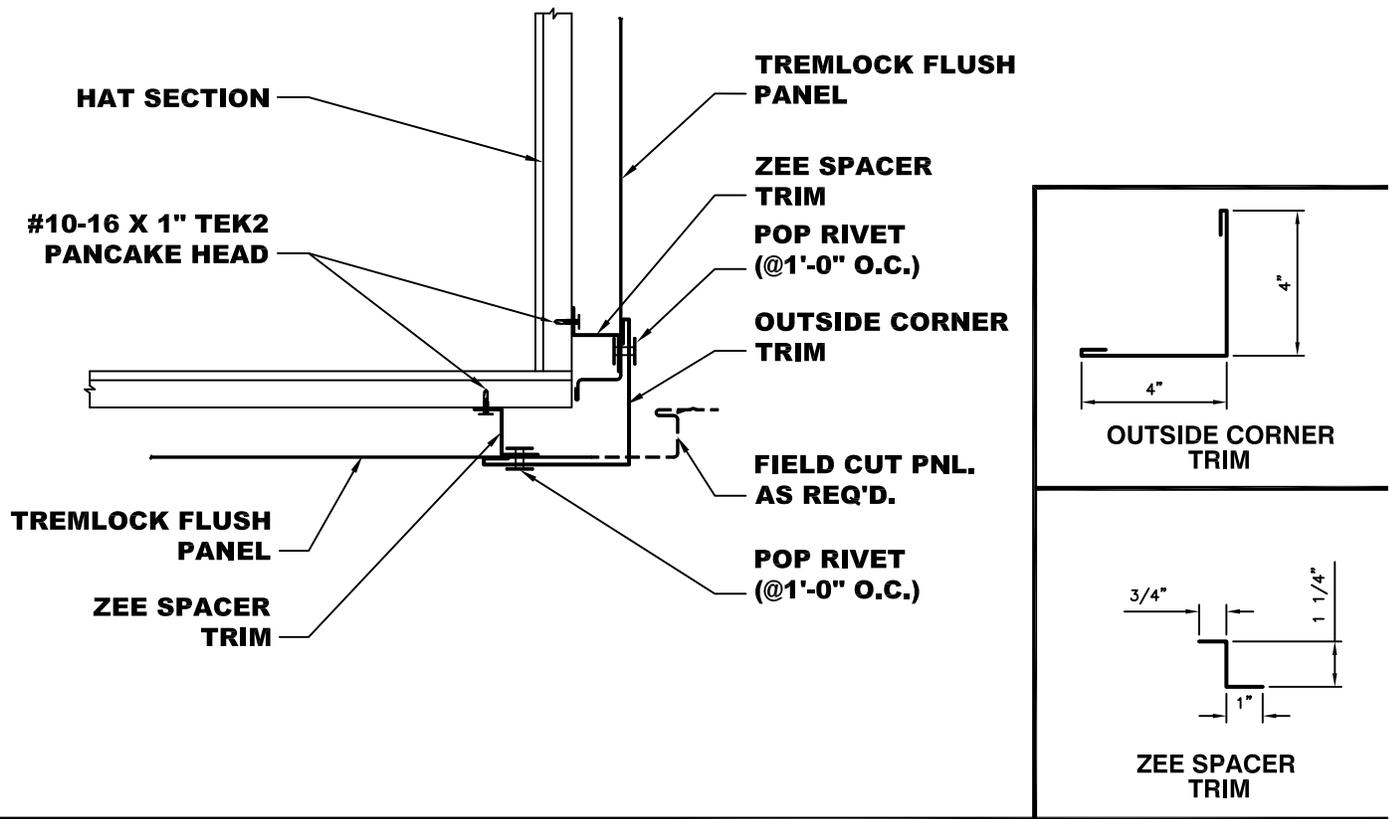
- NOTES:**
1. Trim to start and end at door/window framing.
 2. Attach trim to header with #10-16 x 1" TEK2 Pancake Head at 2'-0" O.C.
 3. Attach panel to framing with #10-16 x 1" TEK2 Pancake Head.



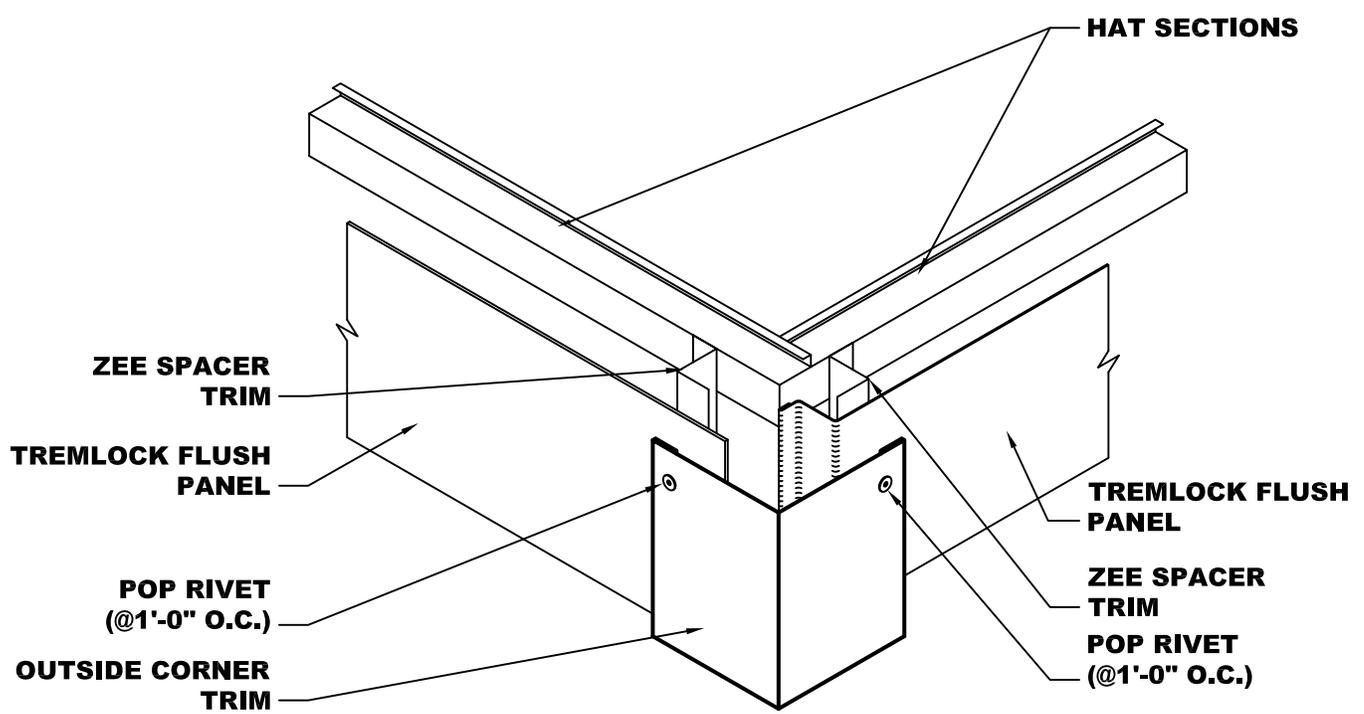


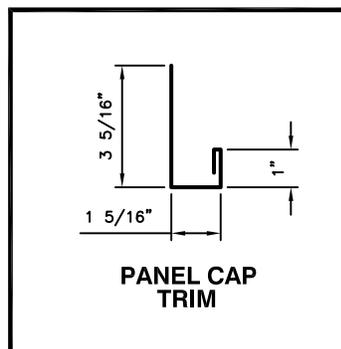
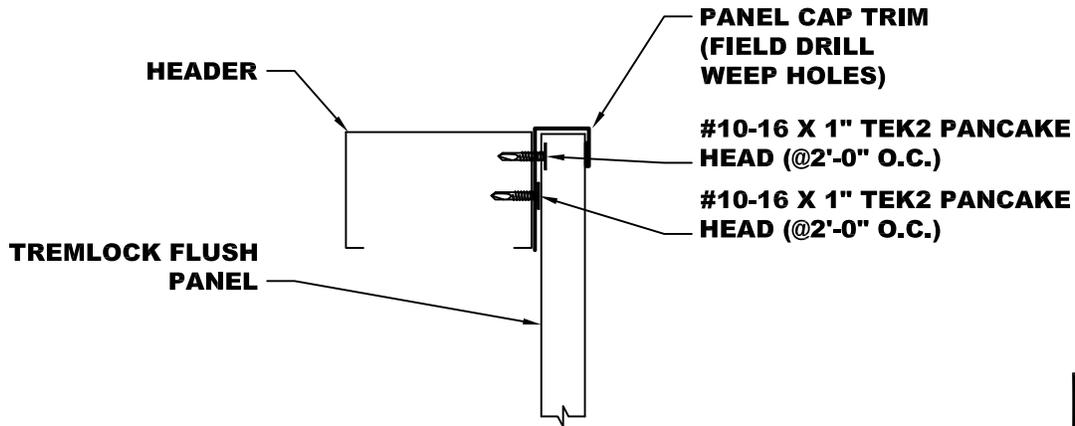
- NOTES:** 1. Locate and attach Zee Spacer Trim with #10-16 x 1" TEK2 Pancake Head fastener.
 2. Attach panels to framing with #10-16 x 1" TEK2 Pancake Head fasteners.
 3. Attach Inside Corner with Pop-Rivets @ 1'-0" O.C.



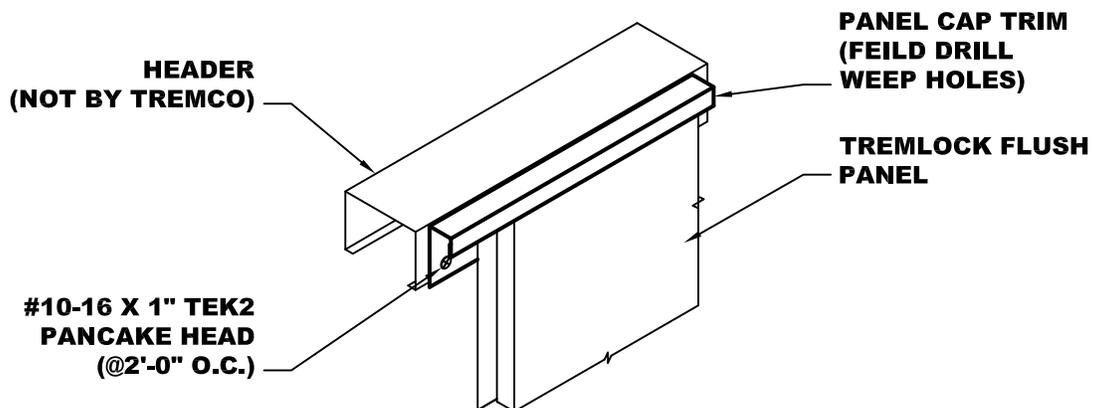


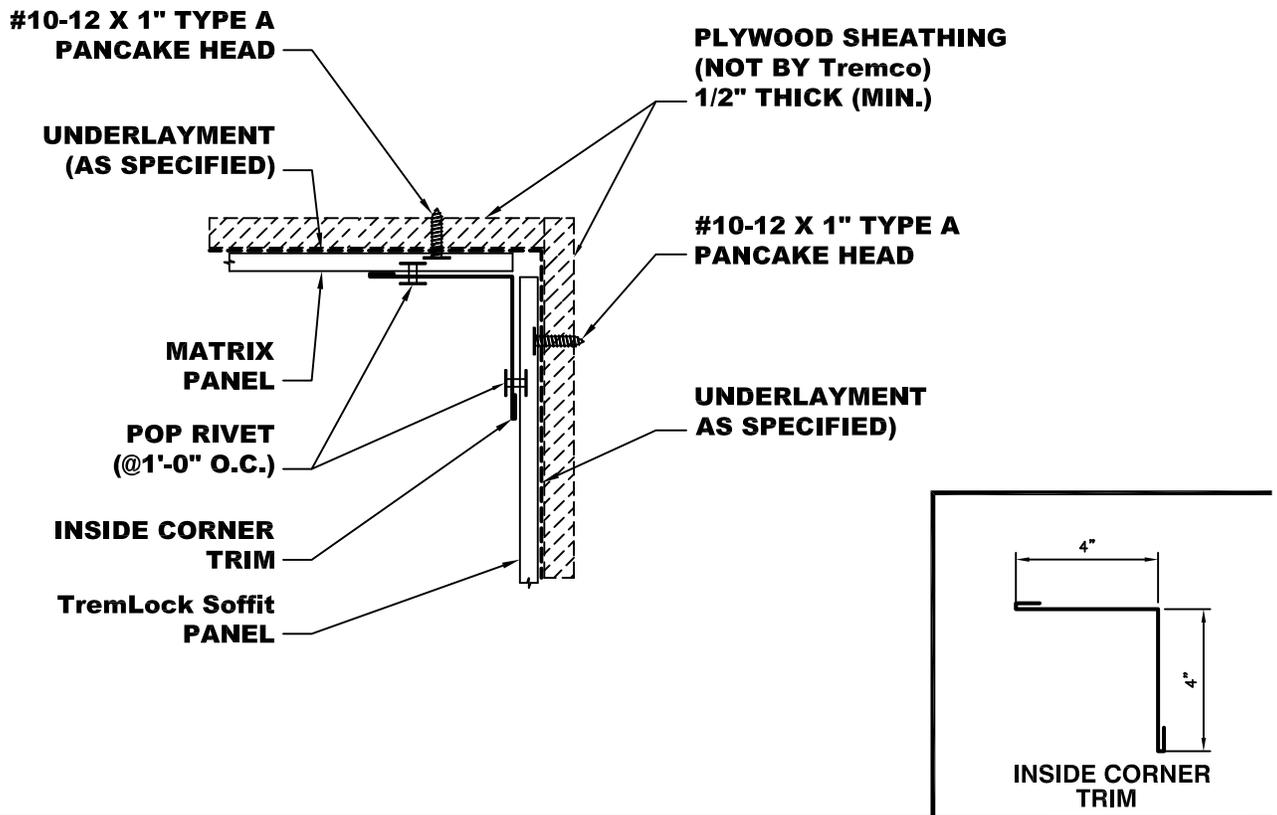
- NOTES:**
1. Locate and attach Zee Spacer Trim with #10-16 x 1" TEK2 Pancake Head fasteners.
 2. Attach panels with #10-12 x 1" TEK2 Pancake Head fasteners.
 3. Attach Outside Corner trim with Pop Rivets @1'-0" O.C..



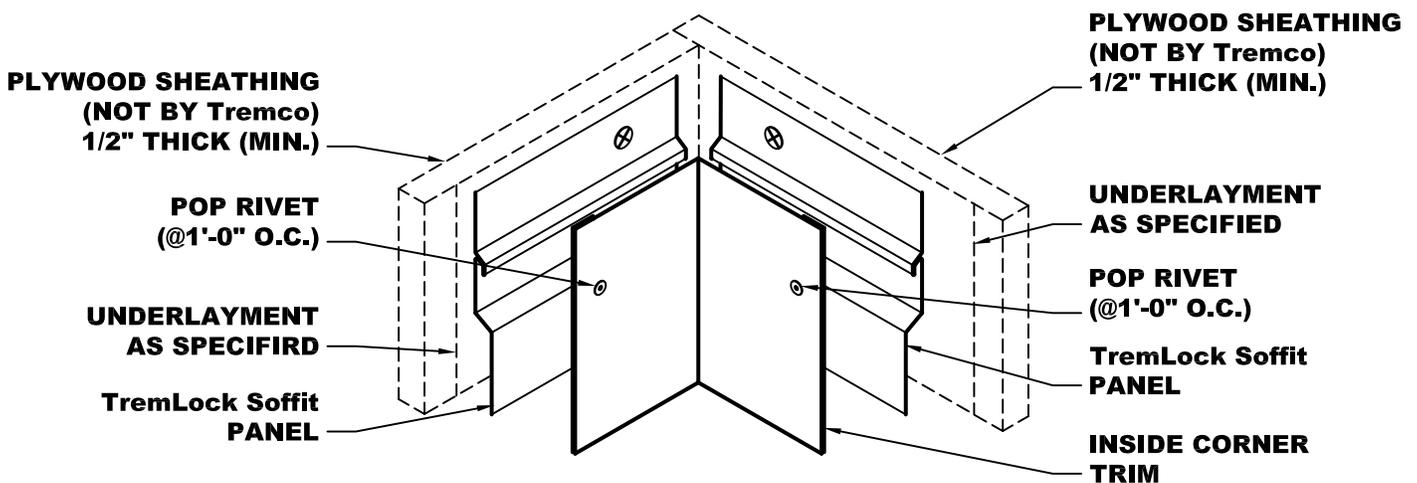


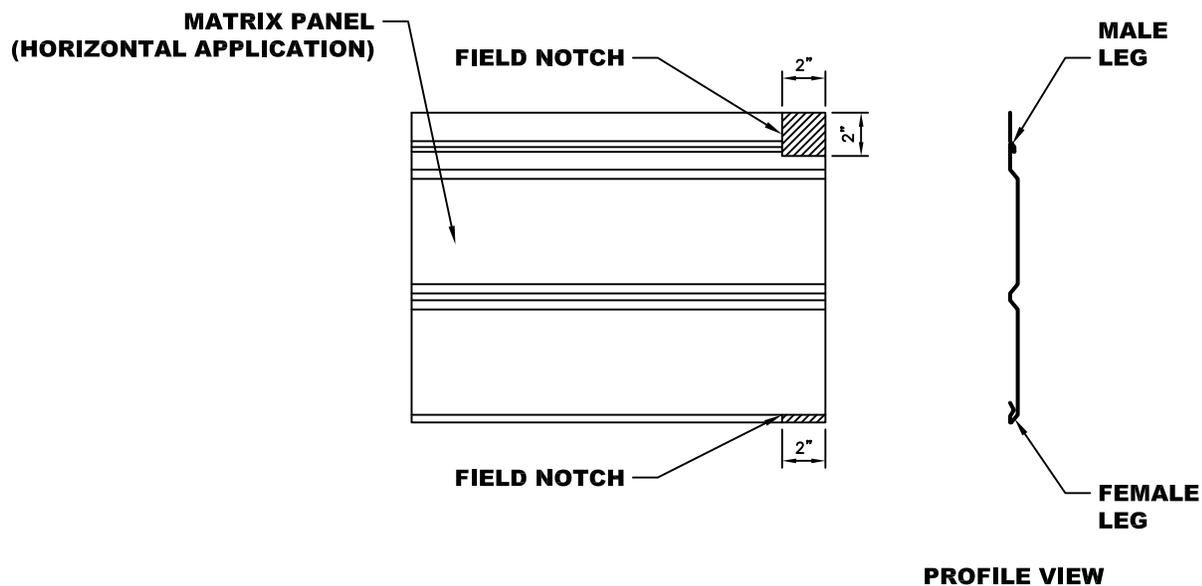
- NOTES:**
1. Trim to start and end at window framing.
 2. Attach trim to header with #10-16 x 1" TEK2 Pancake Head at 2'-0" O.C.
 3. Attach panel to framing with #10-16 x 1" TEK2 Pancake Head.



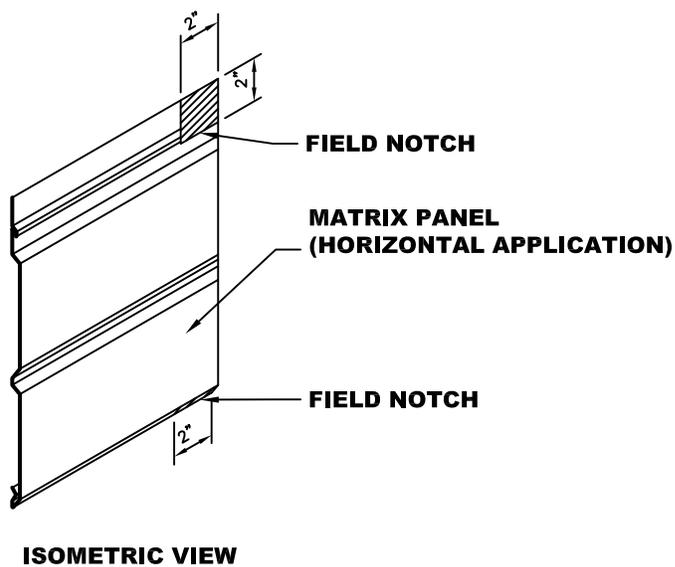


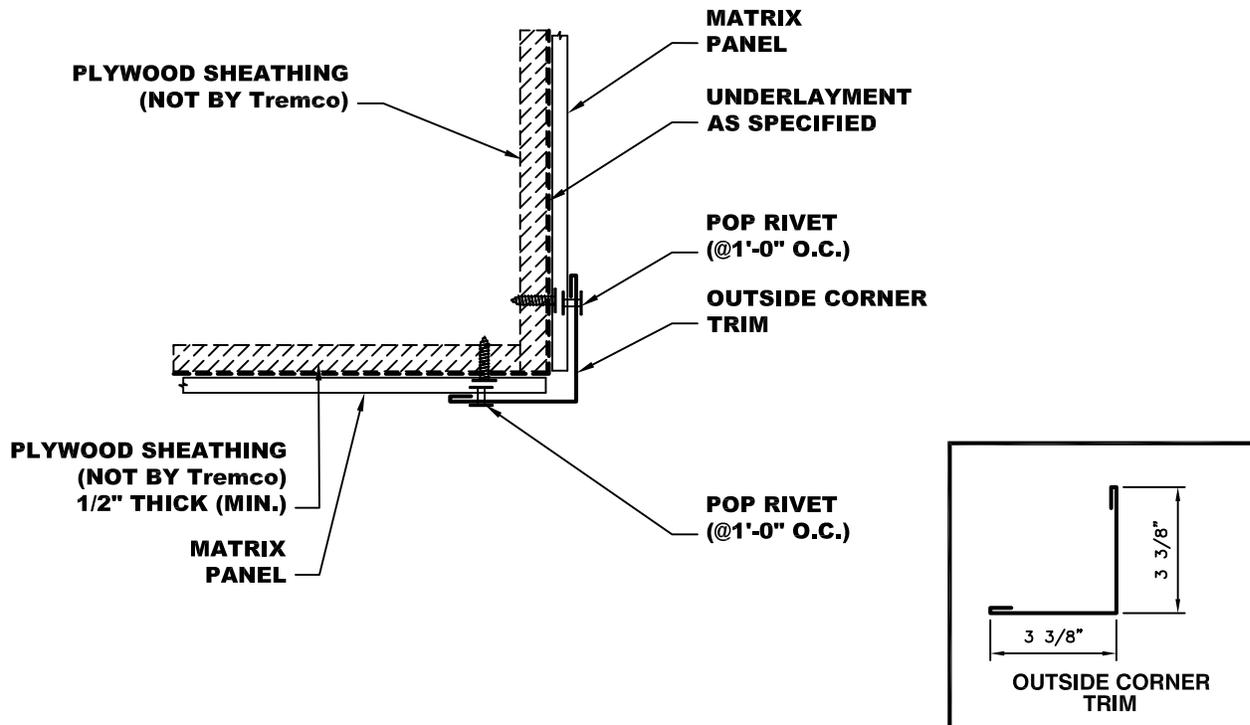
- NOTES:**
1. Trim to start and end at building lines.
 2. Attach panels to sheathing with #10-12 x 1" Type A Pancake Head.
 3. Attach trim to panels with Pop Rivet @1'-0" O.C.



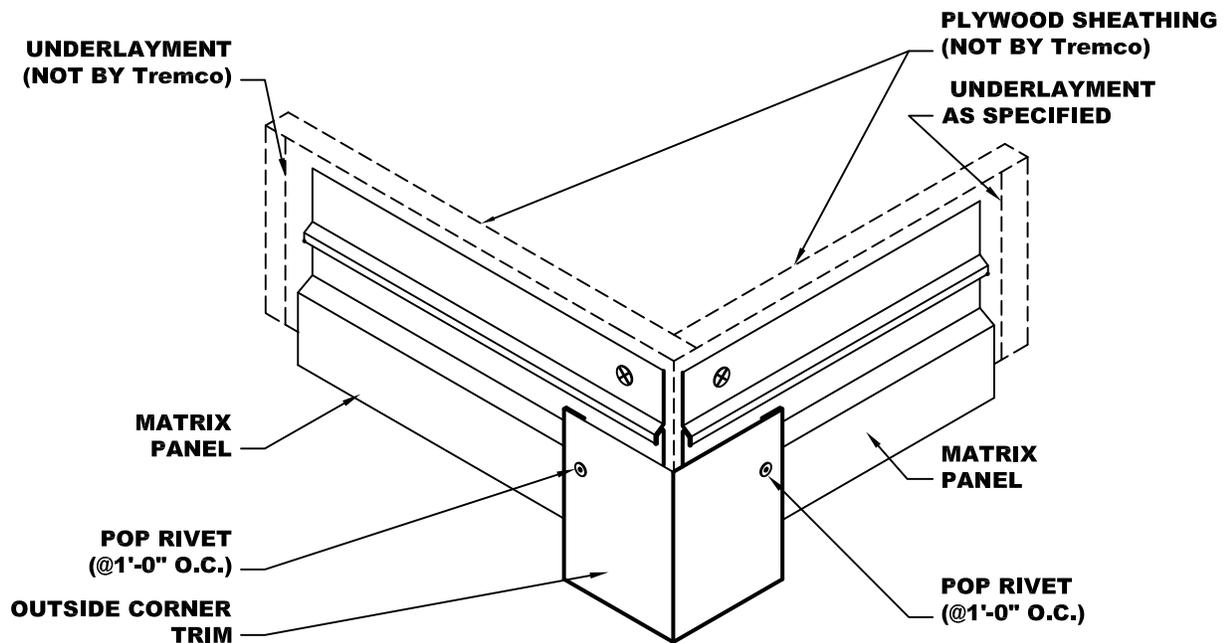


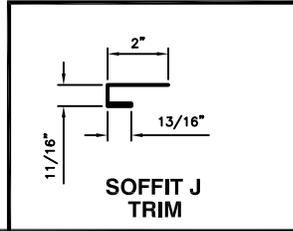
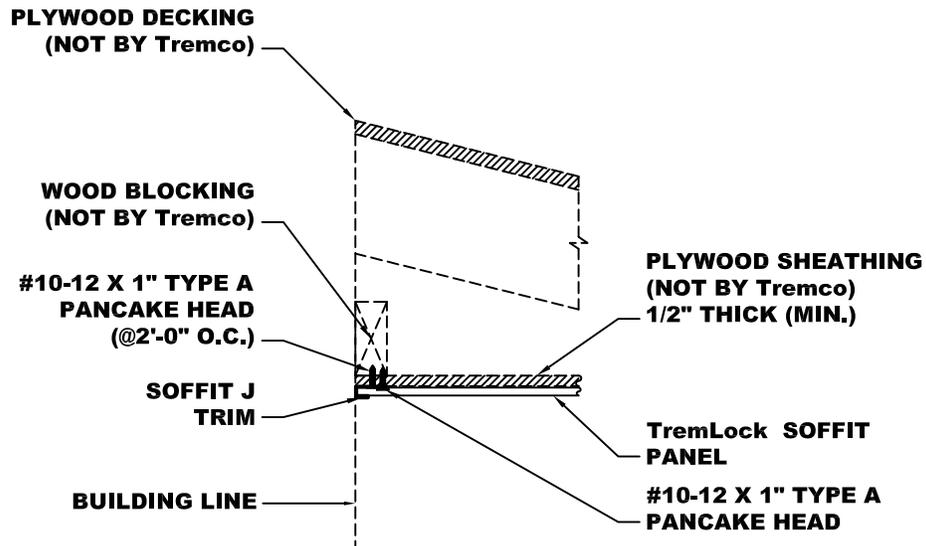
NOTES: 1. Field notch male leg 0'-2" from end of panel and 0'-2" from edge of panel.
2. Field notch female leg 0'-2" from end of panel.



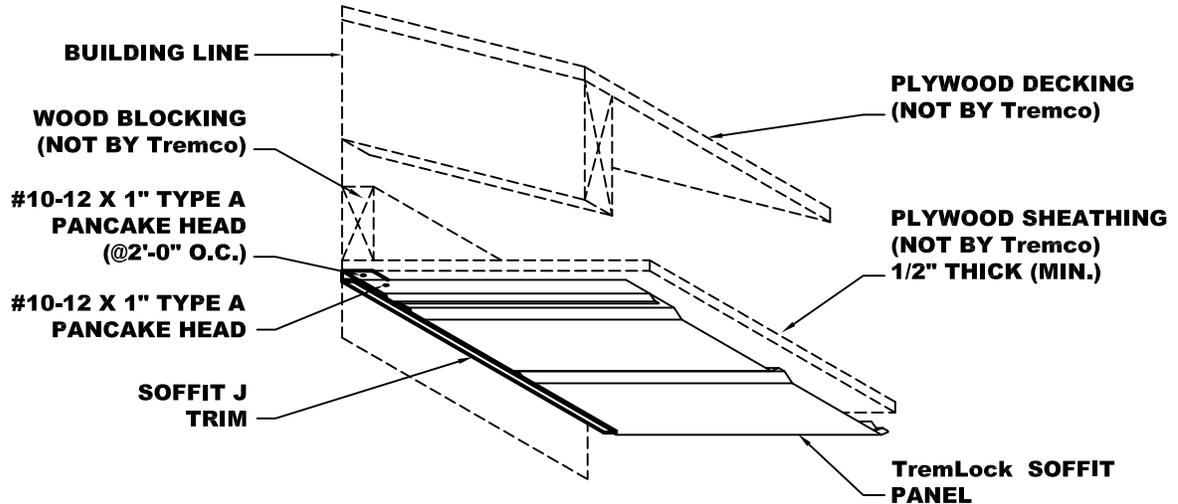


- NOTES:**
1. Trim to start and end at building lines.
 2. Attach panel to sheathing with #10-12 x 1" Type A Pancake Head.
 3. Attach trim to panel with Pop Rivet @1'-0" O.C.





- NOTES:**
1. Trim to start and end at building lines.
 2. Attach trim to blocking with #10-12 x 1" Type A Pancake Head at 2'-0" O.C.
 3. Attach panel to sheathing with #10-12 x 1" Type A Pancake Head.



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ROOFING & BUILDING MAINTENANCE