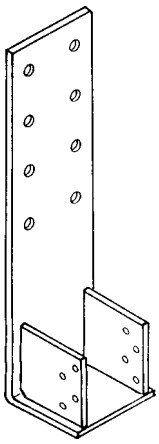
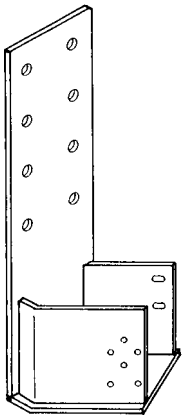
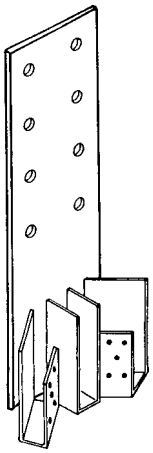
BUCKET HANGERS



BH-5



BHS-5



BHT-2

TRUSS TO TRUSS HEAVY LOAD HANGERS

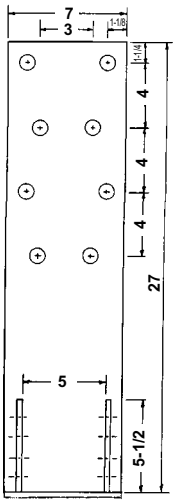
Square-Skewed-Hip & Jack-Terminal Radial Member

BH Bucket Hangers bolt to 2x8 min. webs.
BHR Radial Hangers for multiple members.
BHS Hangers are skewed 45°, specify right or left hand.
BHJ Hangers carry 2 ply hip truss and end jack.
BHT Terminal Hangers accept 45° hips, one or two ply, plus single ply end jack. Bolting plate is 1/4 x 7 x 27 high.

MATERIAL: BH, BHS & BHJ all 1/4" A-36 steel. BHT pockets are 3/16" A-36 steel.
FINISH: Black copolymer finish.

CAUTION - 2 x 8 maximum bottom chord on carrying girder. Skewed version requires special location of web.

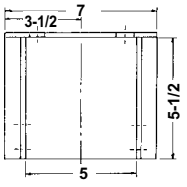
WARNING - all girder plys must be securely fastened together to act as one unit and the hanger bolts are not to be considered for this purpose.



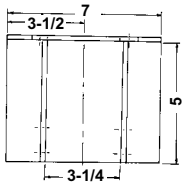
BH-5

Bucket Hangers				Southern Pine or Douglas Fir Normal Loads*				Spruce-Pine-Fir Normal Loads*			
Hanger Part No.	Pocket Size	Pocket Nails	Girder Bolts	Length of Bolt in Carrying Member			Wind Uplift	Length of Bolt in Carrying Member			Wind Uplift
				1-1/2	3	4-1/2		1-1/2	3	4-1/2	
BH-3	3-1/4 x 5-1/2	(8) 10d	6-3/4"	5160	8520	8960	1255	4140	6000	7260	1020
BH-5	4-3/4 x 5-1/2	(8) 10d	8-3/4"	6880	11360	12360	1255	5520	8000	11200	1020
BH-6	6-1/2 x 5-1/2	(8) 10d	8-3/4"	6880	11360	12360	1255	5520	8000	11200	1020
Micro = Lam Carried Member											
BH-3ML	3-3/4 x 5-1/2	(8) 10d	6-3/4"	5160	8520	9270	1255	4140	6000	8400	1255
BH-5ML	5-1/2 x 5-1/2	(8) 10d	8-3/4"	6880	11360	12360	1255	5520	8000	11200	1255
BHS-3	3-1/4 x 7-1/4	(8) 10d	8-3/4"	5850	8960	8960	1255	4690	6800	7260	1020
BHS-5	4-3/4 x 7-1/4	(8) 10d	8-3/4"	5850	9660	10500	1255	4690	6800	9520	1020
BHJ-3	—	—	8-3/4"	—	—	—	1540	—	—	—	1255
2 Ply Hip	3-1/4 x 7-1/4	(8) 10d	—	4390	7460	8960	1255	3520	5100	7260	1020
1 Ply Jack	1-5/8 x 7-1/4	(2) 10d	—	1460	2200	2200	285	1170	1700	1810	235
BHT-2	1-5/8 x 7-1/4	(5) 10d	8-3/4"	2290	3780	3940	715	1840	2670	3190	585
1 Ply	1-5/8 x 7-1/4	—	—	2290	3780	3940	—	1840	2670	3190	—
1 Ply	1-5/8 x 7-1/4	(5) 10d	—	2290	3780	3940	715	1840	2670	3190	585
BHT-3	3-1/4 x 7-1/4	(4) 10d	8-3/4"	2940	5080	5580	625	2160	3400	5000	510
1 Ply	1-5/8 x 7-1/4	—	—	1200	1200	1200	—	1200	1200	1200	—
2 Ply	3-1/4 x 7-1/4	(4) 10d	—	2840	5080	5580	625	2160	3400	5000	510

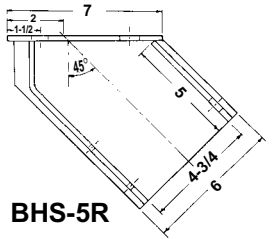
Available with or without bolts. See page 44.



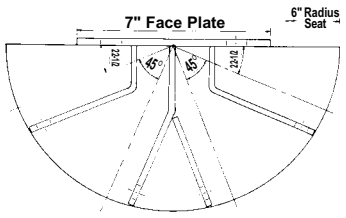
BH-5



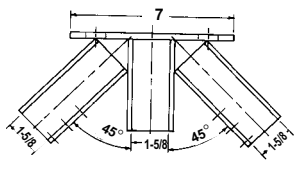
BH-3



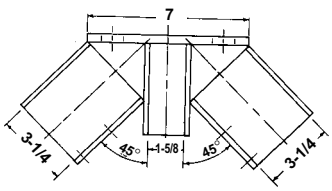
BHS-5R



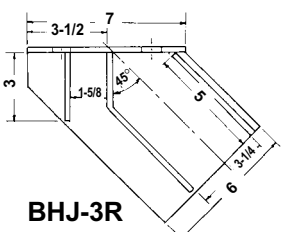
BHR-4 RADIAL



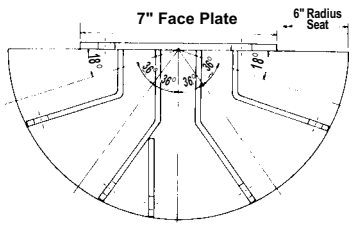
BHT-2



BHT-3

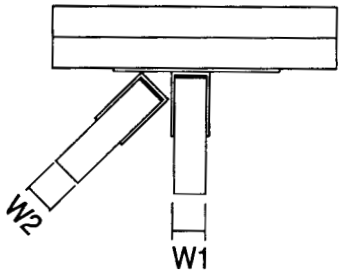


BHJ-3R

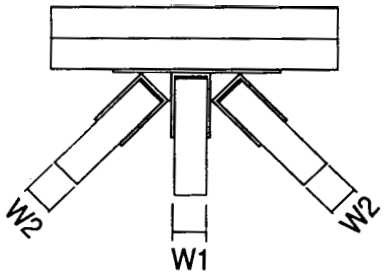


BHR-5 RADIAL

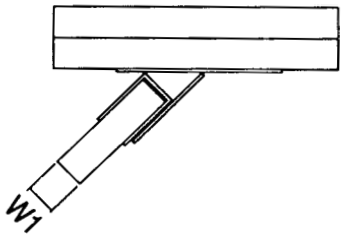
GIRDER HANGERS



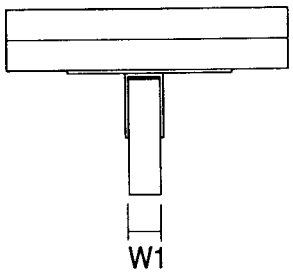
GHTL
GHTL2
(GHTR, and GHTR2 similar)



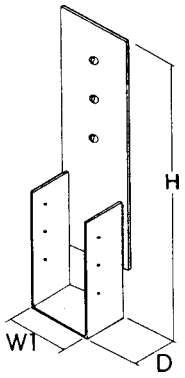
GHLTR
GH2LT2R



GHL
(GHR similar)



GHT



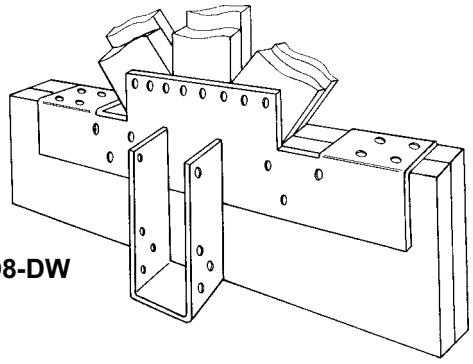
GHT2

Girder Hangers are medium duty hangers for girder-to-girder applications. Bolts are listed in fastener section of catalog.

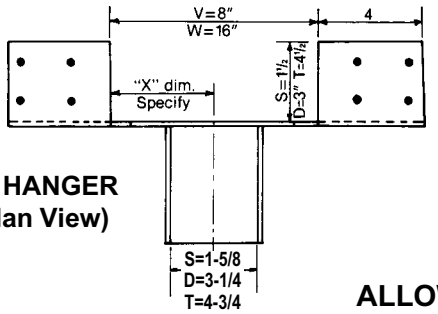
MATERIAL: Back plates are made of 3-gauge A-36 steel, stirrup seats are made of 7-gauge A-36 steel.
FINISH: Black copolymer paint.

Part Number	Dimensions				Bolts	Nails	Southern Yellow Pine				Spruce-Pine-Fur			
	W1	W2	H	D			1-Ply	2-Ply	3-Ply	Wind Uplift	1-Ply	2-Ply	3-Ply	Wind Uplift
GHT-2	3-1/4	—	21-3/4	3	(3) 3/4	(8) 10d	2400	4490	4906	1340	1925	3515	4365	1072
GHT-3	4-7/8	—	18-3/4	3	(4) 3/4	(8) 10d	3370	6175	6600	1340	2705	4830	5880	1072
GHT-4	6-1/2	—	21-1/2	3	(6) 3/4	(8) 10d	4950	9080	9800	1340	3975	7100	8730	1072
GHL GHR	3-7/8	—	18-3/4	3-1/2	(4) 3/4	(8) 10d	3405	6175	6600	1340	2730	4830	5880	1072
GHTL GHTR	1-5/8	1-5/8	18-3/4	3-1/2	(4) 3/4	(8) 10d x 1-1/2	3405	6175	6600	980	2730	4830	5880	785
GHTL2 GHTR2	1-5/8	3-1/4	18-3/4	3-1/2	(4) 3/4	(8) 10d x 1-1/2	3405	6175	6600	980	2730	4830	5880	785
GHLTR	1-5/8	1-5/8	18-3/4	3-1/2	(4) 3/4	(8) 10d x 1-1/2	3405	6175	6600	980	2730	4830	5880	785
GHLT2R	1-5/8	3-1/4	21-3/4	3-1/2	(6) 3/4	(8) 10d x 1-1/2	4950	9080	9800	980	3975	7100	8730	785

GIRDER TRUSS HANGERS



GT-D8-DW



GT HANGER
(Plan View)

S=1-5/8
D=3-1/4
T=4-3/4

GT GIRDER TRUSS HANGER

Cleveland heavy-duty GT Hangers are the largest capacity nail-on hangers available. Select the part number that corresponds to your pocket needs and carrier chord conditions. Specify "X" dimension for off-center applications.

MATERIAL: 3/16" A-36 steel.
FINISH: Black copolymer paint.

How To Order By Part Number

GT	–	D 8	–	D W	Specify "X" dimension
HJ	–	S 6	–	S W	Specify "X" dimesnion

- Style: GT= Girder Truss, HJ= Hip & Jack
- Carrier Depth (nominal)
- Hip Ply or Carried Member
- Header Ply
- Opening Between Top Flanges
- V = 8", W = 16"

PFS®

ALLOWABLE LOADS FOR GT HANGERS

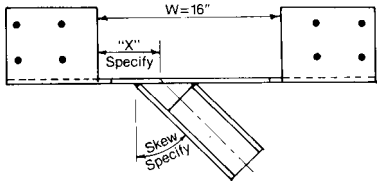
Part Number	Hanger Size	Seat Depth	Nail Schedule			Allowable Loads		
			Top Nails	Face Nails	Pocket Nails	Normal	115%	125%
GT-S6 / 8-SV	1.6 x 5-1/2 & 7-1/4	5	(4) 16d	(10) 16d	(8) 10d	*4100	*4300	*4435
GT-S6 / 8-SW	1.6 x 5-1/2 & 7-1/4	5	(4) 16d	(10) 16d	(8) 10d	*4100	*4300	*4435
GT-S10-SW	1.6 x 9-1/4	5	(4) 16d	(10) 16d	(8) 10d	*4100	*4300	*4435
GT-S6 / 8-DV	1.6 x 5-1/2 & 7-1/4	5	(8) 16d	(10) 16d	(8) 10d x 1-1/2	5060	5185	5265
GT-S6 / 8-DW	1.6 x 5-1/2 & 7-1/4	5	(8) 16d	(10) 16d	(8) 10d x 1-1/2	5060	5185	5265
GT-S10-DW	1.6 x 9-1/4	5	(8) 16d	(10) 16d	(8) 10d x 1-1/2	5060	5185	5265
GT-D6 / 8-DV	3.2 x 5-1/2 & 7-1/4	4	(8) 16d	(10) 16d	(8) 10d	5775	5775	5775
GT-D6 / 8-DW	3.2 x 5-1/2 & 7-1/4	4	(8) 16d	(10) 16d	(8) 10d	5775	5775	5775
GT-D10 / 12-DW	3.2 x 9-1/4 & 11-1/4	4	(8) 16d	(10) 16d	(8) 10d	5775	5775	5775
GT-D6 / 8-TW	3.2 x 5-1/2 & 7-1/4	4	(12) 16d	(10) 16d	(8) 10d	6460	6600	6700
GT-D10 / 12-TW	3.2 x 9-1/4 & 11-1/4	4	(12) 16d	(10) 16d	(8) 10d	6460	6600	6700
GT-T6 / 8-TW	4.7 x 5-1/2 & 7-1/4	4	(12) 16d	(10) 16d	(8) 10d	6700	6700	6700
GT-T10 / 12-TW	4.7 x 9-1/4 & 11-1/4	4	(12) 16d	(10) 16d	(8) 10d	6700	6700	6700

1. The 1.6" and 3.2" sizes are plated trusses, single and double ply respectively.
2. The 10d x 1-1/2" nails are No. 9 gauge joist hanger nails. All other nails are common nails.
3. The appropriate allowable downward loads (Normal, 115%, and 125%) shall be selected based on duration of load in accordance with the stress increases permitted by the applicable Code.
4. Allowable loads are based on 565 psi bearing and nail values for Douglas Fir-Larch.
5. Top flanges are 4" wide x 3" long.

When the girder has only a single vertical web, change the "W" suffix to "V" for an 8" opening and cost savings.
*Face nails must be clinched on single ply carrier chord to achieve these loads.
Uplift already increased 33%. No further increase allowed.
For Spruce-Pine-Fir, reduce these load ratings by 20%.
Code Report: BOCA, ICBO. SBCCI No. NER 464.

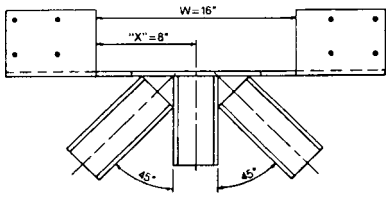
SPECIAL APPLICATIONS

GTS SKEWED



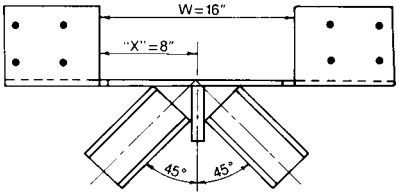
GTS (Plan View)

HJH TERMINAL W/JACK



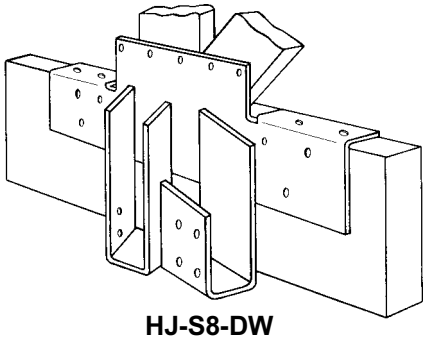
HJH (Plan View)

HTH TERMINAL



HTH (Plan View)

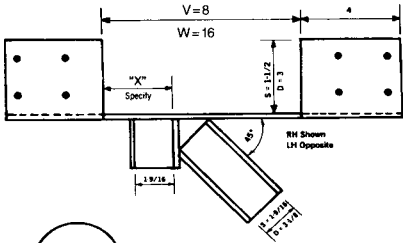
HIP & JACK HANGERS - HEAVY DUTY



HJ-S8-DW

Hip and jack pockets welded to carrier plates that mount to single, double or triple ply girders. Find the part number that matches the number of plys and depth of girder chord. Specify "X" dimension if off-center arrangement desired, right or left hand.

MATERIAL: 3/16" A-36 steel.
FINISH: Black copolymer paint.



HJ (Plan View)

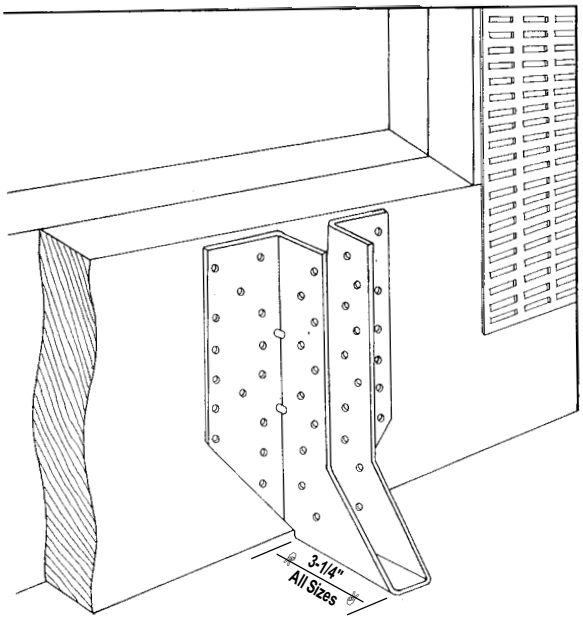
ALLOWABLE LOADS FOR HJ HANGERS

Part Number	Hanger Size	Seat Depth	Nail Schedule			Allowable Loads		
			Top Nails	Face Nails	Pocket Nails	Normal	115%	125%
HJ-S6 / 8-SW	1.6 x 5-1/2 & 7-1/4	5	(4) 16d	(8) 16d	HIP (5) 10d x 1-1/2 JACK (2) 10d x 1-1/2	2880	3000	3000
HJ-S10 / 12-SW	1.6 X 9-1/4 & 11-1/4	4	(4) 16d	(8) 16d	HIP (5) 10d x 1-1/2 JACK (2) 10d x 1-1/2	2880	3000	3000
HJ-S6 / 8-DW	1.6 x 5-1/2 & 7-1/4	5	(8) 16d	(10) 16d	HIP (5) 10d x 1-1/2 JACK (2) 10d x 1-1/2	5650	5650	5650
HJ-S10 / 12-DW	1.6 x 5-1/2 & 7-1/4	5	(8) 16d	(10) 16d	HIP (5) 10d x 1-1/2 JACK (2) 10d x 1-1/2	5650	5650	5650
HJ-S6 / 8-TW	1.6 x 5-1/2 & 7-1/4	5	(12) 16d	(12) 16d	HIP (5) 10d x 1-1/2 JACK (2) 10d x 1-1/2	2880	3000	3000
HJ-S10 / 12-TW	1.6 x 9-1/4 & 11-1/4	5	(12) 16d	(12) 16d	HIP (5) 10d x 1-1/2 JACK (2) 10d x 1-1/2	2880	3000	3000
HJ-D6 / 8-SW	3.2 x 5-1/2 & 7-1/4	4	(4) 16d	(8) 16d	HIP (4) 10d JACK (2) 10d x 1-1/2	2880	3000	3000
HJ-D10 / 12-SW	3.2 x 9-1/4 & 11-1/4	4	(4) 16d	(8) 16d	HIP (4) 10d JACK (2) 10d x 1-1/2	2880	3000	3000
HJ-D6 / 8-DW	3.2 x 5-1/2 & 7-1/4	4	(8) 16d	(10) 16d	HIP (4) 10d JACK (2) 10d x 1-1/2	5775	5775	5775
HJ-D10 / 12-DW	3.2 x 9-1/4 & 11-1/4	4	(8) 16d	(10) 16d	HIP (4) 10d JACK (2) 10d x 1-1/2	5775	5775	5775
HJ-D6 / 8-TW	3.2 x 5-1/2 & 7-1/4	4	(12) 16d	(12) 16d	HIP (4) 10d JACK (2) 10d x 1-1/2	6580	6780	6780
HJ-D10 / 12-TW	3.2 x 9-1/4 & 11-1/4	4	(12) 16d	(12) 16d	HIP (4) 10d JACK (2) 10d x 1-1/2	6580	6780	6780
HJ-T6 / 8-SW	4.7 x 5-1/2 & 7-1/4	4	(4) 16d	(8) 16d	HIP (4) 10d JACK (2) 10d x 1-1/2	2880	3000	3000
HJ-T10 / 12-SW	4.7 x 9-1/4 & 11-1/4	4	(4) 16d	(8) 16d	HIP (4) 10d JACK (2) 10d x 1-1/2	2880	3000	3000
HJ-T6 / 8-DW	4.7 x 5-1/2 & 7-1/4	4	(8) 16d	(10) 16d	HIP (4) 10d JACK (2) 10d x 1-1/2	5775	5775	5775
HJ-T10 / 12-DW	4.7 x 9-1/4 & 11-1/4	4	(8) 16d	(10) 16d	HIP (4) 10d JACK (2) 10d x 1-1/2	5775	5775	5775
HJ-T6 / 8-TW	4.7 x 5-1/2 & 7-1/4	4	(12) 16d	(12) 16d	HIP (4) 10d JACK (2) 10d x 1-1/2	6580	6780	6780
HJ-T10 / 12-TW	4.7 x 9-1/4 & 11-1/4	4	(12) 16d	(12) 16d	HIP (4) 10d JACK (2) 10d x 1-1/2	6580	6780	6780

1. The 1.6" and 3.2" sizes are plated trusses, single and double ply respectively.
2. The 10d x 1-1/2" nails are No. 9 gauge joist hanger nails. All other nails are common nails.
3. The appropriate allowable downward loads (Normal, 115%, and 125%) shall be selected based on duration of load in accordance with the stress increases permitted by the applicable Code.
4. Allowable loads reported for the HJ hangers are total loads (jack load plus hip load). Minimum hip and jack loads are 3/4 and 1/4 respectively of the tabulated total load.
5. Allowable loads are based on 565 psi bearing and nail values for Douglas Fir-Larch.
6. Top flanges are 4" wide x 3" long.

For Spruce-Pine-Fir, reduce loads 20%. Uplift already increased by 33%, no further increase allowed.
Seat bearing is 5" for single ply hip, 4" for double ply, 2-1/2" for all jacks.
Code Report: BOCA, ICBO. SBCCI No. NER 464.

HEAVY DUTY TRUSS HANGER

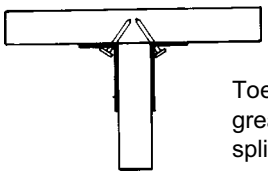


HJU HEAVY DUTY FACEMOUNT

A facemount hanger that satisfies most truss to truss applications. Available for single, double and triple plys.

CAUTION: Always use a hanger that is the same depth as the girder chord. Do not use HJU 26 on 2x8 or 2x10.

MATERIAL: 16 ga. or 14 ga.
FINISH: Galvanized G60.



Toe-nail feature yields greater loads without splitting trusses.

ALLOWABLE LOADS FOR HJU HANGER

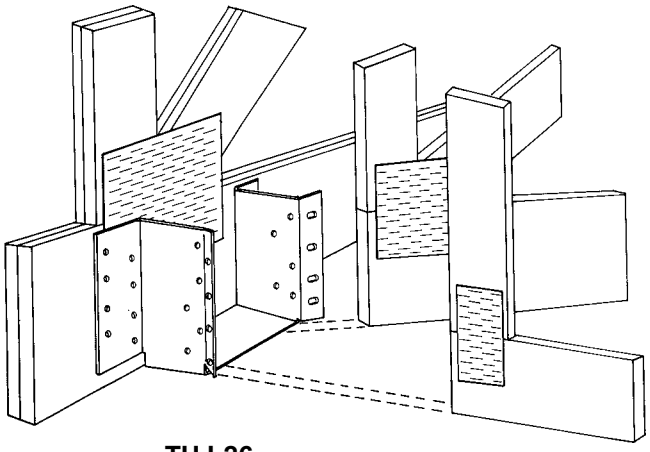
Part Number	Size	Southern Yellow Pine Allowable Loads (lbs.) @565 psi				Spruce Pine-Fir Allowable Loads (lbs.) @425 psi				Steel Gauge	Nail Schedule	
		Normal 100%	115%	125%	Uplift	Normal 100%	115%	125%	Uplift		Carrying Member	Carried Member
HJU-26	1-5/8 x 5	2625	3020	3285	1355	2085	2400	2610	1090	16	(18) 16d	(10) 10d x 1-1/2
HJU-28	1-5/8 x 7	4085	4395	4540	1900	3220	3390	3505	1525	16	(28) 16d	(14) 10d x 1-1/2
HJU-210	1-5/8 x 9	4795	5100	5300	2710	3710	3955	4120	2180	16	(36) 16d	(20) 10d x 1-1/2
HJU(2)26	3-1/4 x 5	2645	3040	3305	1380	2120	2440	2655	1315	14	(18) 16d	(10) 10d
HJU(2)28	3-1/4 x 7	4115	4730	5145	1660	3300	3800	4130	1580	14	(28) 16d	(12) 10d
HJU(2)210	3-1/4 x 9	5290	6085	6615	1935	4245	4885	5310	1840	14	(36) 16d	(14) 10d
HJU(3)26	4-3/4 x 5	2645	3040	3305	1380	2120	2440	2655	1315	14	(18) 16d	(10) 10d
HJU(3)28	4-3/4 x 7	4115	4730	5145	1660	3300	3800	4130	1580	14	(28) 16d	(12) 10d
HJU(3)210	4-3/4 x 9	5290	6085	6615	1935	4245	4885	5310	1840	14	(36) 16d	(14) 10d
HJU 1.75/7.00	1-3/4 x 7	4085	4700	4995	1900	3245	3735	4060	1527	16	(28) 16d	(14) 10d x 1-1/2
HJU 1.75/9.00	1-3/4 x 9	5250	5560	5760	2710	4175	4800	5220	2181	16	(36) 16d	(20) 10d x 1-1/2
HJU 3.50/7.00	3-1/2 x 7	4115	4730	5145	1660	3300	3800	4130	1580	14	(28) 16d	(12) 10d
HJU 3.50/9.00	3-1/2 x 9	5290	6085	6615	1935	4245	4885	5310	1840	14	(36) 16d	(14) 10d
HJU 5.25/4.75	5-1/4 x 4-3/4	2645	3040	3305	1380	2120	2440	2655	1315	14	(18) 16d	(10) 10d
HJU 5.25/6.75	5-1/4 x 6-3/4	4115	4730	5145	1660	3300	3800	4130	1580	14	(28) 16d	(12) 10d
HJU 5.25/8.75	5-1/4 x 8-3/4	5290	6085	6615	1935	4245	4885	5310	1840	14	(36) 16d	(14) 10d

Code Report: BOCA, ICBO, SBCCI No. NER 464.

1. Tabulated allowed load values are based on the following:
   - Applicable only for Southern Yellow Pine, when connectors are used with lumber having specific gravity equal to or greater than 0.55 and an allowable compression perpendicular-to-grain value equal to or greater than 565 psi (Southern Pine except non-dense grades).
   - Applicable only for Spruce-Pine Fir when connectors are used with lumber having a specific gravity equal to or greater than 0.42 and an allowable compression perpendicular-to-grain value equal to or greater than 425 psi.
   - Douglas Fir-Larch lumber is permitted by reducing the values applicable to Southern Pine by 9 percent.
   - For other structural wood members (LVL, PSI, ect.) the appropriate allowable load column shall be selected based on the allowable compression perpendicular-to-grain, value and the allowable nail loads of the material used as compared to sawn lumber in the column selected.
2. Uplift loads are for wind only and contain applicable stress increases (no further increases are permitted.)
   - To achieve allowable load, all the 16d common nails that are specified must be used including the toe-nails in the corner holes.
   - The 10d by 1-1/2 inch nails are No. 9 gauge joist hanger nails.

All other nails are common nails.

HIP & JACK HANGERS



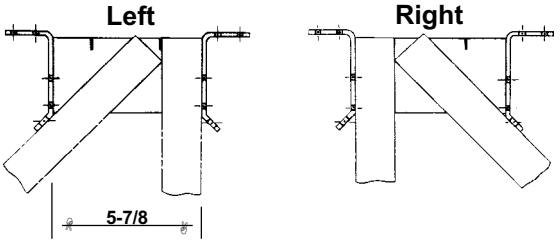
THJ-26

U.S. Patent No. 4,964,253

THJ TRUSS HIP & JACK HANGER

The first hip and jack hanger that works right or left hand. Facemounts to 2x6 or 2x8 girder chord. Easy-nail flanges avoid the plated areas. Impressions in seat to align with panel point for perfect location, or hanger can be installed after corner truss is set. 3-1/4" seat bearing, tested and code approved.

MATERIAL: 12 ga.
FINISH: Galvanized G60.

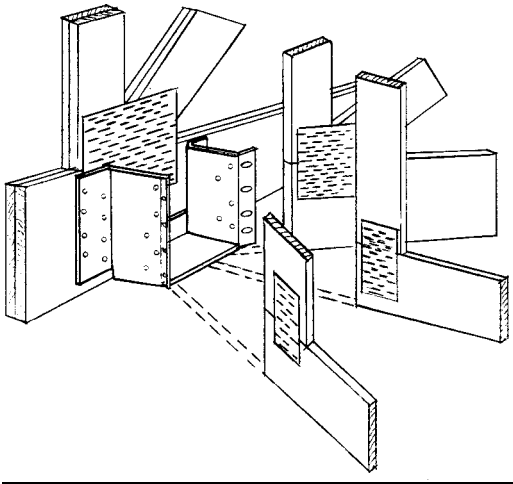


One Hanger Does It All.....At A Low, Low Cost

Part Number	Allowable Loads (lbs.) @565 psi								Nail Schedule		
	Hip				Jack				Header*	Hip	Jack
	Normal	115%	125%	Uplift	Normal	115%	125%	Uplift			
THJ-26	1695	1900	1900	1010	560	630	630	720	(16) 16d	(7) 10d	(5) 10d
THJ-28	2120	2440	2500	1300	700	800	830	720	(20) 16d	(9) 10d	(5) 10d

*Header must be 2 ply for required nail penetration. Header nails may be clinched on single ply to obtain allowable loads.
**For Spruce-Pine-Fir, reduce allowable loads by 20%.
Code Report: BOCA, ICBO, SBCCI No. NER 464.

HIP & JACK & HIP HANGERS

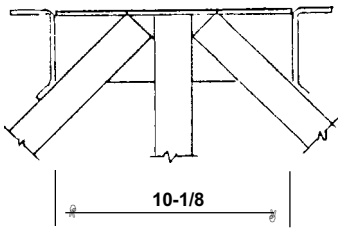


A wider opening allows for a terminal condition with two hips and a jack.

Reinforcement of the wider seat is provided by a stiffening flange at the rear of the seat.

The THJH is available in heights to accommodate 2x6 and 2x8 girder truss bottom chords.

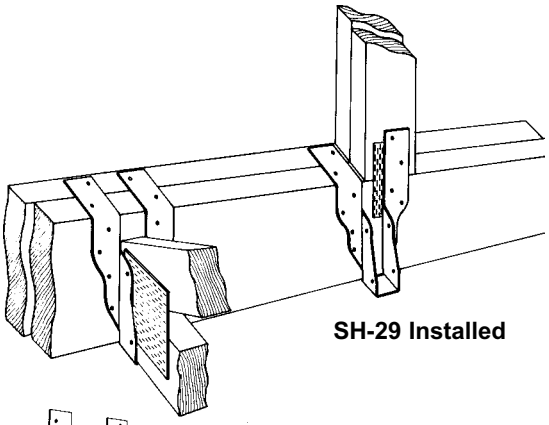
MATERIAL: 12 ga.
FINISH: Galvanized G60.



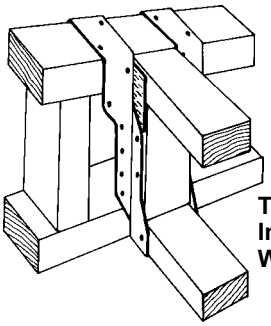
Part Number	Allowable Loads (lbs.) @565 psi								Nail Schedule		
	Hip				Jack				Header*	Hip	Jack
	Normal	115%	125%	Uplift	Normal	115%	125%	Uplift			
THJH-26	2400	2760	2760	1010	560	630	630	720	(21) 16d	(7) 10d	(2) 10d
THJH-28	2820	3250	3530	1300	700	800	830	720	(25) 16d	(9) 10d	(2) 10d

*Header must be 2 ply for required nail penetration. Header nails may be clinched on single ply to obtain allowable loads.
**For Spruce-Pine-Fir, reduce allowable loads by 20%.

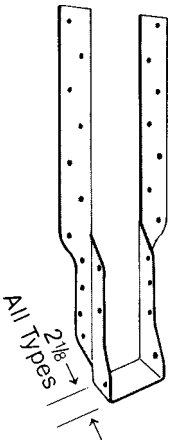
STRAP HANGERS



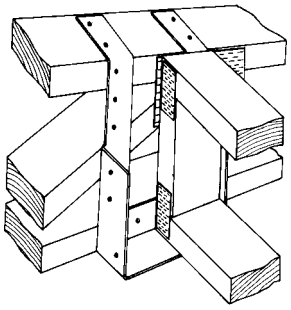
SH-29 Installed



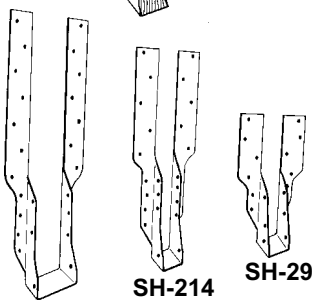
Typical SH-422 Installed on Open Web Floor Truss



SH-422



** 2 Ply SH(2) 420 Installed on Open Web Truss



ALLOWABLE LOADS FOR STYLE SH STRAP HANGERS

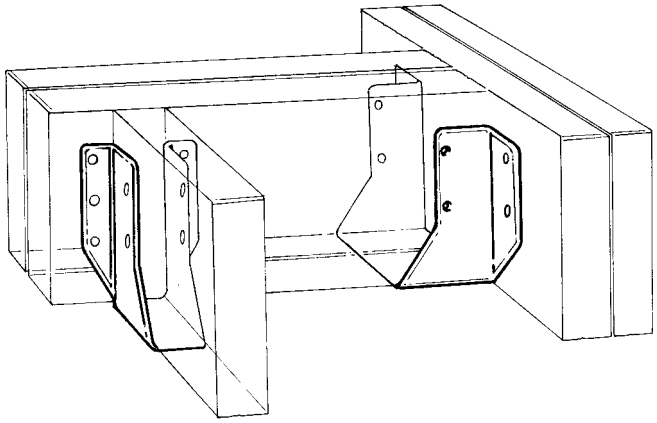
	Style	Hang Dimensions		Steel	Header	Nail Schedule			Allowable Loads			
		Width	Height	Gauge	Height	Top	Face	Joist	Normal	115%	125%	Uplift
TOP & FACE NAILS	SH-29	1.6	9.88	18	5-1/2	(4) 10d	(6) 10d	(6) 10d x 1-1/2	1850	1850	1850	750
					7-1/4	(4) 10d	(8) 10d	(6) 10d x 1-1/2	2250	2250	2250	500
	SH-214	1.6	13.25	18	5-1/2	(4) 10d	(6) 10d	(6) 10d x 1-1/2	1850	1850	1850	750
					7-1/4	(4) 10d	(8) 10d	(6) 10d x 1-1/2	2250	2250	2250	500
	SH-217	1.6	17.5	18	9-1/4	(4) 10d	(8) 10d	(6) 10d x 1-1/2	2250	2250	2250	750
					11-1/4	(2) 10d	(10) 10d	(6) 10d x 10-1/2	2200	2200	2200	750
	SH-218	1.75	17.5	18	9-1/4	(4) 10d	(8) 10d	(6) 10d x 1-1/2	2250	2250	2250	750
					11-1/4	(2) 10d	(10) 10d	(6) 10d x 1-1/2	2200	2200	2200	750
	SH-322	2.6	22	18	9-1/4	(4) 10d	(4) 10d	(6) 10d x 1-1/2	2250	2250	2250	750
					10	(2) 10d	(10) 10d	(6) 10d x 1-1/2	2200	2200	2200	750
	SH-322ML	2.3	22	18	9-1/4	(4) 10d	(4) 10d	(6) 10d x 1-1/2	2250	2250	2250	750
					12	(2) 10d	(10) 10d	(6) 10d x 1-1/2	2200	2200	2200	750
	SH-418	3.56	18	16	9-1/4	(4) 16d	(2) 16d	(5) 16d	2050	2050	2050	—
					10	(2) 16d	(12) 16d	(5) 16d	3040	3040	3040	—
	SH-422	3.56	22	16	9-1/4	(4) 16d	(2) 16d	(5) 16d	2050	2050	2050	—
					12	(2) 16d	(12) 16d	(5) 16d	3040	3040	3040	—
	SH-428	3.56	27.62	16	9-1/4	(4) 16d	(2) 16d	(5) 16d	2050	2050	2050	—
					12	(2) 16d	(12) 16d	(5) 16d	3040	3040	3040	—
	SH(2)222	3.12	22	16	9-1/4	(4) 16d	(2) 16d	(5) 16d	2050	2050	2050	—
					12	(2) 16d	(12) 16d	(5) 16d	3040	3040	3040	—
	SH(2)420	7.25	20	14	9-1/4	(4) 16d	(10) 16d	(6) 16d	4570	4770	4905	—
					11-1/4	(4) 16d	(14) 16d	(6) 16d	5250	5250	5250	—
FACE NAILS ONLY	SH-29	1.6	9.88	18	10	—	(16) 10d	(6) 10d x 1-1/2	1790	2060	2250	750
	SH-214	1.6	13.25	18	10	—	(16) 10d	(6) 10d x 1-1/2	1790	2060	2250	750
	SH-322	2.6	22	18	22	—	(20) 10d	(6) 10d x 1-1/2	2200	2200	2200	750
	SH-322ML	2.3	22	18	22	—	(20) 10d	(6) 10d x 1-1/2	2200	2200	2200	750
	SH-217	1.6	17.5	18	18	—	(18) 10d	(6) 10d x 1-1/2	2015	2250	2250	750
	SH-418	3.56	18	16	18	—	(18) 16d	(5) 16d	2430	2795	3040	—
	SH-422	3.56	22	16	22	—	(22) 16d	(5) 16d	2970	3040	3040	—
	SH-428	3.56	27.62	16	22	—	(22) 16d	(5) 16d	2970	3040	3040	—
	SH(2)222	3.12	22	16	22	—	(22) 16d	(5) 16d	2970	3040	3040	—
	SH(2)420	7.25	20	14	20	—	(24) 16d	(6) 16d	3240	3725	4050	—

1. The 1.6" wide hangers are for 2" nominal lumber, the 1.75" are for LVL or wood I-beams. The 3.12" wide are for 2 ply 2" nominal lumber, the 3.56" wide are for 4" nominal lumber. The 7.25" wide are for 2 ply 4" nominal lumber.
2. The 10d x 1-1/2 nails are 9 gauge joist hanger nails. The 10d and 16d are common nails.
3. Hanger nail values are based on unit stresses for Douglas Fir-Larch and bearing based on Southern Pine and are to be adjusted for other species of wood in accordance with relative group classification in U.B.C. Standard No. 25-17.

Code Report" BOCA. ICBO. SBCCI No. NER 464

- The heights shown permit the required number of nails for the design loads listed. For installation where one strap cannot be formed over the top, the design load is limited to the design load of a face nailed hanger, i.e. no top nails. Material is 18 gauge galvanized steel except as noted
- Truss to Truss application assumes open-web girder and the maximum height shown permits sufficient strap length to field bend and install top nails.
- Truss to Beam application assumes a solid, nailable surface sufficient for the face nails and top nails required. All nails must be installed to achieve design loads shown. Hanger bearing and nail values are based on unit stresses for Douglas-Fir-Larch or Southern Pine, and must be reduced 20% for Spruce-Pine-Fir. Hangers are made from 16 gauge galvanized steel except SH(2)420 which is 14 gauge galvanized.

POCKET HANGER



Cleveland pocket hangers are made in standard and heavy gauges in popular sizes for residential and heavier construction. Designed for use with all floor joists and roof purlins as well as other framing applications.

Immediately available from stock in all sizes listed in the table below. Packed in heavy corrugated containers for easy handling and convenient warehousing. Short, heavy nails designed for joist hangers are packed in each carton. Refer to tables for dimensions, nail sizes, packaging details and other information.

MATERIAL: 18 ga. and 16 ga.
FINISH: Galvanized G60.

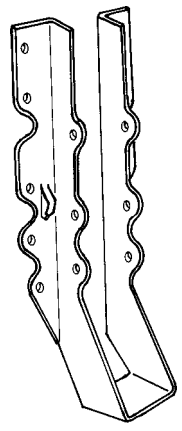
When ordering hangers without nails, add suffix "S"

Made with AMERICAN steel

Part No.	PH 24	PH 26	PH 28	PH 210	PH 51	PH 52	PH 53	PH 54	PH 36	PH 310	PH 46	PH 410
Joist Size	2 x 4	2 x 6 2 x 8	2 x 8 2 x 10	2 x 10 2 x 12 2 x 14	2 x 6 2 x 8	2 x 10 2 x 12 2 x 14	(2) 2 x 6 (2) 2 x 8	(2) 2 x 10 (2) 2 x 12	3 x 6 3 x 8	3 x 10 3 x 12 3 x 14	4 x 6 4 x 8	4 x 10 4 x 12 4 x 14
Actual Hanger Size	1-1/2 x 3-5/16	1-1/2 x 4-3/4	1-1/2 x 6	1-1/2 x 8-9/16	1-1/2 x 4-3/4	1-1/2 x 8 9/16	3 x 5-1/8	3 x 8-5/16	2-1/2 x 5-3/8	2-1/2 x 8-9/16	3-1/2 x 5-5/16	3-1/2 x 8-3/8
Material	18 ga.galv.	18 ga.galv.	18 ga.galv.	18 ga.galv.	16 ga.galv.	16 ga.galv.	16 ga.galv.	16 ga.galv.	18 ga.galv.	18 ga.galv.	16 ga.galv.	16 ga. galv.
Design Load per Hanger	450 lbs.	800 lbs.	1070 lbs.	1605 lbs.	1080 lbs.	1890 lbs.	1620 lbs.	2915 lbs.	1795 lbs.	2690 lbs.	1795 lbs.	2690 lbs.
Nail Size	N-51	*	*	*	*	*	N-53	N-53	N-53	N-53	N-53	N-53
Nail Type	Ringed	Ringed	Ringed	Ringed	Ringed	Ringed	Ringed	Ringed	Ringed	Ringed	Ringed	Ringed
Nails Into Header	4	6	8	12	8	14	10	18	12	18	12	18
Nails Into Joist	2	4	5	6	4	6	4	6	4	6	4	6
The following PH Hangers also packaged without nails (add suffix "S")												
Less Nails	PH 24S	PH26S	PH 28S	PH 210S			PH 53S	PH 54S	PH 36S	PH 310S	PH 46S	PH 410S

*N-51 nails in joist, N-8 nails in header.

ECONOMY POCKET HANGER



Low Cost Hangers for General Framing

EPH Economy Pocket Hangers are engineered with less metal for lower cost, but full 1-1/2" seat bearing for allowable loads below. Speed prong aids installation.

MATERIAL: 20 ga.
FINISH: Galvanized G60.

Hanger Part Number	Hanger Size	Allowable Loads - So. Yellow Pine* 10d Nails		16d Nails		Wind Uplift	Nail Schedule	
		Normal	115%	Normal	115%		Header	Joist
PH-24S	1-1/2 x 3-5/16	450	517	—	—	245	(4) 8d	(2) 8d x 1-1/4
EPH-26	1-9/16 x 4-34	670	770	800	915	500	(6) 16d	(4) 10d x 1-1/2
EPH-28	1-9/16 x 6-3/8	895	1035	1065	1220	750	(8) 16d	(6) 10d x 1-1/2
EPH-210	1-9/16 x 7-7/8	1120	1285	1330	1435	750	(10) 16d	(6) 10d x 1-1/2

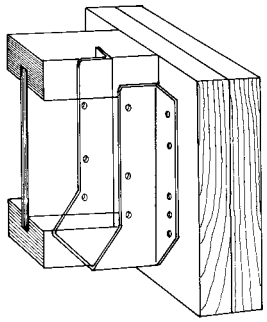
*Loads based on UBC values for So. Yellow Pine & Douglas Fir; multiply by.80 for Spruce-Pine-Fir. Uplift includes 33% short term increase and must be reduced for cantilever loads. PH-24S will accept 8d nail, or order as PH-24 which includes .125 x 1-1/4 nails.

CLEVELAND HANGERS FOR WOOD I-BEAMS

There's a Cleveland Hanger to fit ALL Manufactured Wood I-Beams

Facemount and **Topmount** hangers provide a low cost connection for the manufactured wood I-Beam industry.
Facemount (FM) hangers are deep enough for the side flanges to secure the top chords of the I-Beams.
• 2-1/8" seat bearing

MATERIAL: 18 ga. and 16 ga.
FINISH: Galvanized G60.



Facemount

RECOMMENDED FACEMOUNT HANGERS FOR I-BEAM APPLICATIONS

Topmount Part Number	I-Beam Size	Allowable Loads (lbs.)				Nail Schedule Face	Joist
		Gauge	Normal	115%	125%		
PH 210 S	1-1/2 x 9-1/4	18	750	865	940	(8)10d x 1-1/2	(2)10d x 1-1/2
FM 1.50 / 9.50	1-1/2 x 9-1/2	18	750	865	940	(8)10d x 1-1/2	(2)10d x 1-1/2
FM 1.50 / 11.25	1-1/2 x 11-7/8	18	940	1080	1175	(10)10d x 1-1/2	(2)10d x 1-1/2
FM 1.50 / 13.50	1-1/2 x 13-1/2	18	940	1080	1175	(10)10d x 1-1/2	(2)10d x 1-1/2
FM 1.50 / 15.50	1-1/2 x 15-1/2	18	940	1080	1175	(10)10d x 1-1/2	(2)10d x 1-1/2
FM 1.50 / 17.50	1-1/2 x 17-1/2	18	940	1080	1175	(10)10d x 1-1/2	(2)10d x 1-1/2
FM 1.62 / 8.68	1.6 x 9-1/4	18	750	865	940	(8)10d x 1-1/2	(2)10d x 1-1/2
FM 1.62 / 8.68	1.6 x 9-1/2	18	750	865	940	(8)10d x 1-1/2	(2)10d x 1-1/2
FM 1.62 / 11.12	1.6 x 11-1/4	18	940	1080	1175	(10)10d x 1-1/2	(2)10d x 1-1/2
FM 1.62 / 11.12	1.6 x 12	18	940	1080	1175	(10)10d x 1-1/2	(2)10d x 1-1/2
FM 1.62 / 13.50	1.6 x 14	18	940	1080	1175	(10)10d x 1-1/2	(2)10d x 1-1/2
FM 1.62 / 15.50	1.6 x 16	18	940	1080	1175	(10)10d x 1-1/2	(2)10d x 1-1/2
FM 1.62 / 17.50	1.6 x 18	18	940	1080	1175	(10)10d x 1-1/2	(2)10d x 1-1/2
FM 1.75 / 8.62	1-3/4 x 9-1/4	18	750	865	940	(8)10d x 1-1/2	(2)10d x 1-1/2
FM 1.75 / 8.62	1-3/4 x 9-1/2	18	750	865	940	(8)10d x 1-1/2	(2)10d x 1-1/2
FM 1.75 / 11.25	1-3/4 x 11-7/8	18	940	1080	1175	(10)10d x 1-1/2	(2)10d x 1-1/2
FM 1.75 / 13.50	1-3/4 x 14	18	940	1080	1175	(10)10d x 1-1/2	(2)10d x 1-1/2
FM 1.75 / 15.50	1-3/4 x 16	18	940	1080	1175	(10)10d x 1-1/2	(2)10d x 1-1/2
FM 1.75 / 17.50	1-3/4 x 18	18	940	1080	1175	(10)10d x 1 -1/2	(2)10d x 1-1/2
FM 2.31 / 9.25	2.3 x 9-1/4	18	940	1080	1175	(10)10d x 1-1/2	(2)10d x 1-1/2
FM 2.31 / 9.25	2.3 x 9-1/2	18	940	1080	1175	(10)10d x 1-1/2	(2)10d x 1-1/2
FM 2.31 / 9.25	2.3 x 10	18	940	1080	1175	(10)10d x 1-1/2	(2)10d x 1-1/2
FM 2.31 / 11.50	2.3 x 11-7/8	18	940	1080	1175	(10)10d x 1-1/2	(2)10d x 1-1/2
FM 2.31 / 13.50	2.3 x 14	18	940	1080	1175	(10)10d x 1-1/2	(2)10d x 1-1/2
FM 2.31 / 15.50	2.3 x 16	18	940	1080	1175	(10)10d x 1-1/2	(2)10d x 1-1/2
FM 2.31 / 17.50	1-3/4 x 18	18	940	1080	1175	(10)10d x 1-1/2	(2)10d x 1-1/2
PH 310 S	2-1/2 x 9-1/4	18	750	865	940	(8)10d x 1-1/2	(2)10d x 1-1/2
PH 310 S	2-1/2 x 9-1/2	18	750	865	940	(8)10d x 1-1/2	(2)10d x 1-1/2
PH 310 S	2-1/2 x 10	18	750	865	940	(8)10d x 1-1/2	(2)10d x 1-1/2
FM 2.50 / 11.12	2-1/2 x 11-1/2	18	940	1080	1175	(10)10d x 1-1/2	(2)10d x 1-1/2
FM 2.50 / 11.12	2-1/2 x 11-7/8	18	940	1080	1175	(10)10d x 1-1/2	(2)10d x 1-1/2
FM 2.50 / 11.12	2-1/2 x 12-1/2	18	940	1080	1175	(10)10d x 1-1/2	(2)10d x 1-1/2
FM 2.50 / 13.44	2-1/2 x 14	18	940	1080	1175	(10)10d x 1-1/2	(2)10d x 1-1/2
FM 2.50 / 15.50	2-1/2 x 16	18	940	1080	1175	(10)10d x 1-1/2	(2)10d x 1-1/2
FM 2.50 / 17.50	2-1/2 x 18	18	940	1080	1175	(10)10d x 1-1/2	(2)10d x 1-1/2
FM 2.50 / 19.50	2-1/2 x 20	18	940	1080	1175	(10)10d x 1-1/2	(2)10d x 1-1/2

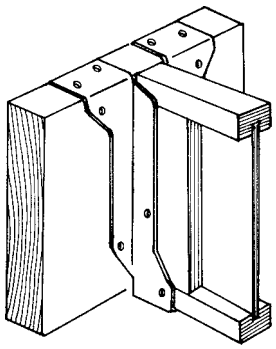
1. These hangers are intended for use with wood I-beams as made by various manufacturers.
2. The 10d x 1-1/2" nails are No. 9 gauge joist hanger nails. The 10d nails are common nails.
3. Hanger bearing is based on 565 psi for Southern Pine and nail value based on Douglas Fir-Larch and must be adjusted for other species of wood in accordance with U.B.C. Standard No. 25-17.

Code Report: BOCA, ICBO, SBCCI No. NER 464.

CLEVELAND HANGERS FOR WOOD I-BEAMS

Topmount Part Number	I-Beam Size	Allowable Loads (lbs.)				Nail Schedule Face	Joist
		Gauge	Normal	115%	125%		
FM 2.68 / 8.12	2.6 x 9-1/4	18	750	865	940	(8) 10d x 1-1/2	(2) 10d x 1-1/2
FM 2.68 / 11.12	2.6 x 11-1/4	18	940	1080	1175	(10) 10d x 1-1/2	(2) 10d x 1-1/2
FM 2.68 / 11.12	2.6 x 12	18	940	1080	1175	(10) 10d x 1-1/2	(2) 10d x 1-1/2
FM 2.68 / 13.44	2.6 x 14	18	940	1080	1175	(10) 10d x 1-1/2	(2) 10d x 1-1/2
FM 2.68 / 15.50	2.6 x 16	18	940	1080	1175	(10) 10d x 1-1/2	(2) 10d x 1-1/2
FM 2.68 / 17.50	2.6 x 18	18	940	1080	1175	(10) 10d x 1-1/2	(2) 10d x 1-1/2
FM 2.68 / 19.50	2.6 x 20	18	940	1080	1175	(10) 10d x 1-1/2	(2) 10d x 1-1/2
FM 3.12 / 9.25	(2) 1-1/2 x 9-1/4	16	1355	1580	1695	(12) 10d	(6) 10d
FM 3.12 / 9.25	(2) 1-1/2 x 9-1/2	16	1355	1580	1695	(12) 10d	(6) 10d
FM 3.12 / 9.25	(2) 1-1/2 x 10	16	1355	1580	1695	(12) 10d	(6) 10d
FM 3.12 / 11.12	(2) 1-1/2 x 11-1/8	16	1580	1820	1980	(14) 10d	(6) 10d
FM 3.12 / 11.12	(2) 1-1/2 x 11-1/4	16	1580	1820	1980	(14) 10d	(6) 10d
FM 3.12 / 11.12	(2) 1-1/2 x 12	16	1580	1820	1980	(14) 10d	(6) 10d
FM 3.12 / 13.50	(2) 1-1/2 x 14	16	1580	1820	1980	(14) 10d	(6) 10d
FM 3.12 / 15.50	(2) 1-1/2 x 16	16	1580	1820	1980	(14) 10d	(6) 10d
FM 3.12 / 17.50	(2) 1-1/2 x 18	16	1580	1820	1980	(14) 10d	(6) 10d
PH 410 S	3-1/2 x 9-1/4	18	1120	1288	1400	(10) 10d	(2) 10d x 1-1/2
PH 410 S	3-1/2 x 9-1/2	18	1120	1288	1400	(10) 10d	(2) 10d x 1-1/2
PH 410 S	3-1/2 x 10	18	1120	1288	1400	(10) 10d	(2) 10d x 1-1/2
FM 3.50 / 11.25	3-1/2 x 11-1/4	18	1345	1545	1680	(12) 10d	(2) 10d x 1-1/2
FM 3.50 / 11.25	3-1/2 x 11-1/2	18	1345	1545	1680	(12) 10d	(2) 10d x 1-1/2
FM 3.50 / 11.25	3-1/2 x 11-7/8	18	1345	1545	1680	(12) 10d	(2) 10d x 1-1/2
FM 3.50 / 11.25	3-1/2 x 12	18	1345	1545	1680	(12) 10d	(2) 10d x 1-1/2
FM 3.50 / 11.25	3-1/2 x 12-1/2	18	1345	1545	1680	(12) 10d	(2) 10d x 1-1/2
FM 3.50 / 13.50	3-1/2 x 14	18	1565	1800	1960	(14) 10d	(4) 10d
FM 3.50 / 15.50	3-1/2 x 16	18	1565	1800	1960	(14) 10d	(4) 10d
FM 3.50 / 17.50	3-1/2 x 18	18	1565	1800	1960	(14) 10d	(4) 10d
FM 3.50 / 19.50	3-1/2 x 20	18	1565	1800	1960	(14) 10d	(4)10d
FM 4.60 / 9.25	(2) 2-5/16 x 9-1/4	16	1580	1820	1960	(14) 10d	(4) 10d
FM 4.60 / 9.25	(2) 2-5/16 x 9-1/2	16	1580	1820	1960	(14) 10d	(4) 10d
FM 4.60 / 9.25	(2) 2-5/16 x 10	16	1580	1820	1960	(14) 10d	(4) 10d
FM 4.60 / 11.12	(2) 2-5/16 x 11-1/8	16	1810	2080	2260	(16) 10d	(4) 10d
FM 4.60 / 11.12	(2) 2-5/16 x 11-7/8	16	1810	2080	2260	(16) 10d	(4) 10d
FM 4.60 / 11.12	(2) 2-5/16 x 12	16	1810	2080	2260	(16) 10d	(4) 10d
FM 4.60 / 13.50	(2) 2-5/16 x 14	16	1810	2080	2260	(16) 10d	(4) 10d
FM 4.60 / 15.50	(2) 2-5/16 x 16	16	1810	2080	2260	(16) 10d	(4) 10d
FM 4.60 / 17.50	(2) 2-5/16 x 18	16	1810	2080	2260	(16) 10d	(4) 10d
FM 5.12 / 9.25	(2) 2-1/2 x 9-1/4	16	1580	1820	1960	(14) 10d	(4) 10d
FM 5.12 / 9.25	(2) 2-1/2 x 9-1/2	16	1580	1820	1960	(14) 10d	(4) 10d
FM 5.12 / 9.25	(2) 2-1/2 x 10	16	1580	1820	1960	(14) 10d	(4) 10d
FM 5.12 / 11.12	(2) 2-1/2 x 11-1/8	16	1810	2080	2260	(16) 10d	(4) 10d
FM 5.12 / 11.12	(2) 2-1/2 x 11-1/4	16	1810	2080	2260	(16) 10d	(4) 10d
FM 5.12 / 11.12	(2) 2-1/2 x 12	16	1810	2080	2260	(16) 10d	(4) 10d
FM 5.12 / 13.50	(2) 2-1/2 x 14	16	1810	2080	2260	(16) 10d	(4) 10d
FM 5.12 / 15.50	(2) 2-1/2 x 16	16	1810	2080	2260	(16) 10d	(4) 10d
FM 5.12 / 17.50	(2) 2-1/2 x 18	16	1810	2080	2260	(16) 10d	(4) 10d
FM 5.31 / 9.25	(2) 2-5/8 x 9-1/4	16	1580	1820	1960	(14) 10d	(4) 10d
FM 5.31 / 9.25	(2) 2-5/8 x 9-1/2	16	1580	1820	1960	(14) 10d	(4) 10d
FM 5.31 / 9.25	(2) 2-5/8 x 10	16	1580	1820	1960	(14) 10d	(4) 10d
FM 5.31 / 11.12	(2) 2-5/8 x 11-1/8	16	1810	2080	2260	(16) 10d	(4) 10d
FM 5.31 / 11.12	(2) 2-5/8 x 11-1/4	16	1810	2080	2260	(16) 10d	(4) 10d
FM 5.31 / 11.12	(2) 2-5/8 x 12	16	1810	2080	2260	(16) 10d	(4) 10d
FM 5.31 / 13.50	(2) 2-5/8 x 14	16	1810	2080	2260	(16) 10d	(4) 10d
FM 5.31 / 15.50	(2) 2-5/8 x 16	16	1810	2080	2260	(16) 10d	(4) 10d
FM 5.31 / 17.50	(2) 2-5/8 x 18	16	1810	2080	2260	(16) 10d	(4) 10d

CLEVELAND HANGERS FOR WOOD I-BEAMS



Topmount

Topmount (TM) hangers have side flanges that hold the top chords of the I-Beams and factory bent top flanges for fast, uniform installation.
• 2-1/8" seat bearing

MATERIAL: 18 ga. and 16 ga.
FINISH: Galvanized G60.

For greater load capacities, refer to the SH Strap Hanger or the DS Deep Seat Hanger.

RECOMMENDED TOPMOUNT FOR I-BEAM APPLICATIONS

Topmount Part Number	I-Beam Size	Allowable Loads (lbs.)				Nail Schedule		
		Gauge	Normal	115 %	125 %	Top	Face	Joist
TM 1.50 /9.25	1-1/2 x 9-1/4	18	1030	1030	1030	(2) 10d x 1-1/2	(2) 10d x 1-1/2	(2) 10d x 1-1/2
TM 1.50 / 9.50	1-1/2 x 9-1/2	18	1355	1355	1355	(4) 10d x 1-1/2	(2) 10d x 1-1/2	(2) 10d x 1-1/2
TM 1.50 / 11.88	1-1/2 x 11-7/8	18	1355	1355	1355	(4) 10d x 1-1/2	(2) 10d x 1-1/2	(2) 10d x 1-1/2
TM 1.50 / 14.00	1-1/2 x 14	18	1355	1355	1355	(4) 10d x 1-1/2	(2) 10d x 1-1/2	(2) 10d x 1-1/2
TM 1.50 / 16.00	1-1/2 x 16	18	1355	1355	1355	(4) 10d x 1-1/2	(2) 10d x 1-1/2	(2) 10d x 1-1/2
TM 1.50 / 18.00	1-1/2 x 18	18	1355	1355	1355	(4) 10d x 1-1/2	(2) 10d x 1-1/2	(2) 10d x 1-1/2
TM 1.62 / 9.25	1.6 x 9-1/4	18	1030	1030	1030	(2) 10d x 1-1/2	(2) 10d x 1-1/2	(2) 10d x 1-1/2
TM1.62 / 11.25	1.6 x 11-1/4	18	1355	1355	1355	(4) 10d x1-1/2	(2) 10d x 1-1/2	(2) 10d x 1-1/2
TM 1.62 / 12.00	1.6 x 12	18	1355	1355	1355	(4) 10d x 1-1/2	(2) 10d x 1-1/2	(2) 10d x 1-1/2
TM 1.62 / 14.00	1.6 x 14	18	1355	1355	1355	(4) 10d x 1-1/2	(2) 10d x 1-1/2	(2) 10d x 1-1/2
TM 1.62 / 16.00	1.6 x 16	18	1355	1355	1355	(4) 10d x 1-1/2	(2) 10d x 1-1/2	(2) 10d x 1-1/2
TM 1.62 / 18.00	1.6 x 18	18	1355	1355	1355	(4) 10d x 1-1/2	(2) 10d x 1-1/2	(2) 10d x 1-1/2
TM 1.75 / 9.25	1-3/4 x 9-1/4	18	1030	1030	1030	(2) 10d x 1-1/2	(2) 10d x 1-1/2	(2) 10d x 1-1/2
TM 1.75 / 9.50	1-3/4 x 9-1/2	18	1355	1355	1355	(4) 10d x 1-1/2	(2) 10d x 1-1/2	(2) 10d x 1-1/2
TM 1.75 / 11.88	1-3/4 x 11-7/8	18	1355	1355	1355	(4) 10d x 1-1/2	(2) 10d x 1-1/2	(2) 10d x 1-1/2
TM 1.75 / 14.00	1-3/4 x 14	18	1355	1355	1355	(4) 10d x 1-1/2	(2) 10d x 1-1/2	(2) 10d x 1-1/2
TM 1.75 / 16.00	1-3/4 x 16	18	1355	1355	1355	(4) 10d x 1-1/2	(2) 10d x 1-1/2	(2) 10d x 1-1/2
TM 1.75 / 18.00	1-3/4 x 18	18	1355	1355	1355	(4) 10d x 1-1/2	(2) 10d x 1-1/2	(2) 10d x 1-1/2
TM 2.31 / 10.00	2-5/16 x 10	18	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 2.31 / 11.88	2-5/16 x 11-7/8	18	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 2.31 / 12.00	2-5/16 x 12	18	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 2.31 / 14.00	2-5/16 x 14	18	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 2.31 / 16.00	2-5/16 x 16	18	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 2.31 / 18.00	2-5/16 x 18	18	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 2.50 / 9.25	2-1/2 x 9-1/4	18	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 2.50 / 9.37	2-1/2 x 9-3/8	18	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 2.50 / 9.50	2-1/2 x 9-1/2	18	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 2.50 / 11.50	2-1/2 x 11-1/2	18	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 2.50 / 11.88	2-1/2 x 11-7/8	18	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 2.50 / 12.50	2-1/2 x 12-1/2	18	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 2.50 / 13.00	2-1/2 x 13	18	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 2.50 / 14.00	2-1/2 x 14	18	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 2.50 / 16.00	2-1/2 x 16	18	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 2.50 / 18.00	2-1/2 x 18	18	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 2.50 / 20.00	2-1/2 x 20	18	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2

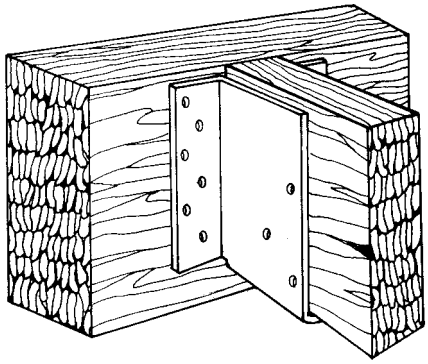
1. These hangers are intended for use with wood I-beams as made by various manufacturers.
2. The 10d x 1-1/2" nails are No. 9 gauge joist hanger nails. The 10d nails are common nails.
3. Hanger bearing is based on 565 psi for Southern Pine and nail value based on Douglas Fir-Larch and must be adjusted for other species of wood in accordance with U.B.C. Standard No. 25-17.

Code Report: BOCA, ICBO, SBCCI No. NER 464.

CLEVELAND HANGERS FOR WOOD I-BEAMS

Topmount Part Number	I-Beam Size	Allowable Loads (lbs.)				Nail Schedule		
		Gauge	Normal	115 %	125 %	Top	Face	Joist
TM 2.68 / 10.00	2-5/8 x 10	18	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 2.68 / 11.25	2-5/8 x 11-1/4	18	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 2.68 / 12.00	2-5/8 x 12	18	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 2.68 / 14.00	2-5/8 x 14	18	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 2.68 / 16.00	2-5/8 x 16	18	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 2.68 / 18.00	2-5/8 x 18	18	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 2.68 / 20.00	2-5/8 x 20	18	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 3.12 / 9.25	(2) 1-1/2 x 9-1/4	16	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 3.12 / 9.50	(2) 1-1/2 x 9-1/2	16	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 3.12 / 10.00	(2) 1-1/2 x 10	16	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 3.12 / 11.12	(2) 1-1/2 x 11-1/8	16	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 3.12 / 11.88	(2) 1-1/2 x 11-7/8	16	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 3.12 / 12.00	(2) 1-1/2 x 12	16	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 3.12 / 14.00	(2) 1-1/2 x 14	16	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 3.12 / 16.00	(2) 1-1/2 x 16	16	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 3.12 / 18.00	(2) 1-1/2 x 18	16	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 3.50 / 9.25	3-1/2 x 9-1/4	18	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 3.50 / 9.37	3-1/2 x 9-3/8	18	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 3.50 / 9.50	3-1/2 x 9-1/2	18	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 3.50 / 11.25	3-1/2 x 11-1/4	18	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 3.50 / 11.50	3-1/2 x 11-1/2	18	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 3.50 / 11.88	3-1/2 x 11-7/8	18	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 3.50 / 12.00	3-1/2 x 12	18	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 3.50 / 12.50	3-1/2 x 12-1/2	18	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 3.50 / 13.00	3-1/2 x 13	18	1715	1715	1715	(4) 10d x 1-1/2	(4) 10d x 1-1/2	(2) 10d x 1-1/2
TM 3.50 / 14.00	3-1/2 x 14	18	2200	2200	2200	(4) 10d	(6) 10d	(4) 10d
TM 3.50 / 16.00	3-1/2 x 16	18	2200	2200	2200	(4) 10d	(6) 10d	(4) 10d
TM 4.62 /1 0.00	(2) 2-5/16 x 10	16	2900	2900	2900	(4) 16d	(6) 16d	(6) 16d
TM 4.62 / 11.88	(2) 2-5/16 x 11-7/8	16	2900	2900	2900	(4)16d	(6) 16d	(6) 16d
TM 4.62 / 12.00	(2) 2-5/16 x 12	16	2900	2900	2900	(4) 16d	(6) 16d	(6) 16d
TM 4.62 / 14.00	(2) 2-5/16 x 14	16	2900	2900	2900	(4) 16d	(6) 16d	(6) 16d
TM 4.62 / 16.00	(2) 2-5/16 x 16	16	2900	2900	2900	(4) 16d	(6) 16d	(6) 16d
TM 4.62 / 18.00	(2) 2-5/16 x 18	16	2900	2900	2900	(4) 16d	(6) 16d	(6) 16d
TM 5.12 / 9.25	(2) 2-1/2 x 9-1/4	16	2900	2900	2900	(4) 16d	(6) 16d	(6) 16d
TM 5.12 / 9.37	(2) 2-1/2 x 9-3/8	16	2900	2900	2900	(4) 16d	(6) 16d	(6) 16d
TM 5.12 / 9.50	(2) 2-1/2 x 9-1/2	16	2900	2900	2900	(4) 16d	(6) 16d	(6) 16d
TM 5.12 / 11.50	(2) 2-1/2 x 11-1/2	16	2900	2900	2900	(4) 16d	(6) 16d	(6) 16d
TM 5.12 / 11.88	(2) 2-1/2 x 11-7/8	16	2900	2900	2900	(4) 16d	(6) 16d	(6) 16d
TM 5.12 / 12.50	(2) 2-1/2 x 12-1/2	16	2900	2900	2900	(4) 16d	(6) 16d	(6) 16d
TM 5.12 / 13.00	(2) 2-1/2 x 13	16	2900	2900	2900	(4) 16d	(6) 16d	(6) 16d
TM 5.12 / 14.00	(2) 2-1/2 x 14	16	2900	2900	2900	(4) 16d	(6) 16d	(6) 16d
TM 5.12 / 16.00	(2) 2-1/2 x 16	16	2900	2900	2900	(4) 16d	(6) 16d	(6) 16d
TM 5.12 / 18.00	(2) 2-1/2 x 18	16	2900	2900	2900	(4) 16d	(6) 16d	(6) 16d
TM 5.12 / 20.00	(2) 2-1/2 x 20	16	2900	2900	2900	(4) 16d	(6) 16d	(6) 16d
TM 5.31 / 9.25	(2) 2-5/8 x 9-1/4	16	2900	2900	2900	(4) 16d	(6) 16d	(6) 16d
TM 5.31 / 10.00	(2) 2-5/8 x 10	16	2900	2900	2900	(4) 16d	(6) 16d	(6) 16d
TM 5.31 / 11.25	(2) 2-5/8 x 11-1/4	16	2900	2900	2900	(4) 16d	(6) 16d	(6)16d
TM 5.31 / 12.00	(2) 2-5/8 x 12	16	2900	2900	2900	(4) 16d	(6) 16d	(6) 16d
TM 5.31 / 14.00	(2) 2-5/8 x 14	16	2900	2900	2900	(4) 16d	(6) 16d	(6) 16d
TM 5.31 / 16.00	(2) 2-5/8 x 16	16	2900	2900	2900	(4) 16d	(6) 16d	(6) 16d
TM 5.31 / 18.00	(2) 2-5/8 x 18	16	2900	2900	2900	(4) 16d	(6) 16d	(6) 16d
TM 5.31 / 20.00	(2) 2-5/8 x 20	16	2900	2900	2900	(4) 16d	(6) 16d	(6) 16d

FACEMOUNT HANGERS



JUX Hanger

JUX Hangers are recommended for facemounting to LVL or PSL headers.

MATERIAL: 16 ga. and 12 ga.
FINISH: Galvanized G60.

Code Report: BOCA, ICBO, SBCCI No. NER 464.

Hanger Part No.	Allowable Load (lbs.)			Steel Gauge	Seat Bearing	Nail Schedule	
	Normal	115%	125%			Header	Pocket
JUX 1.75 / 6.50	1500	1725	1875	14	3"	(10) N53	(4) 10d x 1-1/2
HJU 1.75 / 9.00	5250	5560	5760	16	3-1/4"	(35) 16d	(20) 10d x 1-1/2"
JUX 1.75 / 11.00	2700	3105	3375	14	3"	(18) N53	(8) 10d x 1-1/2
JUX 1.75 / 13.50	3300	3795	4125	14	3"	(22) N53	(10) 10d x 1-1/2
JUX 2.69 / 11.00	2700	3105	3375	14	2-1/2"	(18) N53	(6) N53
JUX 2.69 / 13.50	3300	3795	4125	14	2-1/2"	(22) N53	(7) N53
JUX 2.69 / 15.50	3900	4485	4875	14	2-1/2"	(26) N53	(8) N53
JUX 3.50 / 6.50	1500	1725	1875	14	2-1/2"	(10) N53	(4) N53
HJU 3.50 / 9.00	5290	6085	6615	14	3-1/4"	(36) 16d	(14) 10d
JUX 3.50 / 11.00	2700	3105	3375	14	2-1/2"	(18) N53	(6) N53
JUX 3.50 / 13.50	3300	3795	4125	14	2-1/2"	(22) N53	(7) N53
JUX 3.50 / 15.50	3900	4485	4875	14	2-1/2"	(26) N53	(8) N53
HJU 5.25 / 9.00	5290	6085	6615	14	3-1/4"	(36) 16d	(14) 10d
JUX 5.25 / 11.00	2790	3205	3485	12	2-1/2"	(18) N53	(6) N53
JUX 5.25 / 13.50	3410	3920	4260	12	2-1/2"	(22) N53	(8) N53
JUX 5.25 / 15.50	4030	4635	5035	12	2-1/2"	(26) N53	(8) N53

1. These hangers are intended for use with parallel strand lumber (PSL) or laminated veneer lumber (LVL).
2. The 10d x 1-1/2" nails are No. 9 gauge joist hanger nails. The N53 nail is a 6 gauge x 2-1/8" long ring shank nail.
3. The appropriate allowable downward loads (Normal, 115%, and 125%) shall be selected based on duration of load in accordance with the stress increases permitted by the applicable code.
4. Allowable loads are based on 565 psi compression and nail values for Douglas Fir-Larch.

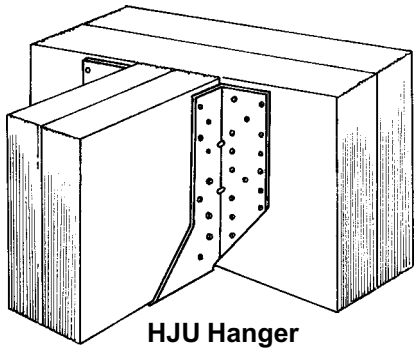
Choose
Either Hanger

HJU

A 9" high facemount hanger that can carry 4860 lbs., enough for most applications.

JUX

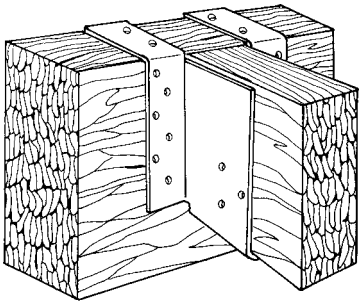
Full depth facemount hanger for normal loads with minimum nailing required.



HJU Hanger

DEEP SEAT

HANGERS FOR MICRO=LAM® PARALLAM® GANG-LAM®



DS Deep Seat Hangers carry heavy loads obtained with Micro=Lam, Parallam and Gang-Lam products. Top flanges are 3-3/8" long with 2 nail holes per flange spaced for 3-1/2" minimum header, except DS 2.69 hangers have 2-1/2" top flanges.

Load charts are based on seat compression of 600 psi. Solid header required. Consult your wood product manufacturer for limitations when LVL headers have top edge nailing.
Code Report: BOCA, ICBO, SBCCI No. NER 464.

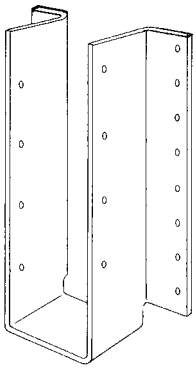
MATERIAL: 12 ga.
FINISH: Galvanized G60.

Part Number	Size	Steel Gauge	Nail Schedule			Allowable Load (lbs.)			Seat Bearing
			Top	Face	Joist	Normal	115%	125%	
DS-24	1-5/8 x 3-1/2	12	(4) 16d	(4) 16d	(3) 10d x 1-1/2	2630	2630	2630	4"
DS-26	1-5/8 x 5-1/2	12	(4) 16d	(6) 16d	(4) 10d x 1-1/2	3315	3335	3335	4"
DS-28	1-5/8 x 7-1/4	12	(4) 16d	(8) 16d	(6) 10d x 1-1/2	3595	3765	3880	4"
DS-210	1-5/8 x 9-1/4	12	(4) 16d	(10) 16d	(7) 10d x 1-1/2	3880	4090	4230	4"
DS-212	1-5/8 x 11-1/4	12	(4) 16d	(12) 16d	(10) 10d x 1-1/2	4160	4415	4585	4"
DS(2)26	3-1/8 x 5-1/2	12	(4) 16d	(6) 16d	(3) 10d	3315	3335	3335	3"
DS(2)28	3-1/8 x 7-1/4	12	(4) 16d	(8) 16d	(4) 10d	3595	3765	3880	3"
DS(2)210	3-1/8 x 9-1/4	12	(4) 16d	(10) 16d	(5) 10d	3880	4090	4230	3"
DS(2)212	3-1/8 x 11-1/4	12	(4) 16d	(14) 16d	(6) 10d	4445	4740	4940	3"
DS 1.50 / 9.50	1-9/16 x 9-1/2	12	(4) 16d	(10) 16d	(7) 10d x 1-1/2	3880	4090	4230	4"
DS 1.50 / 11.88	1-9/16 x 11-7/8	12	(4) 16d	(12) 16d	(10) 10d x 1-1/2	4160	4415	4585	4"
DS 1.75 / 7.00	1-3/4 x 7	12	(4) 16d	(6) 16d	(4) 10d x 1-1/2	3335	3335	3335	3"
DS 1.75 / 7.25	1-3/4 x 7-1/4	12	(4) 16d	(6) 16d	(4) 10d x 1-1/2	3335	3335	3335	3"
DS 1.75 / 9.25	1-3/4 x 9-1/4	12	(4) 16d	(6) 16d	(4) 10d x 1-1/2	3335	3335	3335	3"
DS 1.75 / 9.50	1-3/4 x 9-1/2	12	(4) 16d	(6) 16d	(4) 10d x 1-1/2	3335	3335	3335	3"
DS 1.75 / 11.25	1-3/4 x 11-1/4	12	(4) 16d	(14) 16d	(6) 10d x 1-1/2	4600	4895	5090	3"
DS 1.75 / 11.50	1-3/4 x 11.50	12	(4) 16d	(14) 16d	(6) 10d x 1-1/2	4600	4895	5090	3"
DS 1.75 / 11.88	1-3/4 x 11-7/8	12	(4) 16d	(8) 16d	(6) 10d x 1-1/2	4175	4175	4175	3-1/2"
DS 1.75 / 12.00	1-3/4 x 12	12	(4) 16d	(12) 16d	(10) 10d x 1-1/2	4160	4415	4585	3"
DS 1.75 / 12.50	1-3/4 x 12-1/2	12	(4) 16d	(12) 16d	(10) 10d x 1-1/2	4160	4415	4585	3"
DS 1.75 / 14.00	1-3/4 x 14	12	(4) 16d	(10) 16d	(8) 10d x 1-1/2	4340	4340	4340	3-1/2"
DS 1.75 / 16.00	1-3/4 x 16	12	(4) 16d	(10) 16d	(9) 10d x 1-1/2	4340	4340	4340	3-1/2"
DS 1.75 / 18.00	1-3/4 x 18	12	(4) 16d	(10) 16d	(10) 10d x 1-1/2	4340	4340	4340	3-1/2"
DS 2.69 / 9.25	2-11/16 x 9-1/4	12	(4) 16d	(12) 16d	(5) 10d	4315	4570	4740	3"
DS 2.69 / 11.50	2-11/16 x 11-1/2	12	(4) 16d	(14) 16d	(6) 10d	4600	4895	5090	3"
DS 2.69 / 14.00	2-11/16 x 14	12	(4) 16d	(16) 16d	(6) 10d	4880	5220	5445	3"
DS 2.69 / 16.00	2-11/16 x 16	12	(4) 16d	(18) 16d	(8) 10d	5160	5545	5795	3"
DS 3.50 / 7.00	3-1/2 x 7	12	(4) 16d	(8) 16d	(4) 10d	4175	4175	4175	3"
DS 3.50 / 7.25	3-1/2 x 7-1/4	12	(4) 16d	(8) 16d	(4) 10d	4175	4175	4175	3"
DS 3.50 / 9.25	3-1/2 x 9-1/4	12	(4) 16d	(12) 16d	(5) 10d	5000	5000	5000	3"
DS 3.50 / 9.50	3-1/2 x 9-1/2	12	(4) 16d	(12) 16d	(5) 10d	5000	5000	5000	3"
DS 3.00 / 9.50	3 x 9-1/2	12	(4) 16d	(12) 16d	(5) 10d	5000	5000	5000	3"
DS 3.50 / 11.25	3-1/2 x 11-1/4	12	(4) 16d	(16) 16d	(6) 10d	5800	6135	6135	3"
DS 3.50 / 11.50	3-1/2 x 11-1/2	12	(4) 16d	(16) 16d	(6) 10d	5800	6135	6135	3"
DS 3.50 / 11.88	3-1/2 x 11-7/8	12	(4) 16d	(16) 16d	(6) 10d	5800	6135	6360	3"
DS 3.50 / 12.00	3-1/2 x 12	12	(4) 16d	(16) 16d	(6) 10d	5800	6135	6360	3"
DS 3.50 / 12.50	3-1/2 x 12-1/2	12	(4) 16d	(16) 16d	(6) 10d	5800	6135	6360	3"
DS 3.00 / 11.88	3 x 11-7/8	12	(4) 16d	(16) 16d	(6) 10d	5800	6135	6360	3"
DS 3.50 / 14.00	3-1/2 x 14	12	(4) 16d	(18) 16d	(8) 10d	6080	6460	6715	3"
DS 3.50 / 16.00	3-1/2 x 16	12	(4) 16d	(20) 16d	(10) 10d	6360	6785	6875	3"
DS 3.50 / 18.00	3-1/2 x 18	12	(4) 16d	(22) 16d	(12) 10d	6645	6875	6875	3"
DS 5.25 / 9.25	5-1/4 x 9-1/4	12	(4) 16d	(12) 16d	(5) 16d	5000	5000	5000	2-1/2"
DS 5.25 / 11.88	5-1/4 x 11-7/8	12	(4) 16d	(16) 16d	(6) 16d	5800	6135	6360	2-1/2"
DS 5.25 / 14.00	5-1/4 x 14	12	(4) 16d	(18) 16d	(8) 16d	6080	6460	6715	2-1/2"
DS 5.25 / 16.00	5-1/4 x 16	12	(4) 16d	(20) 16d	(8) 16d	6360	6785	6875	2-1/2"
DS 5.25 / 18.00	5-1/4 x 18	12	(4) 16d	(22) 16d	(8) 16d	6645	6875	6875	2-1/2"

1. The 1-5/8" and 3-1/8" sizes are for 1 ply and 2 ply nominal lumber respectively. Other sizes are for LVL and PSL lumber.
2. The 10d x 1-1/2" nails are No. 9 gauge joist hanger nails. All other nails are common nails.
3. The appropriate allowable downward loads (Normal, 115%, and 125%) shall be selected based on duration of load in accordance with the stress increases permitted by the applicable Code.
4. Allowable loads are based on nail values for Douglas Fir-Larch. LVL and PSL hangers are based on 600 psi compression perpendicular to the grain, nominal lumber sizes are based on 565 psi compression.

Code Report: BOCA, ICBO, SBCCI No. NER 464.

FACEMOUNT GLULAM HANGERS



Cleveland JU Glulam Hangers are made to order for sizes as shown. Also available for any size sawn timber, laminated beam or special beam in any design load. Prompt shipment.

MATERIAL: 11 ga. and 7 ga.
FINISH: Black copolymer paint.
OPTION: Hot-dip galvanized or stainless steel, available as a special order.

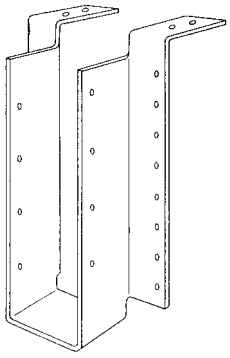
JU GLULAM HANGERS

Part Number	Purlin Size	Design Load		Uplift	Steel Thickness	Seat Depth	Nails		Lbs.
		Normal	115%				Header	Purlin	
JU 3.12 / 6.00	3-1/8 x 6	1500	1730	750	11 ga.	1-7/8	(8) N4	(3) N4	1.8
JU 3.12 / 7.50	3-1/8 x 7-1/2	1880	2160	1000	11 ga.	1-7/8	(10) N4	(4) N4	2.1
JU 3.12 / 9.00	3-1/8 x 9	2630	3085	1000	11 ga.	1-7/8	(14) N4	(4) N4	2.5
JU 3.12 / 10.50	3-1/8 x 10-1/2	3000	3450	1500	11 ga.	1-7/8	(16) N4	(6) N4	2.8
JU 3.12 / 12.00	3-1/8 x 12	3000	3450	1500	11 ga.	1-7/8	(16) N4	(6) N4	3.2
JU 3.12 / 13.50	3-1/8 x 13-1/2	3385	3890	1500	11 ga.	2-3/8	(18) N4	(6) N4	4.3
JU 3.12 / 15.00	3-1/8 x 15	3760	4300	1500	11 ga.	2-3/8	(20) N4	(6) N4	4.7
JU 3.12 / 16.50	3-1/8 x 16-1/2	4135	4750	2000	11 ga.	2-3/8	(22) N4	(8) N4	5.2
JU 3.12 / 18.00	3-1/8 x 18	4500	5785	2500	11 ga.	2-3/8	(24) N4	(10) N4	5.6
JU 5.12 / 6.00	5-1/8 x 6	1500	1730	750	11 ga.	1-7/8	(8) N4	(3) N4	2.0
JU 5.12 / 7.50	5-1/8 x 7-1/2	1880	2160	1000	11 ga.	1-7/8	(10) N4	(4) N4	2.4
JU 5.12 / 9.00	5-1/8 x 9	2630	3025	1000	11 ga.	1-7/8	(14) N4	(4) N4	2.7
JU 5.12 / 10.50	5-1/8 x 10-1/2	3000	3450	1500	7 ga.	1-7/8	(16) N4	(6) N4	3.0
JU 5.12 / 12.00	5-1/8 x 12	3385	3890	1500	7 ga.	2-3/8	(18) N4	(6) N4	6.3
JU 5.12 / 13.50	5-1/8 x 13-1/2	3760	4300	1500	7 ga.	2-3/8	(20) N4	(6) N4	6.9
JU 5.12 / 15.00	5-1/8 x 15	4135	4750	2000	7 ga.	2-3/8	(22) N4	(8) N4	7.5
JU 5.12 / 16.50	5-1/8 x 16-1/2	4510	5185	2500	7 ga.	2-3/8	(24) N4	(10) N4	8.2
JU 5.12 / 18.00	5-1/8 x 18	4880	5610	3000	7 ga.	2-3/8	(26) N4	(12) N4	8.8
JU 5.12 / 19.50	5-1/8 x 19-1/2	4880	5610	3000	7 ga.	2-3/8	(26) N4	(12) N4	9.4
JU 5.12 / 21.00	5-1/8 x 21	5260	6050	3000	7 ga.	2-3/8	(28) N4	(12) N4	10.1
JU 5.12 / 22.50	5-1/8 x 22-1/2	5260	6050	3000	7 ga.	2-3/8	(28) N4	(12) N4	10.7
JU 5.12 / 24.00	5-1/8 x 24	5260	6050	3000	7 ga.	2-3/8	(28) N4	(12) N4	1.3

Bulk packed in cartons.
N4 Nails are 40d x 2-1/2" ring shank.
Larger and special sizes available.

Made with AMERICAN steel

TOPMOUNT GLULAM HANGERS



Cleveland JE Glulam Hangers are made to order for sizes as shown. Also available for 6-3/4 and 8-3/4 wide laminated timbers. Prompt shipment.

MATERIAL: 11 ga. and 7 ga.
FINISH: Black copolymer paint.
OPTION: Hot-dip galvanized or stainless steel, available as a special order.

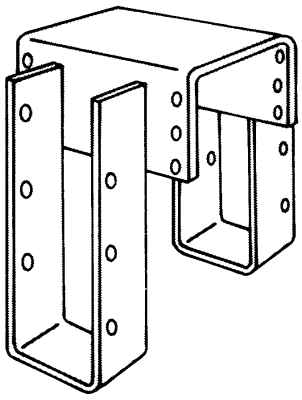
JE GLULAM HANGERS

Part Number	Purlin Size	Design Load		Uplift	Steel Thickness	Seat Depth	Nails			Lbs.
		Normal	115%				Header	Purlin	Top	
JE 3.12 / 6.00	3-1/8 x 6	2800	2885	750	11 ga.	1-7/8	(6) N4	(3) N4	(2) N4	2.0
JE 3.12 / 7.50	3-1/8 x 7-1/2	3180	3290	1000	11 ga.	1-7/8	(8) N4	(4) N4	(4) N4	2.6
JE 3.12 / 9.00	3-1/8 x 9	3560	3670	1000	11 ga.	1-7/8	(10) N4	(4) N4	(4) N4	3.0
JE 3.12 / 10.50	3-1/8 x 10-1/2	3940	4050	1000	11 ga.	1-7/8	(12) N4	(4) N4	(4) N4	3.3
JE 3.12 / 12.00	3-1/8 x 12	4315	4425	1500	11 ga.	1-7/8	(12) N4	(6) N4	(4) N4	3.7
JE 3.12 / 13.50	3-1/8 x 13-1/2	5160	5330	1500	11 ga.	2-3/8	(14) N4	(6) N4	(4) N4	4.9
JE 3.12 / 15.00	3-1/8 x 15	5160	5330	2000	11 ga.	2-3/8	(14) N4	(8) N4	(4) N4	5.3
JE 3.12 / 16.50	3-1/8 x 16-1/2	5540	5760	2000	11 ga.	2-3/8	(16) N4	(8) N4	(4) N4	5.7
JE 3.12 / 18.00	3-1/8 x 18	5915	6195	2500	11 ga.	2-3/8	(18) N4	(10) N4	(4) N4	6.2
JE 5.12 / 6.00	5-1/8 x 6	2800	2885	750	11 ga.	1-7/8	(6) N4	(3) N4	(2) N4	2.3
JE 5.12 / 7.50	5-1/8 x 7-1/2	3180	3290	1000	11 ga.	1-7/8	(8) N4	(4) N4	(4) N4	2.9
JE 5.12 / 9.00	5-1/8 x 9	3560	3670	1000	11 ga.	1-7/8	(10) N4	(4) N4	(4) N4	3.2
JE 5.12 / 10.50	5-1/8 x 10-1/2	3940	4050	1000	11 ga.	1-7/8	(12) N4	(4) N4	(4) N4	3.6
JE 5.12 / 12.00	5-1/8 x 12	4315	4425	1500	7 ga.	2-3/8	(14) N4	(6) N4	(4) N4	7.3
JE 5.12 / 13.50	5-1/8 x 13-1/2	4315	4425	1500	7 ga.	2-3/8	(14) N4	(6) N4	(4) N4	7.9
JE 5.12 / 15.00	5-1/8 x 15	5540	5760	2000	7 ga.	2-3/8	(18) N4	(8) N4	(6) N4	9.0
JE 5.12 / 16.50	5-1/8 x 16-1/2	6250	7185	2000	7 ga.	2-3/8	(20) N4	(8) N4	(6) N4	9.6
JE 5.12 / 18.00	5-1/8 x 18	7130	8200	2500	7 ga.	2-3/8	(24) N4	(10) N4	(6) N4	10.3
JE 5.12 / 19.50	5-1/8 x 19-1/2	7570	8705	2500	7 ga.	2-3/8	(26) N4	(10) N4	(6) N4	10.9
JE 5.12 / 21.00	5-1/8 x 21	8000	9200	3000	7 ga.	2-3/8	(28) N4	(12) N4	(6) N4	11.5
JE 5.12 / 22.50	5-1/8 x 22-1/2	8000	9200	3000	7 ga.	2-3/8	(28) N4	(12) N4	(6) N4	12.2
JE 5.12 / 24.00	5-1/8 x 24	8000	9200	3000	7 ga.	2-3/8	(28) N4	(12) N4	(6) N4	12.8

Bulk packed in cartons.
N4 Nails are 40d x 2-1/2" ring shank.
Larger and special sizes available.

Made with AMERICAN steel

WELDED GLULAM SADDLE HANGERS



WGS
Welded Saddle

Welded Glulam Saddle Hangers are made from ASTM A-36 steel, welded by certified welders. When ordering advise load, uplift and header conditions.

WGS and WGH saddle hangers are stock items.

MATERIAL: ASTM A-36 steel.
FINISH: Black copolymer paint .
OPTION: Hot-dip galvanized or stainless steel, available as a special order.

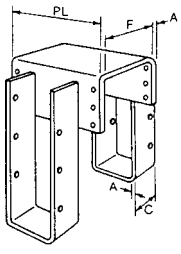
WGS and WGH Style Hangers are designed to UBC values.

WELDED GLULAM SADDLE HANGERS & HOOKOVER STYLE*

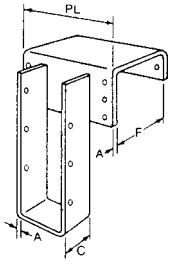
Part Number	Purlin Size	Design Load Lbs.		Uplift	Nails		A	C	F	PL
		Normal	115%		Purlin	Header				
WGS 3.1 / 9	3-1/8x9	4000	4600	1170	4-N4	8-N4	12 ga.	2-1/2	3-1/8	6
WGS 3.1 / 10.5	3-1/8x10-1/2	5100	5370	1755	6-N4	12-N4	11 ga.	3-1/4	3-1/8	6
WGS 3.1 / 12	3-1/8x12	5100	5370	1755	6-N4	12-N4	11 ga.	3-1/4	3-1/8	6
WGS 3.1 / 13-1/2	3-1/8x13-1/2	6360	6720	1755	6-N4	12-N4	3/16	4	5-1/8	8
WGS 3.1 / 15	3-1/8x15	6360	6720	1755	6-N4	12-N4	3/16	4	5-1/8	8
WGS 3.1 / 16-1/2	3-1/8x16-1/2	7700	8070	1755	6-N4	12-N4	3/16	5	5-1/8	12
WGS 3.1 / 18	3-1/8x18	8070	8070	1755	6-N4	12-N4	3/16	5	5-1/8	12
WGS 5.1 / 9	5-1/8x9	6500	6500	1170	4-N4	12-N4	3/16	2-1/2	5-1/8	8
WGS 5.1 / 10.5	5-1/8x10-1/2	8070	8070	1755	6-N4	12-N4	3/16	3	5-1/8	12
WGS 5.1 / 12	5-1/8x12	9100	10320	1755	6-N4	12-N4	1/4	4	5-1/8	12
WGS 5.1 / 13-1/2	5-1/8x13-1/2	9800	11270	1755	6-N4	16-N4	1/4	4	5-1/8	12
WGS 5.1 / 15	5-1/8x15	11200	12570	1755	6-N4	16-N4	1/4	5	5-1/8	12
WGS 5.1 / 16-1/2	5-1/8x16-1/2	11900	12570	2340	8-N4	16-N4	1/4	5	5-1/8	12
WGS 5.1 / 18	5-1/8x18	12570	12570	2340	8-N4	16-N4	1/4	5	5-1/8	12
WGS 6.7 / 9	6-3/4x9	8400	9300	1170	4-N4	8-N4	1/4	3	6-3/4	12
WGS 6.7 / 10.5	6-3/4x10-1/2	9800	10430	1755	6-N4	12-N4	1/4	3	6-3/4	12
WGS 6.7 / 12	6-3/4x12	11200	12400	1755	6-N4	12-N4	1/4	4	6-3/4	12
WGS 6.7 / 13-1/2	6-3/4x13-1/2	11900	13470	1755	6-N4	12-N4	1/4	4	6-3/4	12
WGS 6.7 / 15	6-3/4x15	13300	15500	1755	6-N4	12-N4	1/4	5	6-3/4	12
WGS 6.7 /16-1/2	6-3/4x16-1/2	14000	16950	2340	8-N4	12-N4	1/4	5	6-3/4	12
WGS 6.7 / 18	6-3/4x18	15400	16950	2340	8-N4	12-N4	1/4	5	6-3/4	12

*Any size or load not shown is available upon request. Uplift value cannot be increased.
N4 nails are 40d x 2-1/2 Ring Shank rated at 220 lbs. lateral strength.
GLULAM compression perpendicular to grain is 465 lbs. S.Y.P.
Design loads consider Triangles Bearing Theory and reduce to 50% the compression of hookover plates.
Header nails shown for WGS Saddle Style. WGH Hookover Style require fewer nails.
Design loads shown are for each pocket.
Loads exceeding 10,000 lbs. have a stiffener tab across the back of the pocket at the seat.

Made with AMERICAN steel

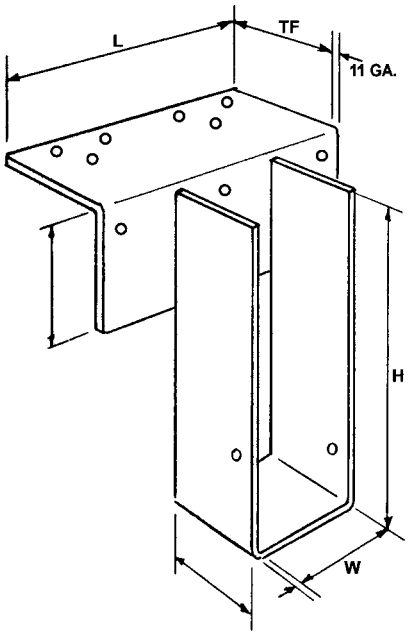


WGS
Welded Glulam Saddle



WGH
Welded Glulam Hookover

WELDED SOLID-SAWN HANGERS



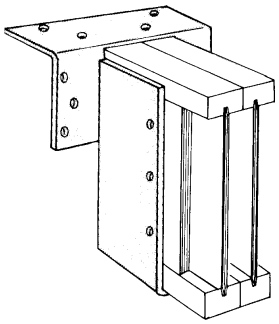
A wide range of sizes for solid-sawn nominal members is included. Full (rough) sizes are available; preceed part no. with (RS) for ordering. Allowable loads are based on group II species (SYP, DFL).

MATERIAL: 11 ga.
FINISH: Black copolymer paint.
OPTION: Hot-dip galvanized or stainless steel, available as a special order.

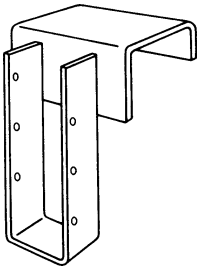
Part Number	Beam/Joist Size	Dimensions				Fastener Schedule		Allowable Loads (lbs.)		
		W	H	L	TF	Header	Joist	100%	115%	125%
WSS 26	2 x 6	1-9/16	5-3/8	6-1/2	2-1/2	(2) 10d	(2) 10d x 1-1/2	2345	2345	2345
WSS 28	2 x 8	1-9/16	7-1/8	6-1/2	2-1/2	(2) 10d	(2) 10d x 1-1/2	2345	2345	2345
WSS 210	2 x 10	1-9/16	9-1/8	6-1/2	2-1/2	(2) 10d	(2) 10d x 1-1/2	2345	2345	2345
WSS 212	2 x 12	1-9/16	11-1/8	6-1/2	2-1/2	(2) 10d	(2) 10d x 1-1/2	2345	2345	2345
WSS 214	2 x 14	1-9/16	13-1/8	6-1/2	2-1/2	(2) 10d	(2) 10d x 1-1/2	2345	2345	2345
WSS 216	2 x 16	1-9/16	15-1/8	6-1/2	2-1/2	(2) 10d	(2) 10d x 1-1/2	2345	2345	2345
WSS 26-2	(2) 2 x 6	3-1/8	5-3/8	7	2-1/2	(2) 10d	(2) 10d	3375	3375	3375
WSS 28-2	(2) 2 x 8	3-1/8	7-1/8	7	2-1/2	(2) 10d	(2) 10d	3375	3375	3375
WSS 210-2	(2) 2 x 10	3-1/8	9-1/8	7	2-1/2	(2) 10d	(2) 10d	3375	3375	3375
WWS 212-2	(2) 2 x 12	3-1/8	11-1/8	7	2-1/2	(2) 10d	(2) 10d	3375	3375	3375
WSS 214-2	(2) 2 x 14	3-1/8	13-1/8	7	2-1/2	(2) 10d	(2) 10d	3375	3375	3375
WSS 216-2	(2) 2 x 16	3-1/8	15-1/8	7	2-1/2	(2) 10d	(2) 10d	3375	3375	3375
WSS 36	3 x 6	2-9/16	5-3/8	6-1/2	2-1/2	(2) 10d	(2) 10d x 1-1/2	2345	2345	2345
WSS 38	3 x 8	2-9/16	7-1/8	6-1/2	2-1/2	(2) 10d	(2) 10d x 1-1/2	2345	2345	2345
WSS 310	3 x 10	2-9/16	9-1/8	6-1/2	2-1/2	(2) 10d	(2) 10d x 1-1/2	2345	2345	2345
WSS 312	3 x 12	2-9/16	11-1/8	7	2-1/2	(2) 10d x 1-1/2	(2) 10d x 1-1/2	3375	3375	3375
WSS 314	3 x 14	2-9/16	13-1/8	7	2-1/2	(2) 10d x 1-1/2	(2) 10d x 1-1/2	3375	3375	3375
WSS 316	3 x 16	2-9/16	15-1/8	7	2-1/2	(2) 10d x 1-1/2	(2) 10d x 1-1/2	3375	3375	3375
WSS 46	4 x 6	3-9/16	5-3/8	6-1/2	2-1/2	(2) 10d	(2) 10d	2345	2345	2345
WSSH 46	4 x 6	3-9/16	5-3/8	10	2-1/2	(4) N53	(2) 10d	5345	5345	5345
WSS 48	4 x 8	3-9/16	7-1/8	6-1/2	2-1/2	(2) 10d	(2) 10d	2345	2345	2345
WSSH 48	4 x 8	3-9/16	7-1/8	10	2-3/4	(4) N53	(2) 10d	5345	5345	5345
WSS 410	4 x 10	3-9/16	9-1/8	6-1/2	2-1/2	(2) 10d	(2) 10d	2345	2345	2345
WSSH 410	4 x 10	3-9/16	9-1/8	7	2-1/2	(2) 10d x 1-1/2	(2) 10d	3375	3375	3375
WSSH 410H	4 x 10	3-9/16	9-1/8	10	2-3/4	(4) N53	(2) 10d	5345	5345	5345
WSSH 412	4 x 12	3-9/16	11-1/8	7	2-1/2	(2) 10d x 1-1/2	(2) 10d	3375	3375	3375
WSSH 412H	4 x 12	3-9/16	11	10	2-3/4	(4) N53	(2) 10d	5345	5345	5345
WSSH 414	4 x 14	3-9/16	13-1/8	7	2-1/2	(2) 10d x 1-1/2	(2) 10d	3375	3375	3375
WSSH 414H	4 x 14	3-9/16	13	10	2-3/4	(4) N53	(2) 10d	5345	5345	5345
WSSH 416	4 x 16	3-9/16	15-1/8	7	2-1/2	(2) 10d x 1-1/2	(2) 10d	3375	3375	3375
WSSH 416H	4 X 16	3-9/16	15	10	2-3/4	(4) N53	(2) 10d	5345	5345	5345
WSSH 66	6 x 6	5-1/2	5-3/8	7	2-1/2	(2) 10d x 1-1/2	(2) 10d	3375	3375	3375
WSSH 66H	6 x 6	5-1/2	5-3/8	10	2-3/4	(4) N53	(2) 10d	5345	5345	5345
WSSH 68	6 x 8	5-1/2	7-1/8	7	2-1/2	(2) 10d x 1-1/2	(2) 10d	3375	3375	3375
WSSH 68H	6 x 8	5-1/2	7-1/8	10	2-3/4	(4) N53	(2) 10d	5345	5345	5345
WSSH 610	6 x 10	5-1/2	9-1/8	7	2-1/2	(2) 10d x 1-1/2	(2) 10d	3375	3375	3375
WSSH 610H	6 x 10	5-1/2	9-1/8	10	2-3/4	(4) N53	(2) 10d	5345	5345	5345
WSSH 612H	6 x 12	5-1/2	11	10	2-3/4	(4) N53	(2) 10d	5345	5345	5345
WSSH 614H	6 x 14	5-1/2	13	10	2-3/4	(4) N53	(2) 10d	5345	5345	5345
WSSH 616H	6 x 16	5-1/2	15	10	2-3/4	(4) N53	(2) 10d	5345	5345	5345
WSSH 86H	8 x 6	7-1/2	5-3/8	10	2-3/4	(4) N53	(2) 10d	5345	5345	5345
WSSH 88H	8 x 8	7-1/2	7-1/8	10	2-3/4	(4) N53	(2) 10d	5345	5345	5345
WSSH 810H	8 x 10	7-1/2	9-1/8	10	2-3/4	(4) N53	(2) 10d	5345	5345	5345
WSSH 812H	8 x 12	7-1/2	11	10	2-3/4	(4) N53	(2) 10d	5345	5345	5345
WSSH 814H	8 x 14	7-1/2	13	10	2-3/4	(4) N53	(2) 10d	5345	5345	5345
WSSH 816H	8 x 16	7-1/2	15	10	2-3/4	(4) N53	(2) 10d	5345	5345	5345
3.12 GL	3.12 LAM	3-1/8	*	10	2-1/2	(4) N4	(2) 10d	5185	—	—
5.12GL	5.12 LAM	5-1/8	*	10	2 1/2	(4) N4	(2) 10d	5185	—	—

*Specify Depth

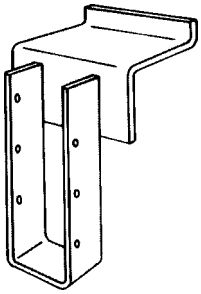
WELDED MASONRY HANGERS



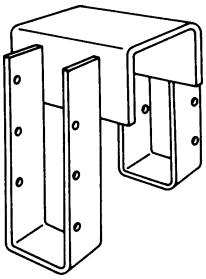
WP
Welded Masonry



WMH
Welded Masonry Hookover



WMR
Welded Masonry Return



WMS
Welded Masonry Saddle

WP Style Hangers are designed to UBC values. Made from ASTM A-36 steel, welded by certified welders.

Welded Masonry Hangers are placed in block under construction, eliminating the need for beam pockets. Anchorage is made by inserting two 16d duplex nails through the tabs into the cavity and grout.

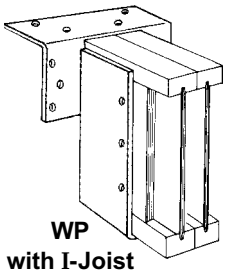
Welded Masonry Hookover, Return, and Saddle type hangers are available on request.

MATERIAL: 11 ga.
FINISH: Black copolymer paint.
OPTION: Hot-dip galvanized or stainless steel, available as a special order.

Part Number	Beam/ Joist Size	Steel Gauge	Dimensions		Fastener Schedule		Allowable Loads (lbs.)		
							Floor	Roof	
			W	H	Block	Joist	100%	Snow 115%	Non-Snow 125%
WP-210	2 x 10	11	1-9/16	9-1/4	(2) 16d duplex	(2) 10d x 1-1/2	2545	2575	2595
WP-212	2 x 12	11	1-9/16	11-1/4	(2) 16d duplex	(2) 10d x 1-1/2	2545	2575	2595
WP-214	2 x 14	11	1-9/16	13-1/8	(2) 16d duplex	(2) 10d x 1-1/2	2545	2575	2595
WP-216	2 x 16	11	1-9/16	15-1/8	(2) 16d duplex	(2) 10d x 1-1/2	2575	2575	2595
WP-210-2	(2) 2 x 10	11	3-1/8	9-1/4	(2) 16d duplex	(2) 10d	4225	4225	4225
WP-212-2	(2) 2 x 12	11	3-1/8	11-1/4	(2) 16d duplex	(2) 10d	4225	4225	4225
WP-214-2	(2) 2 x 14	11	3-1/8	13-1/8	(2) 16d duplex	(2) 10d	4225	4225	4225
WP-216-2	(2) 2 x 16	11	3-1/8	15-1/8	(2) 16d duplex	(2) 10d	4225	4225	4225
WP-310	3 x 10	11	2-9/16	9-1/4	(2) 16d duplex	(2) 10d x 1-1/2	4105	4135	4155
WP-312	3 x 12	11	2-9/16	11-1/4	(2) 16d duplex	(2) 10d x 1-1/2	4105	4135	4155
WP-314	3 x 14	11	2-9/16	13-1/8	(2) 16d duplex	(2) 10d x 1-1/2	4105	4135	4155
WP-316	3 x 16	11	2-9/16	15-1/8	(2) 16d duplex	(2) 10d x 1-1/2	4105	4135	4155
WP-410	4 x 10	11	3-9/16	9-1/4	(2) 16d duplex	(2) 10d	4225	4225	4225
WP-412	4 x 12	11	3-9/16	11-1/4	(2) 16d duplex	(2) 10d	4225	4225	4225
WP-414	4 x 14	11	3-9/16	13-1/8	(2) 16d duplex	(2) 10d	4225	4225	4225
WP-416	4 x 16	11	3-9/16	15-1/8	(2) 16d duplex	(2) 10d	4225	4225	4225
WP-610	6 x 10	11	5-9/16	9-1/4	(2) 16d duplex	(2) 10d	4225	4225	4225
WP-612	6 x 12	11	5-9/16	11-1/4	(2) 16d duplex	(2) 10d	4225	4225	4225
WP-614	6 x 14	11	5-9/16	13-1/8	(2) 16d duplex	(2) 10d	4225	4225	4225
WP-616	6 x 16	11	5-9/16	15-1/8	(2) 16d duplex	(2) 10d	4225	4225	4225
WP-810	8 x 10	11	7-9/16	9-1/4	(2) 16d duplex	(2) 10d	4225	4225	4225
WP-812	8 x 12	11	7-9/16	11-1/4	(2) 16d duplex	(2) 10d	4225	4225	4225
WP-814	8 x 14	11	7-9/16	13-1/8	(2) 16d duplex	(2) 10d	4225	4225	4225
WP-816	8 x 16	11	7-9/16	15-1/8	(2) 16d duplex	(2) 10d	4225	4225	4225
3.15 GLM	3-1/8 x glulam	11	3-1/4	*	(2) 16d duplex	(2) 10d	4225	4225	4225
5.12 GLM	5-1/8 x glulam	11	5-1/4	*	(2) 16d duplex	(2) 10d	4225	4225	4225

*Specify Depth

WELDED HANGERS FOR SPECIAL APPLICATIONS



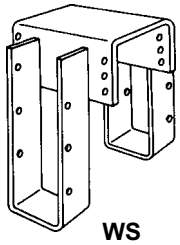
WP
with I-Joist

W Style Hangers are made to order for your load and application. Cleveland designs special hangers to UBC requirements. When ordering advise load, uplift and header conditions.

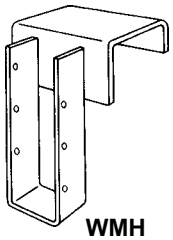
WP Welded Plate Hangers are designed for masonry applications, heavy LVL loads or multiple ply I-joists and LVL. All sizes available, each with bearing length and steel gauge to fit the load requirements.

WGS and WGH saddle hangers are stock items.

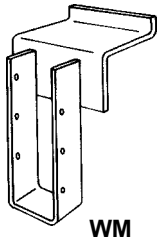
MATERIAL: ASTM A-36 11 ga., 3/16 and 1/4 ga.
FINISH: Black copolymer paint.
OPTION: Hot-dip galvanized or stainless steel, available as a special order.



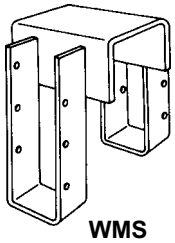
WS
Welded Saddle



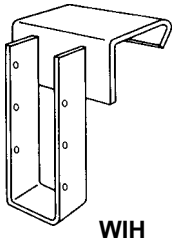
WMH
Welded Masonry Hookover



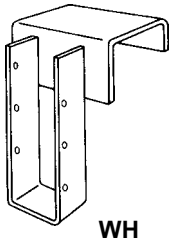
WM
Welded Masonry



WMS
Welded Masonry Saddle

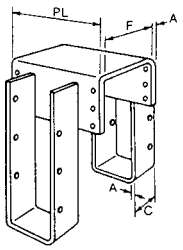


WIH
Welded I-Beam Hookover

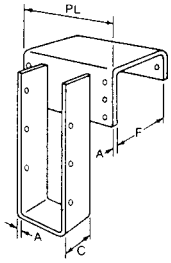


WH
Welded Hookover

WGS and WGH Style Hangers are designed to UBC values. These hangers are welded by certified welders.



WGS
Welded Glulam Saddle



WGH
Welded Glulam Hookover

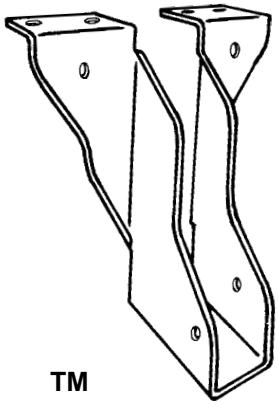
WELDED GLULAM SADDLE HANGERS & HOOKOVER STYLE FOR STEEL I-BEAM*

Part Number	Purlin Size	Design Load Lbs.		Uplift	Nails		A	C	F	PL
		Normal	115%		Purlin	Header				
WGS 3.1 / 9	3-1/8x9	4000	4600	1170	4-N4	8-N4	11 ga.	2-1/2	PLEASE SPECIFY	6
WGS 3.1 / 10.5	3-1/8x10-1/2	5100	5370	1755	6-N4	12-N4	11 ga.	3-1/4		6
WGS 3.1 / 12	3-1/8x12	5100	5370	1755	6-N4	12-N4	11 ga.	3-1/4		6
WGS 3.1 / 13-1/2	3-1/8x13-1/2	6360	6720	1755	6-N4	12-N4	3/16	4		8
WGS 3.1 / 15	3-1/8x15	6360	6720	1755	6-N4	12-N4	3/16	4		8
WGS 3.1 / 16-1/2	3-1/8x16-1/2	7700	8070	1755	6-N4	12-N4	3/16	5		12
WGS 3.1 / 18	3-1/8x18	8070	8070	1755	6-N4	12-N4	3/16	5		12
WGS 5.1 / 9	5-1/8x9	6500	6500	1170	4-N4	12-N4	3/16	2-1/2	PLEASE SPECIFY	8
WGS 5.1 / 10.5	5-1/8x10-1/2	8070	8070	1755	6-N4	12-N4	3/16	3		12
WGS 5.1 / 12	5-1/8x12	9100	10320	1755	6-N4	12-N4	1/4	4		12
WGS 5.1 / 13-1/2	5-1/8x13-1/2	9800	11270	1755	6-N4	16-N4	1/4	4		12
WGS 5.1 / 15	5-1/8x15	11200	12570	1755	6-N4	16-N4	1/4	5		12
WGS 5.1 / 16-1/2	5-1/8x16-1/2	11900	12570	2340	8-N4	16-N4	1/4	5		12
WGS 5.1 / 18	5-1/8x18	12570	12570	2340	8-N4	16-N4	1/4	5		12
WGS 6.7 / 9	6-3/4x9	8400	9300	1170	4-N4	8-N4	1/4	3	PLEASE SPECIFY	12
WGS 6.7 / 10.5	6-3/4x10-1/2	9800	10430	1755	6-N4	12-N4	1/4	3		12
WGS 6.7 / 12	6-3/4x12	11200	12400	1755	6-N4	12-N4	1/4	4		12
WGS 6.7 / 13-1/2	6-3/4x13-1/2	11900	13470	1755	6-N4	12-N4	1/4	4		12
WGS 6.7 / 15	6-3/4x15	13300	15500	1755	6-N4	12-N4	1/4	5		12
WGS 6.7 /16-1/2	6-3/4x16-1/2	14000	16950	2340	8-N4	12-N4	1/4	5		12
WGS 6.7 / 18	6-3/4x18	15400	16950	2340	8-N4	12-N4	1/4	5		12

*Any size or load not shown is available upon request. Uplift value cannot be increased.
N4 nails are 40d x 2-1/2 Ring Shank rated at 220 lbs. lateral strength.
GLULAM compression perpendicular to grain is 465 lbs. S.Y.P.
Design loads consider Triangles Bearing Theory and reduce to 50% the compression of hookover plates.
Header nails shown for WGS Saddle Style. WGH Hookover Style require fewer nails.
Design loads shown are for each pocket.
Loads exceeding 10,000 lbs. have a stiffener tab across the back of the pocket at the seat.

Made with AMERICAN steel

TOPMOUNT HANGERS



TM

Nail these **TM Hangers** to ledgers, headers, trusses and carry 1350 lb. safe load. Top flanges 2-1/8" x 1-7/16" and deep 2-1/8" seats.

MATERIAL: 18 ga.
FINISH: Galvanized G60.

Code Report:
BOCA, ICBO, SBCCI No. NER 464.

ADVANTAGE . . . TOPMOUNT
They Install Fast, Plumb & True

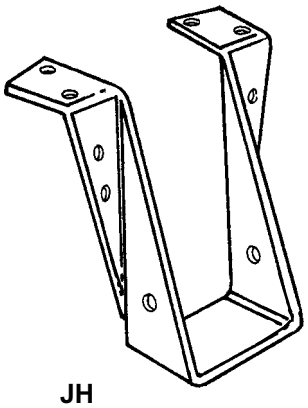
Part Number	Joist Size	Design Load	Nailing*		Per Carton
			Header	Joist	
TM-26	2 x 6	1350	(6) 10d x 1-1/2	(2) 10d x 1-1/2	50
TM-28	2 x 8	1350	(6) 10d x 1-1/2	(2) 10d x 1-1/2	36
TM-210	2 x 10	1350	(6) 10d x 1-1/2	(2) 10d x 1-1/2	30
TM-212	2 x 12	1350	(6) 10d x 1-1/2	(2) 10d x 1-1/2	30

***Nails not included.**

HEAVY DUTY

JH Hangers are the original heavy-duty design pioneered by Cleveland. The JH hanger may be field welded at the top flange and carry the charted loads.

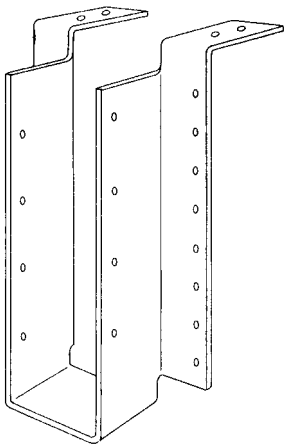
MATERIAL: 11 ga. FINISH: Black copolymer paint.



JH

JH / JE HANGERS FOR NOMINAL LUMBER

Part Number	Actual Size	Design Load		Seat Depth	Nailing		Top Flange	Lbs. Each
		Normal	115%		Header	Joist		
JH-26	1-1/2 x 5-3/8	1845	1870	1-3/4	(6) 16d	(2) 10d x 1-1/2	2-1/2	1.0
JH-28	1-1/2 x 7-1/8	2080	2110	2	(8) 16d	(2) 10d x 1-1/2	2-1/2	1.3
JH-210	1-1/2 x 9-1/8	2080	2110	2	(8) 16d	(2) 10d x 1-1/2	2-1/2	1.6
JH-212	1-1/2 x 11-1/8	2080	2110	2	(8) 16d	(2) 10d x 1-1/2	2-1/2	1.8
JH-36	2-1/2 x 5-3/8	3330	3360	2	(8) 16d	(2) 10d x 1-1/2	3	1.2
JH-38	2-1/2 x 7-1/8	3330	3360	2	(10) 16d	(2) 10d x 1-1/2	3	1.4
JH-310	2-1/2 x 9-1/8	3530	3590	2	(12) 16d	(4) 10d x 1-1/2	3	1.8
JE-312	2-1/2 x 11-1/8	4335	4430	2-3/8	(14) 16d	(6) 10d x 1-1/2	2-11/16	4.2
JH (D) 26	3 x 5-3/8	3955	3985	2	(8) 16d	(2) 10d	2-3/4	1.2
JH (D) 28	3 x 7-1/8	3955	3985	2	(10) 16d	(2) 10d	2-3/4	1.4
JH (D) 210	3 x 9-1/8	4155	4220	2	(12) 16d	(4) 10d	2-3/4	1.8
JH (D) 212	3 x 11-1/8	4415	5075	2-3/8	(16) 16d	(8) 10d	2-7/16	4.2
JE- (T) 210	4-5/8 x 9-1/8	5620	6460	2-3/8	(18) 16d	(6) 16d	3-1/2	3.9
JE (T) 212	4-5/8 x 11-1/8	6490	7460	2-3/8	(24) 16d	(8) 16d	3-1/2	4.2
JH-46	3-1/2 x 5-3/8	4255	4420	2	(8) 16d	(2) 16d	2-1/2	1.2
JH-48	3-1/2 x 7-1/8	4535	4710	2	(10) 16d	(2) 16d	2-1/2	1.4
JH-410	3-1/2 x 9-1/8	4815	5025	2	(12) 16d	(4) 16d	2-1/2	1.8
JE-412	3-1/2 x 11-1/8	4940	5375	2-3/8	(20) 16d	(8) 16d	2-1/2	4.3
JE-414	3-1/2 x 13-1/8	5535	5710	2-3/8	(24) 16d	(8) 16d	2-1/2	4.9
JE-68	5-1/2 x 7-3/8	4180	4480	2-3/8	(14) 16d	(4) 16d	2-1/2	3.5
JE-610	5-1/2 x 9-3/8	5910	6345	2-3/8	(20) 16d	(6) 16d	3-1/2	4.3
JE-612	5-1/2 x 11-3/8	6435	6955	2-3/8	(24) 16d	(8) 16d	3-7/16	4.9
JHS-28	(2) 1-1/2 x 7-1/8	4160	4784	2	—	(2) 10d x 1-1/2	2-1/2	3.0
JHS-210	(2) 1-1/2 x 9-1/8	4160	4784	2	—	(2) 10d x 1-1/2	2-1/2	3.2
JHH-28	1-1/2 x 7-1/8	2080	2392	2	—	(2) 10d x 1-1/2	2-1/2	2.5
JHH-210	1-1/2 x 9-1/8	2080	2392	2	—	(2) 10d x 1-1/2	2-1/2	2.8

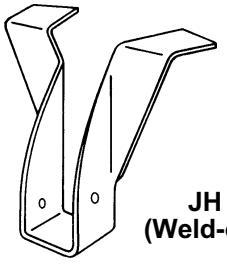


JE

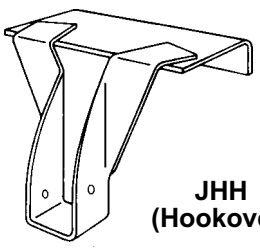
SADDLE and HOOKOVER HANGERS for MASONRY

JHS Saddle Hangers straddle party walls in town houses and condos. Two JH hangers are butt welded (or strap welded) and install quickly at the job site.

JHH Hookover Hangers used at end walls speed installation. Plate (or straps) welded to JH hangers can hook into or over masonry and save labor.



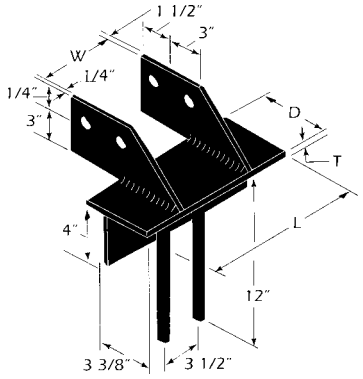
JH
(Weld-on)



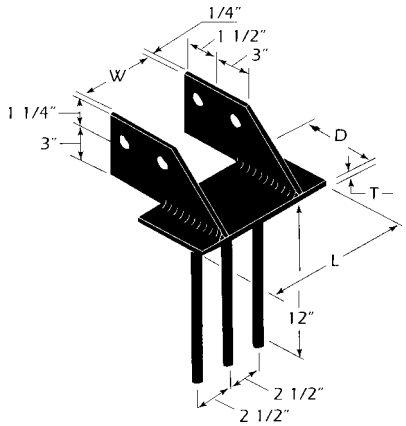
JHH
(Hookover)

BEAM SEATS

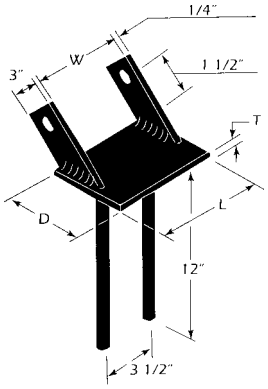
Beam Seats anchor glulam beams to concrete and masonry supports. Seismic and wind resistance is provided. Special types are available.
MATERIAL: 3 ga., 5/16" and 3/8". FINISH: Black copolymer paint.
OPTIONAL: Hot-dip galvanized or stainless steel, available as a special order.



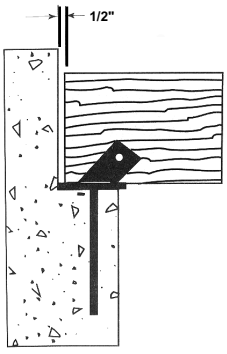
BSBT



BSHB



BSB



Duration of load increases of 33% and 60% are listed. Further increases are not allowed. Allowable loads for concrete, masonry, and wood to be verified by design engineer.

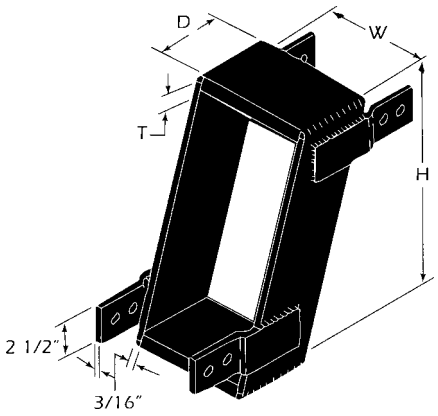
BEAM SEATS

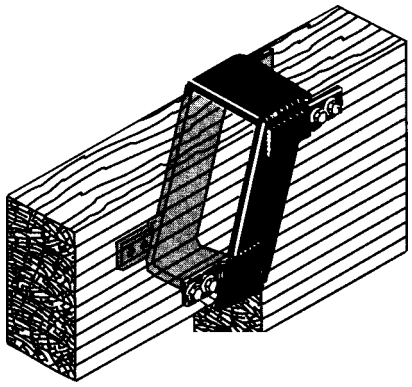
Part Number	Dimensions				Bolts Schedule	Allowable Loads (lbs.)						
	W	L	T	D		Masonry F'_m=172.5 PSI	Masonry F'_m=390 PSI	Concrete F'_c=750 PSI	Horizontal 133%	Horizontal 160%	Uplift 133%	Uplift 160%
BSB-5A	5-1/4	7	3 ga.	5	(1) 5/8	6040	12075	12075	2885	3460	1705	2045
BSB-5B	5-1/4	7	3 ga.	6	(1) 5/8	7245	14490	14490	2885	3460	1705	2045
BSB-5C	5-1/4	7	3 ga.	7	(1) 5/8	8455	16905	16905	2885	3460	1705	2045
BSB-5D	5-1/4	7	3 ga.	8	(1) 5/8	9660	19320	19320	2885	3460	1705	2045
BSB-7A	6-7/8	9	3/8"	5	(1) 3/4	7765	15525	15525	4100	4920	2330	2800
BSB-7B	6-7/8	9	3/8"	6	(1) 3/4	9315	18630	18630	4100	4920	2330	2800
BSB-7C	6-7/8	9	3/8"	7	(1) 3/4	10870	21735	21735	4100	4920	2330	2800
BSB-7D	6-7/8	9	3/8"	8	(1) 3/4	12420	24840	24840	4100	4920	2330	2800

BEAM SEATS

Part Number	W	D	L	T	Bolt Schedule	Beam Width (W)								Horizontal		Uplift 133%			Uplift 160%		
						3-1/8	3-1/2	5-1/8	5-1/2	6-3/4	7-1/2	8-3/8	10-3/4	133%	160%	Beam Width (W) 3-1/8	3-1/2	>4-1/2	Beam Width (W) 3-1/8	3-1/2	>4-1/2
F'_c (Perpendicular) = 460 psi																					
Masonry Bearing F'_m = 172.5 psi																					
BSBT-512	spec	5-1/4	12	5/16	(2) 3/4	7575	8450	10870	10870	10870	10870	10870	10870	8195	9835	3250	3640	4665	3900	4370	5595
BSBT-516	spec	5-1/4	16	5/16	(2) 3/4	7575	8450	12375	13285	14490	14490	14490	14490	8195	9835	3250	3640	4665	3900	4370	5595
BSBT-520	spec	5-1/4	20	5/16	(2) 3/4	7575	8450	12375	13285	16300	18115	18115	18115	8195	9835	3250	3640	4665	3900	4370	5595
BSBT-612	spec	6-1/2	12	3/8	(2) 3/4	9345	10465	13455	13455	13455	13455	13455	13455	8195	9835	3250	3640	4665	3900	4370	5595
BSBT-616	spec	6-1/2	16	3/8	(2) 3/4	9345	10465	15325	16455	17940	17940	17940	17940	8195	9835	3250	3640	4665	3900	4370	5595
BSBT-620	spec	6-1/2	20	3/8	(2) 3/4	9345	10465	15325	16445	20185	22425	22425	22425	8195	9835	3250	3640	4665	3900	4370	5595
BSHB A	spec	5	10	3/8	(2) 3/4	7190	8050	8625	8625	8625	8625	8625	—	8195	9835	3250	3640	4665	3900	4370	5595
BSHB B	spec	6	10	3/8	(2) 3/4	8625	9660	10350	10350	10350	10350	10350	—	8195	9835	3250	3640	4665	3900	4370	5595
BSHB C	spec	7	10	3/8	(2) 3/4	10065	11270	12075	12075	12075	12075	12075	—	8195	9835	3250	3640	4665	3900	4370	5595
BSHB D	spec	8	10	3/8	(2) 3/4	11500	12880	13800	13800	13800	13800	13800	—	8195	9835	3250	3640	4665	3900	4370	5595
Masonry Bearing F'_m = 390 psi and Greater Concrete Bearing F'_c = 750 psi and Greater																					
BSBT-512	spec	5-1/4	12	5/16	(2) 3/4	7575	8450	12375	13285	16300	18115	21130	25960	8195	9835	3250	3640	4665	3900	4370	5595
BSBT-516	spec	5-1/4	16	5/16	(2) 3/4	7575	8450	12375	13285	16300	18115	21130	25960	8195	9835	3250	3640	4665	3900	4370	5595
BSBT-520	spec	5-1/4	20	5/16	(2) 3/4	7575	8450	12375	13285	16300	18115	21130	25960	8195	9835	3250	3640	4665	3900	4370	5595
BSBT-612	spec	6-1/2	12	3/8	(2) 3/4	9345	10465	15325	16445	20185	22425	26160	32145	8195	9835	3250	3640	4665	3900	4370	5595
BSBT-616	spec	6-1/2	16	3/8	(2) 3/4	9345	10465	15325	16445	20185	22425	26160	32145	8195	9835	3250	3640	4665	3900	4370	5595
BSBT-620	spec	6-1/2	20	3/8	(2) 3/4	9345	10465	15325	16445	20185	22425	26160	32145	8195	9835	3250	3640	4665	3900	4370	5595
BSHB A	spec	5	10	3/8	(2) 3/4	7190	8050	11790	12650	15525	17250	19500	—	8195	9835	3250	3640	4665	3900	4370	5595
BSHB B	spec	6	10	3/8	(2) 3/4	8625	9660	14145	15180	18630	20700	23400	—	8195	9835	3250	3640	4665	3900	4370	5595
BSHB C	spec	7	10	3/8	(2) 3/4	10065	11270	16500	17710	21735	24150	27300	—	8195	9835	3250	3640	4665	3900	4370	5595
BSHB D	spec	8	10	3/8	(2) 3/4	11500	12800	18860	20240	24480	27600	31200	—	8195	9835	3250	3640	4665	3900	4370	5595

GLULAM HINGE CONNECTORS





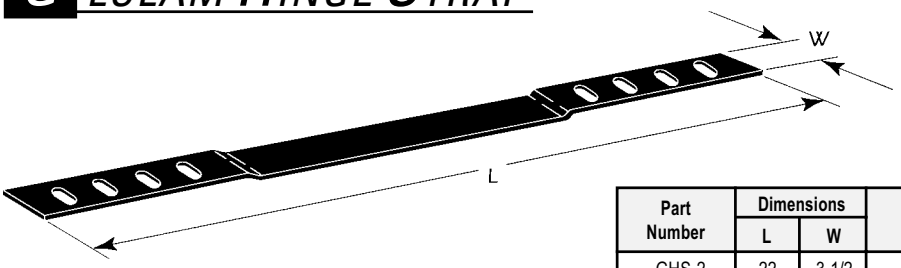
Glulam Hinge Connectors provide a high capacity connection between the cantilevered member and the supported member in positive vs negative moment situations. Members must be of equal width. Special configurations can be furnished to your specifications.

MATERIAL: ASTM A-36 3/4", 1", and 1 1/4".
FINISH: Black copolymer paint.
OPTION: Hot-dip galvanized available as a special order.

Part Number	Beam Width	Dimensions				Bolt Schedule		Allowable Loads (lbs.)		
		W	Min. H	D	T	Carrying Member	Carried Member	Floor	Roof	
								100%	Snow	Non-Snow
									115%	125%
GHC-55	5-1/8	5-1/4	9	5	3/4	(2) 3/4	(2) 3/4	14415	14415	14415
GHC-56	5-1/8	5-1/4	9	6	3/4	(2) 3/4	(2) 3/4	17300	17300	17300
GHC-57	5-1/8	5/1/4	9	7	3/4	(2) 3/4	(2) 3/4	20180	20180	20180
GHC-59	5-1/8	5-1/4	9	9	3/4	(2) 3/4	(2) 3/4	25945	25945	25945
GHC-75	6-3/4	6-7/8	9	5	1	(2) 3/4	(2) 3/4	18985	18985	18985
GHC-76	6-3/4	6-7/8	9	6	1	(2) 3/4	(2) 3/4	22780	22780	22780
GHC-77	6-3/4	6-7/8	9	7	1	(2) 3/4	(2) 3/4	26580	26580	26580
GHC-79	6-3/4	6-7/8	9	9	1	(2) 3/4	(2) 3/4	34170	34170	34170
GHC-95	8-3/4	8-7/8	9	5	1-1/4	(2) 3/4	(2) 3/4	24610	24610	24610
GHC-96	8-3/4	8-7/8	9	6	1-1/4	(2) 3/4	(2) 3/4	29530	29530	29530
GHC-97	8-3/4	8-7/8	9	7	1-1/4	(2) 3/4	(2) 3/4	34450	34450	34450
GHC-99	8-3/4	8-7/8	9	9	1-1/4	(2) 3/4	(2) 3/4	44300	44300	44300

Allowable loads assume 565 psi bearing; no increase is permitted.

GLULAM HINGE STRAP



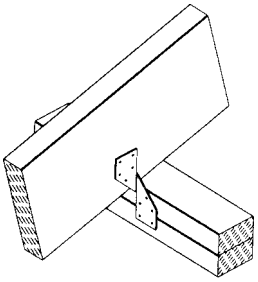
GHS provide additional lateral load capacity when used with GHC connectors. The offset center section provides clearance for hinge connectors.

MATERIAL: 7 ga.
FINISH: Black copolymer paint.
OPTION: Hot-dip galvanized available as a special order.

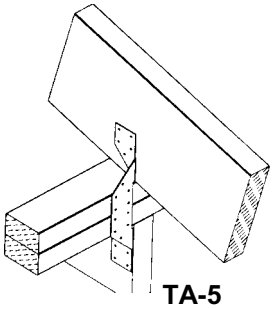
Part Number	Dimensions		Bolt Schedule	Allowable Loads (lbs.)	
	L	W		133%	160%
GHS-2	22	3-1/2	(4) 3/4	8040	9650
GHS-3	28	3-1/2	(6) 3/4	11815	14180
GHS-4	34	3-1/2	(8) 3/4	15265	16130

GHS Straps are installed in pairs in conjunction with glulam hinge connectors. Seismic load duration of load increases of 33% and 60% are listed; no additional increases are permitted. Minimum member width = 5-1/8". Add "R" to part number if round holes are required, i.e., GHS 2R.

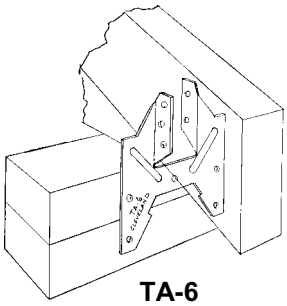
WIND ANCHORS



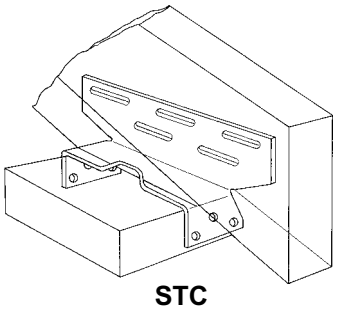
TA-4



TA-5



TA-6



STC

TA-4 Truss Anchor attaches to double wall plate. May be used back to back for greater uplift value. Available as TA-4N (packaged with nails).

TA-5 Truss Anchor ties a truss to wall plate and stud.

TA-6 Truss Anchor provides high uplift rating. Attaches to double wall plate. Truss flanges formed in opposite directions to accept 8d nails.

FA-1 Framing Anchor ties a truss to single wall plate. Available right or left hand. Must use same hand for back to back installation. Nails included.

STC anchor scissor trusses while permitting the truss to move outward reducing wall buckle. The STC base reduces friction 20%. Slotted holes allow a full 1" movement and the formed lip retains the truss during nailing. Heavy-duty 16 gauge galvanized steel. Made for nominal 4", 6" and 8" wall plates.

MATERIAL: 18 ga. FINISH: Galvanized G60

CLEVELAND TRUSS ANCHORS

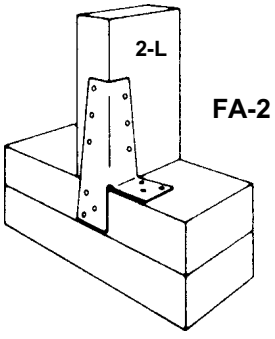
Part Number	Uplift Max.*	Nail Schedule			Gauge	Width	Height
		Truss	Plate	Stud			
TA-4	430	(4) 8d x 1-1/4"	(4) 8d x 1-1/4"	—	18	1-1/2"	5-3/4"
TA-5	400	(4) 8d	(2) 8d	(4) 8d	18	1-1/2"	10-1/2"
TA-6	550	(5) 8d	(5) 8d	—	18	4	4-7/8"
STC-4	500	(4) 8d	(5) 8d	—	16	3-1/2"	3-9/16"
STC-6	500	(5) 8d	(6) 8d	—	16	5-1/2"	3-9/16"
STC-8	500	(5) 8d	(6) 8d	—	16	7-1/4"	3-9/16"
FA-1	315	(3) 8d x 1-1/4"	(3) 8d x 1-1/4"	—	18	1-1/2"	4-3/4"
FA-2	315	(3) 8d x 1-1/4"	(3) 8d x 1-1/4"	—	18	1-1/2"	4-3/4"
FA-3	630	(3) 8d x 1-1/4"	(3) 8d x 1-1/4"	—	18	1-1/2"	4-3/4"

*Uplift has been increased 33% for wind. No further increase allowed

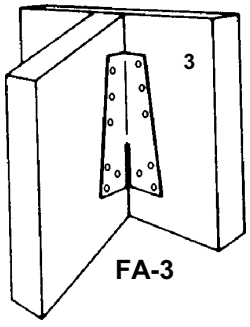
Code Report: BOCA, ICBO, SBCCI No. NER 464

FRAMING ANCHORS

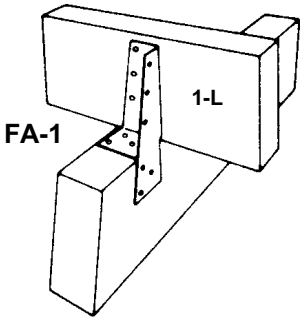
Framing Anchors are designed for proper nail location to avoid splitting. They solve many framing conditions where a better than toenail connection is desired. FA-1, FA-2 and FA-3 are4-3/4" high with 15/16" x 15/16" top angle and 1-1/2" x 1-1/2" lower flanges. Tabs are 1-1/2" long. Special 11 gauge x 1-1/4“ nails packed in all cartons. FA-1 and FA-2 are available in right or left hand. Packed 100 per carton including nails. MATERIAL: 18 ga. FINISH: Galvanized G60.



FA-2



FA-3



FA-1