

**3.9.12 Energy Benchmarks for Newly Constructed Secondary Schools, by Selected City and End-Use  
(thousand Btu per square foot)**

	<u>IECC Climate Zone</u>	<u>Heating</u>	<u>Cooling</u>	<u>Water Heating</u>	<u>Ventilation</u>
Miami	1A	0.7	54.0	1.1	5.5
Houston	2A	8.1	41.0	1.4	5.2
Phoenix	2B	5.8	44.4	1.3	5.6
Atlanta	3A	15.3	25.3	1.7	4.9
Los Angeles	3B	4.1	15.9	1.6	4.7
Las Vegas	3B	8.6	28.2	1.5	5.2
San Francisco	3C	13.9	9.6	1.8	4.7
Baltimore	4A	27.5	20.9	1.9	4.9
Albuquerque	4B	17.9	13.8	1.9	5.1
Seattle	4C	25.8	5.9	2.0	4.5
Chicago	5A	36.7	15.9	2.1	4.9
Boulder	5B	26.3	9.5	2.1	4.9
Minneapolis	6A	50.4	13.4	2.3	5.0
Helena	6B	40.4	6.0	2.3	5.0
Duluth	7	61.0	6.1	2.5	5.3
Fairbanks	8	96.7	2.2	2.8	5.5

Note(s): Commercial building energy benchmarks are based off of the current stock of commercial buildings and reflect 2004 ASHRAE 90.1 Climate Zones. They are designed to provide a consistent baseline to compare building performance in energy-use simulations. The benchmark building had 210,810 square feet and 2 floors. Benchmark interior lighting energy = 15.20 thousand Btu/SF. Interior equipment energy consumption = 11.83 thousand Btu/SF.

Source(s): DOE/EERE/BT, Commercial Building Benchmark Models, Version 1.3\_5.0, Nov. 2010, accessed January 2012 at [http://www1.eere.energy.gov/buildings/commercial\\_initiative/new\\_construction.html](http://www1.eere.energy.gov/buildings/commercial_initiative/new_construction.html).