Bike Advisory Committee

May 18, 2017

Bike Car Location

NEW BIKE CARS

There would be two dedicated bike cars per train that will be well separated from the rest. Each bike car would have two levels, with bike storage on the lower level. The exact bike layout will be discussed in Spring 2017. Please visit www.calmodtrains.com for the latest developments.

Note: Caltrain is in the middle of developing bike parking management plans that will explore opportunities for improving bike parking at stations. For more information about the plan and to weigh in, go here.

www.calmodtrains.com
Many Concepts Considered

Recommended

<table>
<thead>
<tr>
<th>Option</th>
<th>Configuration</th>
<th>Bike Capacity</th>
<th>Add'l Hooks</th>
<th>Total Capacity Per Car</th>
<th>Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Stacking (current)</td>
<td>32</td>
<td>4</td>
<td>36</td>
<td>1 : 7.9</td>
</tr>
<tr>
<td>2</td>
<td>Hybrid: Stacking + Stand</td>
<td>30</td>
<td>4</td>
<td>34</td>
<td>1 : 8.4</td>
</tr>
</tbody>
</table>
Discuss

<table>
<thead>
<tr>
<th>Option</th>
<th>Configuration</th>
<th>Bike Capacity</th>
<th>Add’l Hooks</th>
<th>Total Capacity Per Car</th>
<th>Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Stand</td>
<td>28</td>
<td>4</td>
<td>32</td>
<td>1 : 8.9</td>
</tr>
<tr>
<td>4</td>
<td>Hybrid: Stacking + Options 5-7</td>
<td>28</td>
<td>4</td>
<td>32</td>
<td>1 : 8.9</td>
</tr>
</tbody>
</table>

Not Recommended

<table>
<thead>
<tr>
<th>Option</th>
<th>Config</th>
<th>Capacity</th>
<th>Add’l Hooks</th>
<th>Total Per Car</th>
<th>Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Fork</td>
<td>24</td>
<td>4</td>
<td>28</td>
<td>1 : 10.2</td>
</tr>
<tr>
<td>6</td>
<td>Spinlock</td>
<td>24</td>
<td>4</td>
<td>28</td>
<td>1 : 10.2</td>
</tr>
<tr>
<td>7</td>
<td>Hook</td>
<td>24</td>
<td>4</td>
<td>28</td>
<td>1 : 10.2</td>
</tr>
</tbody>
</table>
Option 1: Stacking
Recommended

Option 1: Stacking (w/add’l hooks)
Recommended

Ratio 1:7.9
72 bikes per train
Option 2: Hybrid Stacking + Stand

Recommended

Ratio 1:8.4
68 bikes per train

Stand: new concept, not currently in use

Option 3: Stand (w/add’l hooks)

Discuss

Ratio 1:8.9
64 bikes per train

Stand: new concept, not currently in use
Option 4: Hybrid Stacking + 5-7
Discuss

Ratio 1:8.9 64 bikes per train

Option 5-7: Fork, Spinlock, Hook
Not Recommended

Issues
• Capacity: Ratio 1:10.2 (56 bikes per train)
• Upper body strength (hooks/fork)
• Maintenance (spinlock)
Additional Input on Option 1
Belt versus Bungee

VS.
1 for 4 bikes
Determining Capacity

<table>
<thead>
<tr>
<th>Bikes (per train)</th>
<th>Stacking (72)</th>
<th>Hybrid: Stack &amp; Stand (68)</th>
<th>Stands OR Hybrid: Stack &amp; 5-7 (64)</th>
<th>Fork, Spinlock, or Hook (56)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fixed Seats Only</td>
<td>1 : 6.5</td>
<td>1 : 6.95</td>
<td>1 : 7.3</td>
<td>1 : 8.4</td>
</tr>
<tr>
<td>All Seats (fixed &amp; flip)</td>
<td>1 : 7.9</td>
<td>1 : 8.42</td>
<td>1 : 8.9</td>
<td>1 : 10.2</td>
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<tr>
<td>All Seats (minus ADA)</td>
<td>1 : 7.4</td>
<td>1 : 7.89</td>
<td>1 : 8.3</td>
<td>1 : 9.5</td>
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</tbody>
</table>

Timeline

- BAC: May 18, 2017
- Samples Arrive: mid-July 2017
- Outreach: late July through August 2017
- Determination: September 2017
Outreach Discussion