

# Allowable Loads for Reduced Truss Heel Heights

Several considerations are involved in the selection of a hanger for a truss-to-truss connection. One of the responsibilities of the designer is to verify that all of the dimensions of the wood members are sufficient to receive the specified fasteners.

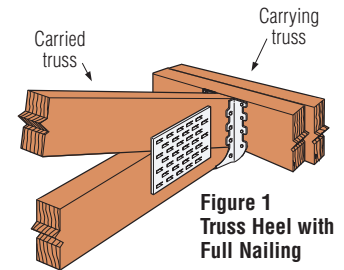
In addition to checking the carrying member for adequate size and thickness, the end condition of the carried truss (see Figure 1) must also be evaluated to determine whether there is adequate heel height in the hanger. If all of the required fastener holes do not have solid wood for the fasteners to penetrate, the allowable load for the hanger may be reduced. Figure 2 illustrates this condition.

The minimum heel height required to achieve full nailing varies from hanger to hanger, depending on the locations of the nail holes for the carried member. The minimum heel height for each hanger is defined as the distance from the top of the bearing seat to the upper-most nail, plus  $\frac{3}{8}$ " for adequate edge distance. Minimum heel heights for several truss hangers are shown in the table below.

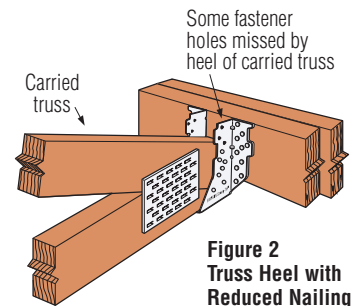
**Table 1 — Minimum Heel Heights Required for Full Nailing**

Model No.	Min. Heel Height (in.)	Fasteners in Carried Truss (in.)
<b>Single 2x Sizes</b>		
LUS26	4 $\frac{1}{4}$	(4) 0.148 x 3
MUS26	4 $\frac{1}{16}$	(6) 0.148 x 3
HUS26	4 $\frac{5}{16}$	(6) 0.162 x 3 $\frac{1}{2}$
HGUS26	4 $\frac{9}{16}$	(8) 0.162 x 3 $\frac{1}{2}$
LUS28	4 $\frac{3}{16}$	(4) 0.148 x 3
MUS28	6 $\frac{5}{16}$	(8) 0.148 x 3
HUS28	6 $\frac{1}{2}$	(8) 0.162 x 3 $\frac{1}{2}$
HGUS28	6 $\frac{9}{16}$	(12) 0.162 x 3 $\frac{1}{2}$
<b>Double 2x Sizes</b>		
LUS26-2	4 $\frac{9}{16}$	(4) 0.162 x 3 $\frac{1}{2}$
HHUS26-2	4 $\frac{5}{16}$	(6) 0.162 x 3 $\frac{1}{2}$
HGUS26-2	4 $\frac{9}{16}$	(8) 0.162 x 3 $\frac{1}{2}$
LUS28-2	4 $\frac{9}{16}$	(4) 0.162 x 3 $\frac{1}{2}$
HHUS28-2	6 $\frac{9}{16}$	(8) 0.162 x 3 $\frac{1}{2}$
HGUS28-2	6 $\frac{9}{16}$	(12) 0.162 x 3 $\frac{1}{2}$
<b>Triple 3x Sizes</b>		
HGUS26-3	4 $\frac{13}{16}$	(8) 0.162 x 3 $\frac{1}{2}$
HGUS28-3	6 $\frac{13}{16}$	(12) 0.162 x 3 $\frac{1}{2}$
<b>Quadruple 4x Sizes</b>		
HGUS26-4	4 $\frac{13}{16}$	(8) 0.162 x 3 $\frac{1}{2}$
HGUS28-4	6 $\frac{13}{16}$	(12) 0.162 x 3 $\frac{1}{2}$

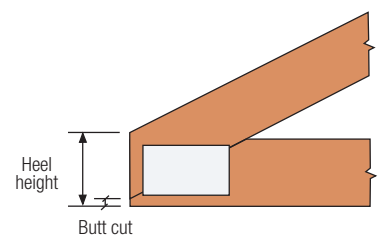
1. Minimum heel height shown is required to achieve full table loads in the *Wood Construction Connectors* catalog. For heel heights less than the minimums listed, refer to the Reduced Heel Height Allowable Loads tables on pp. 2 and 3.



**Figure 1  
Truss Heel with Full Nailing**



**Figure 2  
Truss Heel with Reduced Nailing**



Heel heights that are less than the minimums in Table 1 do not achieve full nailing in the carried truss (see Figure 2).



# Allowable Loads for Reduced Truss Heel Heights

**TABLE 2 — Reduced Heel Height Allowable Loads (DF/SP)**

Model No.	Reduced Heel Height (in.)	No. of Carrying Member Plies	Joist Nails	Face Nails	Uplift	2x6 Carrying Member				2x8 Carrying Member				2x10 Carrying Member				
						Floor	Snow	Roof	Wind	Floor	Snow	Roof	Wind	Floor	Snow	Roof	Wind	
						(160)	(100)	(115)	(125)	(160)	(100)	(115)	(125)	(160)	(100)	(115)	(125)	(160)
LUS26	3 1/2	1	(3) 0.148 x 3	(4) 0.148 x 3	765	765	875	940	1,000	765	840	840	840	765	800	800	800	
		2	(3) 0.148 x 3	(4) 0.148 x 3	765	765	875	940	1,190	765	875	940	1,190	765	875	940	1,190	
MUS26	3 1/2	1	(4) 0.148 x 3	(6) 0.148 x 3	900	1,100	1,260	1,350	1,390	985	985	985	985	875	875	875	875	
		2	(4) 0.148 x 3	(6) 0.148 x 3	900	1,100	1,260	1,350	1,420	1,100	1,260	1,350	1,420	1,100	1,260	1,350	1,420	
HUS26	3 1/2	1	(4) 0.148 x 3	(14) 0.148 x 3	900	1,645	1,645	1,645	1,645	1,025	1,025	1,025	1,025	895	895	895	895	
			(4) 0.162 x 3 1/2	(14) 0.162 x 3 1/2	900	2,155	2,155	2,155	2,155	1,025	1,025	1,025	1,025	895	895	895	895	
		2	(4) 0.148 x 3	(14) 0.148 x 3	900	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,785	1,785	1,785	1,785
			(4) 0.162 x 3 1/2	(14) 0.162 x 3 1/2	900	2,495	2,695	2,695	2,695	2,045	2,045	2,045	2,045	1,785	1,785	1,785	1,785	
HGUS26	3 9/16	2	(7) 0.148 x 3	(20) 0.148 x 3	1,365	2,350	2,350	2,350	2,350	2,225	2,225	2,225	2,225	1,865	1,865	1,865	1,865	
			(7) 0.162 x 3 1/2	(20) 0.162 x 3 1/2	1,365	2,830	2,830	2,830	2,830	2,225	2,225	2,225	2,225	1,865	1,865	1,865	1,865	
LUS28	3 1/2	1	(3) 0.148 x 3	(6) 0.148 x 3	765	765	875	940	1,190	1,000	1,145	1,230	1,245	1,000	1,145	1,230	1,245	
		2	(3) 0.148 x 3	(6) 0.148 x 3	765	765	875	940	1,190	1,000	1,145	1,230	1,480	1,000	1,145	1,230	1,480	
MUS28	3 1/2	1	(4) 0.148 x 3	(8) 0.148 x 3	900	1,100	1,260	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300	
		2	(4) 0.148 x 3	(8) 0.148 x 3	900	1,100	1,260	1,350	1,690	1,335	1,530	1,640	1,690	1,335	1,530	1,640	1,690	
HUS28	3 1/2	1	(4) 0.148 x 3	(22) 0.148 x 3	900	1,560	1,560	1,560	1,560	1,560	1,560	1,560	1,560	1,560	1,560	1,560	1,560	
			(4) 0.162 x 3 1/2	(22) 0.162 x 3 1/2	900	2,780	2,980	2,980	2,980	2,780	2,980	2,980	2,980	1,580	1,580	1,580	1,580	
		2	(4) 0.148 x 3	(22) 0.148 x 3	900	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950
			(4) 0.162 x 3 1/2	(22) 0.162 x 3 1/2	900	2,780	3,150	3,395	3,545	3,290	3,355	3,395	3,545	3,160	3,160	3,160	3,160	
HGUS28	3 9/16	2	(7) 0.148 x 3	(36) 0.148 x 3	1,365	3,105	3,105	3,105	3,105	3,105	3,105	3,105	3,105	3,105	3,105	3,105	3,105	
			(7) 0.162 x 3 1/2	(36) 0.162 x 3 1/2	1,365	3,740	3,740	3,740	3,740	3,740	3,740	3,740	3,240	3,240	3,240	3,240		
LUS26-2	3 1/2	1	(3) 0.148 x 3	(4) 0.148 x 3	865	765	875	940	1,190	765	875	925	925	765	845	845	845	
			(3) 0.162 x 3 1/2	(4) 0.162 x 3 1/2	865	915	1,040	1,125	1,355	915	925	925	925	845	845	845	845	
		2	(3) 0.148 x 3	(4) 0.148 x 3	865	765	875	940	1,190	765	875	940	1,190	765	875	940	1,190	
			(3) 0.162 x 3 1/2	(4) 0.162 x 3 1/2	865	915	1,040	1,125	1,415	915	1,040	1,125	1,415	915	1,040	1,125	1,415	
HHUS26-2	3 1/2	2	(4) 0.148 x 3	(14) 0.162 x 3 1/2	915	2,180	2,460	2,490	2,490	2,180	2,245	2,245	2,245	1,875	1,875	1,875	1,875	
			(4) 0.162 x 3 1/2	(14) 0.162 x 3 1/2	915	2,580	2,910	2,995	2,995	2,245	2,245	2,245	2,245	1,875	1,875	1,875	1,875	
HGUS26-2	3 9/16	2	(7) 0.148 x 3	(20) 0.148 x 3	1,365	3,590	3,590	3,590	3,590	2,225	2,225	2,225	2,225	1,865	1,865	1,865	1,865	
			(7) 0.162 x 3 1/2	(20) 0.162 x 3 1/2	1,365	4,325	4,325	4,325	4,325	2,225	2,225	2,225	2,225	1,865	1,865	1,865	1,865	
LUS28-2	3 1/2	1	(3) 0.148 x 3	(6) 0.148 x 3	865	765	875	940	1,190	1,000	1,145	1,230	1,355	1,000	1,145	1,230	1,355	
			(3) 0.162 x 3 1/2	(6) 0.162 x 3 1/2	865	915	1,040	1,125	1,355	1,195	1,355	1,355	1,355	1,195	1,355	1,355	1,355	
		2	(3) 0.148 x 3	(6) 0.148 x 3	865	765	875	940	1,190	1,000	1,145	1,230	1,555	1,000	1,145	1,230	1,555	
			(3) 0.162 x 3 1/2	(6) 0.162 x 3 1/2	865	915	1,040	1,125	1,415	1,195	1,360	1,470	1,695	1,195	1,360	1,470	1,695	
HHUS28-2	3 1/2	2	(4) 0.148 x 3	(22) 0.148 x 3	915	2,435	2,745	2,955	3,070	3,070	3,070	3,070	3,070	3,070	3,070	3,070	3,070	
			(4) 0.162 x 3 1/2	(22) 0.162 x 3 1/2	915	2,880	3,245	3,480	3,700	3,700	3,700	3,700	3,700	3,375	3,375	3,375	3,375	
HGUS28-2	3 9/16	2	(7) 0.148 x 3	(36) 0.148 x 3	1,365	4,230	4,230	4,230	4,230	4,230	4,230	4,230	4,230	3,240	3,240	3,240	3,240	
			(7) 0.162 x 3 1/2	(36) 0.162 x 3 1/2	1,365	5,100	5,100	5,100	5,100	5,100	5,100	5,100	5,100	5,100	3,240	3,240	3,240	
HGUS26-3	3 9/16	2	(7) 0.148 x 3	(20) 0.148 x 3	1,365	3,590	3,590	3,590	3,590	2,225	2,225	2,225	2,225	1,865	1,865	1,865	1,865	
			(7) 0.162 x 3 1/2	(20) 0.162 x 3 1/2	1,365	4,325	4,325	4,325	4,325	2,225	2,225	2,225	2,225	1,865	1,865	1,865	1,865	
HGUS28-3	3 9/16	2	(7) 0.148 x 3	(36) 0.148 x 3	1,365	4,230	4,230	4,230	4,230	4,230	4,230	4,230	4,230	3,240	3,240	3,240	3,240	
			(7) 0.162 x 3 1/2	(36) 0.162 x 3 1/2	1,365	5,100	5,100	5,100	5,100	5,100	5,100	5,100	5,100	3,240	3,240	3,240		
HGUS26-4	3 9/16	2	(7) 0.148 x 3	(20) 0.148 x 3	1,365	3,590	3,590	3,590	3,590	2,225	2,225	2,225	2,225	1,865	1,865	1,865	1,865	
			(7) 0.162 x 3 1/2	(20) 0.162 x 3 1/2	1,365	4,325	4,325	4,325	4,325	2,225	2,225	2,225	2,225	1,865	1,865	1,865	1,865	
HGUS28-4	3 9/16	2	(7) 0.148 x 3	(36) 0.148 x 3	1,365	4,230	4,230	4,230	4,230	4,230	4,230	4,230	4,230	3,240	3,240	3,240	3,240	
			(7) 0.162 x 3 1/2	(36) 0.162 x 3 1/2	1,365	5,100	5,100	5,100	5,100	5,100	5,100	5,100	5,100	3,240	3,240	3,240		

1. See General Notes, p. 4.



# Allowable Loads for Reduced Truss Heel Heights

**TABLE 3 — Reduced Heel Height Allowable Loads (SPF/HF)**

Model No.	Reduced Heel Height (in.)	No. of Carrying Member Plies	Joist Nails	Face Nails	Uplift	2x6 Carrying Member				2x8 Carrying Member				2x10 Carrying Member			
						Floor	Snow	Roof	Wind	Floor	Snow	Roof	Wind	Floor	Snow	Roof	Wind
						(160)	(100)	(115)	(125)	(160)	(100)	(115)	(125)	(160)	(100)	(115)	(125)
LUS26	3 1/2	1	(3) 0.148 x 3	(4) 0.148 x 3	635	660	755	810	86	660	755	800	800	660	755	800	800
		2	(3) 0.148 x 3	(4) 0.148 x 3	635	660	755	810	1,025	660	755	810	1,025	660	755	810	1,025
MUS26	3 1/2	1	(4) 0.148 x 3	(6) 0.148 x 3	775	950	1,080	1,165	1,195	800	800	800	800	800	800	800	800
		2	(4) 0.148 x 3	(6) 0.148 x 3	775	950	1,080	1,165	1,225	950	1,080	1,165	1,225	950	1,080	1,165	1,225
HUS26	3 1/2	1	(4) 0.148 x 3	(14) 0.148 x 3	775	1,415	1,415	1,415	1,415	800	800	800	800	800	800	800	800
			(4) 0.162 x 3 1/2	(14) 0.162 x 3 1/2	775	1,850	1,850	1,850	1,850	800	800	800	800	800	800	800	800
		2	(4) 0.148 x 3	(14) 0.148 x 3	775	1,675	1,675	1,675	1,675	1,535	1,535	1,535	1,535	1,340	1,340	1,340	1,340
			(4) 0.162 x 3 1/2	(14) 0.162 x 3 1/2	775	2,150	2,315	2,315	2,315	1,535	1,535	1,535	1,535	1,340	1,340	1,340	1,340
HGUS26	3 9/16	2	(7) 0.148 x 3	(20) 0.148 x 3	1,175	2,020	2,020	2,020	2,020	1,670	1,670	1,670	1,670	1,400	1,400	1,400	1,400
			(7) 0.162 x 3 1/2	(20) 0.162 x 3 1/2	1,175	2,430	2,430	2,430	2,430	1,670	1,670	1,670	1,670	1,400	1,400	1,400	1,400
LUS28	3 1/2	1	(3) 0.148 x 3	(6) 0.148 x 3	635	660	755	810	1,025	865	985	1,060	1,070	865	955	955	955
		2	(3) 0.148 x 3	(6) 0.148 x 3	635	660	755	810	1,025	865	985	1,060	1,070	865	985	1,060	1,270
MUS28	3 1/2	1	(4) 0.148 x 3	(8) 0.148 x 3	775	950	1,080	1,120	1,120	1,120	1,120	1,120	1,120	1,025	1,025	1,025	1,025
		2	(4) 0.148 x 3	(8) 0.148 x 3	775	950	1,080	1,165	1,455	1,155	1,315	1,415	1,455	1,155	1,315	1,415	1,455
HUS28	3 1/2	1	(4) 0.148 x 3	(22) 0.148 x 3	775	1,340	1,340	1,340	1,340	1,795	1,795	1,795	1,795	1,185	1,185	1,185	1,185
			(4) 0.162 x 3 1/2	(22) 0.162 x 3 1/2	775	2,325	2,380	2,415	2,545	2,260	2,315	2,350	2,380	1,185	1,185	1,185	1,185
		2	(4) 0.148 x 3	(22) 0.148 x 3	775	1,675	1,675	1,675	1,675	2,085	2,085	2,085	2,085	1,675	1,675	1,675	1,675
			(4) 0.162 x 3 1/2	(22) 0.162 x 3 1/2	775	2,325	2,380	2,415	2,545	2,260	2,315	2,350	2,470	2,325	2,370	2,370	2,370
HGUS28	3 9/16	2	(7) 0.148 x 3	(36) 0.148 x 3	1,175	2,670	2,670	2,670	2,670	2,670	2,670	2,670	2,670	2,430	2,430	2,430	2,430
			(7) 0.162 x 3 1/2	(36) 0.162 x 3 1/2	1,175	3,220	3,220	3,220	3,220	3,220	3,220	3,220	3,220	2,430	2,430	2,430	2,430
LUS26-2	3 1/2	1	(3) 0.148 x 3	(4) 0.148 x 3	715	660	755	810	1,025	660	755	800	800	660	755	800	800
			(3) 0.162 x 3 1/2	(4) 0.162 x 3 1/2	715	785	895	965	1,165	785	800	800	800	785	800	800	800
		2	(3) 0.148 x 3	(4) 0.148 x 3	715	660	755	810	1,025	660	755	810	1,025	660	755	810	1,025
			(3) 0.162 x 3 1/2	(4) 0.162 x 3 1/2	715	785	895	965	1,220	785	895	965	1,220	785	895	965	1,220
HHUS26-2	3 1/2	2	(4) 0.148 x 3	(14) 0.162 x 3 1/2	785	1,890	2,130	2,140	2,140	1,680	1,680	1,680	1,680	1,405	1,405	1,405	1,405
			(4) 0.162 x 3 1/2	(14) 0.162 x 3 1/2	785	2,215	2,510	2,575	2,575	1,680	1,680	1,680	1,680	1,405	1,405	1,405	1,405
HGUS26-2	3 9/16	2	(7) 0.148 x 3	(20) 0.148 x 3	1,175	3,085	3,085	3,085	3,085	1,670	1,670	1,670	1,670	1,400	1,400	1,400	1,400
			(7) 0.162 x 3 1/2	(20) 0.162 x 3 1/2	1,175	3,640	3,720	3,720	3,720	1,670	1,670	1,670	1,670	1,400	1,400	1,400	1,400
LUS28-2	3 1/2	1	(3) 0.148 x 3	(6) 0.148 x 3	715	660	755	810	1,025	865	985	1,060	1,165	865	985	1,060	1,125
			(3) 0.162 x 3 1/2	(6) 0.162 x 3 1/2	715	785	895	1,165	1,165	1,025	1,165	1,165	1,165	1,025	1,165	1,165	1,125
		2	(3) 0.148 x 3	(6) 0.148 x 3	715	660	755	1,060	1,025	865	985	1,060	1,340	865	985	1,060	1,340
			(3) 0.162 x 3 1/2	(6) 0.162 x 3 1/2	715	785	895	1,265	1,220	1,025	1,170	1,265	1,455	1,025	1,170	1,265	1,455
HHUS28-2	3 1/2	2	(4) 0.148 x 3	(22) 0.148 x 3	785	2,105	2,375	2,550	2,640	2,640	2,640	2,640	2,640	2,530	2,530	2,530	2,530
			(4) 0.162 x 3 1/2	(22) 0.162 x 3 1/2	785	2,475	2,800	3,015	3,180	3,180	3,180	3,180	3,180	2,530	2,530	2,530	2,530
HGUS28-2	3 9/16	2	(7) 0.148 x 3	(36) 0.148 x 3	1,175	3,640	3,640	3,640	3,640	3,640	3,640	3,640	3,640	2,430	2,430	2,430	2,430
			(7) 0.162 x 3 1/2	(36) 0.162 x 3 1/2	1,175	4,385	4,385	4,385	4,385	4,385	4,385	4,385	4,385	4,385	2,430	2,430	2,430
HGUS26-3	3 9/16	2	(7) 0.148 x 3	(20) 0.148 x 3	1,175	3,085	3,085	3,085	3,085	1,670	1,670	1,670	1,670	1,400	1,400	1,400	1,400
			(7) 0.162 x 3 1/2	(20) 0.162 x 3 1/2	1,175	3,640	3,720	3,720	3,720	1,670	1,670	1,670	1,670	1,400	1,400	1,400	1,400
HGUS28-3	3 9/16	2	(7) 0.148 x 3	(36) 0.148 x 3	1,175	3,640	3,640	3,640	3,640	3,640	3,640	3,640	3,640	2,430	2,430	2,430	2,430
			(7) 0.162 x 3 1/2	(36) 0.162 x 3 1/2	1,175	4,385	4,385	4,385	4,385	4,385	4,385	4,385	4,385	4,385	2,430	2,430	2,430
HGUS26-4	3 9/16	2	(7) 0.148 x 3	(20) 0.148 x 3	1,175	3,085	3,085	3,085	3,085	1,670	1,670	1,670	1,670	1,400	1,400	1,400	1,400
			(7) 0.162 x 3 1/2	(20) 0.162 x 3 1/2	1,175	3,640	3,720	3,720	3,720	1,670	1,670	1,670	1,670	1,400	1,400	1,400	1,400
HGUS28-4	3 9/16	2	(7) 0.148 x 3	(36) 0.148 x 3	1,175	3,640	3,640	3,640	3,640	3,640	3,640	3,640	3,640	2,430	2,430	2,430	2,430
			(7) 0.162 x 3 1/2	(36) 0.162 x 3 1/2	1,175	4,385	4,385	4,385	4,385	4,385	4,385	4,385	4,385	4,385	2,430	2,430	2,430

Notes: For SPF, use a 0.86 reduction for nail fasteners and a 0.72 reduction for screw fasteners. These reductions were established from testing and the dowel bearing calculation.



# Allowable Loads for Reduced Truss Heel Heights

**Table 4 — Common Heel Heights with 1/4" Butt Cut and Effective Hanger Fasteners**

T.C. Size	T.C. Pitch	Calculated Heel Height with 1/4" Butt Cut (in.)	Actual Number of Effective Fasteners in Carried Truss Based on Available Heel Height				
			LUS	MUS	HUS	HHUS	HGUS
2x4	1/12	3 3/4	3	4	4	4	6
	2/12	3 13/16	3	4	4	4	6
	3/12	3 7/8	3	4	4	4	6
	4/12	3 15/16	3	4	5	5	6
	5/12	4 1/16	4	4	5	5	6
	6/12	4 3/16	4	4	5	5	7
	7/12	4 5/16	4	4	5	5	7
	8/12	4 7/16	4	4	6	6	7
	9/12	4 5/8	4	5	6	6	8
	10/12	4 13/16	4	6	6	6	8
	11/12	5	4	6	6	6	8
	12/12	5 3/16	4	6	6	6	9
2x6	1/12	5 3/4	4	6	6	6	10
	2/12	5 13/16	4	6	6	6	10
	3/12	5 15/16	4	6	6	6	10
	4/12	6 1/16	4	6	6	6	10
	5/12	6 3/16	4	7	6	6	11
	6/12	6 5/16	4	8	7	7	11
	7/12	6 5/8	4	8	8	8	12
	8/12	6 7/8	4	8	8	8	12
	9/12	7 1/8	4	8	8	8	12
	10/12	7 1/4	4	8	8	8	12
	11/12	7 11/16	4	8	8	8	12
	12/12	8	4	8	8	8	12

1. Actual refers to the number of hanger nails that can be installed into the area of solid wood provided by the truss heel.
2. Minimum 3/8" nail edge distance from top of heel to uppermost nail in carried member is required to consider nail effective.
3. HGUS load for six nails is 725 lb.

The effect of the reduced number of nails on the hanger capacity can vary for different hanger models, species, fastener types and type of load, i.e., download or uplift. Therefore, the reduction cannot be determined by calculation, such as by ratio. Testing was performed to establish allowable loads for reduced heel heights with less than full nailing. These allowable loads are given in Tables 2 and 3.

**Reduced Nailing In 2X6 and Larger Hangers**  
Nail quantities in this area do not meet the required number of fasteners to achieve full catalog loads. Refer to the Reduced Heel Height Allowable Loads on pp. 2 and 3.

**Full Nailing for 2X4 and 2X6 Hangers**  
Nail quantities in this area meet the required number of fasteners in the carried truss to use full catalog loads for: LUS24, LUS26, LUS26-2, LUS28, LUS28-2, MUS26, HUS26, HHUS26-2, HGUS26, HGUS26-2, HGUS26-3.

**Full Nailing for 2X8 Hangers**  
Nail quantities in this area meet the required number of fasteners in the carried truss to use full catalog loads for: MUS28, HUS28, HHUS28-2, HGUS28, HGUS28-2, HGUS28-3.

The height of a truss heel depends on several factors, including the height of the butt cut, the size of the top chord and the top chord pitch. Table 4 shows common heel heights for different combinations of top chord sizes and pitches, assuming a 1/4" butt cut. At each of these heel heights, the actual number of fasteners that can be installed into the heel of the carried truss is shown for the LUS, MUS, HUS, HHUS and HGUS hangers. Where the actual number of fasteners in the carried truss heel is less than full nailing (see Table 1), allowable loads based on reduced nailing must be used.

## General Notes

1. Allowable loads provided in these tables consider ANSI/TPI 1-2014 wood member design criteria.
2. Allowable loads may not apply to connections that are located within five times the depth of the member from the end unless the end of the member is adequately reinforced with a connector plate as approved by the truss designer.
3. Allowable loads are based on the carried member fasteners installed in the lowest fastener holes. Fasteners shall be distributed evenly on each side of the carried member in the lowest fastener holes, except LUS hangers. For LUS hangers, install fasteners into the two lowest holes on the right side of the hanger and the lowest hole on the left side.
4. Uplift loads have been increased 60% for earthquake or wind loading with no further increase is allowed.
5. Wind (160) is a download rating.
6. HGUS and HHUS hangers installed with the reduced fastener quantities shown in Tables 2 and 3 should be installed on a minimum two-ply 2x carrying member.
7. Refer to the current Simpson Strong-Tie *Wood Construction Connectors* catalog or [strongtie.com](http://strongtie.com) for additional information and notes regarding the installation of the hangers covered in this bulletin.
8. Hangers not included in Tables 2 and 3 and having full allowable loads with reduced heel heights include the HTU (min. nailing) and THA29 with min. heel heights of 3 7/8" and 3 1/2", respectively. See the current *Wood Construction Connectors* catalog for more information.
9. Tabulated loads are based on a minimum truss top chord pitch of 3/12.