CLF Option 1 Amendment 2 Revision 2: Replace Table S103.2.1 Covered Product Values

This amendment is based on feedback received via email by Meghan Lewis on behalf of the Carbon Leadership Forum. It updates the Covered Products Table with data from CLF 2025 baselines (from previously submitted 2023 baselines) and interpolated values highlighted in yellow.

a) *Updated or newly interpolated values are shown highlighted.*
b) *Some products were added to the Table: cold-formed steel framing, open-web steel joist and joist girders, variation in wood framing products, 6 subtypes of insulation, and flat glass.*

[Revision 2] At the 7/21 work session, Roger Herringa and others discussed adding Cross Laminated Timber to the Covered Products Table. Meghan Lewis responded with the GWP value from their 2025 baselines which is incorporated below highlighted in blue:

Amendment:

Delete the previous **TABLE S103.2.1** and replace it with the below:

TABLE S103.2~~3~~.1
COVERED PRODUCT GWP VALUES[a]

COVERED PRODUCT		GLOBAL WARMING POTENTIAL	UNIT OF MEASUREMENT
Ready mix concrete products	Up to 2,500 psi	235	kg CO2e/m3
	3,000 psi	261	kg CO2e/m3
	3,500 psi	289	kg CO2e/m3
	4,000 psi	316	kg CO2e/m3
	4,500 psi	351	kg CO2e/m3
	5,000 psi	386	kg CO2e/m3
	5,500 psi	397	kg CO2e/m3
	6,000	408	kg CO2e/m3
	8,000 psi and greater	487	kg CO2e/m3

	Lightweight, up to 3,000 psi	518	kg CO2e/m3
	Lightweight 3,500 psi	547	kg CO2e/m3
	Lightweight, 4,000 psi	575	kg CO2e/m3
	Lightweight 4,500 psi	604	kg CO2e/m3
	Lightweight, 5,000 psi and greater	632	kg CO2e/m3
Concrete masonry unit products1	Normal-weight, f'm ≤ 2000 psi	208	kg CO2e/m3
	Normal-weight, f'm = 2500 psi	232	kg CO2e/m3
	Normal-weight, f'm ≥ 3000 psi	241	kg CO2e/m3
	Medium-weight, containing manufactured lightweight aggregate, f'm ≤ 2000 psi	360	kg CO2e/m3
	Medium-weight, containing natural aggregate and industrial byproducts, f'm ≤ 2500 psi	244	kg CO2e/m3

	Lightweight, containing manufactured lightweight aggregate, f'm ≤ 2500 psi	395	kg CO2e/m3
	Lightweight, containing natural aggregate and industrial byproducts, f'm ≤ 2000 psi	286	kg CO2e/m3
Reinforcing steel products	Rebar – unfabricated	753	kg CO2e/metric ton
	Rebar – fabricated	854	kg CO2e/metric ton
Structural steel products	Hot-rolled sections – unfabricated	901	kg CO2e/metric ton
	Hot-rolled sections – fabricated	1,080	kg CO2e/metric ton
	Hollow structural sections – unfabricated	1710	kg CO2e/metric ton
	Hollow structural sections – fabricated	1990	kg CO2e/metric ton
	Decking	2,330	kg CO2e/metric ton
	Plate – unfabricated	1,480	kg CO2e/metric ton
	Plate – fabricated	1,730	kg CO2e/metric ton
Cold-Formed Steel Framing Products	Hot-dipped galvanized cold-formed steel members	2440	kg CO2e/metric ton

Open Web Steel Joist and Joist Girders	Open web steel joists and joist girders	1430	kg CO2e/metric ton
Structural wood	Laminated veneer lumber	361	kg CO2e/m3
products	Laminated strand lumber	275	kg CO2e/m3
	Glue laminated timber	137	kg CO2e/m3
	Wood framing – US Southern	90.39	kg CO2e/m3
	Wood framing – US Pacific Coast	73.81	kg CO2e/m3
	Wood framing – US Inland Northwest	71.35	kg CO2e/m3
	Softwood plywood	219	kg CO2e/m3
	Oriented Strand Board (OSB)	243	kg CO2e/m3
	Cross laminated timber	134	kg CO2e/m3
Insulation products1	Expanded polystyrene (EPS) - Type IExpanded polystyrene (EPS)	2.53	kg CO2e/ m2 @ RSI-11 m2 @ RSI-1
	Polyiso - wall	3.5	kg CO2e/ m2 @ RSI-11 m2 @ RSI-1
	Polyiso – roof – GRF facer	2.11	kg CO2e/ m2 @ RSI-11 m2 @ RSI-1
	Polyiso – roof – CFG facer	2.95	kg CO2e/ m2 @ RSI-11 m2 @ RSI-1

	Extruded polystyrene (XPS) ≤ 25 psiExtruded polystyrene (XPS)	8.9	kg CO2e/ m2 @ RSI-11 m2 @ RSI-1
	Extruded polystyrene (XPS) 40 psi	10.9	kg CO2e/ m2 @ RSI-1
	Extruded polystyrene (XPS) 60 psi	14.1	kg CO2e/ m2 @ RSI-1
	Extruded polystyrene (XPS) 100 psi	20.1	kg CO2e/ m2 @ RSI-1
	Fiberglass board	5.02	kg CO2e/ m2 @ RSI-1
	Heavy density mineral wool board	6.82	1 m2 @ RSI-1
	Mineral wool blanket (Lightdensity mineral wool board)	2.68	kg CO2e/ m2 @ RSI-11 m2 @ RSI-1
	Fiberglass blanket (Fiberglass batt) — unfaced	1.01	kg CO2e/ m2 @ RSI-1
	Fiberglass blanket (Fiberglass batt) — faced	1.06	kg CO2e/ m2 @ RSI-1
	Closed-cell spray polyurethane foam – medium density	2.63	1 m2 @ RSI-11 m2 @ RSI-1
	Closed-cell spray polyurethane foam - roofing	3.87	1 m2 @ RSI-11 m2 @ RSI-1
	Open-cell spray polyurethane foam	1.17	1 m2 @ RSI-11 m2 @ RSI-1
	Loose-fill cellulose	0.487	1 m2 @ RSI-11 m2 @ RSI-1

	Loose-fill fiberglass	0.988	1 m2 @ RSI-11 m2 @ RSI-1
	Loose-fill mineral wool	1.89	1 m2 @ RSI-1
Flat Glass	Flat glass (clear, tinted, and low-iron products)	1430	1 metric ton