

# GA — Gusset Angle

**Material:** Carbon Steel 1.3mm thick

**Finish:** Z275 Galvanised

Corrosion Resistance Level  
LOW

**Size:** See illustration on the right

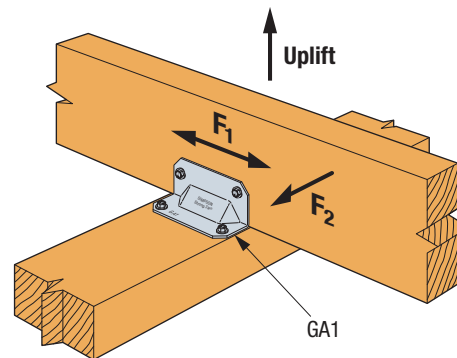
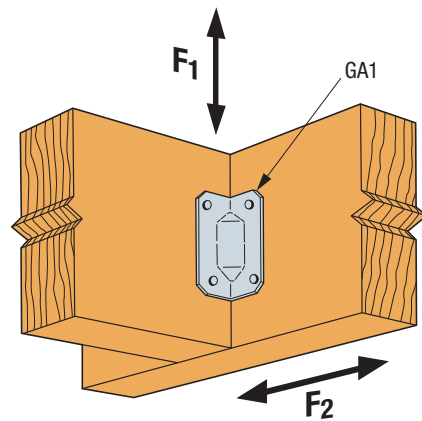
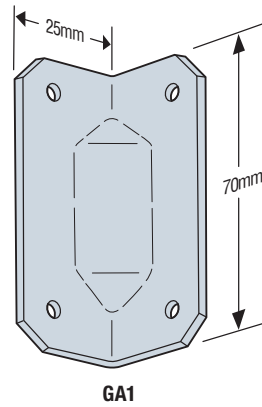
### Features & Benefits

- Removes the guesswork for making perfectly square connections
- Reinforces 90-degree connections
- Stronger than angled nailing or screw fastening
- Heavily swaged section provides extra strength
- Stronger than angled nailing, wire dogs, or screw fastening
- Help ensure joints are consistently straight and strong
- Install with Simpson Strong-Tie 10d common nails or Strong-Drive SD screws

### Installation

- Use all specified fasteners

### Construction Details



### GA Technical Data

Model No.	Fasteners (No. – Length x Dia., mm)	Direction of Load	Design Capacity (kN)		
			Floor ( $k_1 = 0.80$ )	Roof ( $k_1 = 0.80$ )	Wind/EQ ( $k_1 = 1.0$ )
GA1	4 – 38 x 3.75	F1	1.38	1.38	1.38
		F2 <sup>5</sup>	1.23	1.23	1.23

1. Design Capacity is the lesser of (1) the Characteristic Capacity multiplied by the NZ Strength Reduction Factor ( $\phi$ ), and applicable the k modification factors following NZS 3603 and (2) the Serviceability Capacity which is the load at 3.2mm joint slip. Design Capacity is the minimum of test data and structural joint calculation.
2. The Strength Reduction Factor ( $\phi$ ) is 0.80 for nails in lateral loading.
3. Duration of Load Factor ( $k_1$ ) is as shown. Reduce Duration of Load Factor where applicable. Capacities may not be increased.
4. Timber species for joint design is seasoned Radiata Pine, which is New Zealand Joint Group J5 per NZS 3603 Table 4.1.
5. Connectors are required on both sides to achieve F2 loads in both directions.