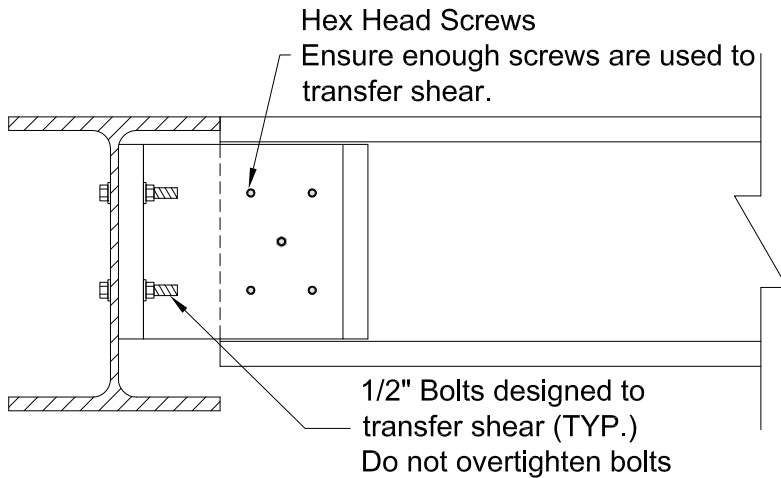
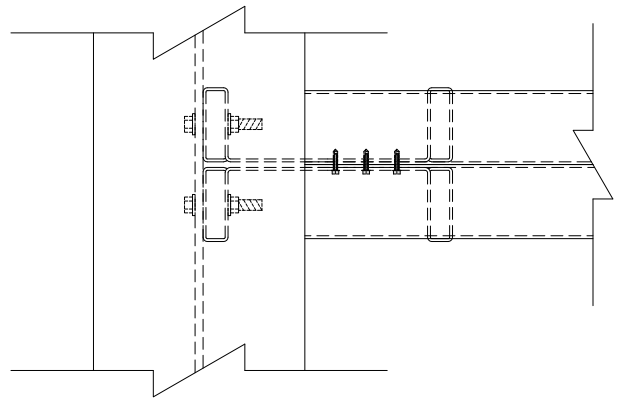


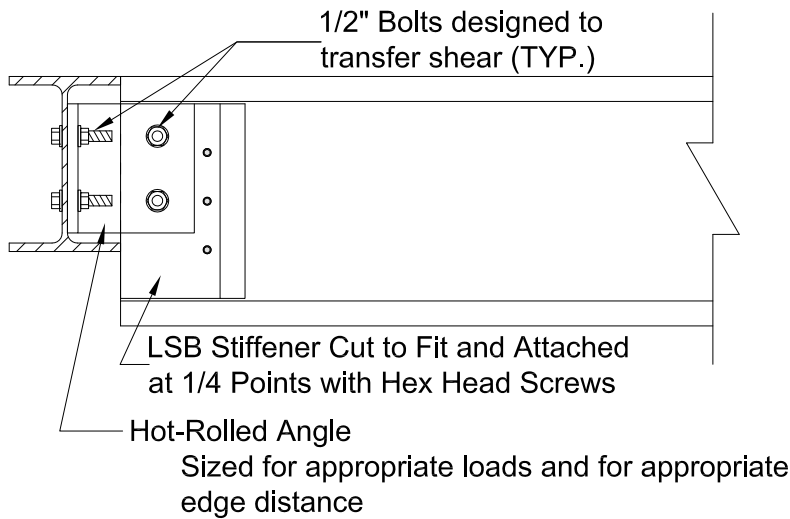
Equal Depth
Side View



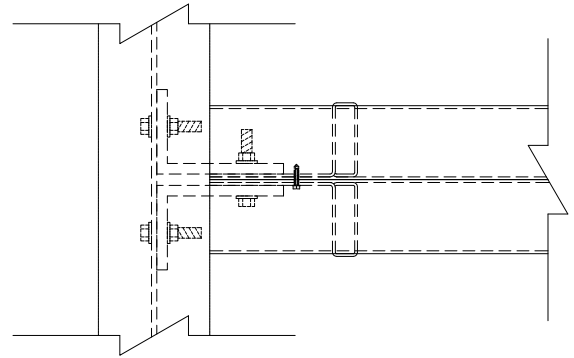
Equal Depth
Plan View



Different Depths
Side View



Different Depths
Plan View



NOTES:

- When Hot-Rolled Angle is used, LSB stiffener may not be required
-To be determined by design professional
- In lieu of bolting, welded connections are acceptable
-Weld should be designed by design professional
- Back to back beams are shown and should be included as required for loading requirements
- Number of bolts and screws are to be determined by design professional
- Hot-Rolled angle may be used when LSB and W-Shape are same depth if designed by a design professional

Rev. A - Included plan view; updated notes

- 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.



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Description:
LSB to W-Shape
DRAWING NOT TO SCALE

Rev #: A
Rev Date: 02/03/2011
Drawn By: AWN
Checked By: JAM

Dwg #: 09-016
Dwg Date: 04/30/2009
Drawn By: AWN
Checked By: JAM

TEK Screw Table - Steel to LSB

Allowable Loads per Screw (lbs)


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

Shear	Design	Thickness of Attachment						
		134	118	98	79	59	45	35
	Minimum Gage	127	112	93	75	56	43	33
Screw	LSB Gage	10	11	12	14	16	18	20
1/4	-134	860					455	355
	-118							
	-098							
	-079							
	-059	650						
#12	-134	665					380	300
	-118							
	-098							
	-079							
	-059	600						
#10	-134	465					345	270
	-118							
	-098							
	-079							
	-059							

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 $F_y = 50\text{ksi}$ and tensile strength of $F_u = 65\text{ksi}$. For hangers or attachments with thickness of 18 ga and thinner values are based on members with a minimum yield strength of $F_y = 33\text{ksi}$ and tensile strength $F_u = 45\text{ksi}$.
4. A minimum of three threads must penetrate each member.

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	100 Smorgon Way Troutville, VA 24175 Phone : 540-992-1600 Fax: 540-992-5998 www.litesteelbeam.com sales@litesteelbeam.com	Description: Screw Chart - Steel to LSB	Rev #: _____ - Rev Date: _____ - Drawn By: _____ - Checked By: _____ -	Dwg #: ATTCH.-1 Dwg Date: 09/16/2009 Drawn By: AWN Checked By: JAM
	DRAWING NOT TO SCALE			