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

Tension

Screw	LSB Gage	Design Thickness of Attachment						
		Design	134	118	98	79	59	45	35
		Minimum	127	112	93	75	56	43	33
		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

Screw	LSB Gage	Design Thickness of Attachment						
		Design	134	118	98	79	59	45	35
		Minimum	127	112	93	75	56	43	33
		Gage	**10**	**11**	**12**	**14**	**16**	**18**	**20**
1/4	-134								
	-118								
	-098		860					455	355
	-079								
	-059		650						
#12	-134								
	-118								
	-098		665					380	300
	-079								
	-059		600						
#10	-134								
	-118								
	-098		465					345	270
	-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= 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:	Drawing:	Dwg Date:	Rev:	Rev Date:	Drawn By:	Eng:	Mkg:
Screw Chart - Steel to LSB	Attch. 1	9/16/2009			Newland	Moses	Foxx

LSB LiteSteelbeam