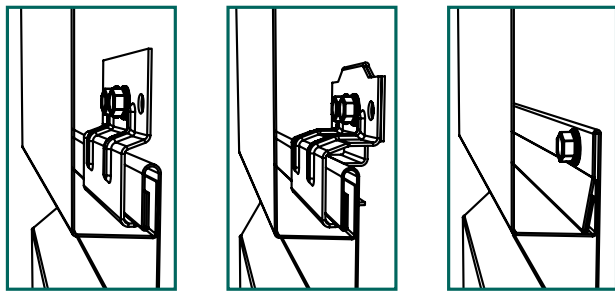


**Perception Collection** is a set of concealed fastened metal wall panels, each with unique geometric angles and rib patterns which can be combined to create a distinct design. Whether used in a vertical or horizontal wall application, the shadow effect evolves, building texture and changing the perception of the design as the day progresses. Ideal for fascia and equipment screen applications as well.

Perception Collection panels are available with a high performance clip, offering unlimited thermal movement while reducing chances of oil canning.



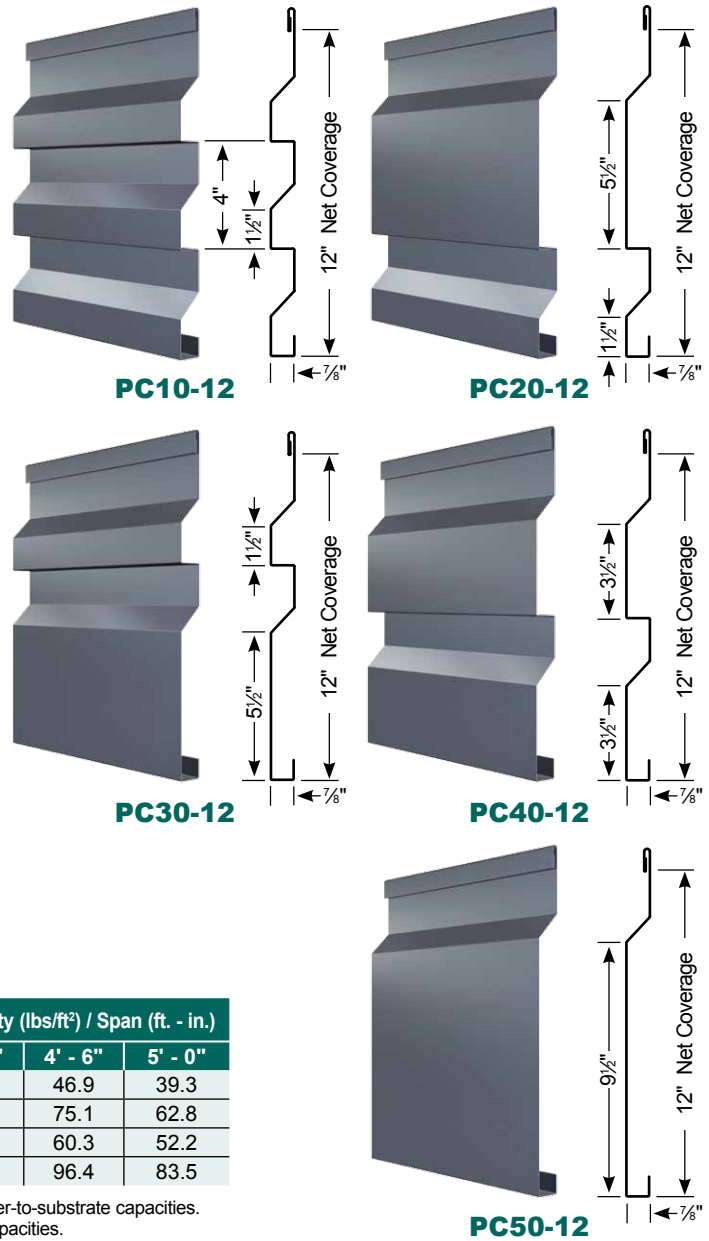
Shown with flush clip

Shown with standoff clip

Shown as direct fastened

Gauge	Cond.	Maximum* Negative (Outward) Uniform Load Capacity (lbs/ft²) / Span (ft. - in.)						
		2' - 0"	2' - 6"	3' - 0"	3' - 6"	4' - 0"	4' - 6"	5' - 0"
24	ASD, W/Ω	85.3	77.6	70	62.3	54.6	46.9	39.3
	LRFD, φW	136.5	124.2	111.9	99.6	87.4	75.1	62.8
22-20	ASD, W/Ω	100.7	92.6	84.5	76.4	68.4	60.3	52.2
	LRFD, φW	161	148.1	135.2	122.3	109.4	96.4	83.5

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



## standard features

- Patented and tested.
- Wall application meets 2012 IBC requirements in accordance with Chapter 14.
- ASTM E1592 (wind uplift), ASTM E283 (air infiltration), ASTM E331 (water infiltration) tested.
- Available in two panel attachment configurations - a directly attached fastening flange or clip interlocking hem.
- Two clip options enable panels to be installed flush to substrate or with a 1/2" standoff.
- Panels can be used in a rainscreen system.
- Available in 24ga and 22ga in standard colors.
- Available in 24ga, 22ga, and 20ga in ZINCALUME® Plus.
- Panels available in a wide variety of Dura Tech™ 5000, Dura Tech™ mx colors, and specialty prints and textures.
- Custom colors, thick film primer and/or clear coat paint finishes available. Subject to 3,000 square feet minimum order.
- Custom manufactured sheet lengths from 5'-0" to 20'-0" maximum.
- Manufactured in Fontana, CA. and Anchorage, AK.

## PC10-12

Properties									Standard Finishes	
Gauge	Base Steel Thickness (in)	Yield (ksi)	Tensile (ksi)	Wt. (lbs/ft <sup>2</sup> )	I+ (in <sup>4</sup> /ft)	S+ (in <sup>3</sup> /ft)	I- (in <sup>4</sup> /ft)	S- (in <sup>3</sup> /ft)	Metallic Coating	Paint System
24	0.0232	50	65	1.53	0.0510	0.0849	0.0498	0.1008	AZ50	Cool Dura Tech™ 5000 or
22	0.0294	50	65	1.92	0.0677	0.1189	0.0661	0.1340	AZ50	
20	0.0354	40	55	2.30	0.0860	0.1611	0.0847	0.1652	G90	Cool Dura Tech™ mx

NOTES: The moments of inertia, I<sup>+</sup> and I<sup>-</sup>, presented for determining deflection are: (2I<sub>Effective</sub> + I<sub>Gross</sub>)/3

Gauge	Span	Cond.	Positive (Inward) Uniform Load Capacity (lbs/ft <sup>2</sup> ) / Span (ft. - in.)						
			2' - 0"	3' - 0"	4' - 0"	5' - 0"	6' - 0"	7' - 0"	8' - 0"
24	Single Span	ASD, W/Ω	424	188	106	68	47	35	26
		LRFD, φW	672	299	168	108	75	55	42
		L/180	-	165	70	36	21	13	9
	Double Span	ASD, W/Ω	287	191	122	79	55	40	30
		LRFD, φW	426	284	183	118	83	61	46
		L/180	-	-	-	-	50	31	21
	Triple Span	ASD, W/Ω	326	217	150	98	68	50	38
		LRFD, φW	484	323	227	147	103	75	58
		L/180	-	-	131	67	39	25	16
22	Single Span	ASD, W/Ω	593	264	148	95	66	48	37
		LRFD, φW	941	418	235	151	105	77	59
		L/180	-	219	93	47	27	17	12
	Double Span	ASD, W/Ω	439	281	162	105	73	53	41
		LRFD, φW	653	424	243	158	110	81	62
		L/180	-	-	-	-	66	42	28
	Triple Span	ASD, W/Ω	499	333	200	130	91	66	51
		LRFD, φW	742	495	301	195	136	100	77
		L/180	-	-	175	89	52	33	22
20	Single Span	ASD, W/Ω	643	286	161	103	71	52	40
		LRFD, φW	1020	453	255	163	113	83	64
		L/180	-	278	117	60	35	22	15
	Double Span	ASD, W/Ω	491	277	159	103	72	53	40
		LRFD, φW	731	417	239	155	109	80	61
		L/180	-	-	-	-	-	53	35
	Triple Span	ASD, W/Ω	558	339	197	128	89	66	51
		LRFD, φW	831	511	297	193	134	99	76
		L/180	-	-	-	113	66	41	28

## PC20-12

Properties									Standard Finishes	
Gauge	Base Steel Thickness (in)	Yield (ksi)	Tensile (ksi)	Wt. (lbs/ft <sup>2</sup> )	I+ (in <sup>4</sup> /ft)	S+ (in <sup>3</sup> /ft)	I- (in <sup>4</sup> /ft)	S- (in <sup>3</sup> /ft)	Metallic Coating	Paint System
24	0.0232	50	65	1.43	0.0425	0.0592	0.0501	0.0807	AZ50	Cool Dura Tech™ 5000 or
22	0.0294	50	65	1.80	0.0566	0.0843	0.0664	0.1133	AZ50	
20	0.0354	40	55	2.15	0.0723	0.1182	0.0843	0.1551	G90	Cool Dura Tech™ mx

NOTES: The moments of inertia, I<sup>+</sup> and I<sup>-</sup>, presented for determining deflection are: (2I<sub>Effective</sub> + I<sub>Gross</sub>)/3

Gauge	Span	Cond.	Positive (Inward) Uniform Load Capacity (lbs/ft <sup>2</sup> ) / Span (ft. - in.)						
			2' - 0"	3' - 0"	4' - 0"	5' - 0"	6' - 0"	7' - 0"	8' - 0"
24	Single Span	ASD, W/Ω	293	131	74	47	33	24	18
		LRFD, φW	448	208	117	75	52	38	29
		L/180	-	-	58	30	17	11	7
	Double Span	ASD, W/Ω	191	127	96	62	44	32	25
		LRFD, φW	284	189	142	94	66	49	37
		L/180	-	-	-	-	41	26	17
	Triple Span	ASD, W/Ω	217	145	109	78	54	40	31
		LRFD, φW	323	215	161	117	81	61	47
		L/180	-	-	-	56	32	20	14
22	Single Span	ASD, W/Ω	421	187	105	67	47	34	26
		LRFD, φW	667	297	167	107	74	54	42
		L/180	-	183	77	40	23	14	10
	Double Span	ASD, W/Ω	293	195	135	88	61	45	34
		LRFD, φW	435	290	203	132	92	68	52
		L/180	-	-	-	-	55	35	23
	Triple Span	ASD, W/Ω	333	222	165	108	75	56	43
		LRFD, φW	495	330	247	162	114	84	65
		L/180	-	-	146	75	43	27	18
20	Single Span	ASD, W/Ω	472	210	118	75	52	39	29
		LRFD, φW	749	333	187	120	83	61	47
		L/180	-	-	99	51	29	18	12
	Double Span	ASD, W/Ω	328	218	146	95	66	49	38
		LRFD, φW	487	325	219	143	100	74	57
		L/180	-	-	-	-	-	44	30
	Triple Span	ASD, W/Ω	372	248	177	117	83	61	47
		LRFD, φW	554	369	267	176	124	92	71
		L/180	-	-	-	95	55	35	23

## PC30-12

Properties									Standard Finishes	
Gauge	Base Steel Thickness (in)	Yield (ksi)	Tensile (ksi)	Wt. (lbs/ft <sup>2</sup> )	I+ (in <sup>4</sup> /ft)	S+ (in <sup>3</sup> /ft)	I- (in <sup>4</sup> /ft)	S- (in <sup>3</sup> /ft)	Metallic Coating	Paint System
24	0.0232	50	65	1.43	0.0425	0.0592	0.0501	0.0807	AZ50	Cool Dura Tech™ 5000 or
22	0.0294	50	65	1.80	0.0567	0.0843	0.0665	0.1133	AZ50	
20	0.0354	40	55	2.15	0.0723	0.1182	0.0843	0.1551	G90	Cool Dura Tech™ mx

NOTES: The moments of inertia, I<sup>+</sup> and I<sup>-</sup>, presented for determining deflection are:  $(2I_{Effective} + I_{Gross})/3$

Gauge	Span	Cond.	Positive (Inward) Uniform Load Capacity (lbs/ft <sup>2</sup> ) / Span (ft. - in.)						
			2' - 0"	3' - 0"	4' - 0"	5' - 0"	6' - 0"	7' - 0"	8' - 0"
24	Single Span	ASD, W/Ω	293	131	74	47	33	24	18
		LRFD, φW	448	208	117	75	52	38	29
		L/180	-	-	58	30	17	11	7
	Double Span	ASD, W/Ω	191	127	96	62	44	32	25
		LRFD, φW	284	189	142	94	66	49	37
		L/180	-	-	-	-	41	26	17
	Triple Span	ASD, W/Ω	217	145	109	78	54	40	31
		LRFD, φW	323	215	161	117	81	61	47
		L/180	-	-	-	56	32	20	14
22	Single Span	ASD, W/Ω	421	187	105	67	47	34	26
		LRFD, φW	667	297	167	107	74	54	42
		L/180	-	183	77	40	23	14	10
	Double Span	ASD, W/Ω	293	195	135	88	61	45	34
		LRFD, φW	435	290	203	132	92	68	52
		L/180	-	-	-	-	55	35	23
	Triple Span	ASD, W/Ω	333	222	165	108	75	56	43
		LRFD, φW	495	330	247	162	114	84	65
		L/180	-	-	146	75	43	27	18
20	Single Span	ASD, W/Ω	472	210	118	75	52	39	29
		LRFD, φW	749	333	187	120	83	61	47
		L/180	-	-	99	51	29	18	12
	Double Span	ASD, W/Ω	328	218	146	95	66	49	38
		LRFD, φW	487	325	219	143	100	74	57
		L/180	-	-	-	-	-	44	30
	Triple Span	ASD, W/Ω	372	248	177	117	83	61	47
		LRFD, φW	554	369	267	176	124	92	71
		L/180	-	-	-	95	55	35	23

## PC40-12

Properties									Standard Finishes	
Gauge	Base Steel Thickness (in)	Yield (ksi)	Tensile (ksi)	Wt. (lbs/ft <sup>2</sup> )	I+ (in <sup>4</sup> /ft)	S+ (in <sup>3</sup> /ft)	I- (in <sup>4</sup> /ft)	S- (in <sup>3</sup> /ft)	Metallic Coating	Paint System
24	0.0232	50	65	1.43	0.0429	0.0605	0.0501	0.0807	AZ50	Cool Dura Tech™ 5000 or
22	0.0294	50	65	1.80	0.0573	0.0871	0.0664	0.1133	AZ50	
20	0.0354	40	55	2.15	0.0739	0.1243	0.0844	0.1551	G90	Cool Dura Tech™ mx

NOTES: The moments of inertia, I<sup>+</sup> and I<sup>-</sup>, presented for determining deflection are:  $(2I_{Effective} + I_{Gross})/3$

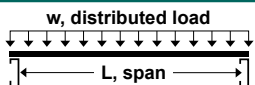
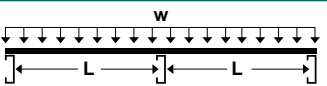
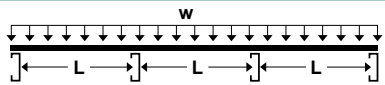
Gauge	Span	Cond.	Positive (Inward) Uniform Load Capacity (lbs/ft <sup>2</sup> ) / Span (ft. - in.)						
			2' - 0"	3' - 0"	4' - 0"	5' - 0"	6' - 0"	7' - 0"	8' - 0"
24	Single Span	ASD, W/Ω	293	134	75	48	34	25	19
		LRFD, φW	448	213	120	77	53	39	30
		L/180	-	-	59	30	17	11	7
	Double Span	ASD, W/Ω	191	127	96	62	44	32	25
		LRFD, φW	284	189	142	94	66	49	37
		L/180	-	-	-	-	42	26	18
	Triple Span	ASD, W/Ω	217	145	109	78	54	40	31
		LRFD, φW	323	215	161	117	81	61	47
		L/180	-	-	-	57	33	21	14
22	Single Span	ASD, W/Ω	435	193	109	70	48	35	27
		LRFD, φW	684	306	172	110	77	56	43
		L/180	-	186	78	40	23	15	10
	Double Span	ASD, W/Ω	293	195	135	88	61	45	34
		LRFD, φW	435	290	203	132	92	68	52
		L/180	-	-	-	-	56	35	24
	Triple Span	ASD, W/Ω	333	222	165	108	75	56	43
		LRFD, φW	495	330	247	162	114	84	65
		L/180	-	-	148	76	44	28	18
20	Single Span	ASD, W/Ω	496	221	124	79	55	41	31
		LRFD, φW	762	350	197	126	87	64	49
		L/180	-	-	101	52	30	19	13
	Double Span	ASD, W/Ω	328	218	146	95	66	49	38
		LRFD, φW	487	325	219	143	100	74	57
		L/180	-	-	-	-	-	45	30
	Triple Span	ASD, W/Ω	372	248	178	116	82	61	47
		LRFD, φW	554	369	267	176	124	92	71
		L/180	-	-	-	97	56	36	24

## PC50-12

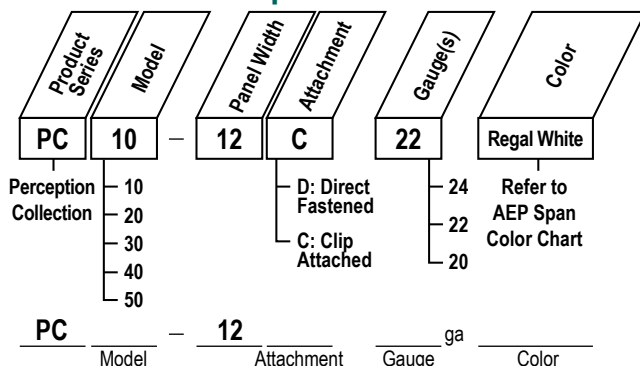
Properties									Standard Finishes	
Gauge	Base Steel Thickness (in)	Yield (ksi)	Tensile (ksi)	Wt. (lbs/ft <sup>2</sup> )	I+ (in <sup>4</sup> /ft)	S+ (in <sup>3</sup> /ft)	I- (in <sup>4</sup> /ft)	S- (in <sup>3</sup> /ft)	Metallic Coating	Paint System
24	0.0232	50	65	1.33	0.0307	0.0318	0.0424	0.0549	AZ50	Cool Dura Tech™ 5000 or Cool Dura Tech™ mx
22	0.0294	50	65	1.68	0.0409	0.0462	0.0565	0.0772	AZ50	
20	0.0354	40	55	2.01	0.0527	0.0671	0.0727	0.1061	G90	

NOTES: The moments of inertia, I<sup>+</sup> and I<sup>-</sup>, presented for determining deflection are: (2I<sub>Effective</sub> + I<sub>Gross</sub>)/3

Gauge	Span	Cond.	Positive (Inward) Uniform Load Capacity (lbs/ft <sup>2</sup> ) / Span (ft. - in.)						
			2' - 0"	3' - 0"	4' - 0"	5' - 0"	6' - 0"	7' - 0"	8' - 0"
24	Single Span	ASD, W/Ω	146	70	40	25	18	13	10
		LRFD, φW	224	112	63	40	28	21	16
		L/180	-	-	-	21	12	8	5
	Double Span	ASD, W/Ω	96	64	48	38	29	21	16
		LRFD, φW	142	95	71	57	43	32	25
		L/180	-	-	-	-	-	19	13
Triple Span	ASD, W/Ω	109	72	54	43	36	27	21	
	LRFD, φW	161	108	81	65	54	40	31	
	L/180	-	-	-	41	23	15	10	
22	Single Span	ASD, W/Ω	223	102	58	37	26	19	14
		LRFD, φW	342	163	91	59	41	30	23
		L/180	-	-	56	29	17	10	7
	Double Span	ASD, W/Ω	146	98	73	58	41	30	23
		LRFD, φW	218	145	109	87	61	45	34
		L/180	-	-	-	-	40	25	17
Triple Span	ASD, W/Ω	166	111	83	67	50	38	28	
	LRFD, φW	247	165	124	99	75	57	43	
	L/180	-	-	-	54	31	20	13	
20	Single Span	ASD, W/Ω	249	119	67	43	30	22	17
		LRFD, φW	381	189	106	68	47	35	27
		L/180	-	-	-	37	21	13	9
	Double Span	ASD, W/Ω	164	109	82	62	44	33	26
		LRFD, φW	244	162	122	94	67	50	39
		L/180	-	-	-	-	-	32	22
Triple Span	ASD, W/Ω	186	124	93	74	54	40	31	
	LRFD, φW	277	185	138	111	82	61	47	
	L/180	-	-	-	69	40	25	17	

Inward Loads	Single Span		<b>NOTES:</b> 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		

## Product Specification Guide



**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.



Customer Service Center  
Tacoma, WA.

Phone: 800-733-4955

Fax: 253-272-0791

For most current versions of literature please visit  
[www.aepspan.com](http://www.aepspan.com)