

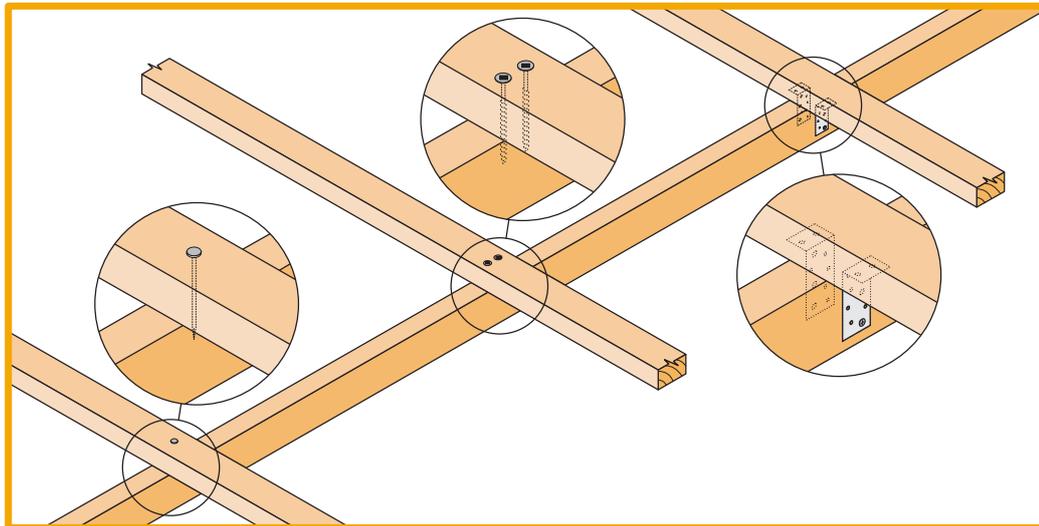
# PURLIN & BATTEN FIXING CHART

## ALTERNATIVE SOLUTION TO NZS 3604:2011

### TABLES 10.10 & 10.12

**NOTE:**

- All purlin and batten sizes are as per NZS 3604:2011
- All fixings assume that the purlin and battens are installed on their flat over the top of the rafter or truss
- The minimum fixing requirements apply to all purlin locations within the roof area
- The LUMBERLOK BLUE SCREW where specified requires a minimum of 30mm penetration into rafter or truss i.e. it is suitable for rough sawn timber up to 50mm thick at 18% moisture content



### SELECTION CHART FIXING OPTIONS

(minimum fixing requirements)

ROOF WEIGHT	MAX. PURLIN SPAN (mm)	MAX. PURLIN CRS. (mm)	WIND ZONE				
			L	M	H	VH	EH
<b>HEAVY ROOF</b> Tile Battens	900	370	A	A	A	B	C
<b>LIGHT ROOF</b> Tile Battens	900	370	A	A	B	C	C
	1200	370	A	B	C	C	C
<b>LIGHT ROOF</b> Purlins	900	900	C	C	C	C	D
	1200	900	C	C	C	D	D
	1200	1200	C	C	D	E	E

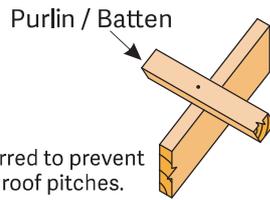
<b>Wind Zone:</b> As per NZS 3604:2011	L = Low Wind
	M = Medium Wind
	H = High Wind
	VH = Very High Wind
	EH = Extra High Wind

## STANDARD FIXING OPTIONS

### FIXING TYPE A 0.55kN

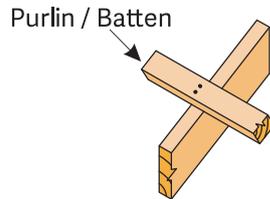
1 NAIL

Note: Two nails maybe preferred to prevent batten rolling over with high roof pitches.



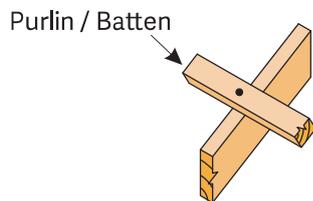
### FIXING TYPE B 0.8kN

2 NAILS



### FIXING TYPE C 2.4kN

1 BLUE SCREW

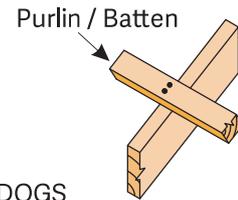


### FIXING TYPE D 3.45kN

2 BLUE SCREWS

OR

2 skew NAILS plus 2 WIRE DOGS  
(for purlin on edge)

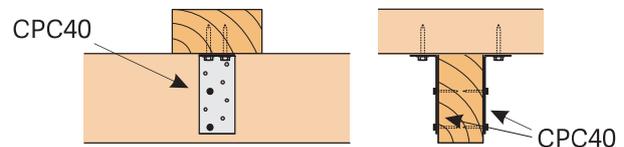


### FIXING TYPE E 5.5kN

2 NAILS plus 1 CT200

OR

1 pair of CPC40



## FIXING DEFINITIONS

**NAIL** = Either 90mm x 3.15 dia. power-driven nail or 100mm x 3.75 dia. hand-driven nail

**BLUE SCREW** = 80mm x 10 gauge LUMBERLOK BLUE SCREW

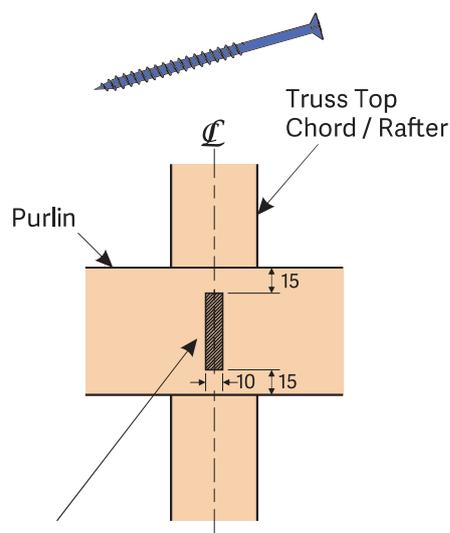
**WIRE DOG** = LUMBERLOK WIRE DOG either LH or RH

**CT200** = LUMBERLOK Ceiling Tie CT200 bend over purlin, 4 x LUMBERLOK Product Nails 30mm x 3.15 dia. each end

**CPC40** = LUMBERLOK CPC40 with 2 x Type 17 - 14g x 35mm Hex Head Screws per flange

## FIXING TOLERANCES

### LUMBERLOK BLUE SCREW



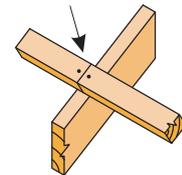
**NOTE:**

Locate fixings within the shaded area. Care to be taken to avoid over tightening of Screws.

## PURLIN / BATTEN SPLICE FIXING OPTIONS

### FIXING TYPE A & B OVER PURLIN SPLICE

1 Nail in each



**NOTE:**

Skew nail when fixing to 35mm rafter or truss

### FIXING TYPE C, D or E OVER PURLIN SPLICE

90 x 45mm Block fixed to Chord or Rafter with 4 x 90mm Nails

- TYPE C  
1 BLUE SCREW to each purlin

- TYPE D & E  
1 NAIL plus 1 BLUE SCREW to each purlin

