## 1.6.7 Embodied Energy of Floor Structures in the U.S.

Floor Structure with Interior Ceiling Finish of Gypsum Board, Latex Paint	Embodied Energy	CO2 Equivalent
Glulam joist and plank decking	(MMBtu/SF) (1) 0.04	Emissions (lbs/SF) 3.06
Precast Hollowcore	0.04	13.43
Wood I-joist	0.03	2.03
Open-web Steel Joist	0.02	7.94
Open-web Steel Joist with concrete topping	0.07	12.30
Precast Double-T	0.04	11.38
Precast Double-T with concrete topping	0.04	16.45
Steel Joist	0.06	8.82
Steel Joist Steel Joist with plywood decking	0.06	9.28
Suspended Concrete Slab	0.06	29.19
Suspended Concrete Stab Wood Joist	0.12	29.19 1.65
Wood Joist Wood Joist with plywood decking	0.02	2.38
Wood Chord and Steel Web truss	0.05	5.91
Wood Truss	0.03	2.71
Floor Structure without Interior Ceiling Finish	0.05	4.00
Glulam joist and plank decking	0.05	4.32
Precast Hollowcore	0.06	14.68
Nood I-joist	0.04	3.26
Open-web Steel Joist	0.07	9.19
Open-web Steel Joist with concrete topping	0.09	13.54
Precast Double-T	0.05	12.61
Precast Double-T with concrete topping	0.07	17.70
Steel Joist	0.07	10.08
Steel Joist with plywood decking	0.08	10.54
Suspended Concrete Slab	0.13	30.42
Nood Joist	0.04	2.91
Vood Joist with plywood decking	0.05	3.64
Vood Chord and Steel Web truss	0.06	7.17
Wood Truss	0.04	3.95

Source(s): Athena Institute. Athena EcoCalculator for Assemblies v.3.5.2. 2010. Available at www.athenasmi.org/tools/ecoCalculator/index.html