

	Ln ft (U.2) exterior wall	Room Length	Room Width	Room Area	Wall Height (U .2)	Window Area (U .35)	Sq Ft EDR	Radiator Sections	Radiator Btu Output	Exterior Door sq ft	Heat Loss Ceiling	Heat Loss Windows and Doors	Heat Loss Walls	Total Heat Loss
1st Floor Entry	36	15	21	315	10	45	6.3	31	33201	50 @ U.5		2445	15900	
Kitchen	40	20	10	200	10	36	130' of radiant pex under floor	21 @ U.083				1802	21840	
Family Rm	18	28	13	364	10	30	10	16	27200			630	9000	
Dining Rm	22	16	15	240	10	60	6.3	31	33201			1260	9600	
Living Rm	44	28	16	448	10	90	6.3	70	74970			1890	21000	
1st Floor Restroom	0	5	6	30	10	0	0	0	0			0	0	
Mud room	20	10	10	100	10	60	0	0	0			0	0	85367
2nd Floor Landing	0	15	15	225	10	0	0	0	0			0	0	
Master Bedroom	28	22	17	374	10	45	6.3	31	33201			945	14100	
Master Bathroom	40	10	20	200	10	76	10	24	40800	21 @ U.083		2642	19440	
NE Bedroom	30	15	17	255	10	120	6.3	31	33201			2520	10800	
East Bathroom	15	15	8	120	10	30	10	6	10200			630	7200	
SE Bedroom	17	17	15	255	10	60	6.3	31	33201			1260	6600	
SW Bedroom	32	17	15	255	10	120	6.3	31	33201			2520	12000	80657
3rd Floor Landing	0	15	15	225	10	0	0	0	0		306	0	0	
North Bedroom	20	20	14	280	10	70	10	16	27200		381	1470	1560	
3rd Fl Bathroom	15	15	5	75	10	60	10	12	20400		102	1260	1080	
South Bedroom	36	22	18	396	10	0	10	16	27200	50 @ U.083	539	2490	3720	7689
Basement Landing	10	15	12	180	3	6						126	360	
Basement Laundry	17	25	16	400	3	18 plan= 8' baseboard water radiator						378	612	
Basement Game Rm	15	28	16	448	3	6 plan= 15' baseboard water radiator						126	540	
Basement Workshop	30	16	18	288	3	24 plan= 8' baseboard water radiator				21 @ U.5		504	1080	
Furnace Rm	12	8	5	40	3	12						252	432	
Storage Rm	0	15	6	90	1	0						0	0	4410
5803 sq ft												25150	156864	

Third floor R44 (14" fiberglass) ceiling insulation= U 0.0227      F=      60 Area x U-factor x 60F= heat loss      Total Heat Loss      178123

Boiler input rating      199999

DOE rating      165000

Water rating      143000