Chartwell School - EHDD
Building Scorecard - 11/25/2009

Center for the Built Environment
University of California, Berkeley

Satisfaction in Core Survey Categories

- General Satisfaction Building (73%)
- Thermal Comfort (75%)
- Acoustic Quality (55%)
- Office Layout (66%)
- Air Quality (89%)
- Office Furnishings (70%)
- Cleanliness and Maintenance (87%)
- Lighting (81%)
1.2 **Category Mean vs. Benchmark**

Performance of Chartwell School - EHDD in core survey categories

- **Acoustic Quality**
  - Percentile: 75%
  - Mean Response: 0.53
  - Satisfied: 55%

- **Air Quality**
  - Percentile: 99%
  - Mean Response: 2.25
  - Satisfied: 89%

- **Cleanliness and Maintenance**
  - Percentile: 87%
  - Mean Response: 1.94
  - Satisfied: 87%

- **Lighting**
  - Percentile: 92%
  - Mean Response: 1.9
  - Satisfied: 81%
Performance of Chartwell School - EHDD in core survey categories

**Office Furnishings**
- 70% Percentile
- 1.27 Mean Response
- 70% Satisfied

**Office Layout**
- 24% Percentile
- 0.63 Mean Response
- 56% Satisfied

**Thermal Comfort**
- 98% Percentile
- 1.57 Mean Response
- 75% Satisfied
Performance of Chartwell School - EHDD in additional survey categories

**Classroom Furnishings**
- 49% Percentile
- Mean Response: 0.9
- Satisfied: 60%

**Classroom Layout**
- 57% Percentile
- Mean Response: 0.67
- Satisfied: 63%

**General Satisfaction - Building**
- 86% Percentile
- Mean Response: 1.86
- Satisfied: 79%

**General Satisfaction - Workspace**
- 70% Percentile
- Mean Response: 1.36
- Satisfied: 79%
2.1 **Acoustic Quality**

How satisfied are you with the noise level in your workspace?

Overall, does the acoustic quality in your workspace enhance or interfere with your ability to get your job done?

How satisfied are you with the sound privacy in your workspace (ability to have conversations without your neighbors overhearing and vice versa)?

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**N=28**

**N=27**

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You have said you are dissatisfied with the acoustics in your workspace. Which of the following contribute to this problem? (check all that apply)
2.2 Air Quality

How satisfied are you with the air quality in your workspace (i.e. stuffy/stale air, cleanliness, odors)?

<table>
<thead>
<tr>
<th></th>
<th>Very Dissatisfied</th>
<th>Neutral</th>
<th>Very Satisfied</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air is stuffy/stale</td>
<td>4%</td>
<td>7%</td>
<td>89%</td>
</tr>
</tbody>
</table>

Due to the limited number of responses to this question, its chart is not displayed.

Overall, does the air quality in your workspace enhance or interfere with your ability to get your job done?

<table>
<thead>
<tr>
<th></th>
<th>Interferes</th>
<th>Neutral</th>
<th>Enhances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air is not clean</td>
<td>4%</td>
<td>7%</td>
<td>89%</td>
</tr>
</tbody>
</table>

Due to the limited number of responses to this question, its chart is not displayed.

Air smells bad (odors)

Due to the limited number of responses to this question, its chart is not displayed.
2.3 Cleanliness and Maintenance

How satisfied are you with general cleanliness of the overall building?

How satisfied are you with general maintenance of the building?

How satisfied are you with cleaning service provided for your workspace?

Does the cleanliness and maintenance of this building enhance or interfere with your ability to get your job done?

N=28
2.4 Lighting

How satisfied are you with the amount of light in your workspace?

How satisfied are you with the amount of daylight in your workspace?

How satisfied are you with the visual comfort of the lighting (e.g., glare, reflections, contrast)?

Overall, does the lighting quality enhance or interfere with your ability to get your job done?

N=28

N=28

N=28

N=28
Which of the following controls do you have over the lighting in your workspace? (check all that apply)

- Light switch: 93%
- Light dimmer: 56%
- Window blinds or shades: 86%
- Desk task lighting: 18%
- None of the above: 7%
- Other: 0%

N=28

You have said that you are dissatisfied with the lighting in your workspace. Which of the following contribute to your dissatisfaction? (check all that apply)

- Too dark: 33%
- Too bright: 33%
- Not enough daylight: 53%
- Too much daylight: 17%
- Not enough electric lighting: 17%
- Too much electric lighting: 17%
- Electric lighting flickers: 17%
- Electric lighting is an undesirable color: 17%
- Not task lighting: 33%
- Reflections in the computer screen: 33%
- Shadows on the workspace: 17%
- Other: 50%

N=6
2.5 **Office Furnishings**

How satisfied are you with the comfort of your office furnishings (chair, desk, computer, equipment, etc.)?

How satisfied are you with the colors and textures of flooring, furniture and surface finishes?

How satisfied are you with your ability to adjust your furniture to meet your needs?

Do your office furnishings enhance or interfere with your ability to get your job done?
2.6 **Office Layout**

How satisfied are you with the amount of space available for individual work and storage?

![Bar chart](chart1.png)

<table>
<thead>
<tr>
<th>Satisfaction Level</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very Dissatisfied</td>
<td>9%</td>
</tr>
<tr>
<td>Neutral</td>
<td>18%</td>
</tr>
<tr>
<td>Satisfied</td>
<td>36%</td>
</tr>
<tr>
<td>Very Satisfied</td>
<td>45%</td>
</tr>
</tbody>
</table>

**N=11**

How satisfied are you with the level of visual privacy?

![Bar chart](chart2.png)

<table>
<thead>
<tr>
<th>Satisfaction Level</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very Dissatisfied</td>
<td>10%</td>
</tr>
<tr>
<td>Neutral</td>
<td>20%</td>
</tr>
<tr>
<td>Satisfied</td>
<td>50%</td>
</tr>
</tbody>
</table>

**N=10**

How satisfied are you with ease of interaction with co-workers?

![Bar chart](chart3.png)

<table>
<thead>
<tr>
<th>Satisfaction Level</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very Dissatisfied</td>
<td>9%</td>
</tr>
<tr>
<td>Neutral</td>
<td>18%</td>
</tr>
<tr>
<td>Satisfied</td>
<td>73%</td>
</tr>
</tbody>
</table>

**N=11**

Overall, does the office layout enhance or interfere with your ability to get your job done?

![Bar chart](chart4.png)

<table>
<thead>
<tr>
<th>Intervention Level</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interferes</td>
<td>9%</td>
</tr>
<tr>
<td>Neutral</td>
<td>27%</td>
</tr>
<tr>
<td>Enhances</td>
<td>64%</td>
</tr>
</tbody>
</table>

**N=11**
2.7 Thermal Comfort

How satisfied are you with the temperature in your workspace?

Overall, does your thermal comfort in your workspace enhance or interfere with your ability to get your job done?
Which of the following do you personally adjust or control in your workspace? (check all that apply)

- Window blinds or shades - 82%
- Operable window - 60%
- Thermostat - 43%
- Portable heater - 7%
- Permanent heater - 7%
- Room air-conditioning unit - 4%
- Portable fan - 4%
- Ceiling fan - 0%
- Adjustable air-vent in wall or ceiling - 33%
- Adjustable floor air-vent (diffuser) - 0%
- Door to interior space - 58%
- Door to exterior space - 38%
- None of the above - 4%
- Other - 11%

N=28

In cool/cold weather, the temperature in my workspace is: (check all that apply)

Due to the limited number of responses to this question, its chart is not displayed

In warm/hot weather, the temperature in my workspace is: (check all that apply)

Due to the limited number of responses to this question, its chart is not displayed

How would you best describe the source of this discomfort? (check all that apply)

Due to the limited number of responses to this question, its chart is not displayed
2.8 Building Features

Considering energy use, how efficiently is this building performing in your opinion?

Thermostats

- Mean 2.08
- N=25
- Very Dissatisfied: 4%
- Neutral: 0%
- Very Satisfied: 96%

Automatic daylight controls

- Mean 2
- N=24
- Very Dissatisfied: 4%
- Neutral: 8%
- Very Satisfied: 88%

Low flow toilets

- Mean 1.75
- N=28
- Very Dissatisfied: 14%
- Neutral: 7%
- Very Satisfied: 79%
Waterless urinals

How well informed do you feel about using the above mentioned features in this building?

N=7

N=28
2.9 Classroom Furnishings

How satisfied are you with the comfort of your classroom furnishings (student furniture included)?

How satisfied are you with your classroom furniture’s ability to be cleaned easily?

How satisfied are you with your ability to adjust or move your furniture to meet your needs?

How satisfied are you with the colors and textures of flooring, furniture and surface finishes?
Do your classroom furnishings enhance or interfere with your ability to get your job done?

N=25
2.10 Classroom Layout

How satisfied are you with the amount and type of space available for your individual work and storage?

Overall, does the classroom layout enhance or interfere with your ability to get your job done?

How satisfied are you with the amount and type of space available for student work and storage?
You have said that you are dissatisfied with the amount or type of space available for your individual work and storage in the classroom. Which of the following contribute to your dissatisfaction? (check all that apply)

- Amount of work surface area
- Total area of work station
- Available tiling and storage space
- Available space for personal items
- Space for meeting with other people
- Other

N=0

% responses

- Available desk or table space
- Available storage space
- Available space for personal items
- Space for meeting in small groups
- Flexibility of space for different activities
- Available space for displaying student work
- Other

N=7

% responses
2.11 **Classroom Workspace**

Do you spend more than 10 hours a week in one or more classrooms (including specialty education spaces such as gyms, art rooms and shops)?

![Bar chart showing 89% yes and 11% no responses.](chartwell_school_ehdd_27.png)
### 2.12 Classroom Workspace Location

#### To which direction do the windows in your primary classroom face?

<table>
<thead>
<tr>
<th>Direction</th>
<th>% Responses</th>
</tr>
</thead>
<tbody>
<tr>
<td>North</td>
<td>15%</td>
</tr>
<tr>
<td>East</td>
<td>4%</td>
</tr>
<tr>
<td>South</td>
<td>27%</td>
</tr>
<tr>
<td>West</td>
<td>23%</td>
</tr>
<tr>
<td>No windows</td>
<td>8%</td>
</tr>
<tr>
<td>Don't know</td>
<td>15%</td>
</tr>
</tbody>
</table>

**N=26**

#### Do you use multiple classrooms regularly, or only one?

<table>
<thead>
<tr>
<th>Classroom Use</th>
<th>% Responses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiple classrooms</td>
<td>52%</td>
</tr>
<tr>
<td>Only one classroom</td>
<td>48%</td>
</tr>
</tbody>
</table>

**N=25**

#### In a typical week, how many hours do you spend in classrooms in this building?

<table>
<thead>
<tr>
<th>Hours</th>
<th>% Responses</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 to 20</td>
<td>23%</td>
</tr>
<tr>
<td>20 to 40</td>
<td>23%</td>
</tr>
<tr>
<td>More than 40</td>
<td>44%</td>
</tr>
</tbody>
</table>

**N=25**

#### Does your primary classroom have an exterior wall?

<table>
<thead>
<tr>
<th>Exterior Wall</th>
<th>% Responses</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>8%</td>
</tr>
<tr>
<td>Yes</td>
<td>92%</td>
</tr>
</tbody>
</table>

**N=24**

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2.13 General Building Satisfaction

How satisfied are you with the building overall?

Mean 1.86

N=28
2.14 **General Comments**

All things considered, how satisfied are you with your personal workspace?

Please estimate how your productivity is increased or decreased by the environmental conditions in this building (e.g. thermal, lighting, acoustics, cleanliness):

![Bar chart showing satisfaction levels with personal workspace.](chart1)

N=28

![Bar chart showing productivity changes.](chart2)

N=28
2.15 **Personal Workspace Adjustability**

How satisfied are you with the extent to which you can adjust or control the thermal conditions of your workspace?

How easy is it for you to open or close the window in your workspace?

To what degree does the building management encourage or discourage the use of operable windows?

How satisfied are you with the operable window(s) in your workspace in warm/hot weather?
Overall, how effective is opening your window in helping you stay comfortable in warm/hot weather?

How important is it for you to have an operable window in your workspace?

Overall, does having the operable window(s) in your workspace enhance or interfere with your ability to get your job done?

N=23

N=22

N=23
Referring to the question above, which item do you adjust most frequently?

- Window blinds or shades: 44%
- Operable window: 28%
- Operable window (independently controlled, I can open or close the window): 7%
- Thermostat: 7%
- Permanent baseboard heater or radiator: 0%
- Room air conditioning unit: 0%
- Portable heater: 0%
- Portable fan: 0%
- Ceiling fan: 0%
- Adjustable air vent in wall or ceiling: 7%
- Adjustable floor air vent (diffuser): 0%
- Door to inferior space: 7%
- Door to exterior space: 0%
- None of the above: 7%

Of the reasons you checked above, which is the most common reason why you open your window(s) in your workspace in warm/hot weather?

- To feel cooler: 40%
- To feel warmer: 0%
- To feel more air movement: 29%
- To let out indoor smells, dust or other pollution: 0%
- To conserve energy: 0%
- To hear outdoor sounds: 0%
- To let in fresh air: 0%
- To experience the variety of the outdoor climate: 21%
- For nighttime cooling: 0%
- A co-worker requests that you open the window: 0%
- Management requests that you open the window: 0%
- Other: 0%

N=24

In warm/hot weather, how often do you typically adjust your window?

- Daily (typically every day): 87%
- Weekly (1-3 times a week): 9%
- Monthly (1-3 times a month): 0%
- Less than once a month: 0%
- Never: 0%

N=23
Of the reasons you checked above, which is the most common reason why you close the window(s) in your workspace in warm/hot weather.

In warm/hot weather, approximately how much time during the day is your window typically open?

In warm/hot weather, how far do you typically open your window?

In warm/hot weather, how do you choose or adjust your work clothing in order to stay comfortable in this building? (check all that apply)
Which of the following can you personally adjust or control in your personal workspace, or neighboring area? (check all that apply)

- Window blinds or shades: 83%
- Operable window: 79%
- Thermostat: 45%
- Permanent baseboard heater or radiator: 3%
- Room air-conditioning unit: 3%
- Portable heater: 3%
- Portable fan: 3%
- Ceiling fan: 3%
- Adjustable air vent in wall or ceiling: 3%
- Adjustable floor air vent: 3%
- Door to interior space: 62%
- Door to exterior space: 24%
- None of the above: 7%
- Other: 0%

N=29

Below is a list of reasons why someone might close a window. Please identify all the reasons why you close the window(s) in your workspace in warm/hot weather. (check all that apply)

- To feel cooler: 64%
- To feel warmer: 12%
- To reduce the air movement: 12%
- To keep out outdoor smells, dust or other pollution: 8%
- To keep out bugs: 8%
- To conserve energy: 12%
- To reduce outdoor noise: 71%
- For safety or security reasons: 42%
- The outdoor temperature is getting warmer than indoors: 21%
- A co-worker requests that you close the window: 8%
- Management requests that you close the window: 8%
- Other: 0%

N=24
Below is a list of reasons why someone might open a window. Please identify all the reasons why you open the window(s) in your workspace in warm/hot weather. (check all that apply)

- To feel cooler
- To feel warmer
- To feel more air movement
- To let out indoor smells, dust or other pollution
- To conserve energy
- To hear outdoor sounds
- To let in fresh air
- To experience the variety of the outdoor climate
- For nighttime cooling
- A co-worker requests that you open the window
- Management requests that you open the window
- Other...

N=24
If it is difficult for you to use the window in your workspace, what factors contribute to this problem? (check all that apply)

- Not applicable (window is not difficult to use) 43%
- Windows are too bright too low 13%
- Office layout makes it difficult to walk to the window 9%
- Cannot open window fully 9%
- Window latch is difficult to reach 4%
- Window latch is difficult to operate 4%
- Window is difficult to move 4%
- Blinds or shades are in the way 9%
- Outdoor vegetation is in the way 9%
- Colleagues complain when window is opened/closed 4%
- Other 4%

N=23
2.16 **Personal Workspace Description**

Which of the following best describes your office or administration space?

- Enclosed office, private: 36%
- Enclosed office, shared with other people: 36%
- Cubicles with high partitions (about 5 ft or more feet high): 18%
- Cubicles with low partitions (less than 5 ft high): 18%
- Workspace in open office without partitions (just desks): 8%
- Faculty break room: 8%
- Other: 8%

Are you near an exterior wall (within 15 feet)?

- Yes: 82%
- No: 18%

Are you near a window (within 15 feet)?

- Yes: 82%
- No: 18%
2.17 **Personal Workspace Location**

In which area of the building is your workspace located?

- North: 14%
- East: 3%
- South: 16%
- West: 24%
- Core: 14%
- Don't know: 24%

**Do you spend more than 10 hours a week in an office or administrative space in the school?**

- Yes: 39%
- No: 61%

*N=28*
3.1 Background

How many years have you worked in this building?

- Less than 1 year: 22%
- 1-2 years: 77%
- 2-5 years: 0%
- More than 5 years: 0%

N=30

In a typical week, how many hours do you spend in your workspace?

- 10 or less: 0%
- 11-30: 19%
- More than 30: 81%

N=27

How long have you been working at your present workspace?

- Less than 3 months: 0%
- 3-6 months: 7%
- 6-12 months: 21%
- More than 1 year: 71%

N=28

How would you describe the work you do?

- Other: 0%

N=20

What is your age?

- 30 or under: 14%
- 31-50: 54%
- Over 50: 32%

N=28

What is your gender?

- Female: 81%
- Male: 19%

N=27