## RipTRAK Connections

### BlazeFrame® RipTRAK™ to stud connection

#### RipTRAK with ProSTUD / Non-Structural Wall Assembly

<table>
<thead>
<tr>
<th>RipTRAK Thickness (mils, ga)</th>
<th>Stud thickness (mils, ga)</th>
<th>ASD Allowable Load (lbs)</th>
<th>Clip</th>
</tr>
</thead>
<tbody>
<tr>
<td>33 mil (20ga)</td>
<td>15 mil (25ga EQ)</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td></td>
<td>18 mil (25ga EQ)</td>
<td>70</td>
<td>RTC-33</td>
</tr>
<tr>
<td></td>
<td>30 mil (20ga DW)</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td></td>
<td>30 mil (20ga)</td>
<td>85</td>
<td>RTC-33</td>
</tr>
<tr>
<td></td>
<td>33 mil (20ga)</td>
<td>85</td>
<td></td>
</tr>
</tbody>
</table>

#### RipTRAK with Structural Stud Wall Assembly

<table>
<thead>
<tr>
<th>RipTRAK Thickness (mils, ga)</th>
<th>Stud thickness (mils, ga)</th>
<th>ASD Allowable Load (lbs)</th>
<th>Clip</th>
</tr>
</thead>
<tbody>
<tr>
<td>33 mil (20ga)</td>
<td>33 mil (20ga)</td>
<td>85</td>
<td></td>
</tr>
<tr>
<td></td>
<td>43 mil (18ga)</td>
<td>85</td>
<td>RTC-54</td>
</tr>
<tr>
<td></td>
<td>54 mil (16ga)</td>
<td>85</td>
<td></td>
</tr>
<tr>
<td></td>
<td>68 mil (14ga)</td>
<td>85</td>
<td>RTC-54</td>
</tr>
</tbody>
</table>

### Notes:

1. Allowable loads are based on using 600S162 structural framing members or 600PDS125 nonstructural framing members spaced at 12" o.c. min.
2. Allowable loads are for RipTRAK systems using 6" deep studs and less.
3. A minimum of 2 fasteners spaced at 12" o.c. are required to secure the RipTRAK to the structure.
4. 1/8" Deflection Service Load limit is not included in allowable load.
5. Gap between web of RipTRAK and end of stud is half of total deflection. (As shown in details)
6. For assemblies not using RipTRAK clips (RTC), lateral bracing is required within 12" of the top of the stud to prevent wall studs from rotating. If a knockout is not spaced 12" from the top of the stud, use strapping and blocking or request a custom knockout pattern.
7. Increasing the RipTRAK thickness does not always achieve higher wall capacities. Stud limiting height or web crippling may control.
8. Stud members must be analyzed independently of the RipTRAK system. Stud failure modes (shear, web crippling, etc.) must be checked separately.

#### Calculating stud end reaction:

\[
\text{Stud End Reaction} = \frac{(lateral \ pressure \ PSF) \times (stud \ spacing \ FT) \times (stud \ span \ FT)}{2}
\]

Example: (5 PSF) x (1.33 FT) x (9.5 FT) / 2 = 31.7 lbs

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**Wall Assembly without RipTRAK Clips (RTC)**

**Wall Assembly using RipTRAK Clips (RTC)**

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**GAP BETWEEN RipTRAK AND FRAMING STUD**

1/2" FOR 1" TOTAL DEFLECTION

1" FOR 2" TOTAL DEFLECTION

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**1" & 2" MAX. TOTAL DEFLECTION**

With or Without RipTRAK Clips for 1HR and 2HR Profiles

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**For 2-1/2", 3-5/8" and 6" width RipTRAK systems only**

1" Max. Total Deflection

1/2" Extension + 1/2" Compression = 1" Max. Joint Width

2" Max. Total Deflection

1" Extension + 1" Compression = 2" Max. Joint Width