



Stair Bracket-Load capacity for <b>Lag Bolt Connection</b> or <b>Structural Screw</b>											
Model #	ga	Stringer	# of lag bolts	Lag Bolt Size	Max Load-lbs (lag bolt)	# of Structural Screws 1/4" x1.5"	Max Load-lbs (Structural Screw)				
SB8	12	2x min	3	1/4"x1.5"	438	3	750				
SB10	12	2x min	4	1/4"x1.5"	584	4	1000				
T Bracket-Load capacity for <b>Bolt Connection / Nail Connection</b>											
Model #	ga	Post Bolts		Beam Bolts		Post Nails		Beam Nails		Uplift-lbs	Lateral-lbs
		Bolt Dia	# of Bolts	Bolt Dia	# of Bolts	Nail Size	# Nails	Nail Size	# Nails		
T1212	3/16"	1/2"	2	1/2"	4	NA	NA	NA	NA	1468	2778
T44	12	1/2"	1	1/2"	2	NA	NA	NA	NA	694	1389
T44	12	NA	NA	NA	NA	16d	3	16d	6	457	914
T44	12	1/2"	1	1/2"	4	16d	3	16d	6	1151	2303
Splice Plate-Load Capacity for <b>Bolt Connection / Nail Connection</b>											
Model #	ga	Splice Member Bolts			Splice Member Nails		Lateral-lbs				
		Bolt Dia	# of Bolts ea side	Nail Size	# Nails ea side						
HSP12	3/16"	1/2"	2	NA	NA	1047					
SP4	16	1/2"	1	NA	NA	523					
SP4	16	NA	NA	16d	3	418					
SP4	16	1/2"	1	16d	3	942					
SP4	16	NA	NA	16d	10	1395					
Model #	ga	Post Bolts		Uplift-lbs							
		Bolt Dia	# of Bolts								
HA	3/16"	1/2"	2	1468	*						
* Uplift loads assume post base is adequately secured to foundation											
Model #	ga	Nails to Rafters		Nails to Plates		Uplift-lbs	Parallel to Plate (F1)-lbs	Perp. To Plate (F2)-lbs			
		Nail Size	# Nails	Nail Size	# Nails						
HC1	16	10dx1.5	5	10dx1.5	5	571	259	259			
1. Load values based on Dougl's Fir-Larch											
2. All specified fasteners must be used											
3. All bolts and nails and structural screws are stainless steel											
4. Loads are based on dry condition											
5. Basis of design: NDS 2015											



Miscellaneous Brackets Lag Bolts									
<b>L strap tie</b>									
model #	GA	# of tie plates	Note	Fasteners				Tension lbs	Shear (F1) lbs
				Beam	Post				
				# of lag bolts	size	# of lag bolts	size		
L44	12	1	SS	2	1/2"	1	1/2"	406	268
L1212	3/16"	1	SS	2	1/2"	2	1/2"	848	562
<b>Hold-Down</b>									
model #	GA	# of brackets	Note	Fasteners				Tension lbs	Shear (F1) lbs
				Beam	Post				
				# of lag bolts	size	# of lag bolts	size		
HA2	3/16"	1	SS	NA		2	1/2"	848	
allowable tensile loads assume that the bolt that secures the bracket to the concrete is adequately sized by the user, 5/8" min diameter									
<b>Splice Plate</b>									
model #	GA	# of plates	Note	Fasteners				Tension lbs	Shear (F1) lbs
				Beam	Post	ea end			
				# of lag bolts	size	# of lag bolts	size		
HSP2	3/16"	1	SS	NA		2	1/2"	848	
<b>Angle</b>									
model #	GA	# of angles	Note	Fasteners				Tension lbs	Shear (F1) lbs
				Beam	Post	ea end			
				# of lag bolts	size	# of lag bolts	size		
H902	3/16"	2	Beam SS	2	1/2'			1124	1696
H903	3/16"	2	Beam SS	2	1/2'			1124	1696
assumes beam is continuous									
1. Load values based on Douglas Fir - Larch									
2. All bolts are stainless steel									
3. Loads based on dry condition									
4. For HA2, allowable tensile loads assume that the bolt that secures the bracket to the concrete is adequately sized by the user, 5/8" min diameter									
5. Basis of design: NDS 2015									



Miscellaneous Brackets - through bolts									
<b>L strap tie</b>									
model #	GA	# of tie plates	Note	Fasteners				Tension lbs	Shear (F1) lbs
				Beam	Post				
				# of bolts	size	# of bolts	size		
L44	12	1	SS	2	1/2"	1	1/2"	694	427
L44	12	2	DS	2	1/2"	1	1/2"	1383	907
L1212	3/16"	1	SS	2	1/2"	2	1/2"	910	910
L1212	3/16"	2	DS	2	1/2"	2	1/2"	1814	1814
<b>Hold-Down</b>									
model #	GA	# of brackets	Note	Fasteners				Tension lbs	Shear (F1) lbs
				Beam	Post				
				# of bolts	size	# of bolts	size		
HA2	3/16"	1	SS	NA		2	1/2"	1468	
allowable tensile loads assume that the bolt that secures the bracket to the concrete is adequately sized by the user, 5/8" min diameter									
<b>Splice Plate</b>									
model #	GA	# of plates	Note	Fasteners				Tension lbs	Shear (F1) lbs
				Beam	Post		ea end		
				# of bolts	size	# of bolts	size		
HSP2	3/16"	1	SS	NA		2	1/2"	1468	
<b>Angle</b>									
model #	GA	# of angles	Note	Fasteners				Tension lbs	Shear (F1) lbs
				Beam	ea side	Post	ea end		
				# of bolts	size	# of bolts	size		
H902	3/16"	2	Beam SS	2	1/2"			1820	2936
			Post DS			2	1/2"		
H903	3/16"	2	Beam SS	2	1/2"			1820	2936
			Post DS			2	1/2"		
assumes beam is continuous									
1. Load values based on Douglas Fir - Larch									
2. All bolts are stainless steel									
3. Loads based on dry condition									
4. For HA2, allowable tensile loads assume that the bolt that secures the bracket to the concrete is adequately sized by the user, 5/8" min diameter									
5. Basis of design: NDS 2015									