

October 2, 2026

TO: PLAN HOLDERS LIST

**SUBJECT: PROCUREMENT NO. 072026-1044
5301 8TH ST E ROOF REPLACEMENT**

ADDENDUM NUMBER 01

This addendum is issued to amend the following:

SUBSTITUTION:

See attached form.



Submittal Review

Date: September 30, 2026

Project: 5301 8th St E Roof Replacement

Port of Tacoma Project Number: 101716.01

GFT Project No: A0000295.000

To: Port of Tacoma

This Document is Transmitted Digitally Only

Submittal No.: 001

Description: Material Substitution Request

Reference: SECTION 07 41 00

☐ 1. NO EXCEPTIONS TAKEN

☐ 4. REJECTED – SEE REMARKS

☒ 2. MAKE CORRECTION AS NOTED

☐ 5. RECEIPT ACKNOWLEDGED (NOT SUBJECT TO ENGINEER'S REVIEW)

☐ 3. AMEND AND RESUBMIT

CHECKING IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR: DIMENSIONS, WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE; FABRICATION PROCESS AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF THEIR WORK WITH THAT OF ALL OTHER TRADES; AND THE SATISFACTORY PERFORMANCE OF THEIR WORK

GFT

CHECKED BY:

DATE:

Charles Holt

30 September 2026

COMMENT NO.	REFERENCE	COMMENT
1	General	No Exception Taken to substituting of the roofing system MS-200 mechanically seamed aluminum .040 panel manufactured by TMP (Taylor Metal Products) if coastal warranty is provided per the specifications and the 180 degree seam detail is used. All other components must be substantially similar to the basis of design
2	General	Provide metallic silver finish with a SRI of 60
3	General	Manufacture must confirm product meets load charts for region and the field spacing of the structural purlins
4	General	Provide Thermal spacer blocks as indicated in drawings per manufacturer recommendations.

PROJECT TITLE: 5301 8th St E Roof Replacement

PROJECT NO.: 101716.01

SUBMITTED BY: Taylor Metal Products

CONTRACT NO.: 072026-1044

PRIME/SUB/SUPPLIER: Taylor Metal Products

DATE: 09/28/2026

Specification Title: Preformed Metal Standing Seam Roofing

Section No.: 07 41 00

Description: 18" wide w/ 2" seam mechanically seamed

Paragraph: 2.01 - 2.03

.040 Alum panel: Petersen Tite-Loc Plus

Page No.: - 2

Proposed Substitution: MS-200™ Mechanically Seamed Panel by TMP

Trade Name: MS-200™ Mechanically Seam Panel

Model No.: MS-200

Manufacturer: Taylor Metal Products

Address: 4566 Ridge Drive NE Salem, OR 97301

Phone No.: (503) 581-8338

Installer: TBD

Address: _____

Phone No.: _____

Differences between proposed substitution and specified product: MS-200™ is the exact same in fit, form, and function as PAC-CLAD Tite-Loc Plus.

■ Point-by-Point comparative data attached - REQUIRED

Reason for not providing specified item: The leadtime TMP can provide will shorten the construction schedule by 14 days, with a cost savings of 20% to the owner.

Similar Installation: https://taylormetal.com/galleries/?filter_galleries_by_category=mechanically-seamed-panels

Project: See link above for previous job gallery

A/E: _____

Address: _____

Owner: _____

Date Installed: _____

Proposed substitution affects other parts of Work: ☒ No ☐ Yes; explain _____

Supporting Data Attached:

☒ Drawings ☒ Product Data ☐ Samples ☒ Tests ☒ Reports ☒ Other: Warranty info

Applicable to Substitution Requests During Construction:

Proposed to Port for accepting substitution: \$ _____

Proposed substitution changes Contract Time: ☐ No ☐ Yes [Add] [Deduct] _____ # days.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.

- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay Baseline Project Schedule.
- Cost data as stated above is complete. Claims for additional costs related to accepted substitution which may subsequently become apparent are to be waived.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.
- Coordination, installation, and changes in the Work as necessary for accepted substitution will be complete in all respects.

Submitted By: Josh Erickson

Signed By: Josh Erickson Firm: Taylor Metal Products

Address: 1010 N Nelson St Spokane, WA 99202

Telephone: (509) 535-8667 Email: josh.erickson@taylormetal.com

Attachments: Comparison, Sales Data, Technical Data, Warranty Information

A/E's REVIEW AND RECOMMENDATION

- ☐ Approved Substitution
- ☐ Approved Substitution as Noted
- ☐ Reject Substitution - Use specified materials.
- ☐ Substitution Request received too late - Use specified materials.

Signed by: _____ Date: _____

ENGINEER'S REVIEW AND ACTION

- ☐ Substitution Approved - Make submittals in accordance with this Specification Section. If during construction, prepare Change Order.
- ☐ Substitution Approved as Noted - Make submittals in accordance with this Specification Section. If during construction, prepare Change Order.
- ☐ Substitution Rejected - Use specified materials.
- ☐ Substitution Request received too late - Use specified materials.

Signed by: _____ Date: _____

END OF SECTION

COMPARISON CHART PacClad Tite Lok Plus/Taylor MS-200

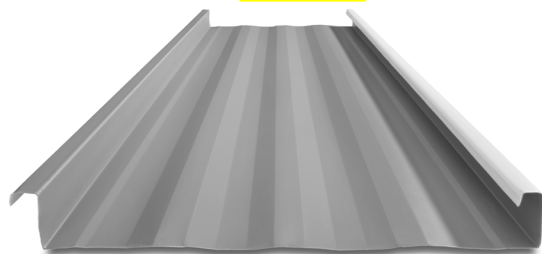
	<u>PacClad</u> Tite Lok Plus 2	<u>Taylor</u> MS-200
Standard Coverage	18"/16"	18"/16"
Seam Height	2"	2"
Single and Double Seam	Yes	Yes
Stiffening Ribs/Striations	Yes	Yes
Clip Gauge	18 ga	18 ga
Standard Color Choices	22 ea	22 ea
Custom Colors	Yes	Yes
30-Year Paint Warranty	Yes	Yes
Zincalume Warranty	20 yr	20 yr
Code Compliance	ESL 1320	ICC ESR 5046
ASTM 1592 Test	Yes	Yes
Air Infiltration Test ASTM E283-84/1680 14 CFM/LFT	6.24 PSF	20 PSF
Water Infiltration Test ASTM E330/1646	12 PSF	25 PSF
FM I-90	Yes	Yes
UL Constructions	263 437 616 617 790	90 176 180 238 238A 238B 238C 435 435A 437 449 451 452 487 506 506A 506B 576 577 583 312 335 403 608 610
Fire	Class A	Class A
Impact Resistance	Class 4	Class 4
Steel Strength	50 KSI	50 KSI

Must certify Coast
Warranty

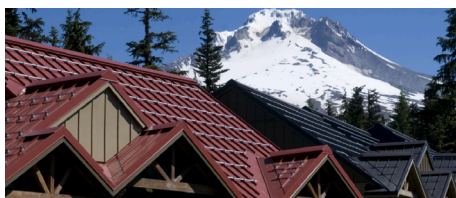
Must certify Coast
Warranty



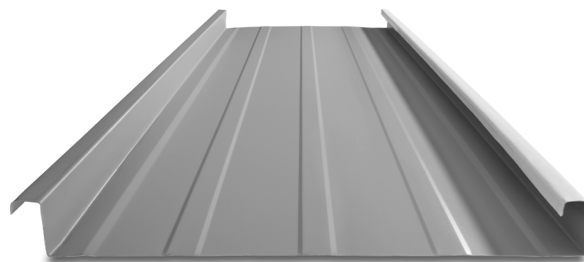
12", 14" 16" & 18" coverage options



STRIATIONS

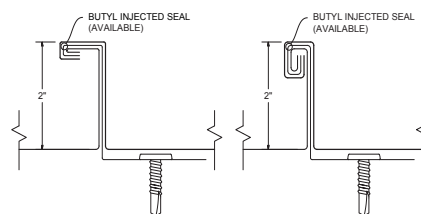


The MS-200™ is a mechanically seamed roof that is perfect for high wind areas and snow country. The butyl injected seam prevents water from entering the system, giving you a worry free roof for a lifetime.



ACCENT RIBS

- 2 Accent ribs for 12" & 14" panels (Salem & Riverside)
- 3 Accent ribs for 16" & 18" panels
- 2 Accent ribs for all panels (Sacramento)



90° SEAM DETAIL 180° SEAM DETAIL

KEY FEATURES

- 12", 14", 16" & 18" coverage options
- 24 and 22 Tru-Gauge™ and .032" and .040 Aluminum
- Zinc Coil (inquire for thickness)
- Floating clip system: allows for expansion and contraction of panels in longer lengths
- 2" vertical rib, factory notching available
- 1/2:12 minimum pitch recommended (For lower pitches, please inquire)
- Standard panel lengths 1' to 60' (For longer length panels, please inquire)
- On-site roll forming available for longer panels
- Factory injected Butyl sealant available
- Clip Relief is not standard, available upon request
- Concealed fastener: fasteners cannot leak
- Weathertightness warranty available (Contact TMP representative for details)
- OverEZee retro-fit system available
- Panel options: Striations, Accent Rib, Flat Pan
- Manufactured in Salem OR, Riverside CA & Sacramento CA & Spokane, WA

TESTING

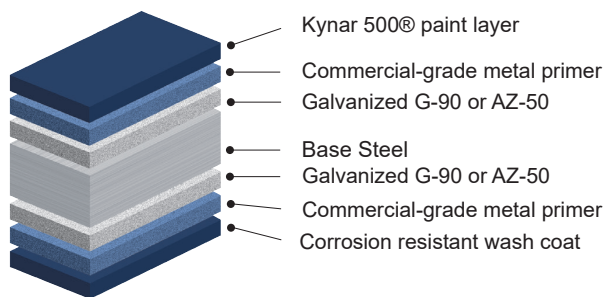
- ES ICC EVALUATION SERVICE ICC-ESR #5046 with CBC-CRC Supplement
- UL Code compliance UL Evaluation Report UL ER #25913-01
- UL Construction No. 90, 176, 180, 238, 238A, 238B, 238C, 312, 335, 403, 435, 435A, 437, 449, 451, 487, 506, 506A, 506B, 576, 577, 583, 608 & 610
- UL 580 Class 90 - Wind Uplift
- UL 790 Class A (ASTM E108) - Fire rated
- UL 2218 Class 4 - Impact (hail) rated
- FM Class 4471 - 1-75/120 wind uplift, Class A fire spread, severe hail & foot traffic
- ASTM E1680 - Air infiltration (roof)
- ASTM E1646 - Water infiltration (roof)
- ASTM E1592 - Structural uniform static air pressure
- ASTM E331 - Water infiltration (wall)
- ASTM E283 - Air infiltration (wall)
- ASTM A653/A924 - G90 Galvanized
- ASTM A792 - Zincalume/Galvalume AZ-50/55
- ASTM B209 - Aluminum Substrate
- ASTM E2140 - Standard Test Method for Water Penetration (full immersion)
- ASTM E1514 Standard for Structural Standing steel roof panels systems.

MATERIAL SPECIFICATIONS

- 24 Tru-Gauge™ Kynar 500® Painted Steel
- ▲ 22 Tru-Gauge™ Kynar 500® Painted Steel
- ♦ .032" Kynar 500® Painted Aluminum
- 24 Tru-Gauge™ G-90 Galvanized or AZ-50
- 24 and 22 Tru-Gauge™ bare Zincolume® Plus AZ-55
(No finish warranty – 25 yr. perforation warranty)
- G-90 Galvanized or AZ-50
- .040" Kynar 500® Painted Aluminum (please inquire)
- 24 Tru-Gauge™ Bonderized
- 22 gauge Rusteel Plus™ (A606)
- Custom 20 & 18 Tru-Gauge™ and .050" and .063" Aluminum (please inquire)
- 16 OZ & 20 OZ Real Copper
- Kynar 500® and substrate testing data available
(See website)

FINISHES

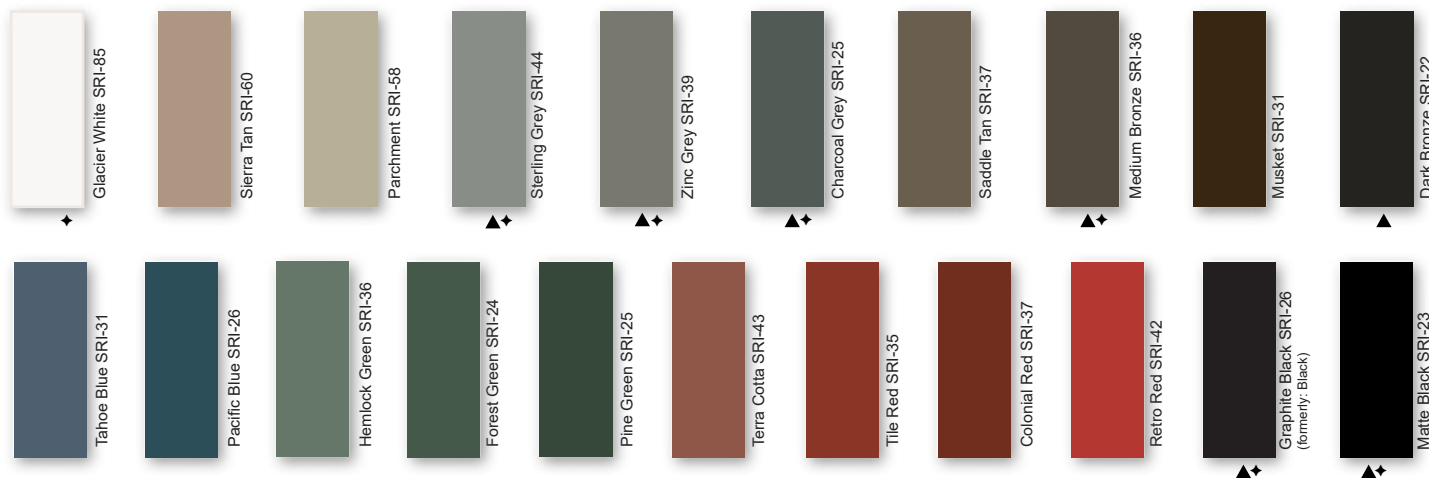
- 21 Standard Colors, 5 Metallic Colors and 4 Specialized Colors
- Kynar 500® Paint System - the ultimate in exterior durability and color retention
- "Cool" color pigments are specially designed to reflect infrared light, reducing heat gain to dwelling, and conform with ENERGY STAR® criteria
- Superior quality, two coat, 70% resin finish, applied at a 1 mil. thickness
- 40 year residential paint warranty
- 20 and 30 year commercial paint warranty: Contact TMP for warranty specifications
- "Oil Canning" is an inherent characteristic of roof and wall products, and not a defect, which is not a cause for panel rejection



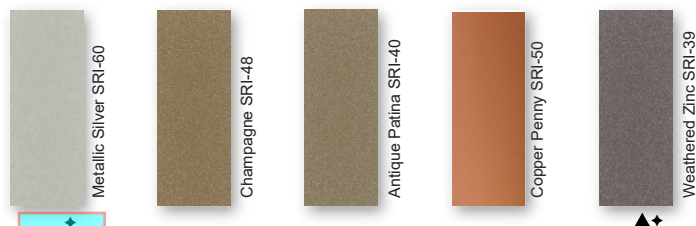
STANDARD COOL KYNAR 500® COLORS

▲ 22 Tru-Gauge™

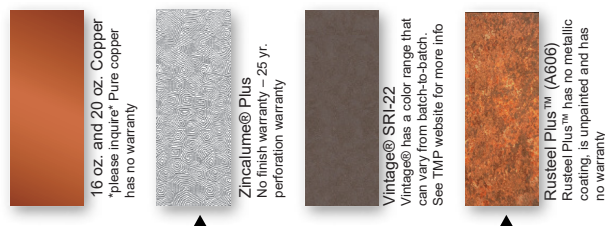
♦ .032 Aluminum



PREMIUM METALLIC COOL KYNAR® COLORS



SPECIALIZED MATERIAL



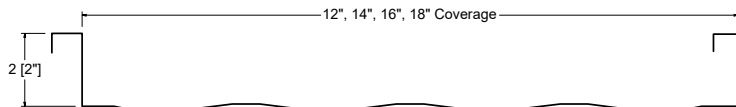
These printed chips provide a close representation of the colors.

Metal samples are available upon request. Coatings are low gloss 10-15% sheen.
SRI = Solar Reflective Index. SRI values listed above are in accordance with ASTM E 980 and are based on actual testing. ***Oil canning is not a cause for material rejection***

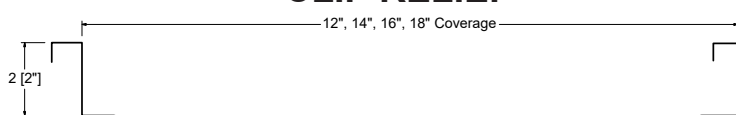


Rev. Date 07-24

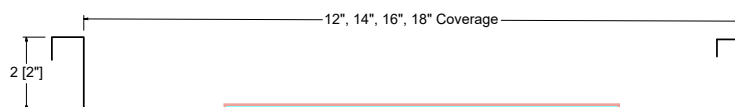
STRIATIONS



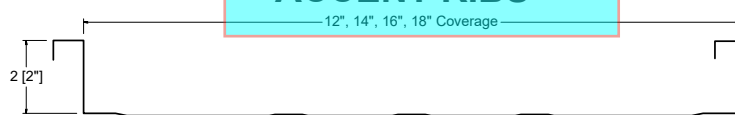
CLIP RELIEF



FLAT

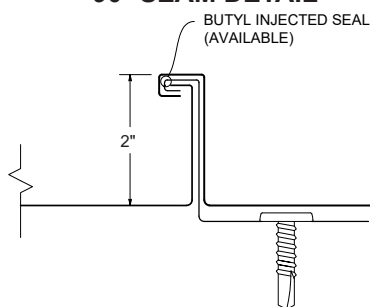


ACCENT RIBS

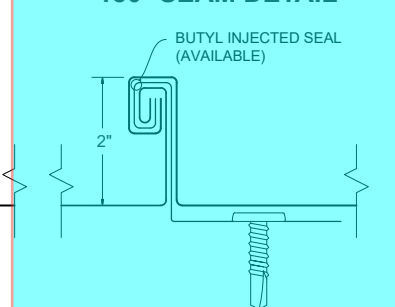


2 Accent ribs for 12" & 14" panels (Salem & Riverside)
3 Accent ribs for 16" & 18" panels (Salem & Riverside)
2 Accent ribs for all panels (Sacramento)

90° SEAM DETAIL



180° SEAM DETAIL



KEY FEATURES

- 12", 14", 16" & 18" coverage options
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- Standard panel lengths 1' to 60' (For longer length panels, please inquire)
- On-site roll forming available for longer panels
- Factory injected Butyl sealant available
- Clip Relief is not standard, available upon request
- Concealed fastener: fasteners cannot leak
- Weathertightness warranty available (Contact TMP representative for details)
- OverEZee retro-fit system available
- Panel options: Striations, Accent Rib, Flat Pan
- Manufactured in Salem OR, Riverside CA & Sacramento CA

TESTING

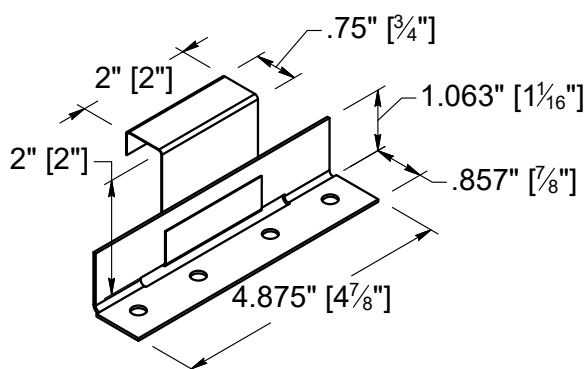
-  ICC-ESR #5046 with CBC-CRC Supplement
-  Code compliance UL Evaluation Report UL ER #25913-01
- UL Construction No. 90, 176, 180, 238, 238A, 238B, 238C, 312, 335, 403, 435, 435A, 437, 449, 451, 487, 506, 506A, 506B, 576, 577, 583, 608 & 610
- UL 580 Class 90 - Wind Uplift
- UL 790 Class A (ASTM E108) - Fire rated
- UL 2218 Class 4 - Impact (hail) rated
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- ASTM B209 - Aluminum Substrate
- ASTM E2140 - Standard Test Method for Water Penetration (full immersion)
- ASTM E1514 Standard for Structural Standing steel roof panels systems.

WEIGHT TABLE

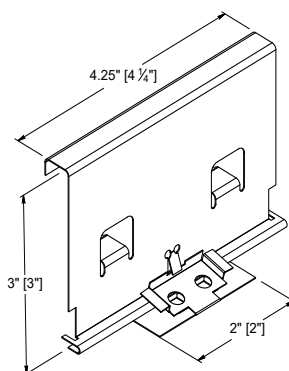
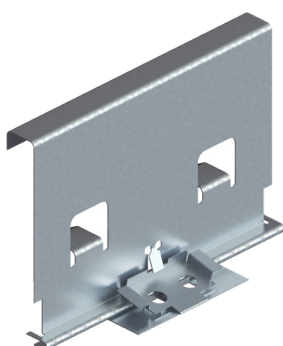
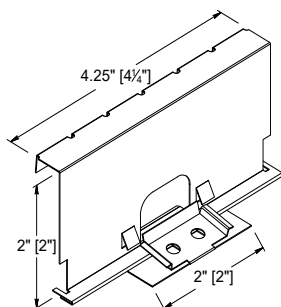
MS-200	WEIGHT	24 GA STEEL	22 GA STEEL	.032" ALUM	.040" ALUM
THICKNESS		0.0236"	0.0285	0.032"	0.040"
WEIGHT/LINFT	12"	1.469 LBS	1.774 LBS	0.696 LBS	0.870 LBS
WEIGHT/SQFT	12"	1.469 LBS	1.774 LBS	0.696 LBS	0.870 LBS
WEIGHT/LINFT	14"	1.630 LBS	1.968 LBS	0.772 LBS	0.965 LBS
WEIGHT/SQFT	14"	1.397 LBS	1.687 LBS	0.662 LBS	0.827 LBS
WEIGHT/LINFT	16"	1.790 LBS	2.162 LBS	0.848 LBS	1.060 LBS
WEIGHT/SQFT	16"	1.343 LBS	1.621 LBS	0.636 LBS	0.795 LBS
WEIGHT/LINFT	18"	1.951 LBS	2.356 LBS	0.924 LBS	1.155 LBS
WEIGHT/SQFT	18"	1.300 LBS	1.570 LBS	0.616 LBS	0.770 LBS

ASTM E 1680/E283 Air Penetration	ASTM E 1646/E331 Water Penetration
25 PSF<0.01 CFM/ft ² -PASS	40 PSF - Pass
Force Engineering Test Result 696-0081T-21A-H	
Force Engineering Test Result 696-0003T-20A-D	
Force Engineering Test Result 696-0003T-20E-H	
Force Engineering Test Result 696-0003T-20I,J	
Intertek Test Result M0874.01-901-44	

Panel Clips



STANDARD CLIP: For UL rated non-engineered and solid deck applications
Accommodates for 1/2" of thermal movement in both directions.



STANDOFF CLIP: For engineered and open framing applications
Accommodates for 1-1/4" of thermal movement in both directions.

Clip Spacing

Panel clip spacing is based on structural design loads, engineered spanning capability of the panels and substrate.

Clips are fabricated from Grade 50 G90 base steel. The upper portion of the clip is 22ga thick, with a base of 16ga.

Floating clips will accommodate 1/2" and 1-1/4" of movement in both directions. This will allow the panel to easily expand and contract with thermal changes. Contact TMP rep. for applications requiring allowances for more movement.

Fasteners

All fasteners into steel and plywood must extend at least 3 full threads beyond the material. When attaching to dimensional lumber, 1" embedment is required.

90° Seam

OSB: #10 Burr Buster
Plywood and Dimensional Lumber: #10 Screw
16ga (or less) Steel deck: #10 or #12 Screw with DP-1

180° Seam

OSB: #10 Burr Buster
Plywood and Dimensional Lumber: #10 or #12 Screw
16ga (or less) Steel deck: #14 Screw with DP-1

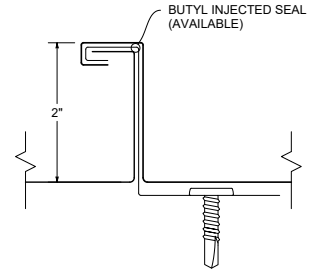
FM (Factory Mutual)

All fasteners #14

SINGLE LOCK NEGATIVE LOAD CHART

90° SEAM (SINGLE FOLD)

				SECTION PROPERTIES						ALLOWABLE UNIFORM LOADS, psf For various clip spacings (i.e. span values)						
Width, in.	Gauge	Yield ksi	Weight psf	Top in Compression			Bottom in Compression			Negative Load						
				I_{xx} in ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft.	I_{xx} in ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft.	1'	1.5'	2'	2.5'	3'	3.5'	4'
18	24	50	1.33	0.2350	0.2100	0.1350	0.1478	0.1731	0.1488	59.9	53.4	46.9	40.4	33.8	27.3	20.8
18	22	50	1.67	0.2868	0.2560	0.1623	0.1821	0.2125	0.1824	98.9	88.1	77.2	66.4	55.5	44.7	33.8
18	0.032"	19	0.62	0.2070	0.2070	0.1220	0.2070	0.2070	0.5696	36.4	32.5	28.6	24.7	20.8	16.9	13.0
18	0.040"	19	0.76	0.2560	0.2560	0.1510	0.2560	0.2560	0.7010	46.9	42.6	38.2	33.4	29.5	25.2	20.8



- Charted Load/Span values are based on ASTM E1592-02 / ASTM E1592-05 testing protocol
- Charted Allowable Uniform Loads are based on the Ultimate Uniform Load (per ASTM E1592-05 testing) divided by 2.00 Factor-of-Safety.
- Minimum recommended substrate (structure) recommendations:
 - o Open-framing (i.e.purlins) -16ga (design thickness=0.0566")
 - o Plywood/OSB - 15/32" or thicker is recommend to assure an effective degree of fastener thread engagement.
 - o Metal deck - 22 ga. (design thickness=0.0283")

SINGLE LOCK POSITIVE LOAD CHART

90° SEAM (SINGLE FOLD)

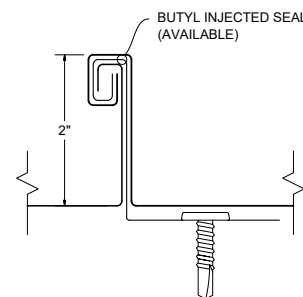
				SECTION PROPERTIES						ALLOWABLE UNIFORM LOADS, psf For various clip spacings (i.e. span values)									
Width, in.	Gauge	Yield ksi	Weight psf	Top in Compression			Bottom in Compression			Positive load									
				I_{xx} in ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft.	I_{xx} in ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft.	2'	2.5'	3'	3.5	4'	4.5'	5'	5.5'	6'	8'
12	24	50	1.47	0.2350	0.2100	0.1350	0.1478	0.1731	0.1488	276.4	221.1	184.2	157.9	138.2	122.8	110.6	100.5	92.1	52.7
12	22	50	1.875	0.2868	0.2560	0.1623	0.1821	0.2125	0.1824	400.3	320.4	267.0	228.8	200.2	178.0	160.2	134.1	112.7	63.4
12	0.032"	19	0.83	0.3290	0.3290	0.2102	0.3290	0.3290	0.6599	50.5	37.3	25.9	19.0	14.6	11.5	9.3	7.7	6.5	3.6
12	0.040"	19	1.01	0.4050	0.4050	0.2582	0.4050	0.4050	0.8133	74.1	57.5	39.9	29.3	22.5	17.7	14.4	11.9	10.0	5.6
16	24	50	1.36	0.1850	0.1640	0.1020	0.1110	0.1325	0.1100	207.3	165.8	138.2	118.4	103.6	92.1	82.9	75.4	69.1	39.8
16	22	50	1.71	0.2320	0.2050	0.1220	0.1380	0.1653	0.1394	300.5	240.4	200.3	171.7	150.2	133.5	120.2	100.8	84.7	47.7
16	0.032"	19	0.76	0.2660	0.2660	0.1610	0.2660	0.2660	0.6450	33.2	21.3	14.8	10.8	8.3	6.6	5.3	4.4	3.7	2.1
16	0.040"	19	0.92	0.3270	0.3270	0.1980	0.3270	0.3270	0.7940	51.6	33.0	22.9	16.8	12.9	10.2	8.3	6.8	5.7	3.2
18	24	50	1.28	0.1670	0.1470	0.0900	0.0990	0.1187	0.0970	184.1	147.3	122.7	105.2	92.1	81.8	73.6	66.9	61.4	35.2
18	22	50	1.61	0.2090	0.1840	0.1080	0.1220	0.1472	0.1236	266.8	213.5	177.9	152.5	133.4	118.6	106.7	89.3	75.0	42.2
18	0.032"	19	0.74	0.2420	0.2420	0.1430	0.2420	0.2420	0.6370	26.2	16.8	11.7	8.6	6.6	5.2	4.2	3.5	2.9	1.6
18	0.040"	19	0.90	0.2970	0.2970	0.1764	0.2970	0.2970	0.7840	40.8	26.1	18.1	13.3	10.2	8.1	6.5	5.4	4.5	2.6

- Allowable loads for Steel panels are calculated in accordance with 2020 AISI S100 specifications considering bending, shear, combined bending and shear and deflection. Allowable load considers a 3 or more equal span condition.
- The Versa-Span Panel when installed as a three-span condition with spans of 5 ft. on-center for Steel and 3.0 ft.on-center for Aluminum are capable of withstanding the minimum uniform distributed load of 20 psf (0.958 kPa) noted in Table 1607.1 of the IBC and a minimum concentrated load of 300 lbf (1.33 kN).
- When panels are installed over solid or closely fitted deck sheathing, the capacity is limited to the capacity of the underlying sheathing.

DOUBLE LOCK NEGATIVE LOAD CHART

180° SEAM (DOUBLE FOLD)

				SECTION PROPERTIES						ALLOWABLE UNIFORM LOADS, psf For various clip spacings (i.e. span values)								
Width, in.	Gauge	Yield ksi	Weight psf	Top in Compression			Bottom in Compression			Negative Load								
				I_{xx} in ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft.	I_{xx} in ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft.	1'	1.5'	2'	2.5'	3'	3.5'	4'	4.5'	5'
16	24	50	1.36	0.1549	0.1370	0.0789	0.0925	0.1106	0.0908	161.3	147.6	134.0	120.3	106.7	93.0	79.4	67.7	52.1
16	22	50	1.71	0.2040	0.1800	0.1010	0.1210	0.1451	0.1213	163.9	150.9	137.9	124.9	111.9	98.9	85.9	72.9	59.9
18	24	50	1.28	0.1400	0.1230	0.0708	0.0820	0.0988	0.0809	109.3	101.1	93.0	84.9	76.7	68.6	60.5	52.3	44.2
18	22	50	1.61	0.1850	0.1620	0.0880	0.1070	0.1296	0.1079	156.1	143.4	130.7	118.0	105.4	92.7	80.0	67.3	54.7
18	0.032"	19	0.62	0.2070	0.2070	0.1220	0.2070	0.2070	0.5696	83.3	77.4	71.5	65.7	59.8	54.0	48.1	42.3	36.4



- Charted Load/Span values are based on ASTM E1592-02 / ASTM E1592-05 testing protocol
- Charted Allowable Uniform Loads are based on the Ultimate Uniform Load (per ASTM E1592-05 testing) divided by 2.00 Factor-of-Safety.
- Minimum recommended substrate (structure) recommendations:
 - o Open-framing (i.e.purlins) -16ga (design thickness=0.0566")
 - o Plywood/OSB - 15/32" or thicker is recommend to assure an effective degree of fastener thread engagement.
 - o Metal deck - 22 ga. (design thickness=0.0283")

DOUBLE LOCK POSITIVE LOAD CHART

180° SEAM (DOUBLE FOLD)

				SECTION PROPERTIES						ALLOWABLE UNIFORM LOADS, psf For various clip spacings (i.e. span values)									
Width, in.	Gauge	Yield ksi	Weight psf	Top in Compression			Bottom in Compression			Positive load									
				I_{xx} in ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft.	I_{xx} in ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft.	2'	2.5'	3'	3.5'	4'	4.5'	5'	5.5'	6'	8'
12	24	50	1.47	0.2350	0.2100	0.1350	0.1478	0.1731	0.1488	276.4	221.1	184.2	157.9	138.2	122.8	110.6	100.5	92.1	52.7
12	22	50	1.875	0.2868	0.2560	0.1623	0.1821	0.2125	0.1824	400.3	320.4	267.0	228.8	200.2	178.0	160.2	134.1	112.7	63.4
12	0.032"	19	0.83	0.3290	0.3290	0.2102	0.3290	0.3290	0.6599	50.5	37.3	25.9	19.0	14.6	11.5	9.3	7.7	6.5	3.6
12	0.040"	19	1.01	0.4050	0.4050	0.2582	0.4050	0.4050	0.8133	74.1	57.5	39.9	29.3	22.5	17.7	14.4	11.9	10.0	5.6
16	24	50	1.36	0.1850	0.1640	0.1020	0.1110	0.1325	0.1100	207.3	165.8	138.2	118.4	103.6	92.1	82.9	75.4	69.1	39.8
16	22	50	1.71	0.2320	0.2050	0.1220	0.1380	0.1653	0.1394	300.5	240.4	200.3	171.7	150.2	133.5	120.2	100.8	84.7	47.7
16	0.032"	19	0.76	0.2660	0.2660	0.1610	0.2660	0.2660	0.6450	33.2	21.3	14.8	10.8	8.3	6.6	5.3	4.4	3.7	2.1
16	0.040"	19	0.92	0.3270	0.3270	0.1980	0.3270	0.3270	0.7940	51.6	33.0	22.9	16.8	12.9	10.2	8.3	6.8	5.7	3.2
18	24	50	1.28	0.1670	0.1470	0.0900	0.0990	0.1187	0.0970	184.1	147.3	122.7	105.2	92.1	81.8	73.6	66.9	61.4	35.2
18	22	50	1.61	0.2090	0.1840	0.1080	0.1220	0.1472	0.1236	266.8	213.5	177.9	152.5	133.4	118.6	106.7	89.3	75.0	42.2
18	0.032"	19	0.74	0.2420	0.2420	0.1430	0.2420	0.2420	0.6370	26.2	16.8	11.7	8.6	6.6	5.2	4.2	3.5	2.9	1.6
18	0.040"	19	0.90	0.2970	0.2970	0.1764	0.2970	0.2970	0.7840	40.8	26.1	18.1	13.3	10.2	8.1	6.5	5.4	4.5	2.6

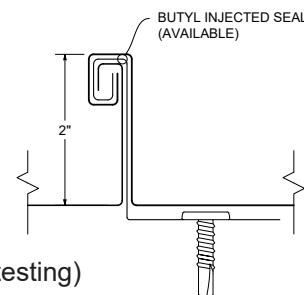
- Allowable loads for Steel panels are calculated in accordance with 2020 AISI S100 specifications considering bending, shear, combined bending and shear and deflection. Allowable load considers a 3 or more equal span condition.
- The Versa-Span Panel when installed as a three-span condition with spans of 5 ft. on-center for Steel and 3.0 ft.on-center for Aluminum are capable of withstanding the minimum uniform distributed load of 20 psf (0.958 kPa) noted in Table 1607.1 of the IBC and a minimum concentrated load of 300 lbf (1.33 kN).
- When panels are installed over solid or closely fitted deck sheathing, the capacity is limited to the capacity of the underlying sheathing.

INSTALLED ON OverEzee

DOUBLE LOCK NEGATIVE LOAD CHART

180° SEAM (DOUBLE FOLD)

				SECTION PROPERTIES						ALLOWABLE UNIFORM LOADS, psf For various clip spacings (i.e. span values)								
Width, in. Gauge Yield ksi Weight psf				Top in Compression			Bottom in Compression			Negative Load								
				Ixx in4/ft.	Ixx (eff) in4/ft.	Sxx in3/ft.	Ixx in4/ft.	Ixx (eff) in4/ft.	Sxx in3/ft.	1'	1.5'	2'	2.5'	3'	3.5'	4'	4.5'	5'
16	24	50	1.36	0.1570	0.1330	0.0942	0.0752	0.0989	0.0626	140.5	127.8	115.1	102.4	89.8	77.1	64.4	51.7	39.0
16	22	50	1.61	0.2050	0.1730	0.0126	0.0932	0.125	0.0851	140.5	127.8	115.1	102.4	89.8	77.1	64.4	51.7	39.0



- Charted Load/Span values are based on ASTM E1592-02 / ASTM E1592-05 testing protocol
- Charted Allowable Uniform Loads are based on the Ultimate Uniform Load (per ASTM E1592-05 testing) divided by 2.00 Factor-of-Safety.
- Minimum recommended substrate (structure) recommendations:
 - o Open-framing (i.e.purlins) -16ga (design thickness=0.0566")
 - o Plywood/OSB - 15/32" or thicker is recommend to assure an effective degree of fastener thread engagement.
 - o Metal deck - 22 ga. (design thickness=0.0283")

DOUBLE LOCK POSITIVE LOAD CHART

180° SEAM (DOUBLE FOLD)

Width, in. Gauge Yield ksi Weight psf				SECTION PROPERTIES						ALLOWABLE UNIFORM LOADS, psf For various clip spacings (i.e. span values)									
				Top in Compression			Bottom in Compression			Positive Load									
				Ixx in4/ft.	Ixx (eff) in4/ft.	Sxx in3/ft.	Ixx in4/ft.	Ixx (eff) in4/ft.	Sxx in3/ft.	1'	2'	3'	4'	5'	6'	7'	8'	9'	10'
16	24	50	1.36	0.1570	0.1330	0.0942	0.0752	0.0989	0.0626	348.2	174.1	116.1	87.1	62.6	43.5	31.9	24.5	19.3	15.7
16	22	50	1.61	0.2050	0.1730	0.1260	0.0932	0.125	0.0851	468.2	234.1	156.1	117.1	85.1	59.1	43.4	33.2	26.3	21.3
16	0.032"	19	0.636	0.2460	0.2460	0.1520	0.2460	0.2460	0.6350	54.6	20.9								
16	0.040"	19	0.795	0.3010	0.3010	0.1860	0.3010	0.3010	0.7800	82.7	32.0	14.2							

- Allowable loads for Steel panels are calculated in accordance with 2020 AISI S100 specifications considering bending, shear, combined bending and shear and deflection. Allowable load considers a 3 or more equal span condition.
- The Versa-Span Panel when installed as a three-span condition with spans of 5 ft. on-center for Steel and 3.0 ft.on-center for Aluminum are capable of withstanding the minimum uniform distributed load of 20 psf (0.958 kPa) noted in Table 1607.1 of the IBC and a minimum concentrated load of 300 lbf (1.33 kN).
- When panels are installed over solid or closely fitted deck sheathing, the capacity is limited to the capacity of the underlying sheathing.



LIMITED 40-YEAR - COMMERCIAL- ALUMIGUARD™ WARRANTY KYNAR 500® - NonTransferable, Non-Prorated

Subject to the conditions and exclusions set forth in this warranty, TAYLOR METAL, INC. (hereinafter referred to as "TMP") provides the following express limited 40-year **Alumiguard™** warranty for its PVDF-coated products when used as exterior roofing or sidewall building products (hereinafter referred to as the "Product").

Registration: Within 45 days after installation of the Product has been completed, the Original Property Owner(s) must complete a Warranty Registration Card in full and mail it to **TMP**. Upon receipt, TMP will forward, by mail or email, to the Owner(s) the Registered Warranty complete with registration number. The owner(s) should keep this Registered Warranty in a safe place for future reference. Failure to notify TMP of the registration shall relieve TMP of all obligations hereunder. In addition, the warranty does not and will not take effect until the project has been paid in full.

Performance: Although it is recognized by all parties to the Warranty that all **PVDF** coatings, will fade and change in appearance to some degree over a period of time in outdoor installations, and that such changes may not be uniform between surfaces not equally exposed. TMP warrants, for **40 years** from the date of substantial completion, that when exposed to normal atmospheric conditions and conditions of ordinary wear the Product will not:

- A. Peel, check, flake or crack (except for slight crazing or cracking may occur with normal roll-forming or brake bending and which is accepted as standard);
- B. Chalk in excess of a numerical rating of 8 measured using the procedures of ASTM D-4214-89 (Method A-659) nor;
- C. Fade or change color more than 5 E units (Hunter Color Difference), as measured using the procedure of ASTM D-2244-85, comparing an unexposed retain panel to the exposed panel after removal of dirt and chalk (TMP determines whether material qualifies as non-conforming under this warranty).
- D. For **30 years** from shipment against rupture, structural failure, or perforation caused by normal atmospheric exposure.

TMP's liability under this Warranty is limited as follows: If TMP determines the Product to be defective according to the terms of this Warranty, TMP shall, at its sole option, repair or refinish the defective Product, replace the defective Product from current stock or refund the original purchase price of the defective Product. In no event shall TMP's liability exceed the original material costs of the product. TMP shall not be liable for any expenses connected with the labor for the replacement of the defective Product or any incidental or consequential damages. The warranty for any repaired or replaced Product shall be for the remainder of the warranty period applicable to the original Product. Delivery charges, installation costs and taxes are not covered by this warranty.

Conditions and Exclusions: This warranty is subject to the following Exclusions, Limitations and Conditions:

- a. The warranty covers only Product installed in the continental United States, Canada, Mexico, Alaska and Hawaii which are exposed to normal weather and atmospheric conditions. Projects near active volcanic vents require a TMP review before installation.
- b. This warranty duration is reduced to **20 years** covering coating performance and substrate within 1,000 feet (or fewer) from a salt-water, salt spray or marine environment.
- c. This warranty shall not apply to Product that has been painted or whose surface has been altered in any way without written authorization from TMP. Repair attempts or damage caused by such acts prior to TMP's inspection or written authorization shall void any and all protection under this warranty.
- d. The Product must be installed to prevent standing water and condensation. When used as roofing panels, the Product must be installed with minimum pitch of 1/2" per foot for Standing Seam roofs.
- e. Keep all coated surfaces clean and free of debris and corrosive deposits. Wash regularly with clean water or a mild detergent, then rinse with clean water. Include exposed underside areas at overhangs. Do not use abrasive

e. (cont.) or chemical cleaners. Pressure washing is allowed up to 1,000 PSI and 4 GPM. Corrosive environments require more frequent cleaning.

f. Excluded from this limited warranty:

This warranty does not cover improper installation, failure to follow TMP instructions, field-cut edges, edge corrosion, perforated or embossed product, or unpaid projects, or areas that are sheltered from rain and do not drain properly. It also excludes (and not limited to) damage from handling, storage, fabrication, installation, swarf, scratching, corrosive chemicals, incompatible fasteners or sealants, galvanic corrosion, treated lumber, wet insulation, standing water, vegetation (debris), animal waste, snow or ice removal, pressure washing damage, post-painting, unauthorized surface changes, or attachments such as snow guards and solar panels. Use of any patina enhancing/modifying agents, chemical protectors/sealants of any kind, or any materials placed on the Product other than those stated above. Occurrences beyond TMP's control such as acts of God, falling or wind-blown objects, explosions, fires, vandalism, civil disturbances, external forces, improper handling, improper installation, modification or misuse of the product.

g. In no event is TMP liable for any incidental or consequential damages, including, but not limited to: personal injury, property damage or lost income.

h. TMP reserves the right to discontinue or change any design or color of the Product. If, for any reason, Product of the type originally installed are no longer available from TMP at the time the defect is discovered, TMP, in fulfillment of its warranty obligation hereunder, shall have the right to substitute another Product determined by TMP, in its sole discretion, to be of comparable quality and price.

Date of Substantial Completion: The "Date of Substantial Completion" is hereby defined as the earlier of:

- (i) the date of the Owner's certificate of substantial completion for the Building or the Project,
- (ii) the date of the Owner's certificate of occupancy or actual occupancy of the Building or the Project, or
- (iii) six (6) months after the TMP Technical Representative's written acceptance (final inspection) of the roof. (NOTE: TMP will not issue warranties without a provided date of substantial completion. We also will not modify any substantial completion dates furnished by the owner, general contractor, or subcontractor, nor reissue warranties for dates that have already been issued by TMP).

Transferability: This warranty is not transferable.

Claims Procedure: Notify TMP within 30 days after discovering a possible warranty issue. TMP must be allowed to inspect the product and take samples if needed and given a reasonable opportunity to inspect the Product in question. If TMP is not responsible for the issue, the claimant must reimburse TMP for third-party investigation costs. TMP warranty decisions are final. The claim must reference the Warranty Registration Number and the original date of installation, and shall include the Owner(s) name, address and phone number. TMP shall be given a reasonable opportunity to inspect the Product in question. Notice shall be sent by registered mail (or email) to:

ATTN: Warranty Claims, Taylor Metal, Inc., 4566 Ridge Dr. NE, Salem, OR 97301.

Email to: warrantyregistration@taylormetal.com

(this warranty applies to products purchased on or after 8/3/26)

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION AS STATED HEREIN, INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS OF PURPOSE.

THIS WARRANTY QUALIFIES FOR (check one):

A 40-YEAR FINISH/30 YEAR SUBSTRATE WARRANTY _____ 20 YEAR FINISH/SUBSTATE WARRANTY _____

Original Property Owner(s): _____

Issued by **TAYLOR METAL, INC.**

Installation Address: _____

Signature: _____

Purchaser: _____

Title: _____ Name: _____

Purchase Date: _____

Registration #: _____ Today's Date: _____

Invoice #s: _____



LIMITED 40-YEAR- COMMERCIAL WARRANTY KYNAR 500® - Non-Transferable, Non-Prorated

Subject to the conditions and exclusions set forth in this warranty, TAYLOR METAL, INC. (hereinafter referred to as "TMP") provides the following express limited 40-year warranty for its PVDF-coated products when used as exterior roofing or sidewall building products (hereinafter referred to as the "Product").

Registration: Within 45 days after installation of the Product has been completed, the Original Property Owner(s) must complete a Warranty Registration Card in full and mail it to **TMP**. Upon receipt, TMP will forward, by mail or email, to the Owner(s) the Registered Warranty complete with registration number. The owner(s) should keep this Registered Warranty in a safe place for future reference. Failure to notify TMP of the registration shall relieve TMP of all obligations hereunder. In addition, the warranty does not and will not take effect until the project has been paid in full.

Performance: Although it is recognized by all parties to the Warranty that all **PVDF** coatings, will fade and change in appearance to some degree over a period of time in outdoor installations, and that such changes may not be uniform between surfaces not equally exposed. TMP warrants, for **40 years** from the date of substantial completion, that when exposed to normal atmospheric conditions and conditions of ordinary wear the Product will not:

- A. Peel, check, flake or crack (except for slight crazing or cracking may occur with normal roll-forming or brake bending and which is accepted as standard);
- B. Chalk in excess of a numerical rating of 8 measured using the procedures of ASTM D-4214-89 (Method A-659) nor;
- C. Fade or change color more than 5 E units (Hunter Color Difference), as measured using the procedure of ASTM D-2244-85, comparing an unexposed retain panel to the exposed panel after removal of dirt and chalk (TMP determines whether material qualifies as non-conforming under this warranty).
- D. For **25 years** from shipment against rupture, structural failure, or perforation caused by normal atmospheric exposure.

TMP's liability under this Warranty is limited as follows: If TMP determines the Product to be defective according to the terms of this Warranty, TMP shall, at its sole option, repair or refinish the defective Product, replace the defective Product from current stock or refund the original purchase price of the defective Product. In no event shall TMP's liability exceed the original material costs of the product. TMP shall not be liable for any expenses connected with the labor for the replacement of the defective Product or any incidental or consequential damages. The warranty for any repaired or replaced Product shall be for the remainder of the warranty period applicable to the original Product. Delivery charges, installation costs and taxes are not covered by this warranty.

Conditions and Exclusions: This warranty is subject to the following Exclusions, Limitations and Conditions:

- a. The warranty covers only Product installed in the continental United States, Canada, Mexico, Alaska and Hawaii which are exposed to normal weather and atmospheric conditions. Projects near active volcanic vents require a TMP review before installation.
- b. This warranty duration is reduced to 20 years covering coating performance $\leq 1,000$ feet from a salt-water, salt spray or marine environment. Aluminum is recommended for these locations (request an Alumiguard™ warranty- see website).
- c. This warranty shall not apply to Product that has been painted or whose surface has been altered in any way without written authorization from TMP. Repair attempts or damage caused by such acts prior to TMP's inspection or written authorization shall void any and all protection under this warranty.
- d. The Product must be installed to prevent standing water and condensation. When used as roofing panels, the Product must be installed with minimum pitch of 1/2" per foot for Standing Seam roofs.
- e. Keep all coated surfaces clean and free of debris and corrosive deposits. Wash regularly with clean water or a mild detergent, then rinse with clean

(e. cont.) water. Include exposed underside areas at overhangs.

Do not use abrasive or chemical cleaners. Pressure washing is allowed up to 1,000 PSI and 4 GPM. In corrosive environments, clean more frequently.

f. Excluded from this limited warranty:

This warranty does not cover improper installation, failure to follow TMP instructions, field-cut edges, edge corrosion, perforated or embossed product, or unpaid projects, or areas that are sheltered from rain and do not drain properly. It also excludes (and not limited to) damage from handling, storage, fabrication, installation, swarf, scratching, corrosive chemicals, incompatible fasteners or sealants, galvanic corrosion, treated lumber, wet insulation, standing water, vegetation (debris), animal waste, snow or ice removal, pressure washing damage, post-painting, unauthorized surface changes, or attachments such as snow guards and solar panels. Use of any patina enhancing/modifying agents, chemical protectors/sealants of any kind, or any materials placed on the Product other than those stated above. Occurrences beyond TMP's control such as acts of God, falling or wind-blown objects, explosions, fires, vandalism, civil disturbances, external forces, improper handling, improper installation, modification or misuse of the product.

g. In no event is TMP liable for any incidental or consequential damages, including, but not limited to: personal injury, property damage or lost income.

h. TMP reserves the right to discontinue or change any design or color of the Product. If, for any reason, Product of the type originally installed are no longer available from TMP at the time the defect is discovered, TMP, in fulfillment of its warranty obligation hereunder, shall have the right to substitute another Product determined by TMP, in its sole discretion, to be of comparable quality and price.

Date of Substantial Completion: The "Date of Substantial Completion" is hereby defined as the earlier of:

- (i) the date of the Owner's certificate of substantial completion for the Building or the Project,
- (ii) the date of the Owner's certificate of occupancy or actual occupancy of the Building or the Project, or
- (iii) six (6) months after the TMP Technical Representative's written acceptance (final inspection) of the roof. (NOTE: TMP will not issue warranties without a provided date of substantial completion. We also will not modify any substantial completion dates furnished by the owner, general contractor, or subcontractor, nor reissue warranties for dates that have already been issued by TMP).

Transferability: This warranty is not transferable.

Claims Procedure: Notify TMP within 30 days after discovering a possible warranty issue. TMP must be allowed to inspect the product and take samples if needed and given a reasonable opportunity to inspect the Product in question. If TMP is not responsible for the issue, the claimant must reimburse TMP for third-party investigation costs. TMP warranty decisions are final. The claim must reference the Warranty Registration Number and the original date of installation, and shall include the Owner(s) name, address and phone number. TMP shall be given a reasonable opportunity to inspect the Product in question. Notice shall be sent by registered mail (or email) to:

ATTN: Warranty Claims, Taylor Metal, Inc., 4566 Ridge Dr. NE, Salem, OR 97301.

Email to: warrantyregistration@taylormetal.com

(this warranty applies to products purchased on or after 8/3/26)

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION AS STATED HEREIN, INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS OF PURPOSE.

THIS WARRANTY QUALIFIES FOR (check one):

A **40-YEAR FINISH/25 YEAR SUBSTRATE WARRANTY** _____ **20 YEAR FINISH WARRANTY** _____

Original Property Owner(s): _____

Issued by **TAYLOR METAL, INC.**

Installation Address: _____

Signature: _____

Purchaser: _____

Title: _____ Name: _____

Purchase Date: _____

Registration #: _____ Today's Date: _____

Invoice #'s _____