

ThermaRay Thermal Mass Floor Heating System (Commercial Case Study)



Specifications

- Location - Elk River, MN 55330
- Construction - Slab on Grade, 2 x 6 Walls with 12' Ceilings.
- R-Values - Walls = R19, Ceiling = R38
- Square Footage - 7,600 Sq.Ft. (76 x 100)
- Year Built - 2003
- Power Supplier - Connexus Energy
- Electric Program - Off-Peak Storage
- Electric Rate - \$.0467 per kWh

Heating Season	Kwh Usage	Cost per Kwh	Total Cost
2004/2005	41,653	0.031	1291.24
2005/2006	40,321	0.031	1249.94
2006/2007	41,252	0.031	1278.80
2007/2008	42,785	0.035	1497.49
2008/2009	42,630	0.035	1492.06
2009/2010	41,152	0.035	1440.31
2010/2011	42,893	0.0413	1771.47
2011/2012	38,468	0.0413	1588.71
2012/2013	42,162	0.0413	1741.28
2013/2014	43,859	0.0445	1951.73
2014/2015	41,802	0.0445	1860.20
2015/2016	39,075	0.0445	1738.83
2016/2017	39,290	0.0445	1748.39
2017/2018	41,504	0.0445	1846.92
2018/2019	42,581	0.0467	1988.53
2019/2020	41,056	0.0467	1917.32
2020/2021	40,862	0.0467	1908.27
2021/2022	41,504	0.0467	1938.23
2022/2023	41,026	0.0467	1915.93