End Stairway (ES)

General Instructions:
- Modular Mezzanine Assembly

Particular Module:
- Refer to the assembly of this module individual assembly details that modular modules shown on each module number diagram. Refer to any floor plans and drawings before beginning any assembly work. Refer to all the assembly instructions. Mezzanine material may be present above the floor deck level. Modular modules shown on the back of this page represent the five mezzanine modules.

Clear the floor area where the mezzanine is to be assembled. Move all the floor anchors age to be finished by others.

1. Check the entire mezzanine structure to see that all bolts, nuts, and fasteners are in place and tightened securely.
2. Post-CAP's shown in details 22 to 24.72.
3. Post-CAP's shown in details 22 to 24.72.
4. Position all railing posts and install all railing beams. See details in the lower corner.
5. Assemble stairways and fasten to mezzanine. See details 11, 16, and 19. For assembly stairways shown in details 21.72.
6. Felt all diagonal braces in place. See details 6.19.
7. Felt all diagonal braces in place. See details 6.19.
8. Install the mezzanine floor grating panels. See details in the lower corner.
11. Check the entire mezzanine structure to see that all bolts, nuts, and fasteners are in place and tightened securely.
12. Position all railing posts and install all railing beams. See details in the lower corner.
13. Post-CAP's shown in details 22 to 24.72.
14. Position all railing posts and install all railing beams. See details in the lower corner.
15. Assemble stairways shown in details 21.72.
16. Felt all diagonal braces in place. See details 6.19.
17. Felt all diagonal braces in place. See details 6.19.
19. Assemble stairways shown in details 21.72.
20. Post-CAP's shown in details 22 to 24.72.
21. Check the entire mezzanine structure to see that all bolts, nuts, and fasteners are in place and tightened securely.
22. Post-CAP's shown in details 22 to 24.72.
23. Position all railing posts and install all railing beams. See details in the lower corner.
24. Post-CAP's shown in details 22 to 24.72.
26. Felt all diagonal braces in place. See details 6.19.
27. Felt all diagonal braces in place. See details 6.19.
30. Post-CAP's shown in details 22 to 24.72.
31. Check the entire mezzanine structure to see that all bolts, nuts, and fasteners are in place and tightened securely.
32. Position all railing posts and install all railing beams. See details in the lower corner.
33. Post-CAP's shown in details 22 to 24.72.
34. Position all railing posts and install all railing beams. See details in the lower corner.
35. Assemble stairways shown in details 21.72.
Arrangement of Grating Near the Stairways:

1. Center one Nine Inch Panel over each Frame Post.
2. Place one Twelve Inch Panel on each side of the Nine Inch Panel.
3. See "Grating Layout at Stairways" section for the needed size cut lines. (Only one Twelve Inch Panel is needed for six foot bays.)

Grating and Stairway Installation
Secure grating at corners. Support plate and grating clip.

Before handing off, must be properly assembled.

Front, corner, and middle stairs.

End stairs.

1. Position grating plate to frame and bolt to frame post using 3/8" x 1" hex head bolt.
2. Bolt bottom of grating plate to frame post using 3/8" x 1" hex head bolt and locknuts.
3. Bolt head bolt and locknut. 2 per clip.
4. Position grating clip and bolt through clip.
5. Slide support plate into and of grating panel.

See detail channel.

Support plate.

Bolts and locknuts. 5/16" x 5/8" hex.

Floor grating panel.

To support channels.

Support plate.

Bolts and locknuts. 5/16" x 5/8" hex.

See detail channel.

Support plate.

Head bolts and locknuts.

Between frame post.

Finishing work.

End support channel.
Modular Mezzanine Assembly

**Depth - Frame Spacings**

- **Mezzanine 8'6" High**
  - Depths: 12'0" 14'0" 16'0" 20'0" 24'0" 28'0" 32'0" 36'0" 40'0"

- **Mezzanine 10'0" High**
  - Depths: 12'0" 14'0" 16'0" 20'0" 24'0" 28'0" 32'0" 36'0" 40'0"

**Standard Spacing**

- 4' or 8'
- Between frames to be determined by depth of mezzanine.

**Width - Beam Spacing**

- **Quantity & Beam Lengths**
  - 1 @ 10' and 1 @ 6'
  - 2 @ 10'

**Important Railing Information**

- **Note:** Beam lengths and railing - kickplate lengths are basically the same.
- See details on back pages of 41G70.

**Run**

- 10'6"
- 14'3"
- 20'9"
- 24'0"
- 27'0"
- 29'3"
- 31'0"
- 33'3"
- 35'6"
- 37'9"
- 39'6"
- 41'3"
- 43'6"
- 45'9"
- 47'6"
- 49'9"
- 51'6"
- 53'6"
- 56'0"
- 57'9"
- 60'0"
- 61'0"
- 64'0"

- **10'6" Long Beams**
- **3" Frames**
- **6'0" Long Beams**
Modular Mezzanine Assembly Instructions

End Rails - Mezzanine Depth
Rail and Kick Plate Lengths

3" Railing Posts

Note: See drawing #41670 for post detail.

A 80004 corner posts  B 80003 posts

Width - Grating Panels

<table>
<thead>
<tr>
<th>Mezz. Size</th>
<th>Panel 10th</th>
<th>Panel Width 9&quot;</th>
<th>Panel Width 12&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>10'6&quot;</td>
<td>14</td>
<td>41 3&quot;</td>
<td>41</td>
</tr>
<tr>
<td>16'6&quot;</td>
<td>21 1</td>
<td>43 6&quot;</td>
<td>50</td>
</tr>
<tr>
<td>20'9&quot;</td>
<td>25 2</td>
<td>46 9&quot;</td>
<td>53</td>
</tr>
<tr>
<td>23'0&quot;</td>
<td>28 2</td>
<td>47 6&quot;</td>
<td>54</td>
</tr>
<tr>
<td>27'0&quot;</td>
<td>32 3</td>
<td>48 9&quot;</td>
<td>57</td>
</tr>
<tr>
<td>29'3&quot;</td>
<td>35 3</td>
<td>51 6&quot;</td>
<td>58</td>
</tr>
<tr>
<td>31'0&quot;</td>
<td>36 4</td>
<td>53 9&quot;</td>
<td>61</td>
</tr>
<tr>
<td>33'5&quot;</td>
<td>39 4</td>
<td>56 6&quot;</td>
<td>64</td>
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<tr>
<td>35'0&quot;</td>
<td>42 4</td>
<td>57 9&quot;</td>
<td>68</td>
</tr>
<tr>
<td>37'3&quot;</td>
<td>43 5</td>
<td>60 6&quot;</td>
<td>70</td>
</tr>
<tr>
<td>39'6&quot;</td>
<td>46 5</td>
<td>61 9&quot;</td>
<td>72</td>
</tr>
</tbody>
</table>

Note: The above chart shows the amount of 9" and 12" wide panels which are required for the various mezzanine widths.

Depth - Grating Lengths

<table>
<thead>
<tr>
<th>Mezz. Depth</th>
<th>Panel Lengths</th>
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<tbody>
<tr>
<td>10'6&quot;</td>
<td>1</td>
</tr>
<tr>
<td>16'0&quot;</td>
<td>1</td>
</tr>
<tr>
<td>20'0&quot;</td>
<td>1</td>
</tr>
<tr>
<td>24'0&quot;</td>
<td>1</td>
</tr>
<tr>
<td>28'0&quot;</td>
<td>1</td>
</tr>
<tr>
<td>32'0&quot;</td>
<td>1</td>
</tr>
<tr>
<td>36'0&quot;</td>
<td>1</td>
</tr>
<tr>
<td>40'0&quot;</td>
<td>1</td>
</tr>
</tbody>
</table>

Note: The above chart shows the amount of 9" and 12" wide panels which are required for the various mezzanine widths.

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