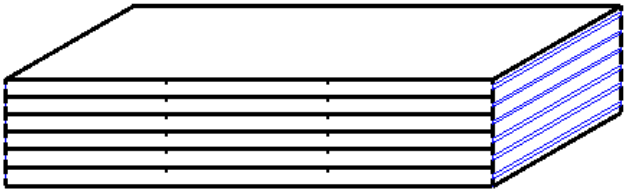


Meyerson Hall



Building dimensions

Number of sections:

3

Number of floors:

6

Floor length:

32

m

Section width:

35

m

Floor-to-floor height:

3.8

m

Floor-to-ceiling height:

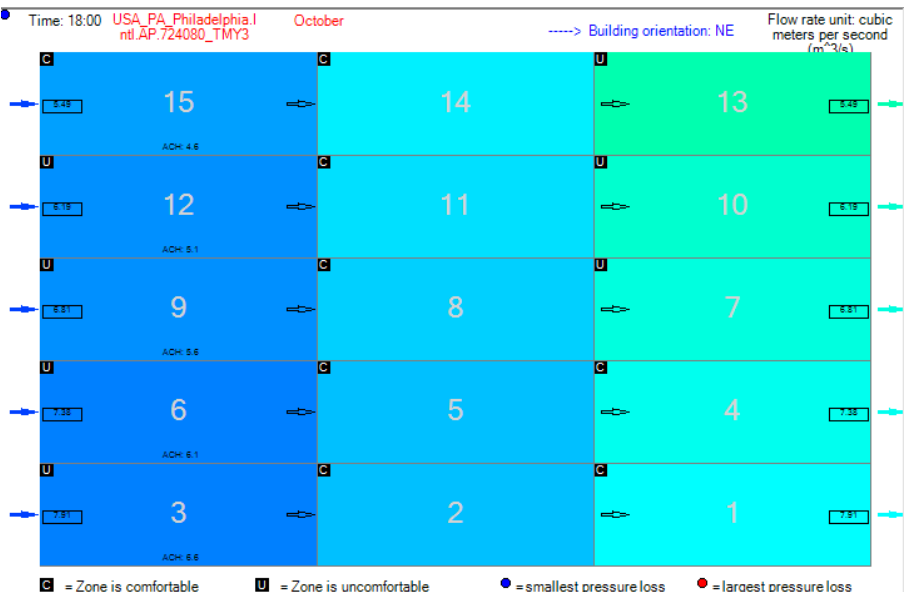
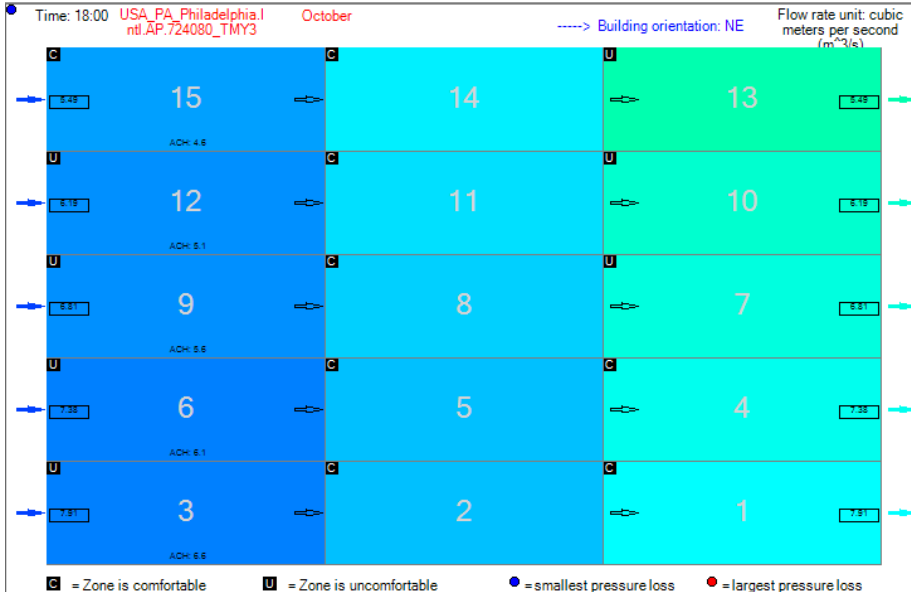
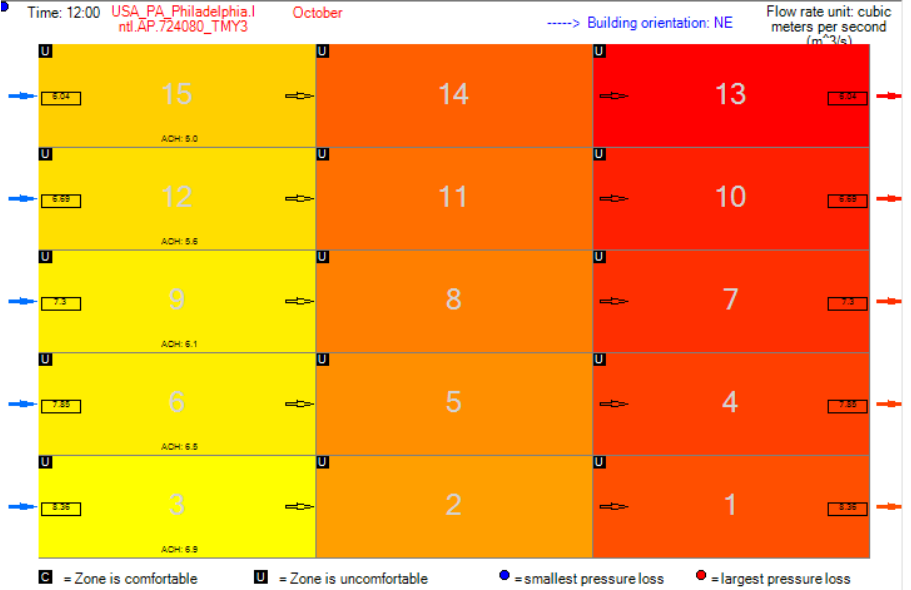
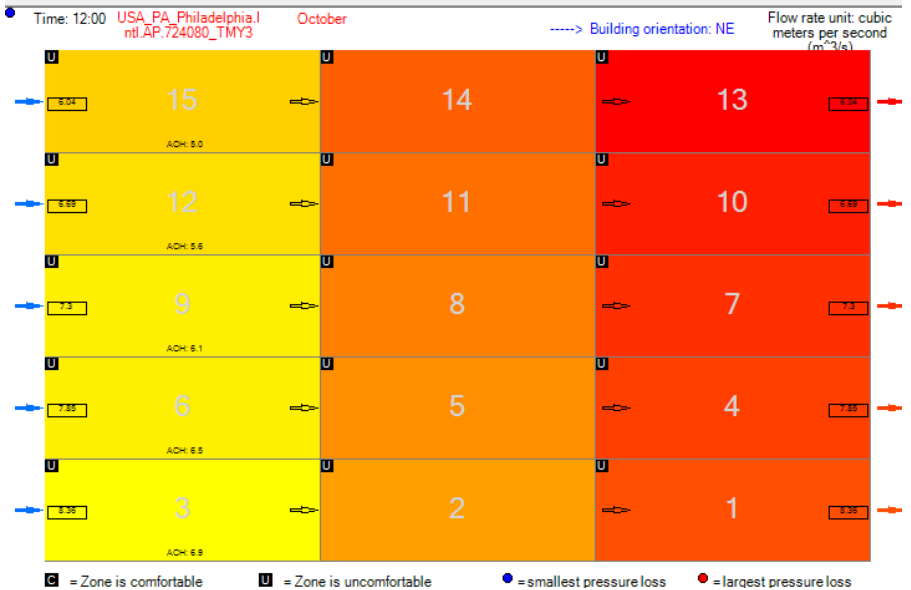
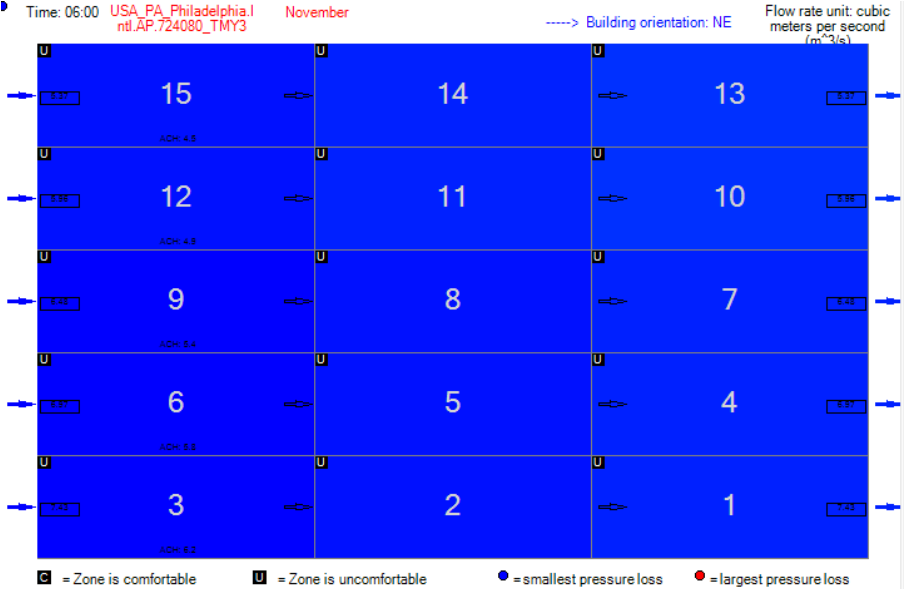
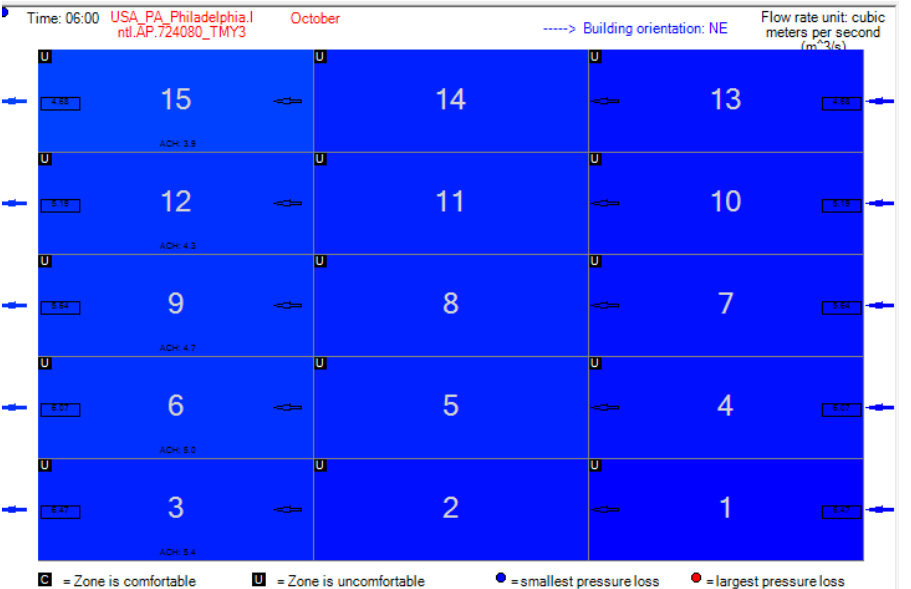
3.5

m

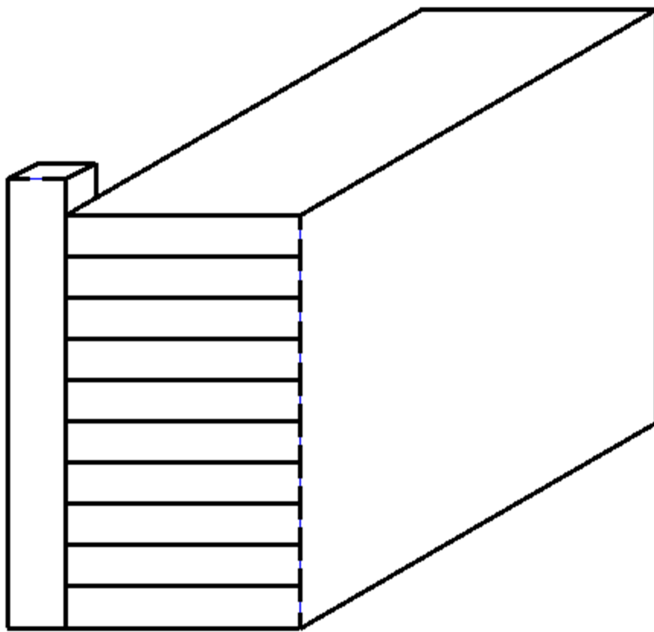
Help:

?

With the lack of adequate natural ventilation systems, Meyer-son Hall would not be the most comfortable building to occupy if the AC goes off. The Most comfortable time of the day is between 5 and 6.30 Pm in the Fall Season; Primely on the center on the building.

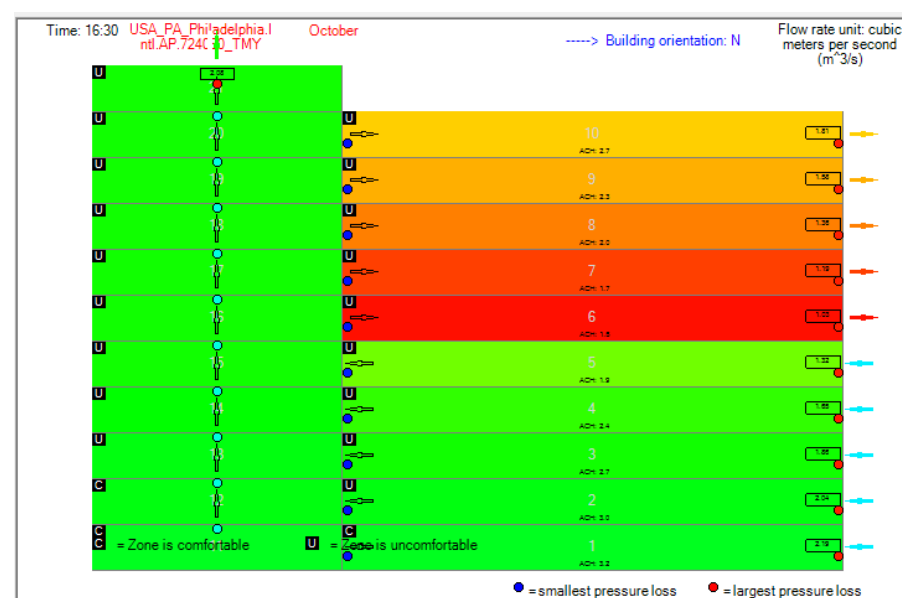
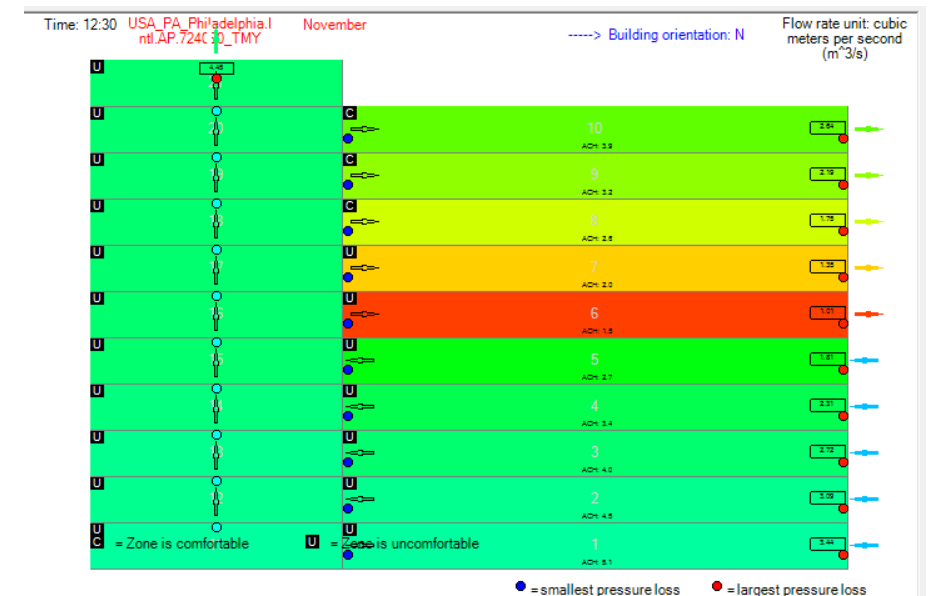
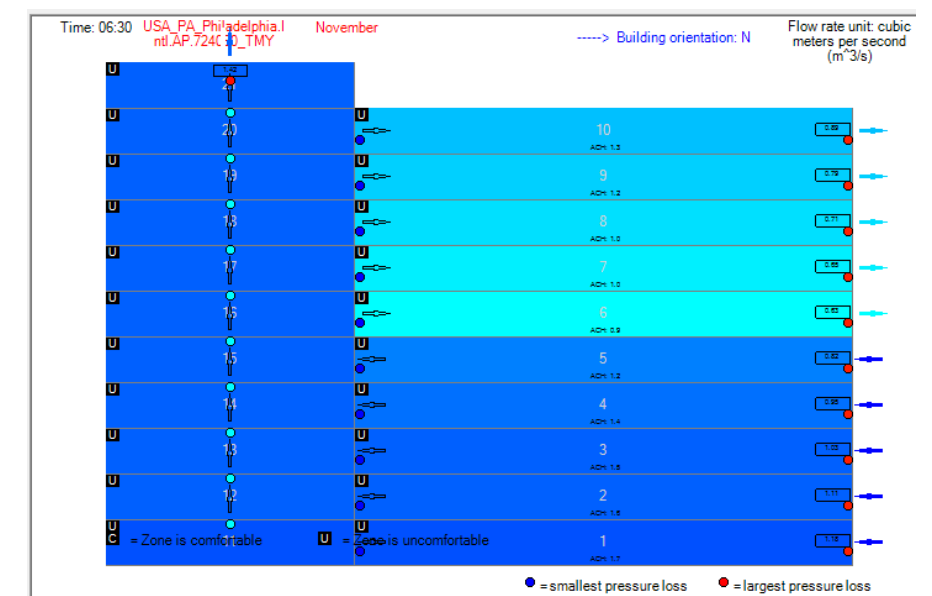
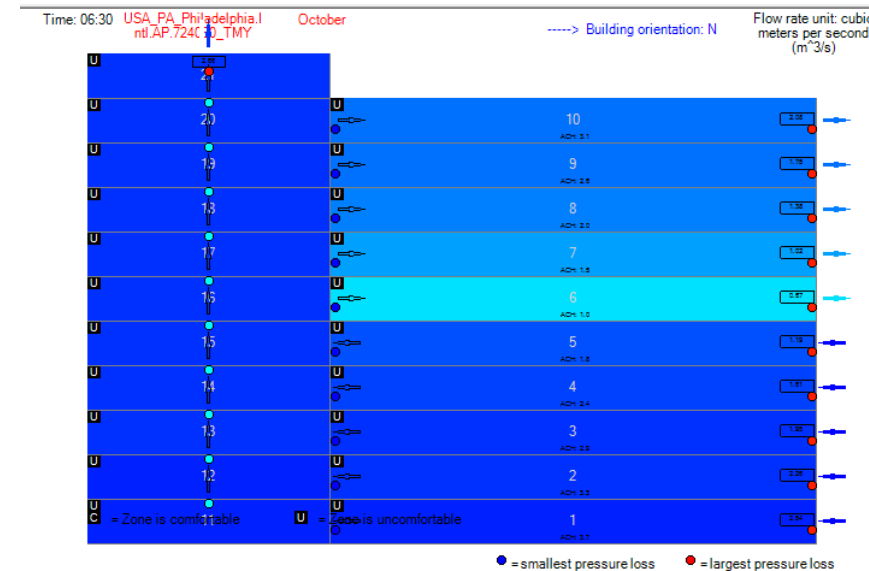


Design I : Ventilation Shaft

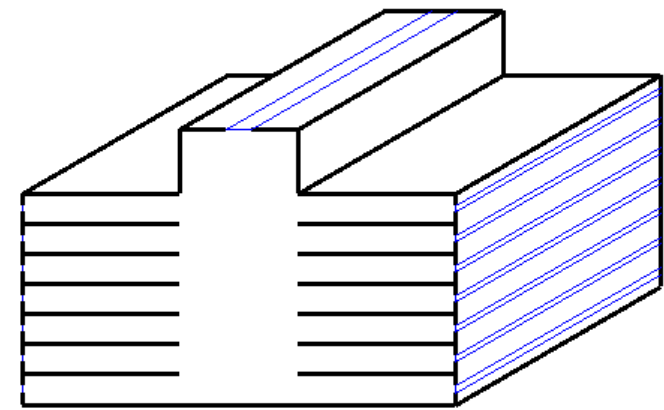


Number of floors:	<input type="text" value="10"/>	<input style="border: 1px solid black; background-color: #4a7ebb; color: white; padding: 2px 10px; font-weight: bold; font-size: 1.2em; margin-left: 10px;" type="button" value="?"/>
Floor length:	<input type="text" value="35"/>	m
Floor (bay) width:	<input type="text" value="20"/>	m
Floor-to-floor height:	<input type="text" value="3.5"/>	m
Floor-to-ceiling height:	<input type="text" value="3"/>	m
Shaft width:	<input type="text" value="5"/>	m
Shaft height:	<input type="text" value="3"/>	m
Shaft length:	<input type="text" value="3"/>	m
<input type="checkbox"/> Building has second ventilation shaft		
<div style="margin-left: 40px;"> Second shaft width: <input type="text" value="5"/> m </div>		
<div style="margin-left: 40px;"> Second shaft height: <input type="text" value="3"/> m </div>		
<div style="margin-left: 40px;"> Second shaft length: <input type="text" value="3"/> m </div>		

Compared to Meyerson, the vent Shat offers pretty even comfort condition across the building throughout the day. The most uncomfortable time seems to be at 4pm, when the sun reaches its highest altitude during the day in the fall season. The building should be equipped with adequate shading on the North façade.



Design II : Mid-Shaft Ventilation



Building dimensions

Number of floors:

7

Floor length:

30

m

Floor (bay) width:

20

m

Floor-to-floor height:

3.8

m

Floor-to-ceiling height:

3.5

m

Chimney width:

15

m

Chimney height:

8

m

Help:

?

The Mid-Shaft Design provides pretty even condition though the month of October and November.

