**Sheet Information**

- **Seismic Load (Maximum)**: Seismic Design Category B
- **Snow Load (Maximum)**: 20 PSF (Roof Load) (See Note 2)

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**Notes**

1. Maximum Frame Loads shown in the table are based on the above maximum design loads. Contact QuickFrames if above loads are exceeded because site-specific inputs can be designed.
2. Wind Loads shown in the table shall be less than 15 feet per second per ASCE 7-05 and 7-10 Section 7.8.
3. Snow loads shown in the table shall be less than 40 PSF per ANSI Z26.2. See dimension table.
4. Additional framing for load away from panel; joint by others.
5. Additional framing for load away from panel; joint by others.
6. end connector

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**Material Specifications**

- **Angles**: 3" x 9/16" slots, typical
- **Fasteners**: 3/8" diameter x 1" long grade 5 or grade 8.2 carriage bolts with nuts.
- **Welds**: 2 bolts in each angle.
- **End Connectors**: 2 bolts in each end. Cross Rail splice connection shall contain 1 bolt (minimum) at each end of splice. The bolts for angle connectors may not be used as splice bolts.

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**Other Information**

- **Contact Information**
  - QuickFrames USA, LLC
  - 710 W. Broadway Rd. Suite 503
  - Mesa, Arizona 85210
  - Office: 480.464.1500 Fax: 480.464.1504
  - Website: www.quickframes.us
  - Email: sales@quickframes.us

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**Additional Notes**

- Cross Rail and reaction shall not exceed 1000 lbs (1.0 Kip) for a single angle connection. Installation contractor to verify loading distribution diagram of supported equipment and frame equipment so the allowable loads are not exceeded.
- Main Rail and reaction shall not exceed 1150 lbs (1.160 Kip), installation contractor to verify the loading distribution diagram of supported equipment and frame equipment so the allowable loads are not exceeded.
- Maximum Gap between Main Rail and supporting roof framing shall be 1/4". Main Rail may be installed snug to supporting roof framing.
- See dimension table.

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**QuickFrames Installation**

QuickFrames installation and installation instructions can be found at www.quickframes.us.
### Maximum Opening Span

<table>
<thead>
<tr>
<th>Max Joist Span</th>
<th>Main Rails</th>
<th>Min Overlap</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 in</td>
<td>2.00 ft</td>
<td>16 in</td>
</tr>
<tr>
<td>30 in</td>
<td>2.50 ft</td>
<td>20 in</td>
</tr>
<tr>
<td>42 in</td>
<td>3.50 ft</td>
<td>18 in</td>
</tr>
<tr>
<td>36 in</td>
<td>3.00 ft</td>
<td>24 in</td>
</tr>
<tr>
<td>48 in</td>
<td>4.00 ft</td>
<td>22 in</td>
</tr>
<tr>
<td>54 in</td>
<td>4.50 ft</td>
<td>26 in</td>
</tr>
<tr>
<td>60 in</td>
<td>5.00 ft</td>
<td>30 in</td>
</tr>
<tr>
<td>66 in</td>
<td>5.50 ft</td>
<td>34 in</td>
</tr>
<tr>
<td>72 in</td>
<td>6.00 ft</td>
<td>38 in</td>
</tr>
<tr>
<td>78 in</td>
<td>6.50 ft</td>
<td>42 in</td>
</tr>
<tr>
<td>84 in</td>
<td>7.00 ft</td>
<td>46 in</td>
</tr>
<tr>
<td>90 in</td>
<td>7.50 ft</td>
<td>50 in</td>
</tr>
<tr>
<td>96 in</td>
<td>8.00 ft</td>
<td>54 in</td>
</tr>
<tr>
<td>102 in</td>
<td>8.50 ft</td>
<td>58 in</td>
</tr>
<tr>
<td>108 in</td>
<td>9.00 ft</td>
<td>62 in</td>
</tr>
<tr>
<td>120 in</td>
<td>10.00 ft</td>
<td>50 in</td>
</tr>
</tbody>
</table>

Note: Maximum Loads shown are for the QUICKFRAMES ADJUSTABLE FRAME only. Building code or engineering requirements must be checked by a registered structural engineer to ensure the proper load on the frame. This table does not override any building or engineering requirements and/or building codes.

### Optional Load

<table>
<thead>
<tr>
<th>Load Type</th>
<th>Load Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dead Load</td>
<td>20 PSF</td>
</tr>
<tr>
<td>Ltv Load</td>
<td>20 PSF</td>
</tr>
</tbody>
</table>

### Specifications

- **Wing Load (Maximum):** 90 MPH Exposure C (2003 to 2009 IBC) 115 MPH Exposure C (2012 to 2018 IBC) Building Ocean (4 Mile Height = 25 - 70) (See Note 5)
- **Seismic Load (Maximum):** Seismic Zone Category B | Se v=110 | Se + v =110 | 1.3
- **Snow Load (Maximum):** 20 PSF | 20 PSF (See Note 5)

### Notes

1. Maximum Frame Loads shown in the table are based on the above maximum design loads. Contact QUICKFRAMES if above loads are exceeded because site-specific loads may be applied.
2. Maximum Loads shown for all spans and material strengths do not exceed 1,700 lbs per linear foot of span.
3. Snow Loads are not included in design. All sizes of roof projections supported by the frame shall be less than 15 feet long per ASCE 7-05 and ASCE 5-05.
4. Deer/Live Loads are roof structure dead and live loads bearing on frame.
5. Dead/Live Loads are roof structure dead and live loads bearing on frame. Snow loads are not included in the standard design. Roof opening sizes vary by application. Any dead load remaining between the shear rails must be deducted from the loads shown in this table for allowable loading. Site-specific engineering is step available upon request.
6. QUICKFRAMES installation shall conform to the QUICKFRAMES Installation Instructions.
**NOTES**

1. OUTLINE OF MECH'L UNIT.
2. MAIN RAIL.
3. CROSS RAIL.
4. ROOF FRAMING MEMBER BY OTHERS.

**MULTIPLE QUICKFRAMES WITHIN SAME BAY SUPPORTED BY COMPLETE FRAMES MUST BE INSTALLED. SHARING RAILS IS NOT PERMITTED.**

**FOR A CONSERVATIVE CAPACITY, USE "LIGHT MACHINERY" COLUMN OF LOAD TABLE MULTIPLIED BY NUMBER OF COMPLETE FRAMES.**

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**03 ANGLE CONNECTOR DETAIL**

**NO SCALE**

FOR THE STABILITY AND DESIGN CAPACITY OF THE QUICKFRAMES ADJUSTABLE FRAME, THE METAL DECK IS NOT REQUIRED TO BE ATTACHED TO THE QUICKFRAMES ADJUSTABLE FRAME. HOWEVER, THE DESIGNER RECOMMENDS THE METAL DECK BE ATTACHED TO THE QUICKFRAMES ADJUSTABLE FRAME TO AVOID CORROSION. THE FOLLOWING ARE THREE ACCEPTABLE METHODS:

A. HILTI X-U SHOTPINS OR APPROVED EQUAL ARE AN ACCEPTABLE CONNECTION. IN ADDITION, ICC APPROVED SCREWS ARE AN ACCEPTABLE CONNECTION.

B. IF THE CONNECTION AREA IS ACCESSIBLE TO PERFORM PUDDLE WELDS, PUDDLE WELDS FROM THE DECK TO THE QUICKFRAMES ADJUSTABLE FRAME ARE AN ACCEPTABLE CONNECTION.

C. IF THE METAL DECK IS AT LEAST A MINIMUM OF 20 GAGE IN THICKNESS, 1/8" FILLET WELDS STITCHED ALONG THE BACKSIDE OF THE QUICKFRAMES ADJUSTABLE FRAME SECTION (AT THE BEND FROM THE FLANGE TO THE WEB) IS AN ACCEPTABLE CONNECTION.

**IN ADDITION, IN SEISMIC DESIGN CATEGORY C OR HIGHER, THE DECK SHALL BE ATTACHED TO THE MAIN RAIL AND CROSS RAIL FOR ONE OF THE THREE METHODS LISTED ABOVE.**

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**04 QUICK CONNECTION TO MAIN/CROSS RAILS**

**NO SCALE**

**NOTE:**

IF THE CONSERVATIVE LOAD CAPACITY CALCULATION FROM THIS DETAIL IS NOT SUFFICIENT FOR A SPECIFIC LOCATION, CONTACT QUICKFRAMES FOR A SITE SPECIFIC DESIGN.

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**05 QUICKFRAMES ROOF FRAME AT MULTIPLE OPENINGS**

**NO SCALE**

**NOTE:**

1. OUTLINE OF MECH'L UNIT.
2. MAIN RAIL.
3. CROSS RAIL.
4. ROOF FRAMING MEMBER BY OTHERS.

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**01 MAIN/CROSS RAIL**

**NO SCALE**

**NOTE:**

SEA NOTES ON FIRST PAGE FOR LOAD RESTRICTIONS.

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**02 END CONNECTOR DETAIL**

**NO SCALE**

**NOTE:**

SEA NOTES ON FIRST PAGE FOR LOAD RESTRICTIONS.