

SBP Supplemental Bearing Plate

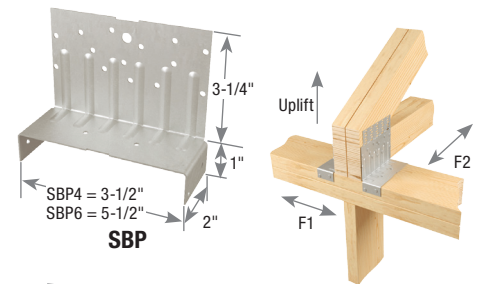


Use the SBP instead of extra truss plies or nail-on scabs to distribute concentrated truss reactions and avoid top plate crushing. The two-piece design accommodates any number of girder plies. A wrap-around design gives superior uplift resistance, and reinforcement ribs effectively distribute bearing loads. Works with both single and double 2x4 or 2x6 top plates.

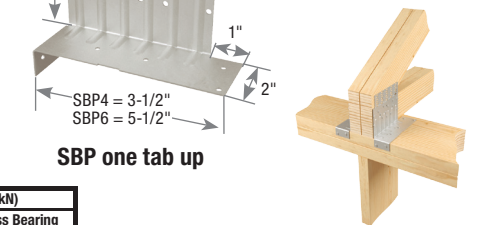
Materials: 16 gauge
Finish: G90 galvanizing

Installation:

- Use all specified fasteners.
- The SBP shall be installed in pairs.



SBP
Typical SBP standard installation



SBP one tab up

Typical SBP6 one tab up on a 2x8 top plate installation (SBP4 similar)



Typical SBP one tab up alternate installation

Wood Species	f _{cp} (psi)	No. of Truss Plies	Factored Resistance (Lbs)			Factored Resistance (kN)		
			SBP's Alone	SBP + Truss Bearing	EBL (in)	SBP's Alone	SBP + Truss Bearing	EBL (mm)
			100%	100%	100%	100%	100%	100%
SBP4 on 2x4 / 2x6 Top Plate and Alternate Installation								
DF-L	1015	1	5035	9300	7.63	22.40	41.37	193.88
		2	5035	13565	5.57	22.40	60.33	141.39
		3	5035	17825	4.88	22.40	79.30	123.89
		4	5035	22090	4.53	22.40	98.27	115.14
S-P-F	769	1	3575	6805	7.38	15.90	30.26	187.34
		2	3575	10030	5.44	15.90	44.63	138.12
		3	3575	13260	4.79	15.90	58.99	121.71
		4	3575	16490	4.47	15.90	73.35	113.51
Hem Fir	667	1	3930	6730	8.41	17.48	29.95	213.59
		2	3930	9535	5.95	17.48	42.41	151.24
		3	3930	12335	5.14	17.48	54.88	130.46
		4	3930	15140	4.73	17.48	67.34	120.07
SBP6 on 2x6 / 2x8 Top Plate and Alternate Installation								
DF-L	1015	1	7315	14015	11.50	32.54	62.35	292.21
		2	7315	20715	8.50	32.54	92.15	215.96
		3	7315	27415	7.50	32.54	121.96	190.54
		4	7315	34115	7.00	32.54	151.77	177.83
S-P-F	769	1	5195	10270	11.13	23.11	45.68	282.75
		2	5195	15340	8.31	23.11	68.24	211.23
		3	5195	20415	7.38	23.11	90.81	187.38
		4	5195	25490	6.91	23.11	113.38	175.46
Hem Fir	667	1	5705	10110	12.63	25.38	44.97	320.70
		2	5705	14510	9.06	25.38	64.55	230.20
		3	5705	18915	7.88	25.38	84.14	200.03
		4	5705	23320	7.28	25.38	103.73	184.95

- 1) Factored resistance is for a pair of SBP devices. SBP's shall be installed in pairs. 2) Multiple ply trusses shall be fastened together to act as a single unit. 3) EBL denotes effective bearing length and includes the actual bearing length plus the contribution of the SBP device. 4) Assumes full seating of truss on top plate.

PEO
 Certificate No. 10889485



Nov. 30, 2016

USP Stock No.	Installation Type	Truss/Joist Thickness (in)	Fastener Schedule ^{2,6}						Factored Resistance (115%) ^{1,3}										
			Plate		Truss		DF-L (Lbs)			DF-L (kN)			S-P-F (Lbs)			S-P-F (kN)			
			Top Qty	Sides Qty	Type	Qty	Type	F1	F2	Uplift	F1	F2	Uplift	F1	F2	Uplift	F1	F2	Uplift
SBP4	Standard Installation	≤ 2-7/8	4	8	10d	20	10dx1-1/2	2880	3065	2435	12.81	13.63	10.83	2045	2175	1730	9.10	9.68	7.70
	One Tab Up (2x6 Top Plate)	≤ 2-7/8	4	8	10d	20	10dx1-1/2	2880	2230	1435	12.81	9.92	6.38	2045	1965	805	9.10	8.74	3.58
	One Tab Up (Alternate)	≥ 3	4	8	10d	20	10d	1880	1315	1435	8.36	5.85	6.38	1120	1125	805	4.98	5.00	3.58
SBP6	Standard Installation	≤ 2-7/8	4	8	10d	20	10dx1-1/2	2880	3065	2435	12.81	13.63	10.83	2045	2175	1730	9.10	9.68	7.70
	One Tab Up (2x8 Top Plate)	≤ 2-7/8	4	8	10d	20	10dx1-1/2	2880	2230	1435	12.81	9.92	6.38	2045	1965	805	9.10	8.74	3.58
	One Tab Up (Alternate)	≥ 3	4	8	10d	20	10d	1880	1315	1435	8.36	5.85	6.38	1120	1125	805	4.98	5.00	3.58

- 1) Factored resistances have been increased 15% for short-term loads such as wind and earthquake; no further increase is allowed. For standard term loads divide the values by 1.15. 2) Fastener schedule is for a pair of SBP devices. 3) Factored resistances are for a pair of SBP devices. 4) Multiple ply trusses shall be fastened together to act as a single unit. 5) Where truss sits on a single top plate, 10d x 1-1/2" nails may be used on the top side of the top plate. 6) NAILS: 10d x 1-1/2" nails are 0.148" dia. x 1-1/2" long, 10d nails are 0.148" dia. x 3" long.

Use in conjunction with USP's current Canadian Product Catalogue for detailed hanger information.



USP supplies quality products
 to build Stronger Safer Structures
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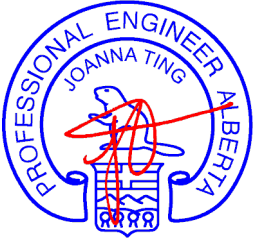
Valid through Dec. 31, 2018

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 Revised November 2016 USP2320-SBP



SBP Supplemental Bearing Plate

APEGA
Permit No. P3837



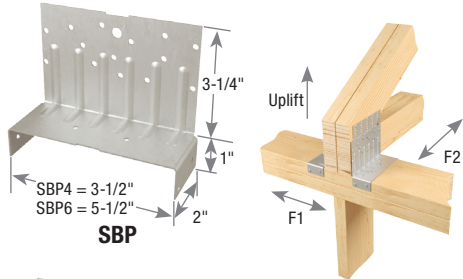
Nov. 30, 2016

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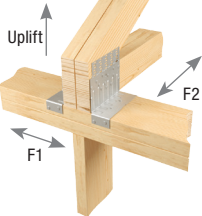
Materials: 16 gauge
Finish: G90 galvanizing

Installation:

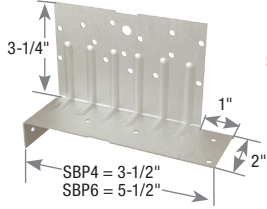
- Use all specified fasteners.
- The SBP shall be installed in pairs.



SBP



Typical SBP standard installation



SBP one tab up



Typical SBP6 one tab up on a 2x8 top plate installation (SBP4 similar)



Typical SBP one tab up alternate installation

Wood Species	f _{cp} (psi)	No. of Truss Plies	Factored Resistance (Lbs)			Factored Resistance (kN)		
			SBP's Alone	SBP + Truss Bearing	EBL (in)	SBP's Alone	SBP + Truss Bearing	EBL (mm)
SBP4 on 2x4 / 2x6 Top Plate and Alternate Installation								
DF-L	1015	1	5035	9300	7.63	22.40	41.37	193.88
		2	5035	13565	5.57	22.40	60.33	141.39
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DF-L	1015	1	7315	14015	11.50	32.54	62.35	292.21
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USP Stock No.	Installation Type	Truss/Joist Thickness (in)	Fastener Schedule ^{2,6}				Factored Resistance (115%) ^{1,3}																	
			Top Qty	Sides Qty	Type	Qty	Plate			Truss			DF-L (Lbs)			DF-L (kN)			S-P-F (Lbs)			S-P-F (kN)		
SBP4	Standard Installation	≤ 2-7/8	4	8	10d	20	10dx1-1/2			10d			F1	F2	Uplift	F1	F2	Uplift	F1	F2	Uplift	F1	F2	Uplift
	One Tab Up (2x6 Top Plate)	≤ 2-7/8	4	8	10d	20	10dx1-1/2			10d			2880	2230	1435	12.81	9.92	6.38	2045	1965	805	9.10	8.74	3.58
	One Tab Up (Alternate)	≥ 3	4	8	10d	20	10dx1-1/2			10d			1880	1315	1435	8.36	5.85	6.38	1120	1125	805	4.98	5.00	3.58
SBP6	Standard Installation	≤ 2-7/8	4	8	10d	20	10dx1-1/2			10d			2880	3065	2435	12.81	13.63	10.83	2045	2175	1730	9.10	9.68	7.70
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1) Factored resistances have been increased 15% for short-term loads such as wind and earthquake; no further increase is allowed. For standard term loads divide the values by 1.15. 2) Fastener schedule is for a pair of SBP devices. 3) Factored resistances are for a pair of SBP devices. 4) Multiple ply trusses shall be fastened together to act as a single unit. 5) Where truss sits on a single top plate, 10d x 1-1/2 nails may be used on the top side of the top plate. 6) NAILS: 10d x 1-1/2 nails are 0.148" dia. x 1-1/2" long, 10d nails are 0.148" dia. x 3" long.

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Valid through Dec. 31, 2018

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Nov. 30, 2016

APEGM
Certificate No. 96



Nov. 30, 2016

APEGS
Certificate No. C0940



Nov. 30, 2016
YR. MN. DAY

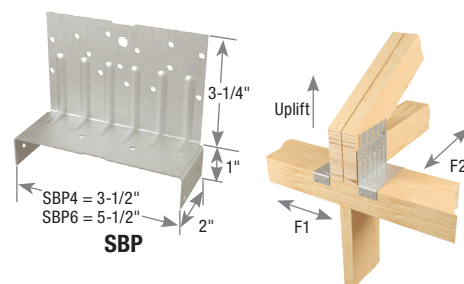


SBP Supplemental Bearing Plate

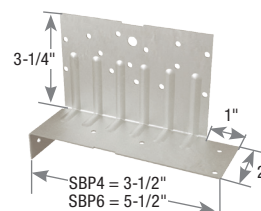
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			Plate		Truss		DF-L (Lbs)			DF-L (kN)			S-P-F (Lbs)			S-P-F (kN)			
			Top Qty	Sides Qty	Type	Qty	Type	F1	F2	Uplift	F1	F2	Uplift	F1	F2	Uplift	F1	F2	Uplift
SBP4	Standard Installation	≤ 2-7/8	4	8	10d	20	10dx1-1/2	2880	3065	2435	12.81	13.63	10.83	2045	2175	1730	9.10	9.68	7.70
	One Tab Up (2x6 Top Plate)	≥ 3	4	8	10d	20	10dx1-1/2	2880	2230	1435	12.81	9.92	6.38	2045	1965	805	9.10	8.74	3.58
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	One Tab Up (2x8 Top Plate)	≥ 3	4	8	10d	20	10dx1-1/2	2880	2230	1435	12.81	9.92	6.38	2045	1965	805	9.10	8.74	3.58
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- 2) Fastener schedule is for a pair of SBP devices.
- 3) Factored resistances are for a pair of SBP devices.
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- 5) Where truss sits on a single top plate, 10d x 1-1/2 nails may be used on the top side of the top plate.
- 6) **NAILS:** 10d x 1-1/2 nails are 0.148" dia. x 1-1/2" long, 10d nails are 0.148" dia. x 3" long.

Use in conjunction with USP's current Canadian Product Catalogue for detailed hanger information.

APEGNB
 Certificate No. F0649

LICENCED PROFESSIONAL ENGINEER
 Province of New Brunswick

L4921 2016
 Joanna Ting
 Signature
 Nov. 30, 2016
 Date

INGÉNIEURE TITULAIRE DE PERMIS
 Province du Nouveau-Brunswick

APENS
 Permit No. 15800 0

REGISTERED PROFESSIONAL ENGINEER
 DATE
 W.Y. Ting
 9823
 PROVINCE OF NOVA SCOTIA

Nov. 30, 2016

PEG
 Permit No. D0027

REGISTERED PROFESSIONAL ENGINEER
 PEG
 Newfoundland and Labrador
 PROFESSIONAL ENGINEERS AND GEOSCIENTISTS
 JOANNA W.Y. TING
 SIGNATURE
 Nov. 30, 2016
 DATE
 NEWFOUNDLAND & LABRADOR

APEPEI
 Permit No. A195

THE ASSOCIATION OF PROFESSIONAL ENGINEERS OF THE PROVINCE OF PRINCE EDWARD ISLAND
 VALID FOR THE YEAR 2016

J. W. Y. Ting
 No. 1246
 Signature

DATE: Nov. 30, 2016

LICENCED PROFESSIONAL ENGINEER
 PROVINCE OF PRINCE EDWARD ISLAND



USP supplies quality products to build Stronger Safer Structures
 USPconnectors.com

Valid through Dec. 31, 2018