Bui	ldings	Energy	Data Book:	9.4 High	Performance	Buildings

Building Design	·		<i>/</i> //		
Floor Area: 31,000 SF Floors:	2 Foot	print: 220 ft	x (1)		
2 Floors of open office space					
Attached pavilion containing: Meeting space	Kitchen	Staff dining	Conference room		
<u>Shell</u>					
Windows					
		<u>U-Factor</u>	SHGC (2)		
Type: Double Pane, Low-e, Argon Filled Insula	iting Glass	0.244	0.41		
Wall/Roof					
Material		Effective R-Value			
Interior Wall plywood, gypsum, SIP for	am, and sheathing	and sheathing 28.0			
Exterior Wall gypsum and insulated me	etal framing	9.3	3		
Roof plywood, gypsum, SIP for	am, and sheathing	g 38.0			
HVAC					
18 ground source heat pumps					
fin and tube radiators connected to a propane boild	er				
1 air condtioning unit					
Lighting Power Densities (W/SF)					
First Floor: 1.2					
Second Floor: 1.6					
Conference Room: 1.4					
Energy/Power					
PV System:	4.2 kW thin-	4.2 kW thin-film system			
Net Annual Energy Usage (thousand Btu/SF*year)		-			

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