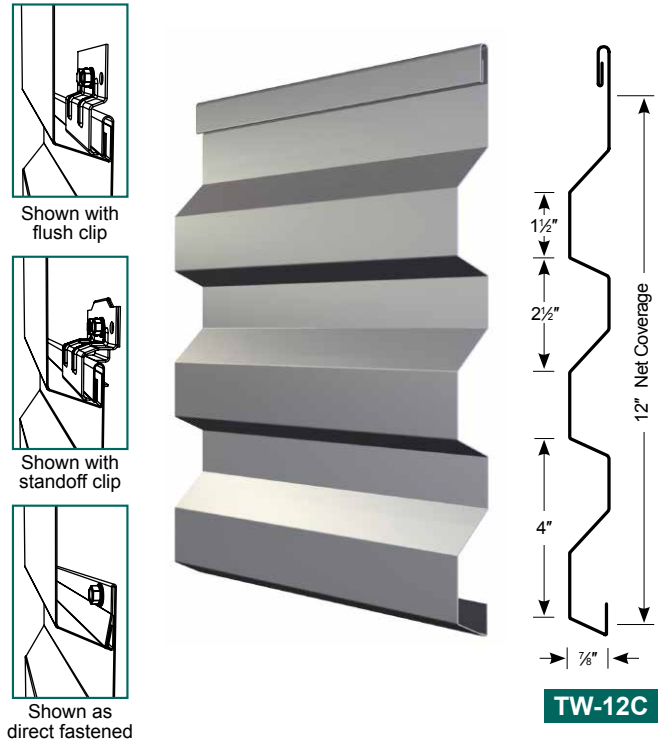


TW-12 is a concealed fastener metal wall panel designed to provide a seamless clean attachment and unique shadow lines. Ideal for vertical and horizontal wall, fascia, and equipment screen applications.

TW-12 is available with a high performance clip, offering unlimited thermal movement while reducing chances of oil canning.



TW-12C

Properties									Standard Finishes	
Gauge	Base Steel Thickness (in)	Yield (ksi)	Tensile (ksi)	Wt. (lbs/ft ²)	I+ (in ⁴ /ft)	S+ (in ³ /ft)	I- (in ⁴ /ft)	S- (in ³ /ft)	Metallic Coating	Paint System
24	0.0232	50	65	1.46	0.0479	0.0836	0.0484	0.0985	AZ50	Dura Tech™ 5000 (polyvinylidene fluoride) or Dura Tech™ mx (metallic polyvinylidene)
22	0.0294	50	65	1.84	0.0636	0.1171	0.0639	0.1345	AZ50	
20	0.0354	40	55	2.20	0.0810	0.1588	0.0803	0.1642	G90	

NOTES: The moments of inertia, I⁺ and I⁻, presented for determining deflection are: $(2I_{\text{Effective}} + I_{\text{Gross}})/3$

standard features

- Custom manufactured sheet lengths from 5'-0" to 20'-0" maximum.
- Available in 24ga and 22ga in 22 standard colors.
- Available in 24ga, 22ga and 20ga in ZINCALUME® Plus.
- 24ga is available in Specialty Prints and Textures.
- Dura Tech™ 5000 and Dura Tech™ mx paint systems used on all standard colors.
- Warranties for chalk, fade, and film integrity are available in durations of up to 30 years.
- Wall application meets 2012 IBC requirements in accordance with Chapter 14.
- ASTM E1592 (wind uplift), ASTM E283 (air infiltration) and ASTM E331 (water infiltration) tested.
- Manufactured in Fontana, CA.

optional features

- Available in two panel attachment configurations - a directly attached fastening flange or clip interlocking hem.
- Two clip options enable the panels to be installed flush to the substrate or with a 1/2" standoff.
- Can be used in a rainscreen system.
- 24ga, 22ga, and 20ga available in custom colors with additional lead times.
- 24ga is available in a wider variety of specialty prints and textures with additional lead times.

Gauge	Span	Cond.	Allowable Inward Loads (lbs/ft ²) per Span (ft.-in.)						
			2' - 0"	3' - 0"	4' - 0"	5' - 0"	6' - 0"	7' - 0"	8' - 0"
24	Single Span	ASD, W/Ω	393	185	104	67	46	34	26
		LRFD, φW	601	294	166	106	74	54	41
		L/180	-	155	65	33	19	12	8
	Double Span	ASD, W/Ω	259	173	119	77	53	39	30
		LRFD, φW	386	257	180	116	81	59	45
		L/180	-	-	-	-	47	29	20
	Triple Span	ASD, W/Ω	295	196	147	95	67	49	37
		LRFD, φW	438	292	219	144	100	74	57
		L/180	-	-	123	63	37	23	15
22	Single Span	ASD, W/Ω	584	260	146	93	65	48	37
		LRFD, φW	919	412	232	148	103	76	58
		L/180	-	206	87	44	26	16	11
	Double Span	ASD, W/Ω	397	265	162	105	73	54	42
		LRFD, φW	591	394	244	158	110	81	63
		L/180	-	-	-	-	62	39	26
	Triple Span	ASD, W/Ω	451	301	201	130	91	67	51
		LRFD, φW	672	448	302	196	137	101	77
		L/180	-	-	164	84	49	31	20
20	Single Span	ASD, W/Ω	634	282	158	101	70	52	40
		LRFD, φW	1006	447	251	161	112	82	63
		L/180	-	262	111	57	33	21	14
	Double Span	ASD, W/Ω	445	276	159	102	71	53	41
		LRFD, φW	662	416	239	154	107	79	61
		L/180	-	-	-	-	-	50	33
	Triple Span	ASD, W/Ω	505	337	196	127	89	65	50
		LRFD, φW	752	501	295	192	134	99	75
		L/180	-	-	-	107	62	39	26

Gauge	Condition	Maximum* Negative (Outward) Uniform Load Capacity (lbs/ft ²) / Span (ft. - in.)						
		2' - 0"	2' - 6"	3' - 0"	3' - 6"	4' - 0"	4' - 6"	5' - 0"
24	ASD, W/Ω	108.3	98.8	89.2	79.6	70.1	60.5	50.9
	LRFD, φW	173.4	158.1	142.7	127.4	112.1	96.8	81.5
22-20	ASD, W/Ω	114.7	105	95.3	85.5	75.8	66.1	56.4
	LRFD, φW	183.5	168	152.4	136.8	121.3	105.7	90.2

*Maximum allowable outward load capacities are shown and dependent upon fastener-to-substrate capacities. Refer to TW-12 fastener attachment schedules for specific product capacities.

Inward Loads	Single Span		NOTES: Tabulated values are for positive (inward) loading only. The upper values, W/Ω (ASD) and φW (LRFD) are based on allowable panel strength. L/180 values based on allowable service load deflections. Table values denoted by "-" indicate that capacities are limited by panel strength vs. deflection. Values are based on AISI S100-12. Specifications subject to change without notice.
	Double Span		
	Triple Span		

Oil Canning : All flat metal surfaces can display waviness commonly referred to as "oil canning". "Oil canning" is an inherent characteristic of steel products, not a defect, and therefore is not a cause for panel rejection.



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