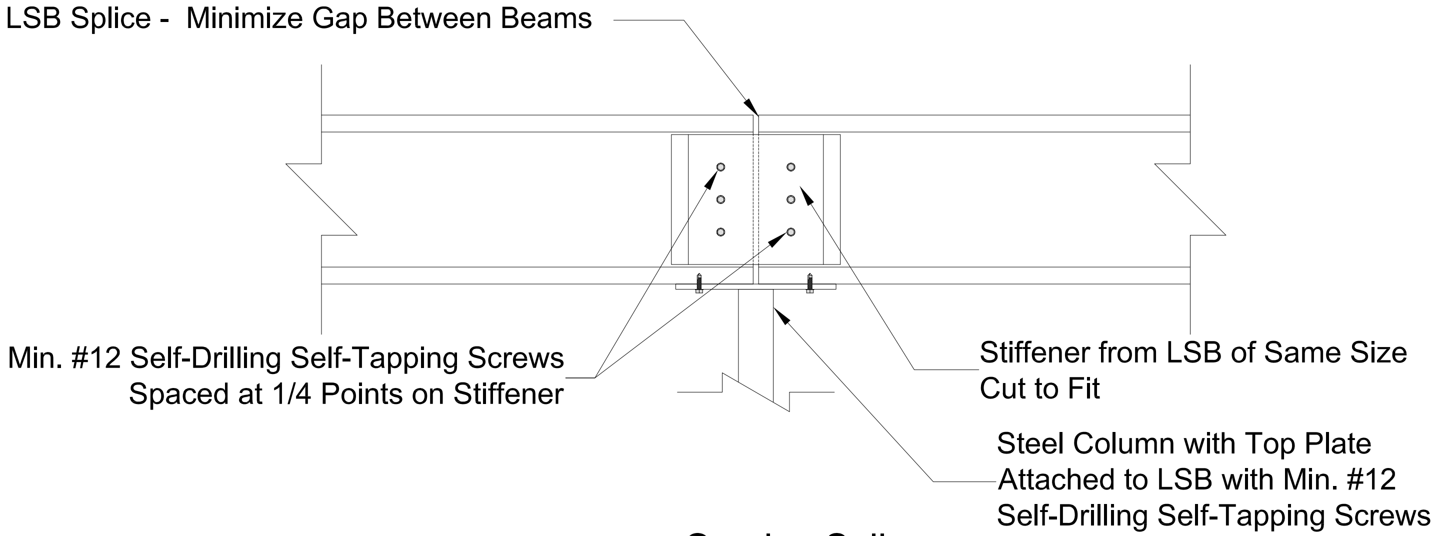
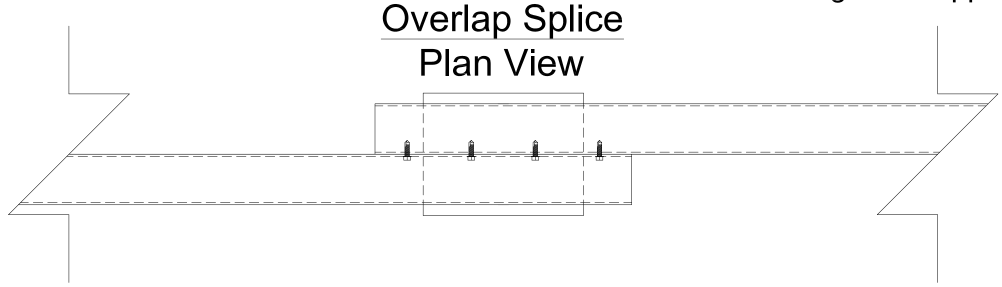
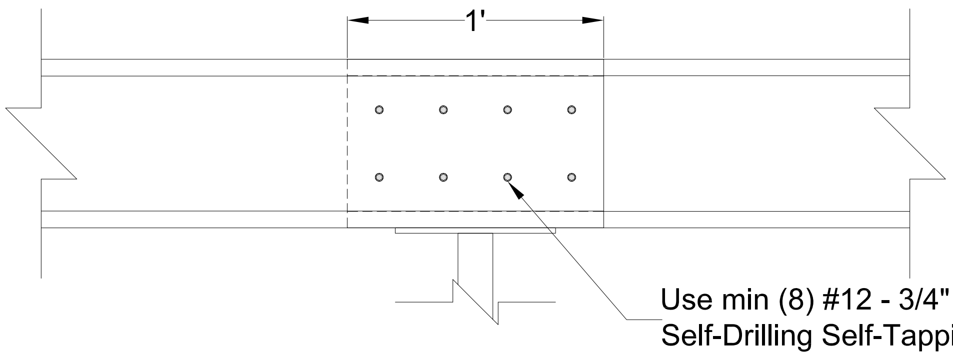
LSB Stiffener Splice



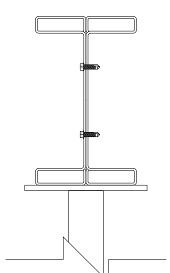
Overlap Splice
Plan View



Overlap Splice
Front View



Overlap Splice
Side View



Notes:
- Bearing can be Post, Wall, Bearing Beam, etc.
- When using "Overlap Splice", beams should overlap a minimum of 1 ft and should be completely over bearing.
- "Overlap Splice" is per UL assemblies L527 and L573. In other cases it may be acceptable to follow 2009 International Residential Code Figure R505.3.1(8) or applicable UL assembly.
- Stiffener has been not been shown in "Overlap Splice" for clarity, and may be required.
- Splices shown are not meant to provide composite action and do not create a continuous span.
- Beams should be designed independently of one another.
- Splices should not be made away from supports unless they are designed by a licensed design professional.

Rev A - Edited notes; added overlap splice.

- All LiteSteel Beam details are subject to local code provisions
- All components should be selected & installed per the individual component manufacturers' instructions.
- LiteSteel Technologies is not responsible for the performance of components not manufactured by LiteSteel Technologies.

LSB LiteSteelbeam	100 Smorgon Way Troutville, VA 24175 Phone : 540-992-1600 Fax: 540-992-5998 www.litesteelbeam.com sales@litesteelbeam.com	Description: Splice at Column LSB Stiffener Splice & Overlap Splice DRAWING NOT TO SCALE	Rev #: A Rev Date: 02/03/2011 Drawn By: AWN Checked By: JAM	Dwg #: 09-014 Dwg Date: 04/29/2009 Drawn By: AWN Checked By: JAM

TEK Screw Table - Steel to LSB
Allowable Loads per Screw (lbs)

<table>
<tr><td rowspan="20">Tension</td><td colspan="2"></td><td colspan="7">Thickness of Attachment</td></tr>
<tr><td colspan="2">Design</td><td>134</td><td>118</td><td>98</td><td>79</td><td>59</td><td>45</td><td>35</td></tr>
<tr><td colspan="2">Minimum</td><td>127</td><td>112</td><td>93</td><td>75</td><td>56</td><td>43</td><td>33</td></tr>
<tr><td colspan="2">Gage</td><td>10</td><td>11</td><td>12</td><td>14</td><td>16</td><td>18</td><td>20</td></tr>
<tr><td>Screw</td><td>LSB Gage</td><td colspan="7"></td></tr>
<tr><td rowspan="5">1/4</td><td>-134</td><td colspan="5">615</td><td rowspan="2">505</td><td rowspan="3">395</td></tr>
<tr><td>-118</td><td colspan="5">540</td></tr>
<tr><td>-098</td><td colspan="6">450</td></tr>
<tr><td>-079</td><td colspan="7">365</td></tr>
<tr><td>-059</td><td colspan="7">270</td></tr>
<tr><td rowspan="5">#12</td><td>-134</td><td colspan="5">515</td><td rowspan="2">380</td><td rowspan="4">295</td></tr>
<tr><td>-118</td><td colspan="5">455</td></tr>
<tr><td>-098</td><td colspan="6">380</td></tr>
<tr><td>-079</td><td colspan="6">305</td></tr>
<tr><td>-059</td><td colspan="7">225</td></tr>
<tr><td rowspan="5">#10</td><td>-134</td><td colspan="5">470</td><td rowspan="2">380</td><td rowspan="3">295</td></tr>
<tr><td>-118</td><td colspan="5">410</td></tr>
<tr><td>-098</td><td colspan="6">340</td></tr>
<tr><td>-079</td><td colspan="7">275</td></tr>
<tr><td>-059</td><td colspan="7">205</td></tr>
</table>

<table>
<tr><td rowspan="20">Shear</td><td colspan="2"></td><td colspan="7">Thickness of Attachment</td></tr>
<tr><td colspan="2">Design</td><td>134</td><td>118</td><td>98</td><td>79</td><td>59</td><td>45</td><td>35</td></tr>
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<tr><td>Screw</td><td>LSB Gage</td><td colspan="7"></td></tr>
<tr><td rowspan="5">1/4</td><td>-134</td><td colspan="5" rowspan="4">860</td><td rowspan="5">455</td><td rowspan="5">355</td></tr>
<tr><td>-118</td></tr>
<tr><td>-098</td></tr>
<tr><td>-079</td></tr>
<tr><td>-059</td><td colspan="5">650</td></tr>
<tr><td rowspan="5">#12</td><td>-134</td><td colspan="5" rowspan="4">665</td><td rowspan="5">380</td><td rowspan="5">300</td></tr>
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<tr><td>-059</td><td colspan="5">600</td></tr>
<tr><td rowspan="5">#10</td><td>-134</td><td colspan="5" rowspan="5">465</td><td rowspan="5">345</td><td rowspan="5">270</td></tr>
<tr><td>-118</td></tr>
<tr><td>-098</td></tr>
<tr><td>-079</td></tr>
<tr><td>-059</td></tr>
</table>

NOTES:
1. The maximum load is not to exceed the capacity of the LSB,attachment, or screws.
2. Allowable load values shown are the minimum values based on 2007 AISI NAS for both the connector and the connected material using Buildex TEK screws. Buildex TEK ultimate values can be found in the ITW Buildex 2009 Product Catalog.
3. Values for LSB and hangers 16 ga and thicker are based on members with a minimum yield strength of F_y= 50ksi and tensile strength of F_u=65ksi. For hangers or attachments with thickness of 18 ga and thinner values are based on members with a minimum yield strength of F_y= 33ksi and tensile strength F_u=45ksi.
4. A minimum of three threads must penetrate each member.

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Description: Screw Chart - Steel to LSB	Rev #: -	Dwg #: ATTCH.-1
	Rev Date: -	Dwg Date: 09/16/2009
	Drawn By: -	Drawn By: AWN
DRAWING NOT TO SCALE	Checked By: -	Checked By: JAM