

EWP (Engineered Wood Products) botky se používají hlavně pro spoje hlavních nosníků z masivního dřeva, vrstveného dřeva nebo laminátových desek.



[ETA-08/0053](#)

FEATURES



Materiál

Kvaita oceli:

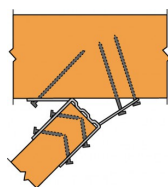
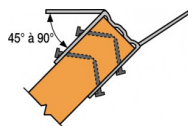
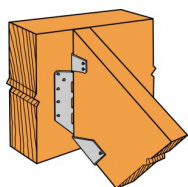
S 250 GD+Z 275 dle norem DIN EN

Ochrana proti korozi:

275 g/m pozinkováno z obou stran cca 20mm

Výhody

- konektor LSSU lze upravit na místě v požadovaném úhlu.
- na šikmé spoje
- úhel +/- 45 °



APPLICATIONS

Použitelné materiály

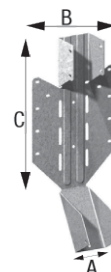
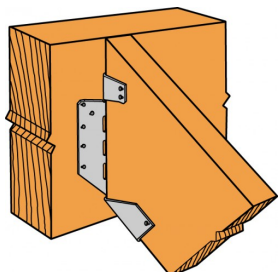
Dřevo, výrobky ze dřeva

Rozsah

- Tvarované díly se používají hlavně pro připojení dvojitých T-nosníků plných prvků.

TECHNICAL DATA

Rozměry a specifikace



Art. nr.	Trám			Rozměry				Upevnění						Charakteristické kapacity [kN]			
	Šířka [mm]	Cut Height [mm]		A	B	C	Tloušťka	Nosník				Trám		Download			
		Min.	Max.					Slope configuration		Skew configuration		Počet	Typ	Slope configuration		Skew configuration	
	Počet	Typ	Počet	Typ	Joist Class C24	Joist Class SCL	Joist Class C24	Joist Class SCL									
LSSU28	38	220	240	38	181	90	1.2	9	Ø4,0x50	9	Ø4,0x100	5	Ø3,75x30	7.2	5.1	3.2	3.4
LSSU210	38	220	360	38	216	90	1.2	9	Ø4,0x50	9	Ø4,0x100	7	Ø3,75x30	7.2	5.1	3.2	3.4
LSSUI25	45	220	360	45	216	90	1.2	9	Ø4,0x50	9	Ø4,0x100	7	Ø3,75x30	9.9	5.1	8.1	3.4
LSSUI35	58	220	360	60	216	90	1.2	9	Ø4,0x50	9	Ø4,0x100	7	Ø3,75x30	9.9	9.1	8.1	6.8
LSSU275/66	63	300	360	66	275	90	1.5	15	Ø4,0x50	15	Ø4,0x100	11	Ø3,75x30	10.5	-	10.7	-
LSSU275/71	70	300	360	71	275	90	1.5	15	Ø4,0x50	15	Ø4,0x100	12	Ø3,75x30	10.5	9.1	10.7	6.8
LSSU210-2	2x38	220	360	78	216	90	1.6	18	Ø4,0x50	14	Ø4,0x100	12	Ø3,75x30	-	9.1	-	6.8
LSSU410	89	220	360	90	216	90	1.6	18	Ø4,0x50	14	Ø4,0x100	12	Ø3,75x30	12.4	11.1	7.1	7.2
LSU3510-2*	2x58	240	360	120	228	90	2	24	Ø4,0x50	24	Ø4,0x100	12	Ø3,75x30	12.5	15.1	11.8	11.1

* Bending in slope only

SCL: Structural Composite Lumber

Safe Working Loads - Sloped Only

Art. nr.	Velikost trámu [mm]	Rozměry			Upevnění				Bezpečné pracovní zatížení [kN]					
		A	B	C	Nosník		Trám		LVL Flanged I-Joists			Solid Sawn Flanged I-Joists & C24 Solid Sections		
					Množství	Specifikace	Množství	Specifikace	Short Term Uplift	Long term Download	Medium Term Download	Short Term Uplift	Long term Download	Medium Term Download
LSSU28	38 x 241	38	181	90	10	3.75 x 75	5	3.75 x 30	1.19	2.14	2.44	1.19	3.03	3.46
LSSU210	38 x 302	38	216	90	10	3.75 x 75	7	3.75 x 30	1.19	2.14	2.44	1.19	3.03	3.46
LSSUI25	45 x 241 to 356	45	216	90	10	3.75 x 75	7	3.75 x 30	1.19	2.14	2.44	1.19	3.03	3.46
LSSUI35	58 x 241 to 356	60	216	90	10	3.75 x 75	7	3.75 x 30	1.19	2.14	2.44	1.99	4.14	4.73
LSSU275/66	63 x 300 to 450	66	275	90	18	3.75 x 75	11	3.75 x 30	-	-	-	2.86	4.41	5.04
LSSU275/71	70 x 300 to 450	71	275	90	18	3.75 x 75	11	3.75 x 30	1.19	3.81	4.35	2.86	4.41	5.04

Art. nr.	Velikost trámu [mm]	Rozm#ry			Upevn#ní				Bezpe#né pracovní zatížení [kN]					
		A	B	C	Nosník		Trám		LVL Flanged I-Joists			Solid Sawn Flanged I-Joists & C24 Solid Sections		
					Množství	Specifikace	Množství	Specifikace	Short Term Uplift	Long term Download	Medium Term Download	Short Term Uplift	Long term Download	Medium Term Download
LSSU210-1	(2) 38 x 241	78	216	90	18	4.0 x 100	12	3.75 x 30	1.19	3.81	4.35	-	-	-
LSSU410	89 x 241 to 356	90	216	90	18	4.0 x 100	12	3.75 x 30	1.5	4.65	5.32	2.39	5.19	5.93
LSU3510-2	(2) 58 x 241 to 356	120	228	90	24	4.0 x 100	12	3.75 x 30	2.99	6.33	7.23	2.28	5.23	5.98
LSU26	38 x 150	38	124	75	6	3.75 x 75	5	3.75 x 30	1.28	2.84	3.24	1.28	3.03	3.46
LSSU170/5	47 x 195 to 245	50	170	90	10	3.75 x 75	11	3.75 x 30	-	-	-	2.86	4.73	5.4
LSSU275/50	47 x 300 to 450	50	275	90	18	3.75 x 75	11	3.75 x 30	-	-	-	2.86	4.41	5.04
LSSU12.06	51 x 241 to 356	52	216	90	10	3.75 x 75	7	3.75 x 30	1.19	2.14	2.44	-	-	-
LSSU170/66	63 x 195 to 245	66	170	90	10	3.75 x 75	11	3.75 x 30	-	-	-	2.86	4.73	5.4
LSSU170/7	70 x 195 to 300	71	170	90	10	3.75 x 75	11	3.75 x 30	1.19	3.81	4.35	2.86	4.73	5.4
LSSU170/75	72 x 195 to 300	75	170	90	14	3.75 x 75	12	3.75 x 30	-	-	-	2.86	4.73	5.4
LSSU275/7	72 x 300 to 400	75	275	90	18	3.75 x 75	12	3.75 x 30	-	-	-	2.86	4.41	5.04
LSSU170/96	(2) 64 x 195 to 300	96	170	90	14	3.75 x 75	11	3.75 x 30	-	-	-	2.86	4.73	5.4
LSSU275/9	(2) 47 x 300 to 450	96	175	90	18	3.75 x 75	11	3.75 x 30	-	-	-	2.86	4.41	5.04
LSSU170/100	97 x 195 to 300	100	170	90	14	3.75 x 75	11	3.75 x 30	-	-	-	2.86	5.46	6.24
LSSU275/10	97 x 300 to 400	100	275	90	18	3.75 x 75	11	3.75 x 30	-	-	-	2.86	5.95	6.8
LSU4.12*	(2) 51 x 241 to 356	105	228	90	24	4.0 x 100	12	3.75 x 30	2.99	4.65	5.32	-	-	-

Safe Working Loads - Skewed or Sloped & Skewed

Art. nr.	Velikost trámu [mm]	Rozm#ry			Upevn#ní				Bezpe#né pracovní zatížení [kN]					
		A	B	C	Nosník		Trám		LVL Flanged I-Joists			Solid Sawn Flanged I-Joists & C24 Solid Sections		
					Množství	Specifikace	Množství	Specifikace	Short Term Uplift	Long Term Download	Medium Term Download	Short Term Uplift	Long Term Download	Medium Term Download
LSSU28	38 x 241	38	181	90	9	3.75 x 75	5	3.75 x 30	0.74	1.44	1.64	1.19	1.35	1.54
LSSU210	38 x 302	38	216	90	9	3.75 x 75	7	3.75 x 30	0.74	1.44	1.64	1.19	1.35	1.54
LSSU125	45 x 241 to 356	45	216	90	9	3.75 x 75	7	3.75 x 30	0.74	1.44	1.64	1.19	3.38	3.86
LSSU135	58 x 241 to 356	60	216	90	9	3.75 x 75	7	3.75 x 30	0.74	1.44	1.64	1.99	3.38	3.86
LSSU275/6	63 x 300 to 450	66	275	90	15	3.75 x 75	11	3.75 x 30	-	-	-	2.86	4.49	5.13
LSSU275/71	70 x 300 to 450	71	275	90	15	3.75 x 75	11	3.75 x 30	1.19	2.84	3.24	2.86	2.64	3.02

Art. nr.	Velikost trámu [mm]	Rozm#ry			Upevn#ní				Bezpe#né pracovní zatížení [kN]					
		A	B	C	Nosník		Trám		LVL Flanged I-Joists			Solid Sawn Flanged I-Joists & C24 Solid Sections		
					Množství	Specifikace	Množství	Specifikace	Short Term Uplift	Long Term Download	Medium Term Download	Short Term Uplift	Long Term Download	Medium Term Download
LSSU210-1	(2) 38 x 241	78	216	90	14	4.0 x 100	12	3.75 x 30	1.19	2.84	3.24	-	-	-
LSSU410	89 x 241 to 356	90	216	90	14	4.0 x 100	12	3.75 x 30	1.5	3	3.43	2.39	2.97	3.39
LSU3510-2	(2) 58 x 241 to 356	120	228	90	24	4.0 x 100	12	3.75 x 30	1.83	4.64	5.3	2.28	4.95	5.66
LSSU170/50	47 x 195 to 245	50	170	90	9	3.75 x 75	11	3.75 x 30	-	-	-	2.86	2.64	3.02
LSSU275/5	47 x 300 to 450	50	275	90	15	3.75 x 75	11	3.75 x 30	-	-	-	2.86	4.49	5.13
LSSUI2.06	51 x 241 to 356	52	216	90	9	3.75 x 75	7	3.75 x 30	0.74	1.44	1.64	-	-	-
LSSU170/6	63 x 195 to 245	66	170	90	9	3.75 x 75	11	3.75 x 30	-	-	-	2.86	2.64	3.02
LSSU170/71	70 x 195 to 300	71	170	90	9	3.75 x 75	11	3.75 x 30	1.19	2.84	3.24	2.86	2.64	3.02
LSSU170/7	72 x 195 to 300	75	170	90	9	3.75 x 75	11	3.75 x 30	-	-	-	2.86	2.64	3.02
LSSU275/75	72 x 300 to 400	75	275	90	15	3.75 x 75	11	3.75 x 30	-	-	-	2.86	4.49	5.13
LSSU170/9	(2) 47x195 to 300	96	170	90	9	3.75 x 75	11	3.75 x 30	-	-	-	2.86	2.64	3.02
LSSU275/96	(2) 47x300 to 450	96	175	90	15	3.75 x 75	11	3.75 x 30	-	-	-	2.86	4.49	5.13
LSSU170/10	97 x 195 to 300	100	170	90	9	3.75 x 75	11	3.75 x 30	-	-	-	2.86	1.95	2.23
LSSU275/100	97 x 300 to 400	100	275	90	15	3.75 x 75	11	3.75 x 30	-	-	-	2.86	3.4	3.89
LSU4.12*	(2) 51 x 241 to 356	105	228	90	24	4.0 x 100	12	3.75 x 30	1.5	3	3.43	-	-	-

- 1) Some of the inner face nails are not fitted on the acute ange side for skewed installations. Fill all nail holes on the obtuse angle side.
 2) LSU3510-2 and LSU4.12 are factory skewed. (Specify skew angle when ordering). Slope is field adjustable (bend once)

Characteristic - Sloped Only

Art. nr.	Velikost trámu [mm]	Rozm#ry			Upevn#ní				Charakteristické hodnoty odolnosti [kN]			
		A	B	C	Nosník		Trám		LVL Flanged I-Joists		Solid Sawn Flanged I-Joists & C24 Solid Sections	
					Množství	Specifikace	Množství	Specifikace	Download	Uplift	Download	Uplift
LSSU28	38 x 241	38	181	90	10	3.75 x 75	5	3.75 x 30	5.13	2.38	7.26	2.55
LSSU210	38 x 302	38	216	90	10	3.75 x 75	7	3.75 x 30	5.13	2.38	7.26	2.38
LSSUI25	45 x 241 to 356	45	216	90	10	3.75 x 75	7	3.75 x 30	5.13	2.38	7.26	2.38
LSSUI35	58 x 241 to 356	60	216	90	10	3.75 x 75	7	3.75 x 30	5.13	2.38	9.93	2.38
LSSU275/66	63 x 300 to 450	66	275	90	18	3.75 x 75	11	3.75 x 30	-	-	10.59	5.71
LSSU275/71	70 x 300 to 450	71	275	90	18	3.75 x 75	11	3.75 x 30	9.14	2.38	10.59	5.71

Art. nr.	Velikost trámu [mm]	Rozm#ry			Upevn#ní				Charakteristické hodnoty odolnosti [kN]			
		A	B	C	Nosník		Trám		LVL Flanged I-Joists		Solid Sawn Flanged I-Joists & C24 Solid Sections	
					Množství	Specifikace	Množství	Specifikace	Download	Uplift	Download	Uplift
LSSU210-2	(2) 38 x 241	78	216	90	18	4.0 x 100	12	3.75 x 30	9.14	2.38	-	-
LSSU410	89 x 241 to 356	90	216	90	18	4.0 x 100	12	3.75 x 30	11.17	2.99	12.45	3.98
LSU3510-2	(2) 58 x 241 to 356	120	228	90	24	4.0 x 100	12	3.75 x 30	15.19	5.98	12.55	5.71
LSU26	38 x 150	38	124	75	6	3.75 x 75	5	3.75 x 30	6.81	2.55	7.26	5.71
LSSU170/50	47 x 195 to 245	50	170	90	10	3.75 x 75	11	3.75 x 30	-	-	11.35	5.71
LSSU275/50	47 x 300 to 450	50	275	90	18	3.75 x 75	11	3.75 x 30	-	-	10.59	5.71
LSSU12.06	51 x 241 to 356	52	216	90	10	3.75 x 75	7	3.75 x 30	5.13	2.38	-	5.71
LSSU170/66	63 x 195 to 245	66	170	90	10	3.75 x 75	11	3.75 x 30	-	-	11.35	5.71
LSSU170/71	70 x 195 to 300	71	170	90	10	3.75 x 75	11	3.75 x 30	9.14	2.38	11.35	-
LSSU170/75	72 x 195 to 300	75	170	90	14	3.75 x 75	12	3.75 x 30	-	-	11.35	4.78
LSSU275/75	72 x 300 to 400	75	275	90	18	3.75 x 75	12	3.75 x 30	-	-	10.59	5.71
LSSU170/96	(2) 47x195 to 300	96	170	90	14	3.75 x 75	11	3.75 x 30	-	-	11.35	5.71
LSSU275/96	(2) 47x300 to 450	96	175	90	18	3.75 x 75	11	3.75 x 30	-	-	10.59	5.71
LSSU170/100	97 x 195 to 300	100	170	90	14	3.75 x 75	11	3.75 x 30	-	-	13.11	5.71
LSSU275/100	97 x 300 to 400	100	275	90	18	3.75 x 75	11	3.75 x 30	-	-	14.29	-
LSU4.12*	(2) 51 x 241 to 356	105	228	90	24	4.0 x 100	12	3.75 x 30	11.17	5.98	-	4.55

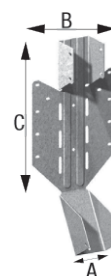
Characteristic - Skewed or Slope & Skewed

Art. nr.	Velikost trámu [mm]	Rozm#ry			Upevn#ní				Charakteristické hodnoty odolnosti [kN]			
		A	B	C	Nosník		Trám		LVL Flanged I-Joists		Solid Sawn Flanged I-Joists & C24 Solid Sections	
					Množství	Specifikace	Množství	Specifikace	Download	Uplift	Download	Uplift
LSSU28	38 x 241	38	181	90	9	3.75 x 75	5	3.75 x 30	3.45	1.47	3.24	2.38
LSSU210	38 x 302	38	216	90	9	3.75 x 75	7	3.75 x 30	3.45	1.47	3.24	2.38
LSSU125	45 x 241 to 356	45	216	90	9	3.75 x 75	7	3.75 x 30	3.45	1.47	8.10	2.38
LSSU135	58 x 241 to 356	60	216	90	9	3.75 x 75	7	3.75 x 30	3.45	1.47	8.10	3.98
LSSU275/66	63 x 300 to 450	66	275	90	15	3.75 x 75	11	3.75 x 30	-	-	10.78	5.71
LSSU275/71	70 x 300 to 450	71	275	90	15	3.75 x 75	11	3.75 x 30	6.81	2.38	6.34	5.71
LSSU210-2	(2) 38 x 241	78	216	90	14	4.0 x 100	12	3.75 x 30	6.81	2.38	-	-
LSSU410	89 x 241 to 356	90	216	90	14	4.0 x 100	12	3.75 x 30	7.20	2.99	7.12	4.78

Art. nr.	Velikost trámu [mm]	Rozm#ry			Upevn#ní				Charakteristické hodnoty odolnosti [kN]			
		A	B	C	Nosník		Trám		LVL Flanged I-Joists		Solid Sawn Flanged I-Joists & C24 Solid Sections	
					Množství	Specifikace	Množství	Specifikace	Download	Uplift	Download	Uplift
LSU3510-2	(2) 58 x 241 to 356	120	228	90	24	4.0 x 100	12	3.75 x 30	11.14	3.66	11.89	4.55
LSSU170/50	47 x 195 to 245	50	170	90	9	3.75 x 75	11	3.75 x 30	-	-	6.34	5.71
LSSU275/50	47 x 300 to 450	50	275	90	15	3.75 x 75	11	3.75 x 30	-	-	10.78	5.71
LSSUI2.06	51 x 241 to 356	52	216	90	9	3.75 x 75	7	3.75 x 30	3.45	1.47	-	-
LSSU170/66	63 x 195 to 245	66	170	90	9	3.75 x 75	11	3.75 x 30	-	-	6.34	5.71
LSSU170/71	70 x 195 to 300	71	170	90	9	3.75 x 75	11	3.75 x 30	6.81	2.38	6.34	5.71
LSSU170/75	72 x 195 to 300	75	170	90	9	3.75 x 75	11	3.75 x 30	-	-	6.34	5.71
LSSU275/75	72 x 300 to 400	75	275	90	15	3.75 x 75	11	3.75 x 30	-	-	10.78	5.71
LSSU170/96	(2) 47x195 to 300	96	170	90	9	3.75 x 75	11	3.75 x 30	-	-	6.34	5.71
LSSU275/96	(2) 47x300 to 450	96	175	90	15	3.75 x 75	11	3.75 x 30	-	-	10.78	5.71
LSSU170/100	97 x 195 to 300	100	170	90	9	3.75 x 75	11	3.75 x 30	-	-	4.69	5.71
LSSU275/100	97 x 300 to 400	100	275	90	15	3.75 x 75	11	3.75 x 30	-	-	8.16	5.71
LSU4.12*	(2) 51 x 241 to 356	105	228	90	24	4.0 x 100	12	3.75 x 30	7.20	2.99	-	-

- 1) Some of the inner face nails are not fitted on the acute angle side for skewed installations. Fill all nail holes on the obtuse angle side.
 2) LSU3510-2 and LSU4.12 are factory skewed. (Specify skew angle when ordering). Slope is field adjustable (bend once)

Abmessungen

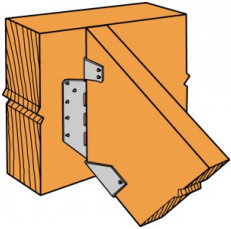


Art. nr.	Rozm#ry			Verwendung für Träger mit:		
	A	C	B	Výška [mm]	min. šířka [mm]	max. šířka [mm]
LSSUI25	45	90	216	240-400	45	-
LSSUI35	60	90	216	240-400	58	60
LSSU410	90	90	216	240-400	89	90

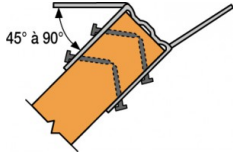
INSTALLATION

Upevnění

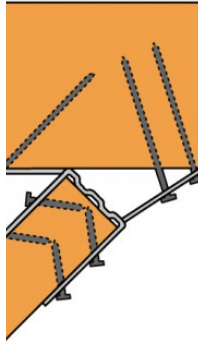
- N3.75x30 vrtací hřebíky nebo CNA4,0 x 50 hřebenové hřebíky v hlavní podpěře a N3.75 x 30 vrtací hřebíky do nosníku.



LSSU Sloped Installation



LSSU Plan View.



LSSU Plan View.