

Embodied Carbon Order of Magnitude (ECOM) Embodied Carbon Estimator Notes

ECOM Material Name			
Material	Structural Component	Comments	Reference
Concrete	2,500 PSI	Using 20% FA value (sim. to benchmark)	NRMCA Environmental Product Declaration
	3,000 PSI	Using 20% FA value (sim. to benchmark)	
	4,000 PSI	Using 20% FA value (sim. to benchmark)	
	5,000 PSI	Using 20% FA value (sim. to benchmark)	
	6,000 PSI	Using 20% FA value (sim. to benchmark)	
	8,000 PSI	Using 20% FA value (sim. to benchmark)	
	3,000 PSI LW	Using 20% FA value	
	4,000 PSI LW	Using 20% FA value	
	5,000 PSI LW	Using 20% FA value	
Steel Reinforcement	Rebar		CRSI Environmental Product Declaration
	Welded Wire Reinforcement	Rebar used as proxy	
	Post-Tensioning	Rebar used as proxy	
Masonry	Normal Weight Masonry Block	Average of east and west regions (Canada)	CCMPA Environmental Product Declaration
	Lightweight Masonry Block	Average of east and west regions (Canada)	
	Masonry Grout	3000 psi 0% FA/slag used as proxy	NRMCA Environmental Product Declaration
	Mortar	3000 psi 0% FA/slag used as proxy	
Steel	Fabricated Hot-Rolled Structural Sections		AISC Environmental Product Declaration
	Fabricated Structural Plate		AISC Environmental Product Declaration
	Fabricated Hollow Structural Sections (HSS)		AISC Environmental Product Declaration
	Open Web Steel Joists		SJI Environmental Product Declaration
	Steel Deck		SDI Environmental Product Declaration
	Cold Formed Metal Framing		SFIA Environmental Product Declaration
Timber	Softwood Lumber		AWC Environmental Product Declaration
	Softwood Plywood		AWC Environmental Product Declaration
	Glued Laminated Timber (Glulam)		AWC Environmental Product Declaration
	Cross Laminated Timber (CLT)	Glulam used as proxy	
	Laminated Veneer Lumber (LVL)		AWC Environmental Product Declaration
	Wood I-Joists	EPD value represents a density of 4.34 kg/m	AWC Environmental Product Declaration