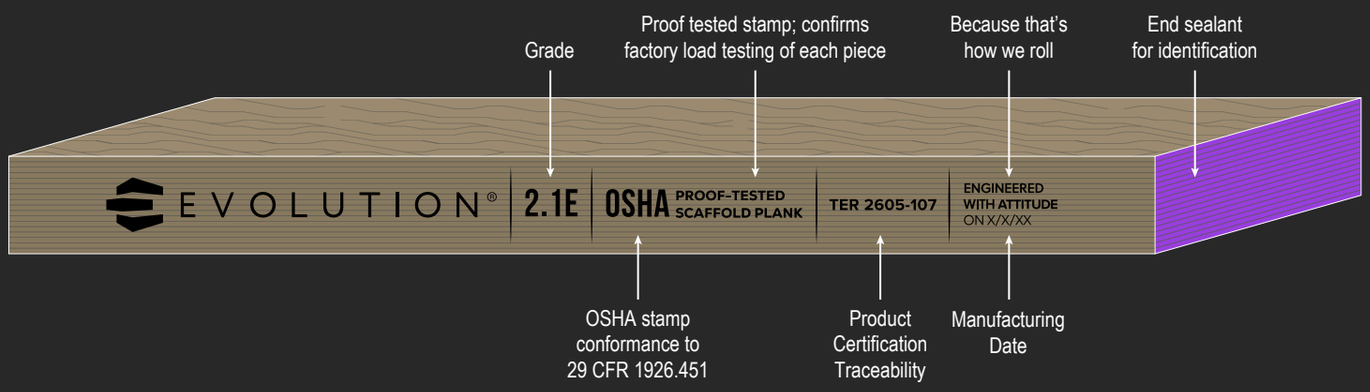
INSTALLATION GUIDE

Scaffold Plank Application

EVOLUTION®

PRODUCT IDENTIFICATION

USA LVL SCAFFOLD PLANKS



PROPERTIES AND TABLES

(USA) LVL SCAFFOLD PLANKS

ALLOWABLE SPANS

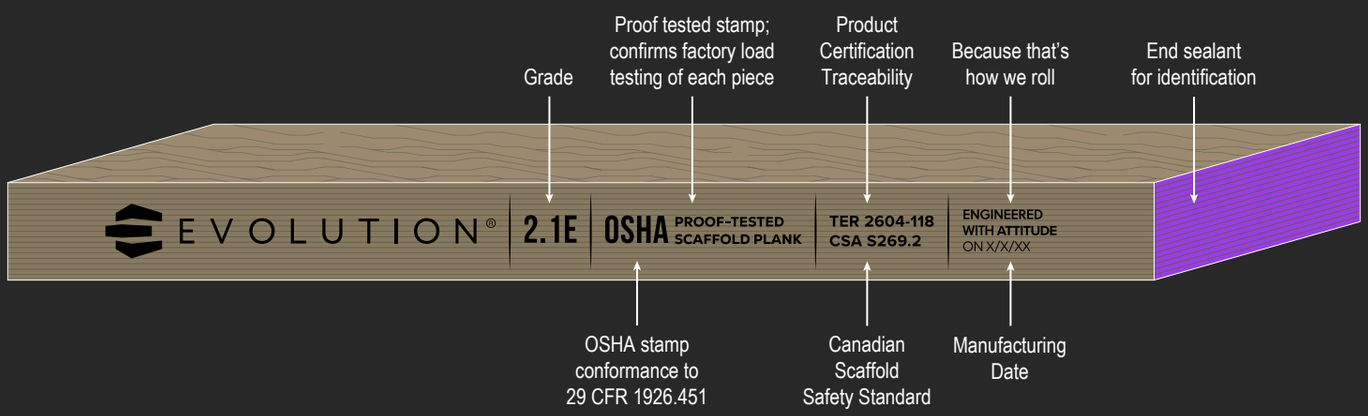
OSHA Defined Load Conditions		Max. Span (Ft)							
		2.1E				2.3E			
		1.5" x 9.25"	1.5" x 11.25"	1.75" x 9.25"	1.75" x 11.25"	1.5" x 9.25"	1.5" x 11.25"	1.75" x 9.25"	1.75" x 11.25"
Plank Weight (lb/ft)		4.0	4.8	4.6	5.6	4.0	4.8	4.6	5.6
1-Span Dry Use	50 psf	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''
	75 psf	9'-0''	9'-0''	10'-0''	10'-0''	9'-4''	9'-4''	10'-0''	10'-0''
	1-Person	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''
	2-Person	8'-2''	8'-9''	9'-10''	10'-0''	8'-5''	9'-2''	10'-0''	10'-0''
	3-Person	6'-5''	7'-3''	7'-11''	8'-10''	6'-6''	7'-6''	8'-2''	9'-2''
2-Span Dry Use	50 psf	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''
	75 psf	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''
	1-Person	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''
	2-Person	9'-4''	10'-0''	10'-0''	10'-0''	9'-9''	10'-0''	10'-0''	10'-0''
	3-Person	7'-4''	8'-4''	9'-2''	10'-0''	7'-6''	8'-7''	9'-4''	10'-0''
1-Span Wet Use	50 psf	9'-6''	9'-6''	10'-0''	10'-0''	9'-9''	9'-9''	10'-0''	10'-0''
	75 psf	8'-4''	8'-4''	9'-9''	9'-9''	8'-8''	8'-8''	10'-0''	10'-0''
	1-Person	9'-2''	9'-11''	10'-0''	10'-0''	9'-7''	10'-0''	10'-0''	10'-0''
	2-Person	7'-5''	8'-0''	9'-0''	9'-8''	7'-8''	8'-4''	9'-4''	10'-0''
	3-Person	5'-6''	6'-3''	6'-9''	7'-9''	5'-8''	6'-5''	6'-11''	7'-11''
2-Span Wet Use	50 psf	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''
	75 psf	9'-4''	9'-4''	10'-0''	10'-0''	9'-6''	9'-6''	10'-0''	10'-0''
	1-Person	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''	10'-0''
	2-Person	8'-7''	9'-3''	10'-0''	10'-0''	8'-10''	9'-7''	10'-0''	10'-0''
	3-Person	6'-4''	7'-2''	7'-9''	8'-11''	6'-6''	7'-4''	7'-11''	9'-1''

USA (OSHA) — NOTES

1. **Code Compliance:** Allowable spans determined in accordance with OSHA 1926
   Subpart L and ANSI A10.8-2011 scaffolding standards.
2. **Reference Design Values (ASD, Dry Use):**
   2.1E: Fb = 3,100 psi, Fv = 200 psi, E = 2.1 × 10^6 psi
   2.3E: Fb = 3,200 psi, Fv = 200 psi, E = 2.3 × 10^6 psi
3. **Bending Orientation:** Planks designed for flatwise bending — install with width horizontal, thickness vertical.
4. **Deflection Limit:** L/60 maximum (OSHA / ANSI standard for scaffold planks).
5. **Service Conditions:**
   Dry Use: Normal indoor/covered conditions (MC ≤ 16%)
   Wet Use: Outdoor/exposed conditions; all design values × Cm = 0.80
6. **Load Conditions:**
   Uniform load: 50 / 75 psf distributed across plank width
   1-Person: 250 lb concentrated load at midspan
   2-Person: 250 lb at 18" each side of midspan
   3-Person: 250 lb at midspan + 250 lb at 18" each side
7. **Span Configurations:**
   1-Span: Simply supported at both ends
   2-Span: Continuous over two equal spans (three supports)
8. Spans listed are for a single plank; do not stack planks to increase capacity.

PRODUCT IDENTIFICATION

CANADA LVL SCAFFOLD PLANKS



PROPERTIES AND TABLES

CANADA LVL SCAFFOLD PLANKS

ALLOWABLE SPANS

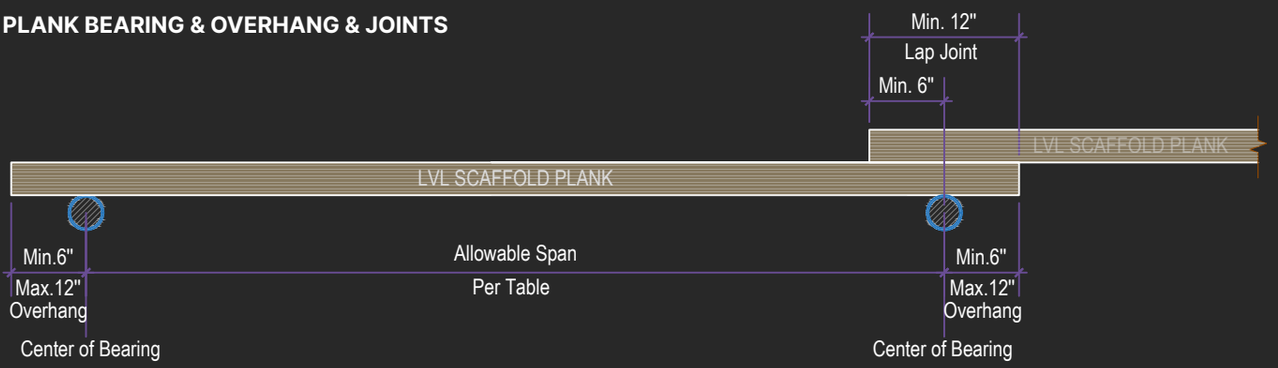
CSA S269.2 Defined Load Conditions		Max. Span (m)							
		2.1E				2.3E			
		38 x 235	38 x 286	44 x 235	44 x 286	38 x 235	38 x 286	44 x 235	44 x 286
Plank Weight (lb/ft)		4.0	4.8	4.6	5.6	4.0	4.8	4.6	5.6
1 Span Dry Use	50 psf (2.40 kN/m²)	2.83	2.83	3.05	3.05	2.92	2.92	3.05	3.05
	75 psf (3.60 kN/m²)	2.50	2.50	2.88	2.88	2.57	2.57	2.97	2.97
	500 lbs (2.22 kN)	1.95	2.15	2.42	2.65	2.04	2.24	2.53	2.77
	Worker & Tools (25 psf + 250 plf) (1.20 kN/m2 + 3.65 kN/m)	2.51	2.51	3.01	3.01	2.61	2.61	3.05	3.05
	Worker & Materials (75 psf + 265 plf) (3.60 kN/m² + 3.87 kN/m)	2.06	2.06	2.44	2.44	2.13	2.13	2.52	2.52
1 Span Wet Use	50 psf (2.40 kN/m²)	2.63	2.63	3.03	3.03	2.71	2.71	3.05	3.05
	75 psf (3.60 kN/m²)	2.32	2.32	2.68	2.68	2.39	2.39	2.76	2.76
	500 lbs (2.22 kN)	1.60	1.92	2.12	2.38	1.65	1.99	2.19	2.49
	Worker & Tools (25 psf + 250 plf) (1.20 kN/m² + 3.65 kN/m)	2.29	2.29	2.74	2.74	2.38	2.38	2.85	2.85
	Worker & Materials (75 psf + 265 plf) (3.60 kN/m² + 3.87 kN/m)	1.88	1.88	2.23	2.23	1.95	1.95	2.31	2.31

CANADA (CSA) — NOTES

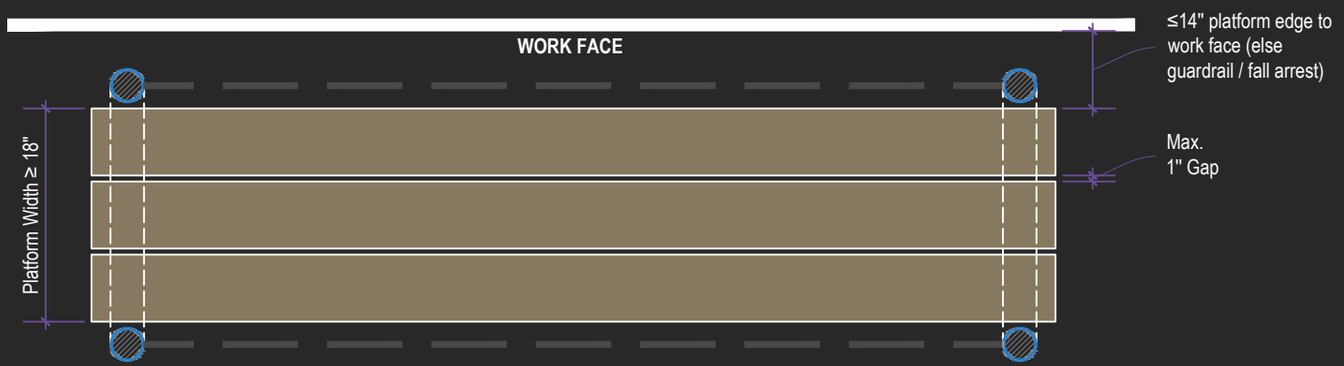
1. **Code Compliance:** Allowable spans determined in accordance with CSA S269.2 (scaffold planks) and CSA O86 (wood design, LSD method).
2. **Specified Reference Design Values (LSD, Dry Use):**
   2.1E: Fb = 39.5 MPa, Fv = 2.5 MPa, E = 14,479 MPa
   2.3E: Fb = 40.8 MPa, Fv = 2.5 MPa, E = 15,858 MPa
3. **Bending Orientation:** Planks designed for flatwise bending — install with width horizontal, thickness vertical.
4. **Deflection Limit:** L/80 maximum (CSA S269.2 standard for scaffold planks).
5. **Service Conditions:**
   Dry Use: Normal indoor/covered conditions (MC ≤ 16%)
   Wet Use: Outdoor/exposed conditions; all design values × Cm = 0.80
6. **Load Conditions:**
   Uniform load: 50 / 75 psf (2.40 / 3.60 kN/m²)
   500 lb (2.22 kN): Concentrated load at midspan
   Worker & Tools: 25 psf uniform + 250 plf line load at midspan.
   plf = pounds per linear foot of plank width. Total load = plf × plank width. Example: 9¼" wide plank → 250 × 9.25/12 = 193 lb total
   Worker & Materials: 75 psf uniform + 265 plf line load at midspan
   Example: 9¼" wide plank → 265 × 9.25/12 = 204 lb total
7. **Span Configurations:**
   1-Span: Simply supported at both ends
8. Spans listed are for a single plank; do not stack planks to increase capacity.

INSTALLATION DIAGRAMS

1 PLANK BEARING & OVERHANG & JOINTS



2 PLATFORM PLAN - GAPS, WIDTH & WORK-FACE CLEARANCE



STORAGE AND HANDLING

STORAGE

- Store planks flat (wide face horizontal) in neat bundles of similar length. Do not store on edge or lean against walls.
- Keep clear of the ground in a dry, drained, well-ventilated area. Use ground stickers so the lowest course does not contact soil or standing water.
- Support bundles with a minimum 4×4 stickers (bolsters) on the ground and between layers, lined up vertically, spaced no further than 8 ft (2.4 m) on center.
- Protect from rain and snow. If tarped, keep the tarp off the bundle and allow air to circulate underneath.
- For wetted planks, place stickers between layers to promote drying.
- Do not over-load stacked bundles beyond the capacity of the lowest planks (see load tables).
- Keep end seals intact; do not cut or damage the end-sealed faces.

HANDLING

- Do not drop, throw, or drag planks.
- Do not push bundles with forklift forks or strike with heavy equipment.
- Do not jump or bounce on planks; avoid dropping heavy objects onto the surface.
- Do not cut, notch, drill, taper, or otherwise field-modify a plank. Field modification voids the proof-load rating and evaluation report.
- Carry planks flat and supported near both ends; use two persons or mechanical handling for long lengths.

INSPECTION BEFORE EACH USE

- A competent person shall inspect planks and the platform before each shift and after any event that could affect structural integrity.
- Remove from service immediately if any of the following are present: delamination, splits, excessive checking, crushing, impact or handling damage, decay, chemical degradation or staining of unknown cause, fire or heat exposure, excessive wear, saw cuts, drilled holes or notches, or any unauthorized modification.
- Keep platform surfaces free of snow, ice, grease, mud, debris, and other slip or load-concealing materials.

