

The MSH is field adjustable. The flanges can be used in top mount, face mount, or combination installations. An open back design allows installation after a member is placed in position.

Materials: See chart

Finish: G90 galvanizing

Codes: ESR-1831, FL567, FL822, Dade County, FL 08-0303.06, L.A. City RR 25836

Installation:

- Use all specified fasteners. See Product Notes, page 11.
- Web stiffeners are required for I-Joist installations.

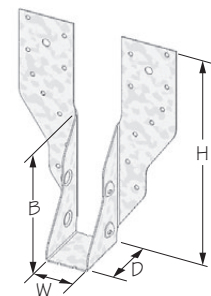
Mounting condition:

Face-Max – Figure 1. All header nails used should be driven into the wide face of the header.

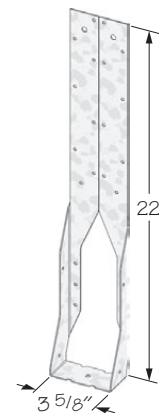
Top-Max – Figure 2. The hanger is installed in a top mount condition with at least six lower header face nail holes filled, and four top flange nails filled. The strap must wrap over the top at least 2”.

Top-Min – Figure 3. The hanger is installed in a top mount condition with at least the top two header face nail holes filled, and four top flange nail holes filled. The strap must wrap over the top at least 2” and the joist nails shall be installed straight into the joist for all models.

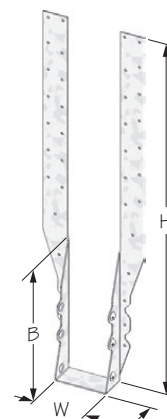
Combination – Figure 4. Face-Max values apply for the entire connection. Follow fastening directions above for the applicable mounting condition for each individual flange strap.



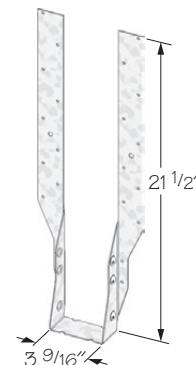
MSH



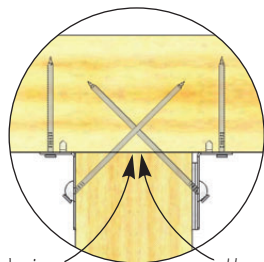
MSH422IF



MSH426



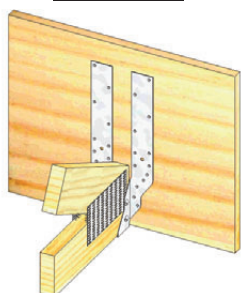
MSH422



Double shear nail design features fewer nails and faster installation

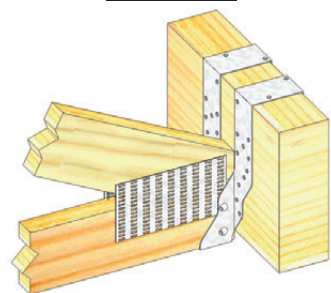
Uses standard length nails

Figure 1



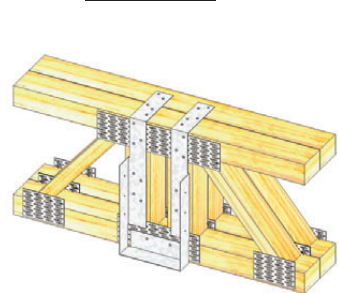
Typical MSH installation Face Mount Maximum

Figure 2



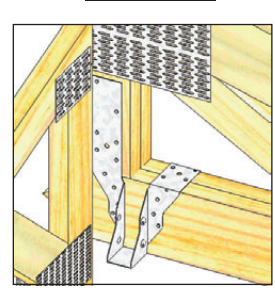
Typical MSH installation Top Mount Maximum

Figure 3



Typical MSH422-2IF installation Top Mount Minimum

Figure 4



Typical combination MSH installation

continued on next page

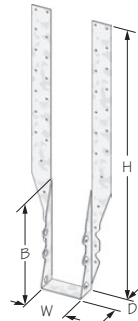
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Plated Truss

Plated Truss chart

Joist Material & Width	USP Stock No.	Ref. No.	Steel Gauge	Dimensions				Mounting Condition	Fastener Schedule ^{2,3}				Allowable Loads (Lbs.)						Code Ref.			
				W	D	H	B		Header		Joist		DF-L / SP			S-P-F						
									Top Qty	Face Qty	Type	Qty	Type	Floor	Roof	Uplift ¹	Floor	Roof		Uplift ¹		
				100%	115%	125%	160%		100%	115%	125%	160%										
2x Lumber or Trusses	MSH29	THA29	18	1-5/8	2-1/4	8-3/4	5	face-max	---	18	10d	4	10d	2445	2635	2680	785	1825	1885	1925	660	10, F2, F16, D12, R14
								top-max	4	6	10d	4	10d	2565	2635	2680	785	1825	1885	1925	660	
								top-min	4	2	10d	4	10d x 1-1/2	2425	2425	2425	---	1820	1880	1920	---	
2x Lumber or Trusses	MSH213	THA213	18	1-5/8	2-1/4	12-3/4	5	face-max	---	20	10d	4	10d	2565	2635	2680	785	1825	1885	1925	660	
								top-max	4	6	10d	4	10d	2565	2635	2680	785	1825	1885	1925	660	
								top-min	4	2	10d	4	10d x 1-1/2	2425	2425	2425	---	1820	1880	1920	---	
2x Lumber or Trusses	MSH218	THA218	18	1-5/8	2-1/4	16-3/4	5	face-max	---	26	10d	4	10d	2565	2635	2680	785	1825	1885	1925	660	
								top-max	4	6	10d	4	10d	2565	2635	2680	785	1825	1885	1925	660	
								top-min	4	2	10d	4	10d x 1-1/2	2425	2425	2425	---	1820	1880	1920	---	
2x Lumber or Trusses	MSH222	THA222	18	1-5/8	1-3/4	23	10-13/16	face-max	---	22	10d	4	10d x 1-1/2	2090	2155	2200	595	1505	1560	1600	500	
								top-max	4	6	10d	4	10d x 1-1/2	2090	2155	2200	595	1505	1560	1600	500	
								top-min	4	2	10d	4	10d x 1-1/2	2090	2155	2165	---	1505	1560	1600	---	
2-1/2" wide Floor Trusses	MSH322	THA322	18	2-9/16	1-3/4	22-1/2	10-3/8	face-max	---	22	10d	4	10d x 1-1/2	2200	2200	2200	595	1850	1850	1850	500	
								top-max	4	6	10d	4	10d x 1-1/2	2600	2600	2600	595	2185	2185	2185	500	
								top-min	4	2	10d	4	10d x 1-1/2	2165	2165	2165	---	1820	1820	1820	---	
(2) 2x Lumber or Trusses	MSH218-2	THA218-2	16	3-1/8	1-3/4	17-3/4	10-1/16	face-max	---	16	10d	4	10d	1855	2135	2320	605	1600	1840	2000	510	
								top-max	4	6	10d	4	10d	3430	3485	3485	605	2460	2550	2610	510	
								top-min	4	2	10d	4	10d	2210	2210	2210	---	1855	1855	1855	---	
(2) 2x Lumber or Trusses	MSH222-2	THA222-2	16	3-1/8	1-3/4	22-1/4	10-1/16	face-max	---	22	10d	4	10d	2550	2935	3190	605	2200	2530	2730	510	
								top-max	4	6	10d	4	10d	3430	3485	3485	605	2460	2550	2610	510	
								top-min	4	2	10d	4	10d	2210	2210	2210	---	1855	1855	1855	---	
3-1/2" wide Floor Trusses	MSH413	THA413	16	3-9/16	1-3/4	14	7-5/8	face-max	---	14	10d	6	10d	2210	2545	2765	1570	1900	2185	2375	1320	
								top-max	4	6	10d	6	10d	3525	3525	3525	1570	2955	2960	2960	1320	
								top-min	4	2	10d	6	10d	2025	2025	2025	---	1700	1700	1700	---	
3-1/2" wide Floor Trusses	MSH418	THA418	16	3-9/16	1-3/4	17-1/2	7-5/8	face-max	---	18	10d	6	10d	2675	3075	3345	1570	2300	2645	2875	1320	
								top-max	4	6	10d	6	10d	3525	3525	3525	1570	2955	2960	2960	1320	
								top-min	4	2	10d	6	10d	2025	2025	2025	---	1700	1700	1700	---	
3-1/2" wide Floor Trusses	MSH422	THA422, THA422	16	3-9/16	1-3/4	21-1/2	7-5/8	face-max	---	22	10d	6	10d	3140	3470	3470	1570	2700	2915	2915	1320	
								top-max	4	6	10d	6	10d	3525	3525	3525	1570	2955	2960	2960	1320	
								top-min	4	2	10d	6	10d	2025	2025	2025	---	1700	1700	1700	---	
3-1/2" wide Floor Trusses	MSH422IF	THAC418, THAC422	16	3-5/8	1-3/4	22	9-13/16	face-max	---	22	10d	4	10d	2550	2935	3190	605	2200	2530	2750	510	
								top-max	4	6	10d	4	10d	3430	3485	3485	605	2460	2550	2610	510	
								top-min	4	2	10d	4	10d	2210	2210	2210	---	1855	1855	1855	---	
3-1/2" wide Floor Trusses	MSH424	---	16	3-5/8	2	22	5-3/16	face-max	---	36	10d	6	10d	3960	3960	3960	1285	3325	3325	3325	1080	
								top-max	4	6	10d	6	10d	2965	2965	2965	1285	2490	2490	2490	1080	
								top-min	4	2	10d	6	10d	1550	1550	1550	---	1300	1300	1300	---	
3-1/2" wide Floor Trusses	MSH426, MSH426IF	THA426, THAC426	14	3-5/8	1-3/4	26	8	top-max	4	8	16d	6	16d	3855	3855	3855	1715	3050	3235	3235	1440	
								top-min	4	2	16d	6	16d	2735	2735	2735	---	2295	2295	2295	---	
								face-max	---	26	16d	6	16d	3665	4215	4585	1175	3145	3620	3935	985	
(2) 3-1/2" wide Floor Trusses	MSH422-2, MSH422-2IF	THA422-2, THAC422-2	14	7-1/4	2	22-1/8	11	top-max	4	10	16d	6	16d	4535	4585	4585	1175	3335	3515	3640	985	
								top-min	4	4	16d	6	16d	3690	3775	3830	---	2610	2680	2730	---	

1) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
 2) 10d x 1-1/2 nails are 9 gauge (0.148" diameter) by 1-1/2" long.
 3) Minimum nail penetration shall be 1-1/2" for 10d nails and 1-5/8" for 16d nails.



continued on next page

I-Joist, LVL, LSL, & PSL chart

Joist Material & Width	USP Stock No.	Ref. No.	Steel Gauge	Dimensions				Mounting Condition	Fastener Schedule ^{2,3}					Allowable Loads (Lbs.)							Code Ref.	
				W	D	H	B		Header			Joist		DF-L / SP			S-P-F					
									Top Qty	Face Qty	Type	Qty	Type	Floor	Roof	Uplift ¹	Floor	Roof	Uplift ¹			
				100%	115%	125%	160%		100%	115%	125%	160%										
2x Lumber or Trusses	MSH222	THAI222	18	1-5/8	1-3/4	23	10-13/16	face-max	---	22	10d	4	10d x 1-1/2	2090	2155	2200	595	1505	1560	1600	500	10, F2, F16, D12, R14
								top-max	4	6	10d	4	10d x 1-1/2	2090	2155	2200	595	1505	1560	1600	500	
								top-min	4	2	10d	4	10d x 1-1/2	2090	2155	2165	---	1505	1560	1600	---	
1-3/4" LVL or I-Joist	MSH1713	---	18	1-13/16	1-3/4	12-11/16	10-3/4	face-max	---	12	10d	4	10d	1370	1575	1710	595	1175	1350	1470	500	10, F16, R14
								top-max	4	6	10d	4	10d	2370	2440	2485	595	1695	1750	1790	500	
								top-min	4	2	10d	4	10d x 1-1/2	2165	2165	2165	---	1690	1750	1785	---	
1-3/4" LVL or I-Joist	MSH1722	THAI1.81/22	18	1-13/16	1-3/4	22-7/8	10-3/4	face-max	---	22	10d	4	10d x 1-1/2	2200	2200	2200	595	1690	1750	1785	500	10, F16, R14
								top-max	4	6	10d	4	10d x 1-1/2	2360	2430	2475	595	1690	1750	1785	500	
								top-min	4	2	10d	4	10d x 1-1/2	2165	2165	2165	---	1690	1750	1785	---	
2-5/16" wide I-Joist	MSH2322	THAI3522	18	2-3/8	1-3/4	22-5/8	10-7/16	face-max	---	22	10d	4	10d x 1-1/2	2200	2200	2200	595	1850	1850	1850	500	10, F2, F16, D12, R14
								top-max	4	6	10d	4	10d x 1-1/2	2600	2600	2600	595	2110	2165	2185	500	
								top-min	4	2	10d	4	10d x 1-1/2	2165	2165	2165	---	1820	1820	1820	---	
2-1/2" wide Floor Trusses	MSH322	THAI322	18	2-9/16	1-3/4	22-1/2	10-3/8	face-max	---	22	10d	4	10d x 1-1/2	2200	2200	2200	595	1850	1850	1850	500	10, F2, F16, D12, R14
								top-max	4	6	10d	4	10d x 1-1/2	2600	2600	2600	595	2185	2185	2185	500	
								top-min	4	2	10d	4	10d x 1-1/2	2165	2165	2165	---	1820	1820	1820	---	
3-1/2" wide Floor Trusses	MSH413	THA413	16	3-9/16	1-3/4	14	7-5/8	face-max	---	14	10d	6	10d	2210	2545	2765	1570	1900	2185	2375	1320	10, F2, F16, D12, R14
								top-max	4	6	10d	6	10d	3525	3525	3525	1570	2955	2960	2960	1320	
								top-min	4	2	10d	6	10d	2025	2025	2025	---	1700	1700	1700	---	
3-1/2" wide Floor Trusses	MSH418	THA418	16	3-9/16	1-3/4	17-1/2	7-5/8	face-max	---	18	10d	6	10d	2675	3075	3345	1570	2300	2645	2875	1320	10, F2, F16, D12, R14
								top-max	4	6	10d	6	10d	3525	3525	3525	1570	2955	2960	2960	1320	
								top-min	4	2	10d	6	10d	2025	2025	2025	---	1700	1700	1700	---	
3-1/2" wide Floor Trusses	MSH422	THA422, THAI422	16	3-9/16	1-3/4	21-1/2	7-5/8	face-max	---	22	10d	6	10d	3140	3470	3470	1570	2700	2915	2915	1320	10, F2, F16, D12, R14
								top-max	4	6	10d	6	10d	3525	3525	3525	1570	2955	2960	2960	1320	
								top-min	4	2	10d	6	10d	2025	2025	2025	---	1700	1700	1700	---	
3-1/2" wide Floor Trusses	MSH422IF	THAC418, THAC422	16	3-5/8	1-3/4	22	9-13/16	face-max	---	22	10d	4	10d	2550	2935	3190	605	2200	2530	2750	510	10, D9, R14
								top-max	4	6	10d	4	10d	3430	3485	3485	605	2460	2550	2610	510	
								top-min	4	2	10d	4	10d	2210	2210	2210	---	1855	1855	1855	---	
3-1/2" wide Floor Trusses	MSH424	---	16	3-5/8	2	22	5-3/16	face-max	---	36	10d	6	10d	3960	3960	3960	1285	3325	3325	3325	1080	10, F16, D9, R14
								top-max	4	6	10d	6	10d	2965	2965	2965	1285	2490	2490	2490	1080	
								top-min	4	2	10d	6	10d	1550	1550	1550	---	1300	1300	1300	---	
3-1/2" wide Floor Trusses	MSH426 MSH426IF	THA426 THAC426	14	3-5/8	1-3/4	26	8	top-max	4	8	16d	6	16d	3855	3855	3855	1715	3050	3235	3235	1440	10, D9, R14
								top-min	4	2	16d	6	16d	2735	2735	2735	---	2295	2295	2295	---	
4-5/8" wide I-Joist	MSH2322-2	---	16	4-3/4	1-3/4	22	9-1/4	face-max	---	46	10d	4	10d	3365	3365	3365	605	2825	2825	2825	510	10, D9, R14
								top-max	4	6	10d	4	10d	2885	2990	3060	605	2090	2180	2240	510	
								top-min	4	2	10d	4	10d	2210	2210	2210	---	1690	1720	1740	---	
4-5/8" wide I-Joist	MSH2622-2	---	16	5-3/8	1-3/4	22	9-1/4	face-max	---	46	10d	4	10d	3365	3365	3365	605	2825	2825	2825	510	10, D9, R14
								top-max	4	6	10d	4	10d	2885	2990	3060	605	2090	2180	2240	510	
								top-min	4	2	10d	4	10d	2210	2210	2210	---	1690	1720	1740	---	

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 New products or updated product information are designated in **bold font**.

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