APA PRODUCT REPORT®

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Element5 Cross-Laminated Timber
Element5 Limited Partnership

PR-L339

Revised April 18, 2025

Products: Element5 Cross-Laminated Timber

Element5 Limited Partnership, 70 Dennis Road, St. Thomas, Ontario, Canada N5P 0B6
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1. Basis of the product report:
   - 2024, 2021, 2018, and 2015 International Building Code (IBC): Section 2303.1.4 Cross-laminated timber (Structural glued cross-laminated timber in 2021, 2018, and 2015 IBC)
   - 2024, 2021, 2018, and 2015 International Residential Code (IRC): Sections R502.1.6, R602.1.6, and R802.1.5 (R802.1.6 in 2021, 2018, and 2015 IRC) Cross-laminated timber
   - ANSI/APA PRG 320-2019 Standard for Performance-Rated Cross-Laminated Timber, recognized in the 2024 and 2021 IBC and IRC
   - ANSI/APA PRG 320-2017, PRG 320-2012, and PRG 320-2011 recognized in the 2018 IBC and IRC, 2015 IRC, and 2015 IBC, respectively
   - PFS TECO Reports No. 20-202, 20-211, 21-031, 21-044, 21-052, 21-053, 21-113, 21-132, 21-504, 21-609, 21-610, 21-689, and 21-690, APA Reports T2023P-06, T2023P-28, and T2024P-31, and other qualification data

2. Product description:
   Element5 cross-laminated timber (CLT) is manufactured with laminating lumber in accordance with custom layups approved by APA through product qualification and/or mathematical models using principles of engineering mechanics in accordance with ANSI/APA PRG 320. The laminating lumber shall have allowable reference design properties provided in Table 1. Element5 CLT can be used in floor, roof, and wall applications, and is manufactured with nominal widths of up to 137.8 inches, thicknesses of 3.1 to 12.4 inches, and lengths up to 52.5 feet.

3. Design properties:
   Element5 CLT shall be designed with the allowable design properties and capacities provided in Table 2. The design value adjustment factors shall be based on Table 10.3.1. of the ANSI/AWC National Design Specification for Wood Construction (NDS). The lateral resistance of Element5 CLT, when used as shear walls or diaphragms, depends on the panel-to-panel connection and anchorage designs, and shall be designed in accordance with Sections 4.5 and 4.6 of the ANSI/AWC Special Design Provisions for Wind and Seismic (SDPWS), or consulted with the CLT manufacturer and approved by the engineer of record.

4. Product installation:
   Element5 CLT shall be installed in accordance with the recommendations provided by the manufacturer (www.elementfive.co) and the engineering drawing approved by the engineer of record. Permissible details shall be in accordance with the engineering drawing.

5. Fire-rated assemblies:
   Fire-rated assemblies shall be constructed in accordance with the recommendations provided by the manufacturer (see link above). Procedures specified in Chapter 16 of the NDS shall be permitted for use in designing Element5 CLT for a fire exposure up to 2 hours.

6. Limitations:
   a) Element5 CLT shall be designed in accordance with principles of mechanics using the allowable design properties specified in this report or provided by the manufacturer.

b) Element5 CLT shall be limited to dry service conditions where the average equilibrium moisture content of solid-sawn lumber is less than 16%.
c) Design properties for Element5 CLT, when used as beams or lintels with loads applied parallel to the face-bond gluelines, are beyond the scope of this report.
d) Element5 CLT shall be manufactured in compliance with ANSI/APA PRG 320 and documented in Element5's in-plant manufacturing standard approved by APA.
e) Element5 CLT is produced at the Element5 Limited Partnership, St. Thomas, Ontario facility under a quality assurance program audited by APA.
f) This report is subject to re-examination in one year.

7. Identification:
Element5 CLT described in this report is identified by a label bearing the manufacturer's name (Element5) and/or trademark, the APA assigned plant number (1145), the product standard (ANSI/APA PRG 320), the APA logo, the CLT grade and thickness (or layup ID), the report number PR-L339, and a means of identifying the date of manufacture.

Table 1. ASD Reference Design Values[a] for Lumber Laminations Used in Element5 CLT (for Use in the U.S.)

CLT Grade	Laminations Used in Major Strength Direction									Laminations Used in Minor Strength Direction								
	Grade & Species	F_b (psi)	E (10^6 psi)	F_t (psi)	F_c (psi)	F_v (psi)	F_s (psi)	$F_{c\perp}$ (psi)	G	Grade & Species	F_b (psi)	E (10^6 psi)	F_t (psi)	F_c (psi)	F_v (psi)	F_s (psi)	$F_{c\perp}$ (psi)	G
E1M10 & E1M10.2	2100f-1.8E SPF	2,100	1.8	1,575	1,875	160	50	525	0.46	No. 1/No. 2 SPF	875	1.4	450	1,150	135	45	425	0.42
E1M12 & E1M12.2	1650f-1.5E SPF	1,650	1.5	1,020	1,700	135	45	425	0.42	No. 1/No. 2 SPF	875	1.4	450	1,150	135	45	425	0.42
E1M14 & E1M14.1	2100f-1.8E SPF	2,100	1.8	1,575	1,875	160	50	525	0.46	No. 3 SPF	500	1.2	250	650	135	45	425	0.42
E1M15-U[b]	2100f-1.8E SPF[c]	2,100	1.8	1,575	1,875	160	50	525	0.46	No. 1/No. 2 SPF	875	1.4	450	1,150	135	45	425	0.42
	No. 1/No. 2 SPF	875	1.4	450	1,150	135	45	425	0.42									
E2M6	1650f-1.5E DF[d]	1,650	1.5	1,020	1,700	180	60	625	0.50	No. 1/No. 2 SPF	875	1.4	450	1,150	135	45	425	0.42
	No. 1/No. 2 SPF	875	1.4	450	1,150	135	45	425	0.42									
V1M6(N)	No. 1/No. 2 DF (N)[e]	850	1.6	500	1,400	180	60	625	0.49	No. 1/No. 2 SPF	875	1.4	450	1,150	135	45	425	0.42
	No. 1/No. 2 SPF	875	1.4	450	1,150	135	45	425	0.42									
V1M7(N)-U[b]	No. 1/No. 2 DF (N)[f]	850	1.6	500	1,400	180	60	625	0.49	No. 1/No. 2 SPF	875	1.4	450	1,150	135	45	425	0.42
	No. 1/No. 2 SPF	875	1.4	450	1,150	135	45	425	0.42									
V1M9(N)	SS DF (N)[g]	1,350	1.9	825	1,900	180	60	625	0.49	No. 1/No. 2 SPF	875	1.4	450	1,150	135	45	425	0.42
	No. 1/No. 2 SPF	875	1.4	450	1,150	135	45	425	0.42									
V2 & V2.8	No. 1/No. 2 SPF	875	1.4	450	1,150	135	45	425	0.42	No. 3 SPF	500	1.2	250	650	135	45	425	0.42
V2M7 & V2M7.2	No. 1/No. 2 SPF	875	1.4	450	1,150	135	45	425	0.42	No. 1/No. 2 SPF	875	1.4	450	1,150	135	45	425	0.42

For SI: 1 psi = 0.006895 MPa

[a] Tabulated values are allowable design values and not permitted to be increased for the lumber size adjustment factor in accordance with the NDS. The design values shall be used in conjunction with the section properties provided by the CLT manufacturer based on the actual layup used in manufacturing the CLT panel (see Table 2).

[b] Unbalanced CLT layups.

[c] The 2100f-1.8E SPF MSR lumber lamination is used in the outermost layer on the bottom side only of the unbalanced CLT. Other laminations used in the major strength direction are made of No. 1/No. 2 SPF.

[d] The 1650f-1.5E DF MSR lumber lamination is used in the outermost layer on both the top and bottom sides of the CLT. Other laminations used in the major strength direction are made of No. 1/No. 2 SPF.

[e] The No. 1/No. 2 DF (N) lumber lamination is used in the outermost layer on both the top and bottom sides of the CLT. Other laminations used in the major strength direction are made of No. 1/No. 2 SPF.

[f] The No. 1/No. 2 DF (N) lumber lamination is used in the outermost layer on the bottom side only of the unbalanced CLT. Other laminations used in the major strength direction are made of No. 1/No. 2 SPF.

[g] The Select Structural DF (N) lumber lamination is used in the outermost layer on both the top and bottom sides of the CLT. Other laminations used in the major strength direction are made of No. 1/No. 2 SPF.

Table 2. ASD Reference Design Values[a, b] for Element5 **Balanced** CLT (for Use in the U.S.)

CLT Grade[c]	Layup ID	Thick-ness, t_p (in.)	Lamination Thickness (in.) in CLT Layup									Major Strength Direction				Minor Strength Direction			
			=	⊥	=	⊥	=	⊥	=	⊥	=	$(F_bS)_{eff,f,0}$ (lbf-ft/ft)	$(EI)_{eff,f,0}$ (10^6 lbf-in.^{2}/ft)	$(GA)_{eff,f,0}$ (10^6 lbf/ft)	$V_{s,0}$ (lbf/ft)	$(F_bS)_{eff,f,90}$ (lbf-ft/ft)	$(EI)_{eff,f,90}$ (10^6 lbf-in.^{2}/ft)	$(GA)_{eff,f,90}$ (10^6 lbf/ft)	$V_{s,90}$ (lbf/ft)
E1M10	3-ply	4.14	1.38	1.38	1.38							4,875	122	0.54	1,490	275	3.6	0.66	550
	5-ply	6.90	1.38	1.38	1.38	1.38	1.38					11,225	466	1.1	2,480	2,390	95	1.3	1,650
	5-ply XL	6.90	1.38 x 2	1.38	1.38 x 2							13,950	580	1.1	2,480	275	3.6	0.78	550
	7-ply	9.66	1.38	1.38	1.38	1.38	1.38	1.38	1.38			19,800	1,154	1.6	3,475	5,525	364	2.0	2,750
	7-ply XL	9.66	1.38 x 2	1.38	1.38	1.38	1.38 x 2					25,525	1,486	1.6	3,475	2,390	95	1.4	1,650
	8-ply XL	11.04	1.38 x 2	1.38	1.38 x 2	1.38	1.38 x 2					32,150	2,141	2.2	3,950	3,875	205	1.6	2,200
	9-ply	12.42	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	30,700	2,299	2.1	4,450	9,775	903	2.6	3,850
	9-ply XL	12.42	1.38 x 2	1.38	1.38	1.38	1.38	1.38 x 2				39,525	2,960	2.1	4,450	5,525	364	2.1	2,750
E1M10.2	3-ply	3.42	1.38	0.67	1.38							3,450	72	0.56	1,230	65	0.42	0.39	270
	5-ply	5.47	1.38	0.67	1.38	0.67	1.38					7,975	264	1.1	1,970	945	25	0.77	1,090
	7-ply	7.52	1.38	0.67	1.38	0.67	1.38	0.67	1.38			14,175	644	1.7	2,700	2,150	98	1.2	1,910
	7-ply XL	8.22	1.38 x 2	0.67	1.38	0.67	1.38 x 2					19,475	969	1.9	2,950	945	25	0.94	1,090
	9-ply	9.56	1.38	0.67	1.38	0.67	1.38	0.67	1.38	0.67	1.38	22,050	1,276	2.3	3,450	3,775	247	1.5	2,725
	9-ply XL	10.27	1.38 x 2	0.67	1.38	0.67	1.38	0.67	1.38 x 2			29,425	1,827	2.4	3,700	2,150	98	1.3	1,910
E1M12	3-ply	4.14	1.38	1.38	1.38							3,825	102	0.53	1,490	275	3.6	0.56	495
	5-ply	6.90	1.38	1.38	1.38	1.38	1.38					8,825	389	1.1	2,480	2,390	95	1.1	1,490
	5-ply XL	6.90	1.38 x 2	1.38	1.38 x 2							10,975	484	1.1	2,480	275	3.6	0.66	495
	7-ply	9.66	1.38	1.38	1.38	1.38	1.38	1.38	1.38			15,600	963	1.6	3,475	5,500	364	1.7	2,480
	7-ply XL	9.66	1.38 x 2	1.38	1.38	1.38	1.38 x 2					20,075	1,239	1.6	3,475	2,390	95	1.2	1,490
	9-ply	12.42	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	24,200	1,921	2.1	4,450	9,750	901	2.2	3,475
	9-ply XL	12.42	1.38 x 2	1.38	1.38	1.38	1.38	1.38	1.38 x 2			31,075	2,469	2.1	4,450	5,500	364	1.8	2,480
E1M12.2	3-ply	3.42	1.38	0.67	1.38							2,725	60	0.55	1,230	65	0.42	0.33	240
	5-ply	5.47	1.38	0.67	1.38	0.67	1.38					6,275	220	1.1	1,970	945	25	0.65	980
	7-ply	7.52	1.38	0.67	1.38	0.67	1.38	0.67	1.38			11,150	537	1.6	2,700	2,140	98	0.98	1,720
	9-ply	9.56	1.38	0.67	1.38	0.67	1.38	0.67	1.38	0.67	1.38	17,350	1,064	2.2	3,450	3,750	245	1.3	2,450
E1M14	3-ply	4.14	1.38	1.38	1.38							4,875	122	0.46	1,490	160	3.1	0.65	550
	5-ply	6.90	1.38	1.38	1.38	1.38	1.38					11,200	466	0.93	2,480	1,370	81	1.3	1,650
	7-ply	9.66	1.38	1.38	1.38	1.38	1.38	1.38	1.38			19,775	1,152	1.4	3,475	3,150	313	1.9	2,750
	9-ply	12.42	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	30,650	2,295	1.9	4,450	5,600	777	2.6	3,850

Table 2. ASD Reference Design Values[a, b] for Element5 **Balanced** CLT (for Use in the U.S.) (Continued)

CLT Grade[c]	Layup ID	Thick-ness, t_p (in.)	Lamination Thickness (in.) in CLT Layup									Major Strength Direction				Minor Strength Direction			
			=	⊥	=	⊥	=	⊥	=	⊥	=	$(F_bS)_{eff,f,0}$ (lbf-ft/ft)	$(EI)_{eff,f,0}$ (10^6 lbf-in.^{2}/ft)	$(GA)_{eff,f,0}$ (10^6 lbf/ft)	$V_{s,0}$ (lbf/ft)	$(F_bS)_{eff,f,90}$ (lbf-ft/ft)	$(EI)_{eff,f,90}$ (10^6 lbf-in.^{2}/ft)	$(GA)_{eff,f,90}$ (10^6 lbf/ft)	$V_{s,90}$ (lbf/ft)
E1M14.1	3-ply	3.42	1.38	0.67	1.38							3,450	72	0.49	1,230	40	0.36	0.38	270
	5-ply	5.47	1.38	0.67	1.38	0.67	1.38					7,975	264	0.99	1,970	540	21	0.77	1,090
	7-ply	7.52	1.38	0.67	1.38	0.67	1.38	0.67	1.38			14,150	644	1.5	2,700	1,230	85	1.1	1,910
	9-ply	9.56	1.38	0.67	1.38	0.67	1.38	0.67	1.38	0.67	1.38	22,025	1,275	2.0	3,450	2,170	213	1.5	2,725
E2M6	5-ply	6.90	1.38	1.38	1.38	1.38	1.38					8,825	389	1.1	2,480	2,390	95	1.1	1,490
V1M6(N)	5-ply	6.90	1.38	1.38	1.38	1.38	1.38					4,525	414	1.1	2,480	2,390	95	1.1	1,490
V1M9(N)	5-ply	6.90	1.38	1.38	1.38	1.38	1.38					7,175	491	1.1	2,480	2,390	95	1.2	1,490
V2	3-ply	4 1/8	1 3/8	1 3/8	1 3/8							2,030	95	0.46	1,490	160	3.1	0.52	495
	5-ply	6 7/8	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8					4,675	363	0.91	2,480	1,370	81	1.0	1,490
	5-ply XL	6.90	1.38 x 2	1.38	1.38 x 2							5,825	451	0.95	2,480	160	3.1	0.61	495
	7-ply	9 5/8	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8			8,275	898	1.4	3,475	3,150	312	1.6	2,480
	7-ply XL	9.66	1.38 x 2	1.38	1.38	1.38	1.38 x 2					10,650	1,156	1.4	3,475	1,370	81	1.1	1,490
	9-ply	12 3/8	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8	12,800	1,791	1.8	4,450	5,575	773	2.1	3,475
	9-ply XL	12 3/8	1 3/8 x 2	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8 x 2			16,475	2,303	1.8	4,450	3,150	312	1.6	2,480
V2.8	3-ply	3.42	1.38	0.67	1.38							1,440	56	0.48	1,230	40	0.36	0.30	240
	5-ply	5.47	1.38	0.67	1.38	0.67	1.38					3,325	205	0.95	1,970	540	21	0.61	980
	7-ply	7.52	1.38	0.67	1.38	0.67	1.38	0.67	1.38			5,900	501	1.4	2,700	1,220	84	0.91	1,720
	9-ply	9.56	1.38	0.67	1.38	0.67	1.38	0.67	1.38	0.67	1.38	9,200	993	1.9	3,450	2,150	211	1.2	2,450
V2M7	3-ply	4.14	1.38	1.38	1.38							2,030	95	0.52	1,490	275	3.6	0.52	495
	5-ply	6.90	1.38	1.38	1.38	1.38	1.38					4,675	363	1.1	2,480	2,390	95	1.1	1,490
	5-ply XL	6.90	1.38 x 2	1.38	1.38 x 2							5,825	451	1.1	2,480	275	3.6	0.62	495
	7-ply	9.66	1.38	1.38	1.38	1.38	1.38	1.38	1.38			8,275	900	1.6	3,475	5,500	363	1.6	2,480
	7-ply XL	9.66	1.38 x 2	1.38	1.38	1.38	1.38 x 2					10,650	1,157	1.6	3,475	2,390	95	1.1	1,490
	9-ply	12.42	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	12,850	1,795	2.1	4,450	9,750	900	2.1	3,475
	9-ply XL	12.42	1.38 x 2	1.38	1.38	1.38	1.38	1.38	1.38 x 2			16,500	2,305	2.1	4,450	5,500	363	1.6	2,480
V2M7.2	3-ply	3.42	1.38	0.67	1.38							1,440	56	0.54	1,230	65	0.42	0.31	240
	5-ply	5.47	1.38	0.67	1.38	0.67	1.38					3,325	205	1.1	1,970	945	25	0.61	980
	7-ply	7.52	1.38	0.67	1.38	0.67	1.38	0.67	1.38			5,900	502	1.6	2,700	2,140	98	0.92	1,720
	7-ply XL	8.22	1.38 x 2	0.67	1.38	0.67	1.38 x 2					8,125	754	1.8	2,950	945	25	0.74	980
	9-ply	9.56	1.38	0.67	1.38	0.67	1.38	0.67	1.38	0.67	1.38	9,200	994	2.2	3,450	3,750	245	1.2	2,450
	9-ply XL	10.27	1.38 x 2	0.67	1.38	0.67	1.38	0.67	1.38 x 2			12,275	1,422	2.3	3,700	2,140	98	1.0	1,720

For SI: 1 in. = 25.4 mm; 1 ft = 304.8 mm; 1 lbf = 4.448 N

(a) Tabulated values are allowable design values and not permitted to be increased for the lumber size adjustment factor in accordance with the NDS.

(b) Deflection under a specified uniformly distributed load, w, acting perpendicular to the face of a single-span CLT panel shall be permitted to be calculated as a sum of the deflections due to moment and shear effects using the effective bending stiffness, $(EI)_{eff}$, and the effective in-plane (planar) shear rigidity, $(GA)_{eff}$, as follows:

$$\delta = \frac{22.5wL^4}{(EI)_{eff}} + \frac{9wL^2}{5(GA)_{eff}} \quad [1]$$

where: δ = estimated deflection, inches; w = uniform load, lbf/ft^2;
L = span, feet; $(EI)_{eff}$ = tabulated effective bending stiffness, 10^6 lbf-in.^{2}/ft; and
$(GA)_{eff}$ = tabulated effective in-plane (planar) shear rigidity, 10^6 lbf/ft.

For a concentrated load, P, located in the middle of a single span CLT panel acting perpendicular to the panel, the deflection shall be permitted to be calculated as follows:

$$\delta = \frac{36PL^3}{(EI)_{eff}} + \frac{18PL}{5(GA)_{eff}} \quad [2]$$

where: δ = estimated deflection, inches; P = concentrated load, lbf/ft of width;
L = span, feet; $(EI)_{eff}$ = tabulated effective bending stiffness, 10^6 lbf-in.^{2}/ft; and
$(GA)_{eff}$ = tabulated effective in-plane (planar) shear rigidity, 10^6 lbf/ft.

(c) The CLT grade and layups are developed based on ANSI/APA PRG 320, as permitted by the standard.

Table 3. ASD Reference Design Values[a, b] for Element5 **Unbalanced** CLT (for Use in the U.S.)

CLT Grade[c]	Layup ID	Thick-ness, t_p (in.)	Lamination Thickness (in.) in CLT Layup									Major Strength Direction					Minor Strength Direction			
			=	⊥	=	⊥	=	⊥	=	⊥	=	$(F_bS)^+_{eff,f,0}$[d]	$(F_bS)^-_{eff,f,0}$[e]	$(EI)_{eff,f,0}$ (10^6 lbf-in.^{2}/ft)	$(GA)_{eff,f,0}$ (10^6 lbf/ft)	$V_{s,0}$ (lbf/ft)	$(F_bS)_{eff,f,90}$ (lbf-ft/ft)	$(EI)_{eff,f,90}$ (10^6 lbf-in.^{2}/ft)	$(GA)_{eff,f,90}$ (10^6 lbf/ft)	$V_{s,90}$ (lbf/ft)
												(lbf-ft/ft)								
E1M15-U	3-ply	4.14	1.38	1.38	1.38							4,650	2,120	107	0.53	1,490	275	3.6	0.58	495
	5-ply	6.90	1.38	1.38	1.38	1.38	1.38					10,575	4,950	410	1.1	2,480	2,390	95	1.1	1,490
	7-ply	9.66	1.38	1.38	1.38	1.38	1.38	1.38	1.38			18,300	8,775	1,006	1.6	3,475	5,500	363	1.6	2,480
	9-ply	12.42	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	27,825	13,575	1,985	2.1	4,450	9,750	900	2.2	3,475
V1M7(N)-U	5-ply	6.90	1.38	1.38	1.38	1.38	1.38					4,400	4,825	388	1.1	2,480	2,390	95	1.1	1,490

For SI: 1 in. = 25.4 mm; 1 ft = 304.8 mm; 1 lbf = 4.448 N

[a] Tabulated values are allowable design values and not permitted to be increased for the lumber size adjustment factor in accordance with the NDS.

[b] Deflection under a specified uniformly distributed load, w, acting perpendicular to the face of a single-span CLT panel shall be permitted to be calculated as a sum of the deflections due to moment and shear effects using the effective bending stiffness, $(EI)_{eff}$, and the effective in-plane (planar) shear rigidity, $(GA)_{eff}$, as shown in Equations 1 and 2 to Table 2.

[c] The CLT grade and layups are developed based on ANSI/APA PRG 320, as permitted by the standard. The unbalanced CLT layups are intended primarily for simple-span applications. The compression side must be stamped with the word "TOP" and shall be installed on the compression (top) side of the simple-span bending member.

[d] The tabulated moment capacity denoted with "+" is the positive bending moment capacity where the outermost layer on the bottom side is stressed in tension.

[e] The tabulated moment capacity denoted with "-" is the negative bending moment capacity where the outermost layer on the bottom side is stressed in compression.

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