

SENSO LVL SIZE WEIGHT AND SPECIFICATION CHART

Revision M01-08 R1 | 15 August 2026 | Planning mass based on 650–780 kg/m³

Planning density 650–780 kg/m³

Standard lengths 3.6–6.0 m

Up to 12 m;

Special length confirm

Formula: $\text{kg/m} = \text{thickness (mm)} \times \text{depth (mm)} \times \text{density (kg/m}^3) \div 1,000,000$

Use the range for quotation and freight planning. Confirm actual product and pack mass before lifting or loading.

Section	Thickness mm	Depth mm	kg/m at 650	kg/m at 780	3.6 m low kg	3.6 m high kg	6.0 m low kg	6.0 m high kg	Planning note
27 × 90	27	90	1.58	1.90	5.69	6.82	9.48	11.37	Confirm grade-size-length scope
27 × 140	27	140	2.46	2.95	8.85	10.61	14.74	17.69	Confirm grade-size-length scope
27 × 200	27	200	3.51	4.21	12.64	15.16	21.06	25.27	Confirm grade-size-length scope
27 × 240	27	240	4.21	5.05	15.16	18.20	25.27	30.33	Confirm grade-size-length scope
35 × 70	35	70	1.59	1.91	5.73	6.88	9.56	11.47	Confirm grade-size-length scope
35 × 90	35	90	2.05	2.46	7.37	8.85	12.29	14.74	Confirm grade-size-length scope
35 × 140	35	140	3.19	3.82	11.47	13.76	19.11	22.93	Confirm grade-size-length scope
35 × 190	35	190	4.32	5.19	15.56	18.67	25.94	31.12	Confirm grade-size-length scope
35 × 240	35	240	5.46	6.55	19.66	23.59	32.76	39.31	Confirm grade-size-length scope
35 × 290	35	290	6.60	7.92	23.75	28.50	39.59	47.50	Confirm grade-size-length scope
35 × 300	35	300	6.83	8.19	24.57	29.48	40.95	49.14	Confirm grade-size-length scope
35 × 360	35	360	8.19	9.83	29.48	35.38	49.14	58.97	Confirm grade-size-length scope
45 × 70	45	70	2.05	2.46	7.37	8.85	12.29	14.74	Confirm grade-size-length scope
45 × 90	45	90	2.63	3.16	9.48	11.37	15.80	18.95	Confirm grade-size-length scope
45 × 140	45	140	4.10	4.91	14.74	17.69	24.57	29.48	Confirm grade-size-length scope
45 × 190	45	190	5.56	6.67	20.01	24.01	33.35	40.01	Confirm grade-size-length scope
45 × 240	45	240	7.02	8.42	25.27	30.33	42.12	50.54	Confirm grade-size-length scope
45 × 290	45	290	8.48	10.18	30.54	36.64	50.90	61.07	Confirm grade-size-length scope
45 × 300	45	300	8.78	10.53	31.59	37.91	52.65	63.18	Confirm grade-size-length scope
45 × 360	45	360	10.53	12.64	37.91	45.49	63.18	75.82	Confirm grade-size-length scope
63 × 90	63	90	3.69	4.42	13.27	15.92	22.11	26.54	Confirm grade-size-length scope
63 × 140	63	140	5.73	6.88	20.64	24.77	34.40	41.28	Confirm grade-size-length scope
63 × 240	63	240	9.83	11.79	35.38	42.46	58.97	70.76	Confirm grade-size-length scope
63 × 300	63	300	12.29	14.74	44.23	53.07	73.71	88.45	Confirm grade-size-length scope
63 × 360	63	360	14.74	17.69	53.07	63.69	88.45	106.14	Confirm grade-size-length scope
63 × 450	63	450	18.43	22.11	66.34	79.61	110.57	132.68	Confirm grade-size-length scope
65 × 240	65	240	10.14	12.17	36.50	43.80	60.84	73.01	Confirm grade-size-length scope
65 × 300	65	300	12.68	15.21	45.63	54.76	76.05	91.26	Confirm grade-size-length scope
65 × 360	65	360	15.21	18.25	54.76	65.71	91.26	109.51	Confirm grade-size-length scope
65 × 450	65	450	19.01	22.82	68.45	82.13	114.08	136.89	Confirm grade-size-length scope
75 × 240	75	240	11.70	14.04	42.12	50.54	70.20	84.24	Confirm grade-size-length scope
75 × 300	75	300	14.63	17.55	52.65	63.18	87.75	105.30	Confirm grade-size-length scope
75 × 360	75	360	17.55	21.06	63.18	75.82	105.30	126.36	Confirm grade-size-length scope
75 × 450	75	450	21.94	26.33	78.98	94.77	131.63	157.95	Confirm grade-size-length scope

SENSO LVL PACK WEIGHT CALCULATOR

Yellow cells are editable. Results are planning estimates, not certified lifting weights.

INPUT	VALUE
Thickness (mm)	45
Depth (mm)	240
Length (m)	6
Pieces	40
Planning density (kg/m ³)	715
Packaging allowance	2.0%

OUTPUT	RESULT
Section area (m ²)	0.0108
Weight per metre (kg/m)	7.72
One member (kg)	46.33
Material pack mass (kg)	1853.28
Estimated gross pack (kg)	1890.35
Estimated gross pack (t)	1.890

Worked example

A 45 × 240 mm member at 715 kg/m³ calculates to 7.72 kg/m. At 6.0 m, one member is about 46.33 kg. Forty pieces calculate to 1,853.28 kg before packaging.

Use the 650–780 kg/m³ range in the Quick Chart for early freight planning. Then replace the estimate with the actual mill pack list before container loading or lifting.

Treatment, moisture, tolerances, coatings, straps, wrap, bearers and pallets can change gross mass.

Structural size selection, lifting plans and transport restraints require separate qualified checks.

SENSO LVL SIZE WEIGHT AND SPECIFICATION CHART

Controlled item	Current planning value
Revision	M01-08 R1
Revision date	2026-08-15
Product family	SENSO Frame LVL
Low planning density (kg/m³)	650
High planning density (kg/m³)	780
Square mm per square metre	1000000
Grade range	E8 to E16; confirm exact grade and certified scope
Published thicknesses (mm)	27, 35, 45, 63, 65, 75
Published depths (mm)	70, 90, 100, 120, 140, 170, 190, 200, 240, 290, 300, 360, 400, 450
Standard lengths	3.6, 4.2, 4.8, 5.4 and 6.0 m
Special manufacture	Other lengths may be available up to 12 m
Moisture at dispatch	8% to 15%

Specification item	Current published note
Bond	A Bond to AS/NZS 2098.2
Joint group	JD3 for nails, bolts and screws
Treatment	H2S is listed for Frame LVL; confirm market and order scope
Branding	Each member is marked for product identification
Storage	Level bearers at maximum 1800 mm centres; keep dry and ventilated
Availability	Not every thickness-depth pair is held in every grade or length
Use limit	Planning weights do not select a structural beam or lifting method

Source	Purpose	URL	Checked
SENSO Frame LVL	Current product range, density, lengths and specification notes	https://www.lvl-beam.com/frame-lvl/	2026-08-15
SENSO LVL 10	Published nominal section weights and pack examples	https://www.lvl-beam.com/senso-lvl-10-lvl-studs-wall-framing/	2026-08-15
WoodSolutions LVL	Independent LVL definition and applications	https://www.woodsolutions.com.au/wood-species/wood-products/laminated-veneer-lumber-lvl	2026-08-15
Standards Australia	AS/NZS 4357.0:2022 reference	https://store.standards.org.au/product/as-nzs-4357-0-2022	2026-08-15
Calculation note	kg/m = thickness × depth × density ÷ 1,000,000	Original calculation for M01-08	R1

Publication gate

Confirm the current SENSO TDS, grade-size scope, treatment, pack count and mill availability before publishing or quoting.

Calculated mass excludes straps, wrap, labels, bearers, pallets and moisture change after dispatch.