

## Reversed PBR, 26ga

Substrate		Fastener		Panel System Negative (Outward) Uniform Load Capacity, (lbs/ft <sup>2</sup> )																	
		Nom. Size	Attach. Pattern	Attachment Spacing, (ft-in)																	
				2' - 0"		2' - 6"		3' - 0"		3' - 6"		4' - 0"		5' - 0"		6' - 0"		7' - 0"		8' - 0"	
				ASD W/Ω	LRFD φW	ASD W/Ω	LRFD φW	ASD W/Ω	LRFD φW	ASD W/Ω	LRFD φW	ASD W/Ω	LRFD φW	ASD W/Ω	LRFD φW	ASD W/Ω	LRFD φW	ASD W/Ω	LRFD φW	ASD W/Ω	LRFD φW
Material / Grade	Thick-ness																				
Steel (Gr 50 min.)	≥10ga (.1350")	#12	36/4	236	355	189	284	158	236	135	203	114	177	73	116	51	80	37	59	29	44
	12ga (.1050")	#12	36/4	236	355	189	284	158	236	135	203	114	177	73	116	51	80	37	59	29	44
	14ga (.0700")	#12	36/4	186	278	149	223	124	186	106	159	93	139	73	111	51	80	37	59	29	44
	16ga (.0590")	#12	36/4	156	235	125	188	104	156	89	134	78	117	63	94	51	78	37	59	29	44
	18ga (.0459")	#12	36/4	122	183	97	146	81	122	70	104	61	91	49	73	41	61	35	52	29	44
	20ga (.0354")	#12	36/4	94	141	75	113	63	94	54	80	47	70	38	56	31	47	27	40	23	35
	22ga (.0294")	#12	36/4	78	117	62	94	52	78	45	67	39	58	31	47	26	39	22	33	19	29
Steel (Gr 33 min.)	≥10ga (.1350")	#12	36/4	236	355	189	284	158	236	135	203	114	177	73	116	51	80	37	59	29	44
	12ga (.1050")	#12	36/4	193	289	154	231	129	193	110	165	96	145	73	116	51	80	37	59	29	44
	14ga (.0700")	#12	36/4	129	193	103	154	86	129	73	110	64	96	51	77	43	64	37	55	29	44
	16ga (.0590")	#12	36/4	108	162	87	130	72	108	62	93	54	81	43	65	36	54	31	46	27	41
	18ga (.0459")	#12	36/4	84	126	67	101	56	84	48	72	42	63	34	51	28	42	24	36	21	32
	20ga (.0354")	#12	36/4	65	97	52	78	43	65	37	56	32	49	26	39	22	32	19	28	16	24
	22ga (.0294")	#12	36/4	54	81	43	65	36	54	31	46	27	40	22	32	18	27	15	23	13	20
Plywood & OSB	15/32"	#14	36/4	70	94	56	75	47	63	40	54	35	47	28	38	23	31	20	27	17	24
	19/32"	#14	36/4	88	119	71	96	59	80	51	68	44	60	35	48	29	40	25	34	22	30
	23/32"	#14	36/4	107	145	86	116	71	96	61	83	54	72	43	58	36	48	31	41	27	36
Lumber (DFL)	1" min	#9	36/4	129	174	103	140	86	116	74	100	65	87	52	70	43	58	37	50	29	44
		#14	36/4	177	238	141	191	118	159	101	136	88	119	71	95	51	79	37	59	29	44

**Notes:**

1. Panel capacities based on fastener pullout, pullover, fastener tension, panel outward bending strength, and IBC deflection limits.
2. Fastener capacities in steel based on AISI S100-16; fastener capacities in wood substrates based on ANSI/AWC NDS-2015.
3. Panel capacities presented in both ASD and LRFD. If design method is not known, use ASD (most conservative).

## Reversed PBR, 24ga

Substrate		Fastener		Panel System Negative (Outward) Uniform Load Capacity, (lbs/ft <sup>2</sup> )																	
		Nom. Size	Attach. Pattern	Attachment Spacing, (ft-in)																	
				2' - 0"		2' - 6"		3' - 0"		3' - 6"		4' - 0"		5' - 0"		6' - 0"		7' - 0"		8' - 0"	
				ASD W/Ω	LRFD φW	ASD W/Ω	LRFD φW	ASD W/Ω	LRFD φW	ASD W/Ω	LRFD φW	ASD W/Ω	LRFD φW	ASD W/Ω	LRFD φW	ASD W/Ω	LRFD φW	ASD W/Ω	LRFD φW	ASD W/Ω	LRFD φW
Material / Grade	Thick-ness																				
Steel (Gr 50 min.)	≥10ga (.1350")	#12	36/4	251	377	201	302	168	251	128	203	98	156	63	100	44	69	32	51	25	39
	12ga (.1050")	#12	36/4	251	377	201	302	168	251	128	203	98	156	63	100	44	69	32	51	25	39
	14ga (.0700")	#12	36/4	186	278	149	223	124	186	106	159	93	139	63	100	44	69	32	51	25	39
	16ga (.0590")	#12	36/4	156	235	125	188	104	156	89	134	78	117	63	94	44	69	32	51	25	39
	18ga (.0459")	#12	36/4	122	183	97	146	81	122	70	104	61	91	49	73	41	61	32	51	25	39
	20ga (.0354")	#12	36/4	94	141	75	113	63	94	54	80	47	70	38	56	31	47	27	40	23	35
	22ga (.0294")	#12	36/4	78	117	62	94	52	78	45	67	39	58	31	47	26	39	22	33	19	29
Steel (Gr 33 min.)	≥10ga (.1350")	#12	36/4	248	372	198	297	165	248	128	203	98	156	63	100	44	69	32	51	25	39
	12ga (.1050")	#12	36/4	193	289	154	231	129	193	110	165	96	145	63	100	44	69	32	51	25	39
	14ga (.0700")	#12	36/4	129	193	103	154	86	129	73	110	64	96	51	77	43	64	32	51	25	39
	16ga (.0590")	#12	36/4	108	162	87	130	72	108	62	93	54	81	43	65	36	54	31	46	25	39
	18ga (.0459")	#12	36/4	84	126	67	101	56	84	48	72	42	63	34	51	28	42	24	36	21	32
	20ga (.0354")	#12	36/4	65	97	52	78	43	65	37	56	32	49	26	39	22	32	19	28	16	24
	22ga (.0294")	#12	36/4	54	81	43	65	36	54	31	46	27	40	22	32	18	27	15	23	13	20
Plywood & OSB	15/32"	#14	36/4	70	94	56	75	47	63	40	54	35	47	28	38	23	31	20	27	17	24
	19/32"	#14	36/4	88	119	71	96	59	80	51	68	44	60	35	48	29	40	25	34	22	30
	23/32"	#14	36/4	107	145	86	116	71	96	61	83	54	72	43	58	36	48	31	41	25	36
Lumber (DFL)	1" min	#9	36/4	129	174	103	140	86	116	74	100	65	87	52	70	43	58	32	50	25	39
		#14	36/4	177	238	141	191	118	159	101	136	88	119	63	95	44	69	32	51	25	39

**Notes:**

1. Panel capacities based on fastener pullout, pullover, fastener tension, panel outward bending strength, and IBC deflection limits.
2. Fastener capacities in steel based on AISI S100-16; fastener capacities in wood substrates based on ANSI/AWC NDS-2015.
3. Panel capacities presented in both ASD and LRFD. If design method is not known, use ASD (most conservative).

## Reversed PBR, 22ga

Substrate		Fastener		Panel System Negative (Outward) Uniform Load Capacity, (lbs/ft <sup>2</sup> )																	
		Nom. Size	Attach. Pattern	Attachment Spacing, (ft-in)																	
				2' - 0"		2' - 6"		3' - 0"		3' - 6"		4' - 0"		5' - 0"		6' - 0"		7' - 0"		8' - 0"	
				ASD W/Ω	LRFD φW	ASD W/Ω	LRFD φW	ASD W/Ω	LRFD φW	ASD W/Ω	LRFD φW	ASD W/Ω	LRFD φW	ASD W/Ω	LRFD φW	ASD W/Ω	LRFD φW	ASD W/Ω	LRFD φW	ASD W/Ω	LRFD φW
Steel (Gr 50 min.)	≥10ga (.1350")	#12	36/4	319	478	255	382	212	319	164	261	126	200	81	128	56	89	41	65	31	50
	12ga (.1050")	#12	36/4	278	418	223	334	186	278	159	239	126	200	81	128	56	89	41	65	31	50
	14ga (.0700")	#12	36/4	186	278	149	223	124	186	106	159	93	139	74	111	56	89	41	65	31	50
	16ga (.0590")	#12	36/4	156	235	125	188	104	156	89	134	78	117	63	94	52	78	41	65	31	50
	18ga (.0459")	#12	36/4	122	183	97	146	81	122	70	104	61	91	49	73	41	61	35	52	30	46
	20ga (.0354")	#12	36/4	94	141	75	113	63	94	54	80	47	70	38	56	31	47	27	40	23	35
	22ga (.0294")	#12	36/4	78	117	62	94	52	78	45	67	39	58	31	47	26	39	22	33	19	29
Steel (Gr 33 min.)	≥10ga (.1350")	#12	36/4	248	372	198	297	165	248	142	212	124	186	81	128	56	89	41	65	31	50
	12ga (.1050")	#12	36/4	193	289	154	231	129	193	110	165	96	145	77	116	56	89	41	65	31	50
	14ga (.0700")	#12	36/4	129	193	103	154	86	129	73	110	64	96	51	77	43	64	37	55	31	48
	16ga (.0590")	#12	36/4	108	162	87	130	72	108	62	93	54	81	43	65	36	54	31	46	27	41
	18ga (.0459")	#12	36/4	84	126	67	101	56	84	48	72	42	63	34	51	28	42	24	36	21	32
	20ga (.0354")	#12	36/4	65	97	52	78	43	65	37	56	32	49	26	39	22	32	19	28	16	24
	22ga (.0294")	#12	36/4	54	81	43	65	36	54	31	46	27	40	22	32	18	27	15	23	13	20
Plywood & OSB	15/32"	#14	36/4	70	94	56	75	47	63	40	54	35	47	28	38	23	31	20	27	17	24
	19/32"	#14	36/4	88	119	71	96	59	80	51	68	44	60	35	48	29	40	25	34	22	30
	23/32"	#14	36/4	107	145	86	116	71	96	61	83	54	72	43	58	36	48	31	41	27	36
Lumber (DFL)	1" min	#9	36/4	129	174	103	140	86	116	74	100	65	87	52	70	43	58	37	50	31	44
		#14	36/4	177	238	141	191	118	159	101	136	88	119	71	95	56	79	41	65	31	50

**Notes:**

1. Panel capacities based on fastener pullout, pullover, fastener tension, panel outward bending strength, and IBC deflection limits.
2. Fastener capacities in steel based on AISI S100-16; fastener capacities in wood substrates based on ANSI/AWC NDS-2015.
3. Panel capacities presented in both ASD and LRFD. If design method is not known, use ASD (most conservative).