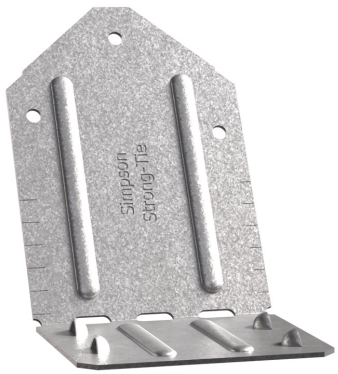
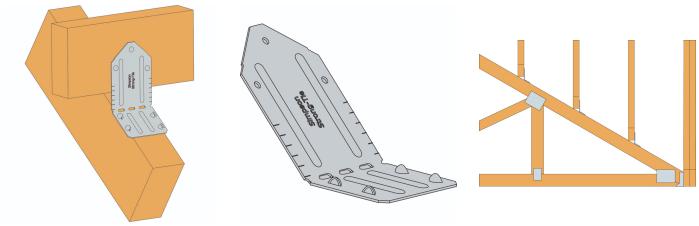
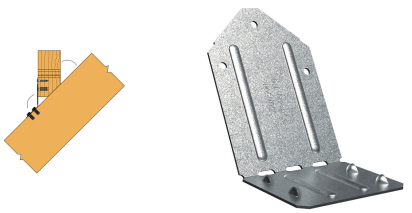
**Technical Sheet**

VTCR
**Valley Truss Clip**

Specifically designed to provide an effective connection allowing valley trusses to be connected to common trusses. The VTCR eliminates the need to add a support wedge under the valley truss or to bevel the bottom chord to match the roof pitch. Site-adjustable, this single piece solution can be used on roof pitch angles from 10° to 40°.







# Features

## Material

- Pre-galvanised mild steel.

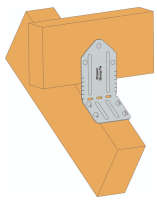
## Key Features

- Structural valley connection.
- Single sided for new construction or retro fit.
- Field adjustment for pitch. Adjustable between 10 and 40 degrees.
- Eliminates bottom chord bevelling or wedging.
- Reduces valley installation cost.
- Reduces valley truss manufacture cost.
- Suitable for use with 35mm and 47mm wide truss timbers
- The dome holes assist in installing the fasteners into the supporting truss at approximately 45°

**Technical Sheet**

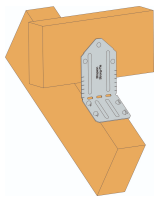
VTCR
**Valley Truss Clip**

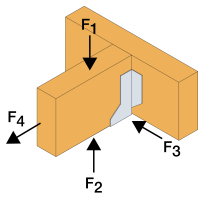
# Technical Data



## Product Dimensions

| Reference | Connector Dimensions | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Other | | | | Product Dimensions[mm] | | | | Flange B[mm] | Holes Flange C |
| | Tun / DB nr. | NOB nr. | Qty per Box | Weight[kg] | A[mm] | B[mm] | C[mm] | Thickness[mm] | Round | Round |
| | | | | | | | | | Ø3.8 | Ø4 |
| VTCR | 1862291 | 51165955 | 100.0 | 0.082 | 64 | 51 | 90 | 1.2 | 4 | 3 |






## Performance Values

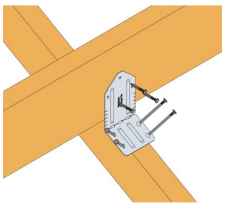
| Reference | Angle bracket capacity | | | | | | |
|---|---|---|---|---|---|---|---|
| | Number of Fasteners | | | | Characteristic Capacities[kN] | | |
| | Common truss (Flange B) | | Valley Truss (Flange C) | | $R_{2,k}$ | $R_{1,k}$ | |
| | Qty | Specification | Qty | Specification | | 35mm | 47mm |
| VTCR | 4.0 | N3.35x65 | 3.0 | N3.75x30 | 1 | 6 | 8 |

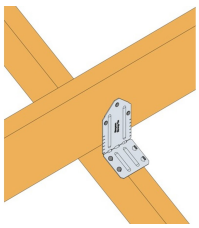
1. 35mm and 47mm refers to the thickness of the supporting common truss timbers
2. $R_2$ loads are applicable to 35mm and 47mm timbers

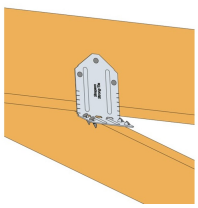
# Installation

## Installation

- Install VTCR with all specified fasteners:  3.35x65mm round wire nails into the supporting truss and 3.75x30mm square twsit nails into the valley truss
- Position the VTCR onto the supporting truss and install the 3.35x65mm nail at an angle of 45° through the dome nail holes. (Fig 1)
  - Note:  when the supporting truss is 35mm thick, a portion of the nails will be exposed before penetrating into the side of the truss (Fig 3)
- Bend the  uppper flange of the VTCR to the required angle; position the valley truss against this leg and install the 3.75x30mm nail into the bottom chord of the valley truss (Fig 1)
- Install a VTCR on each of the top chords of the supporting trusses at each intersection of supporting truss and valley truss









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