Buildings Energy Data Book: 1.6 Embodied Energy of Building Assemblies

	Embodied Energy	CO2 Equivalent
	<u>(MMBtu/SF) (1)</u>	Emissions (Ibs/SF)
recast Hollow-Core Concrete		
PDM Membrane	0.17	21.23
VC Membrane	0.26	30.89
lodified Bitumen Membrane	0.26	31.94
-Ply Built-Up Roofing System	0.44	51.68
teel Roofing System	0.11	20.24
recast Double-T		
PDM Membrane	0.15	17.42
VC Membrane	0.24	27.05
lodified Bitumen Membrane	0.25	28.13
-Ply Built-Up Roofing System	0.43	47.86
teel Roofing System	0.10	16.42
uspended Concrete Slab		
PDM Membrane	0.24	37.32
VC Membrane	0.33	46.96
lodified Bitumen Membrane	0.33	48.04
-Ply Built-Up Roofing System	0.51	67.75
teel Roofing System	0.18	36.33
pen-Web Steel Joist, Steel Decking (2)		
PDM Membrane	0.17	15.28
VC Membrane	0.26	24.93
lodified Bitumen Membrane	0.26	26.01
-Ply Built-Up Roofing System	0.45	45.72
teel Roofing System	0.12	14.29
continuous insulation, polyethylene meml	prane, and latex paint. All assemblies	stimations for the U.S. All roof assemblies include R-20 are insulated to IECC 2009 minimums for zones 3 and 6. 1 construction, and disposal of each material. 2) Includes