



Yeadon Fabric Structures Ltd.
Yeadon Fabric Domes, Inc.

Air Structure Heating/Cooling/Pressurization
Performance Software System

Date : November 14, 2013
Project Name : PORTLAND TENNIS - EC (6)

Structure Size (Feet): 228' L, 113' W, 38' H
Structure Fabric Area (ft²): 33373

Pressurization Air necessary at 0.75 in. WC is: 2931 CFM
Pressurization Air necessary at 1.75 in. WC is: 3715 CFM

Special Construction (U: 0.10 BTU/hr/ft²/F, R: 10.00 (hr*ft²*F)/BTU)

Number of Emergency Exits: 1
Entrance Type: Revolving Door and Airlock
Mechanical System Type: Integral Standby Fan-Above Grade Connections
Length of Fabric at Connection: 25 Feet
Number Of Field Joints: 2
Additional Perimeter Length Connections: 0 Lineal Feet

Interior Lighting Wattage: 40000 Watts

Heating:
Occupied : 32 °F
Unoccupied : No Heating

Bin and Degree Hour Weather Data For: Portland, Oregon, U.S.A.

Daily Unoccupied Hours: 10 pm to 6 am

Months for Air Structure Use:

January
February
March
April
May
June
July
August
September
October
November
December



Yeadon Fabric Structures Ltd.
Yeadon Fabric Domes, Inc.

Air Structure Heating/Cooling/Pressurization
Performance Software System

Date : November 14, 2013
Project Name : PORTLAND TENNIS - EC (6)

**** Heating Load Summary ****

Transmission Heat Loss:	30035 BTU/hr
Pressurization Heat Loss @ Maximum Pressure:	36109 BTU/hr
Total Structure Heat Loss/Maximum Pressure:	66144 BTU/hr

Transmission Heat Loss:	30035 BTU/hr
Pressurization Heat Loss @ Normal Pressure:	28489 BTU/hr
Total Structure Heat Loss / Normal Pressure:	58524 BTU/hr

Annual Heating Energy Used:

58.45 MMBTU
584.47 Therm
575.78 CCF
2094741.96 m³
1719.74 Litres No.2 Oil
453.75 Gallons No.2 Oil

Annual Heating &
Inflation Energy Usage: **103604.48 kWhr**

Annual Lighting Energy Usage: **258844.44 kWhr**

Qualifier / Disclaimer

Information contained is solely for estimating/budgeting purposes, is based on historical results and may vary due to operating procedures, maintenance and weather conditions. Yeadon assumes no responsibility in the results contained herein.