

CONCEALED PURLIN CLEATS

Delfast Concealed Purlin Cleats (CPC40 and CPC80) are galvanised steel connectors intended for use in timber-framed roof construction. CPCs provide an alternative method of tying rafters to ridge boards or top plates where designed in accordance with NZS 3604:2011.

Item Code	Pack Size	Barcode
FT-CPC40	30	9421030296798
FT-CPC80	15	9421030296804



Uplift Load Capacity

Characteristic uplift capacities determined by BRANZ testing are shown below and shall be used by designers when selecting CPCs as an alternative fixing.

Configuration	Characteristic uplift capacity
CPC40 nailed (pair)	6.8 kN
CPC40 screwed (pair)	10.0 kN
CPC80 nailed (pair)	16.0 kN
CPC80 screwed (pair)	17.0 kN

Designers shall confirm that the selected CPC configuration meets or exceeds the uplift capacity required for the applicable fixing type in NZS 3604:2011.

Durability

CPCs are manufactured from galvanised steel and are suitable for use **only in environments covered by Table 4.1 of NZS 3604:2011**.

CPCs have **not been appraised for unrestricted outdoor or exposed use** outside the conditions defined in NZS 3604.

Design Responsibility

The designer is responsible for confirming:

- rafter size, spacing, and span requirements
- wind zone classification
- fixing type requirements under NZS 3604
- suitability of CPC configuration for the application

Scope of Appraisal / Intended Use

Delfast CPCs are appraised for use as alternative connections in timber-framed roof construction within the scope of **NZS 3604:2011**, for the following applications:

- Rafter-to-ridge board connections
- Rafter-to-top-plate connections

CPCs are intended to be used **only where NZS 3604 specifies fixing type E or F**, and only when installed in accordance with Delfast installation instructions.

CPCs are **not appraised for general structural use**, including (but not limited to) post-to-beam, corner, wall framing, or non-roof connections.

NZS 3604 Fixing Type Equivalency

Testing undertaken by BRANZ has established that Delfast CPCs may be used as **alternatives to NZS 3604 fixing types E and F, subject to configuration**.

CPC configuration NZS 3604 fixing type equivalency

CPC40 – nailed	Fixing Type E only
CPC40 – screwed	Fixing Type E and F
CPC80 – nailed	Fixing Type E and F
CPC80 – screwed	Fixing Type E and F

Refer to BRANZ test report TP20847-01-01 for verification of fixing capacities.

For Explanation/diagrams/illustrations detailing all phases of installation Refer to Delfast installation guide or technical drawings.

DELFAST
NAILED IT

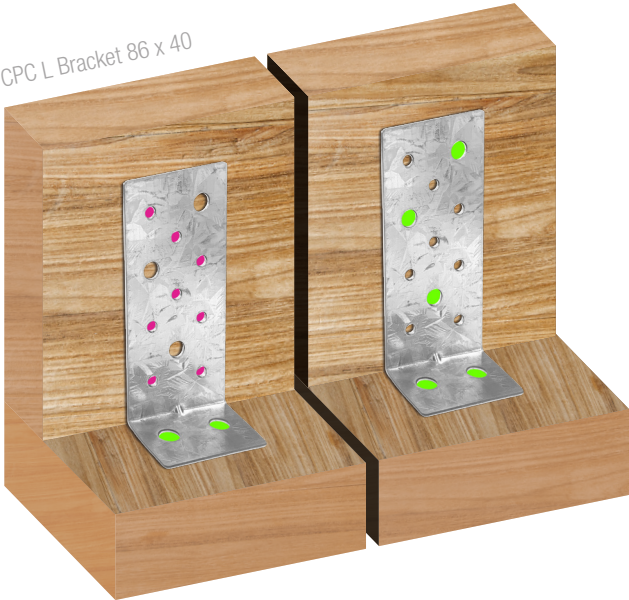
Delfast
293 Heads Road, Wanganui.
06 348 4272



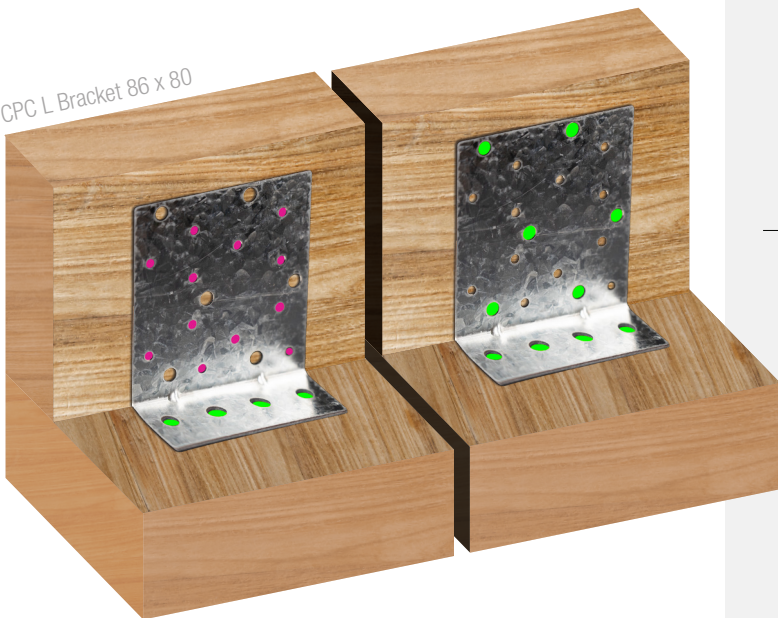
CONCEALED PURLIN CLEATS

INSTALLATION GUIDE

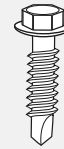
CPC L Bracket 86 x 40



CPC L Bracket 86 x 80



**Delfast 30mm
Loose Product
Nails**



**Delfast Type 17,
12 gauge, 35mm
Tek Screw**

Installation Requirements

- CPCs shall be installed by a trade-qualified installer or Licensed Building Practitioner.
- CPCs must be installed strictly in accordance with the fixing numbers and locations shown in the installation diagrams.

Fixings

Only the following fixings shall be used:

Bottom flange:

Delfast Type 17, 12 gauge, 35 mm Tek screws
2 or 4 screws as shown in installation diagrams)

Vertical flange:

Delfast 30 × 3.15 mm galvanised loose nails, or
Delfast Type 17, 12 gauge Tek screws As specified for
the CPC size and configuration

Mixing of fixing types within a single connection is not
permitted unless shown in the installation diagrams.

Installation Notes

- All designated fixing holes shall be filled.
- CPCs shall be installed flush against the timber surface.
- CPCs shall not be modified, bent, or substituted with alternative fixings.
- CPCs shall only be used in roof construction applications designed to NZS 3604:2011.