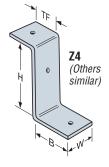
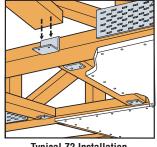
C.	PTS 1
Stro	ng : Tie

Model	Ga		Dimer	nsions		Fasteners ¹	Allowable ²	Code Ref.	
No.		W	Н	В	TF	(Total)	Download (125)		
Z2	20	25/16	1½	1%	13/8	4-10dx1½	465	170	
Z4	12	1½	3½	21/8	13/4	2-16d	465	I14, L21, F13	
Z28	28	25/16	1½	13/8	13/8	10dx1½1	_	170	
Z38	28	25/16	2½	13/8	13/8	10dx1½1	_		
Z44	12	21/2	3½	2	1%	4-16d	865	I14, L21, F13	

- Z28 and Z38 do not have nail holes. Fastener quantity and type shall be per Designer. Allowable loads have been increased 25% for roof loading (Z clips) with no further increase allowed; reduce where other loads govern.
- Z4 loads apply with a nail into the top and a nail into the seat. **NAILS:** 16d = 0.162" dia. \times $3\frac{1}{2}$ " long, $10d\times 1\frac{1}{2} = 0.148$ " dia. \times $1\frac{1}{2}$ " long. See page 16-17 for other nail sizes and information.



Bolts Allowable



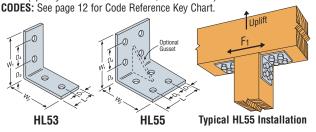
Typical Z2 Installation

Heavy Angles and Gussets

Versatile angle gussets and heavy angles promote standardization and construction economy, and are compatible with Simpson Strong-Tie® structural hardware.

FINISH: 7 ga Models-Galvanized; 3 ga Models-Simpson Strong-Tie® gray paint. **OPTIONS**: Gussets may be added to HL models when $L \ge 5$

(specify G after model number, as in HL46G).



Model	DIIIIGIISIUIIS						(To	tal)	Loa	Cod		
No.	Ga	W ₁ &W ₂	L	D ₁	D ₂	D ₃	D ₄	Qty	Dia	Uplift	F ₁	Ref
HL33	7	31/4	2½	11/4	_	2	_	2	1/2	910	1580	
HL35	7	31/4	5	11/4	2½	2	_	4	1/2	910	1580	ı
HL37	7	31/4	7½	11/4	2½	2	_	6	1/2	910	1580	ı
HL53	7	5¾	2½	11/4	_	2	2½	4	1/2	910	1580	ı
HL55	7	5¾	5	11/4	2½	2	2½	8	1/2	910	1580	ı
HL57	7	5¾	7½	11/4	2½	2	2½	12	1/2	910	1580	170
HL43	3	41/4	3	1½	_	2¾	_	2	3/4	1555	1580	170
HL46	3	41/4	6	1½	3	2¾	_	4	3/4	1555	2025	ı
HL49	3	41/4	9	1½	3	2¾	_	6	3/4	1555	2025	ı
HL73	3	71/4	3	1½	_	2¾	3	4	3/4	1555	2025	ı
HL76	3	71/4	6	1½	3	2¾	3	8	3/4	2115	3800	ı
HL79	3	71/4	9	1½	3	2¾	3	12	3/4	2115	3800	

- Allowable loads have been increased 60% for wind or earthquake loading with no further increase allowed; reduce where other loads govern. Use 0.85 times table load
- ose 0.55 times table load for Hem Fir. Parts should be centered on the face of the member to which they are attached. Wood members for the '3'
- and '5' series must have a minimum width and thickness of 31/2" for table loads to apply.

 5. Wood members for the '4' and
- '7' series must have a minimum width and thickness of 51/8"
- width and thickness of 5% for table loads to apply. Parts must be used in pairs. Lag bolts of equal diameter (minimum 5" long) may be substituted for machine bolts into beam with no reduction

L/LS/GA Reinforcing and Skewable Angles

-Staggered nail pattern reduces the possibility for splitting. LS-Field-adjustable 0° to 135° angles.

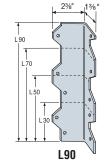
The GA Gusset Angles' embossed bend section provides added strength. MATERIAL: L-16 gauge; GA and LS-18 gauge

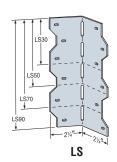
FINISH: Galvanized. Some products available in stainless steel or ZMAX® coating; see Corrosion Information, page 10-11.

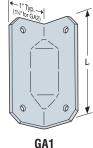
INSTALLATION:

- · Use all specified fasteners; see General Notes.
- LS-field skewable; bend one time only.
- · Joist must be constrained against rotation (for example, with solid blocking) when using a single LS per connection.
- Nail the L angle's wider leg into the joist to ensure table loads and allow correct nailing.

CODES: See page 12 for Code Reference Key Chart.







These products are available with additional corrosion protection. Additional products on this page may also be available with this option, check with Simpson Strong-Tie for details.

Model		Fasteners	DF/S	P Allowa	ible Load	is ^{1,2,3}	SPF	/HF Allo	Code			
No.	L		Floor (100)	Snow (115)	Roof (125)	(160)	Floor (100)	Snow (115)	Roof (125)	(160)	Ref.	
GA1	23/4	4-10d	185	185	185	185	160	160	160	160	114, L21, F13	
GA2	31/4	6-10d	335	385	415	450	290	335	335	335	114, LZ1, F13	
L30	3	4-10d	220	240	240	240	190	205	205	205		
L50	5	6-10d	335	385	420	445	290	335	360	385	14 / 1 / 540	
L70	7	8-10d	445	510	555	565	380	435	475	485	114, L4, F13	
L90	9	10-10d	555	640	695	740	480	550	600	640		
LS30	3%	6-10d	355	395	395	395	305	335	335	335		
LS50	4%	8-10d	475	540	585	730	410	465	505	630	IP1, F13	
LS70	6%	10-10d	595	675	730	915	510	580	630	785	11, 113	
LS90	7%	12-10d	715	810	875	1040	615	695	755	895		

- 1. L angles-loads are for condition F₁ or F₂; LS angles-loads are for condition F₁ only.
- 2. GA1 and GA2 angles table loads are F₁ loads for F2 are 220 lbs. and 335 lbs. (100) and 280 lbs. and 415 lbs. (125), respectively.
- 3. Roof loads are 125% of floor loads unless limited by other criteria.
- 4. Connectors are required on both sides to achieve F2 loads in both directions.
- 5. **NAILS:** 16d = 0.162" dia. x $3\frac{1}{2}$ " long, 10d = 0.148" dia. x 3" long, $10dx1\frac{1}{2} = 0.148$ " dia. x $1\frac{1}{2}$ " long. See page 16-17 for other nail sizes and information.

