

Prepared By:  Date:  **MJ8-Calc (Residential Load Calculations)**  
 Project:  Cooling Season:  Summer Des.:  Heat db:  HDD/CDD %:  Cool db:  Cool RH:   
 St.,City:  Mid-Summer (July):  90

Construction Number & Description	Description of Components	HTM Heat Loss	HTM Heat Gain	Net Area or Length	Btuh Heating	Btuh S-Cooling	
Construction #1 thru #7 Windows & Glass Doors	Summary of East Facing Windows & Glass doors			2160	29441	41239	
	Summary of West Facing Windows & Glass doors			8688	167688	284381	
	Summary of North Facing Windows & Glass doors			12960	176645	100697	
	Summary of South Facing Windows & Glass doors			12984	201607	82231	
	Summary of Northeast & Northwaet Facing Windows & Glass doors			0	0	0	
	Summary of Southeast & Southwest Facing Windows & Glass doors			0	0	0	
Construction #8 & #9 Skylights	Summary of Directional Skylights			0	0	0	
	Summary of Horizontal Skylights			0	0	0	
Const. #11 Wood and Metal Doors	Metal fiberglass core	28.2	18.6	105	2961	1953	
	Metal fiberglass core	28.2	18.6	0	0	0	
Construction #12 Above Grade Frame Walls	Frame, Wood Studs, R-6 Sheathing, Brick, R-15 Cavity	2.7	1.0	1400	3816	1332	
				0	0	0	
Const. #12 Partion Walls	Wood Studs, Drywall, R-15 Cavity	4.7	3.9	400	1892	1548	
Construction #13 Above Grade Block Walls	Block, Wood Studs, No Sheathing, Open Core, R-13 Cavity, Finished	3.9	1.4	0	0	0	
				0	0	0	
Const. #13 Partition Walls				0	0	0	
Const. #14 Alternative Walls				0	0	0	
Construction #15 Below Grade Walls	8" Block, No Studs R-10 Sheathing, 4 Ft. Below Grade, Filled	2.9		816	2339		
				0	0		
Construction #16 Ceilings Under Attic or Attic Knee Wall	Vented Attic (130 °F), No Radiant Barrier, No Insulation	19.2	22.4	1950	37393	43758	
				0	0	0	
Const. #16 Partition Ceilings	Drywall plus R-38 Insulation	1.4	1.2	1950	2789	2282	
Construction #16 Ceilings Under Encapsulated Attic	Drywall plus R-0 Insulation	2.4	2.9	0	0	0	
				0	0	0	
Const. #17 Ceilings on Exposed Beams	Ceiling on Beams, Dark Roof, 1.5" wood, R-15 Insulation	13.5	19.5	0	0	0	
Const. #18 Ceilings Below Roof Joists	Ceiling Below Joists, Dark Roof, 1.5" wood, R-19 Insulation	2.4	1.6	0	0	0	
Const. #19 Passive Floors over Enclosed Crawl Space or Basement	R-11 Wall Insulation, Sealed Space, R-0 Floor Insulation	14.2	2.4	1950	27771	4664	
	R-19 Wall Insulation, Sealed Space, R-0 Floor Insulation	14.2	0.3	0	0	0	
Const. #19 Passive Partition Floors	R-0 Wall Insulation, Sealed Space, R-0 Floor Insulation	16.2	5.9	0	0	0	
Const. #19 Radiant Floors over Enclosed Crawl Space or Basement	R-0 Wall Insulation, Sealed Space, R-19 blanket Floor Insulation	2.9	0.8	0	0	0	
				0	0	0	
Const. #19 Radiant Partition Floors	R-0 Wall Insulation, Sealed Space, R-19 blanket Floor Insulation	2.9	16.2	0	0	0	
Const. #20 Passive Floors over Open Crawl Space or Garage	Passive, R-19 Blanket Insulation	2.4	0.8	0	0	0	
				0	0	0	
Const. #20 Radiant Floors over Open Crawl Space or Garage	Radiant, R-19 Blanket Insulation	7.2	1.3	0	0	0	
				0	0	0	
Const. #21 Basement Floor	Basement Floor, No Insulation Under Slab	0.7		0	0		
Const. #22 Concrete Slab on Grade	Slab on Grade, R5 Vertical Insulation, Heavy Dry/Light Wet Soil	21.1		0	0		
Const. #22 Radiant - Concrete Slab	Slab on Grade, R5 Vertical Insulation, Heavy Dry/Light Wet Soil	32.3		0	0		
Latent Loads:	Occupants: <input type="text" value="800"/>	Internal Gains - Occupants & Appliances:				<input type="text" value="4320"/>	
	Appliances: <input type="text" value="0"/>	Infiltration - Air Changes Per Hour: <input type="text" value="0.26"/> <input type="text" value="0.14"/>				<input type="text" value="423"/>	<input type="text" value="87"/>
	Ducts: <input type="text" value="523"/>	Sub-Totals:				<input type="text" value="654767"/>	<input type="text" value="568493"/>
	Ventilation: <input type="text" value="0"/>	Ducts - EHLF   ESGF: <input type="text" value="0.08"/> <input type="text" value="0.07"/>				<input type="text" value="55244"/>	<input type="text" value="37713"/>
	Infiltration: <input type="text" value="111"/>	Ventilation CFM   Exhaust CFM: <input type="text" value="0.0"/> <input type="text" value="0.0"/>				<input type="text" value="0"/>	<input type="text" value="0"/>
	Plants: <input type="text" value="60"/>	Blower Heat Gain:				<input type="text" value="1707"/>	
Total Latent Load:	<input type="text" value="1494"/>	Total Heat Loss   Total Sensible Gain:				<input type="text" value="710010"/>	<input type="text" value="607914"/>

