

Product Update

FEBRUARY 2012



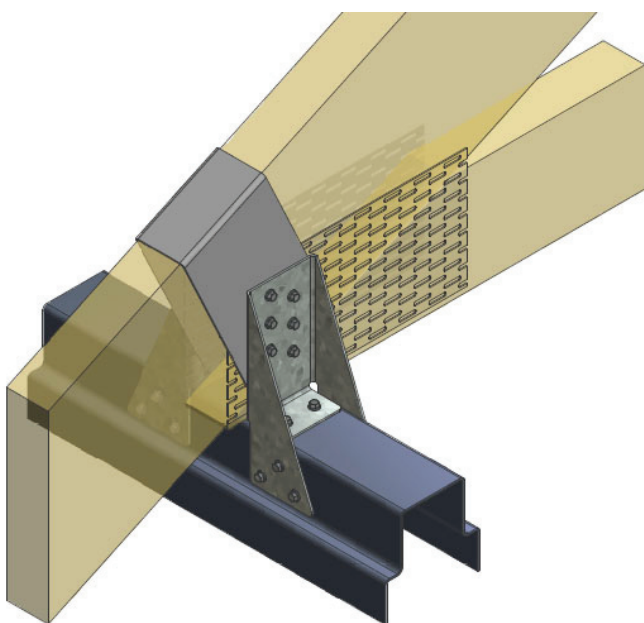
Cyclonic Grip

Pryda Cyclonic Grips are typically used in cyclonic areas for tying down roof trusses or other roof members to a steel frame.

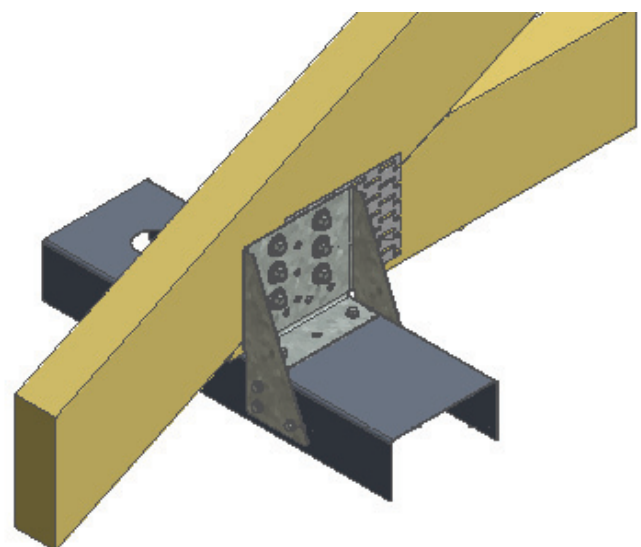
The new PCG90 has been added to the range to suit the 90mm frame.

The PCG continues to be available and suits steel frames with a stiffened top plate.

Product Code	Dimensions	Qty per Carton
PCG90 (New Product)	119 x 55 x 92 x 1.2mm	50
PCG	135 x 55 x 58 x 1.6mm	50
Pryda Cyclonic Grip Overstraps		
PCG/038	38 x 140mm x 1.6mm	25
PCG/048	48 x 140mm x 1.6mm	25
PCG/075	75 x 140mm x 1.6mm	25
PCG/097	97 x 140mm x 1.6mm	25

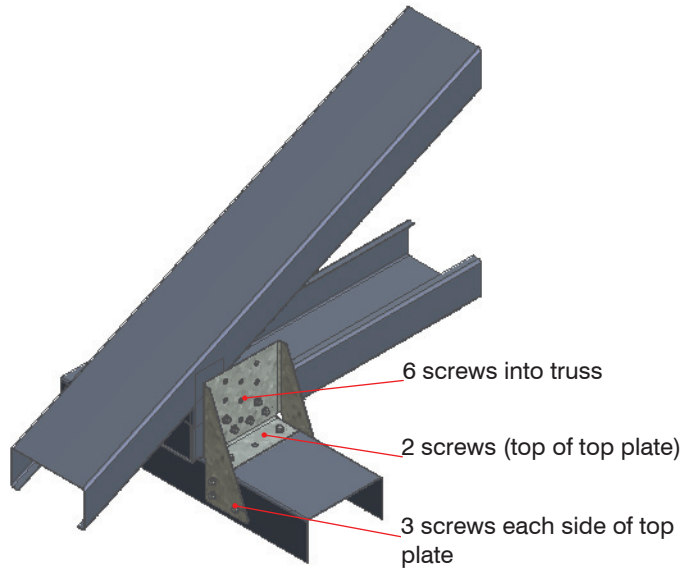
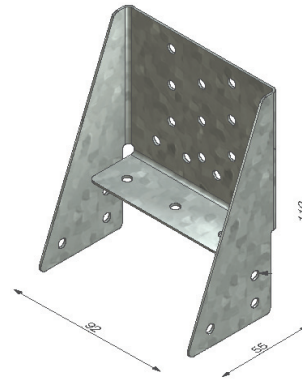


A pair of PCG Cyclonic Grips with an Overstrap tying down timber truss on stiffened steel top plate achieves up to 38kN uplift capacity.

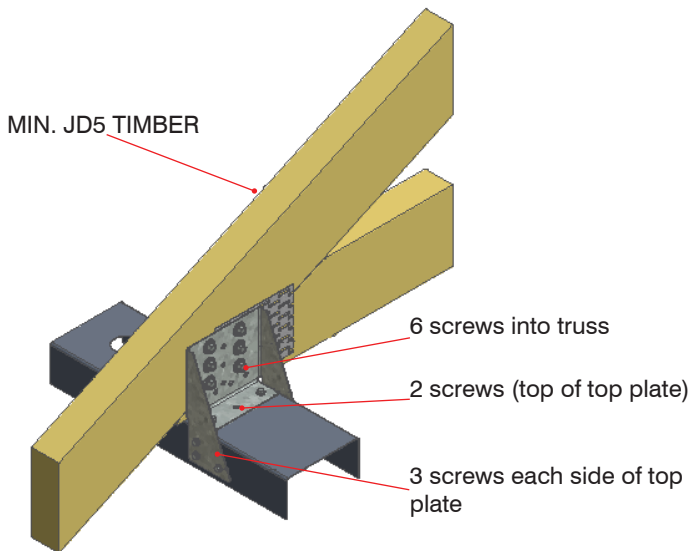


A single PCG90 Cyclonic Grip tying down timber truss on 90mm steel top plate can achieve up to 14kN uplift capacity.

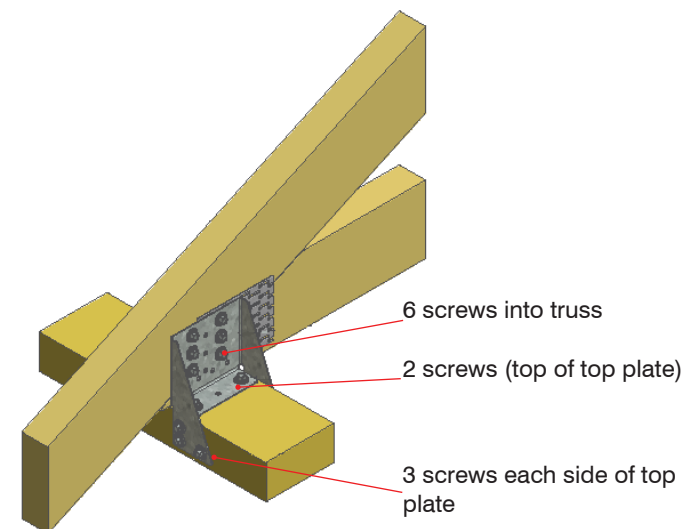
Design Data - Single PCG90 Cyclonic Grip



Steel Truss on Steel Top Plate



Timber Truss on Steel Top Plate



Timber Truss on Timber Top Plate

Fixing Requirement for Each Cyclonic Grip:

14/M6 x 22mm GX Screws or
14/10g x 16mm TekS Screws

STEEL TRUSSES ON STEEL TOP PLATE		
MATERIAL	M6 x 22mm GX Screws	10g x 16mm TekS Screws
0.75mm G550 Steel	9.9kN	5.9kN
0.95mm G550 Seel	14.0kN	9.4kN

Fixing Requirement for Each Cyclonic Grip:

0.75mm/0.95mm G350 Steel top plate:
8/M6 x 22mm GX Screws or
10g x 16mm TekS Screws

Truss Chord: 6/12g x 35mm Type 17 Screws

TIMBER TRUSS ON STEEL TOP PLATE				
MATERIAL	M6 x 22mm GX Screws		10g x 16mm TekS Screws	
	JD5	JD4	JD5	JD4
0.75mm G550 Steel	9.9kN	9.9kN	5.9kN	5.9kN
0.95mm G550 Seel	10.8kN	14.0kN	9.4kN	9.4kN

Fixing Requirement for Each Cyclonic Grip:

14/12g x 35mm Type 17 Screws

TIMBER TRUSS ON TIMBER TOP PLATE	
MATERIAL	12g x 35mm Type 17 Screw
JD5	10.8kN
JD4	14.0kN

Notes:

1. The capacities given in the table above may be multiplied by 2 when a pair of Cyclonic Grips are used.

2. The wall plate is assumed to be adequate in its own right, to resist design loads given in the table.

Design Data - Pair of PCG Cyclonic Grips with an Overstrap

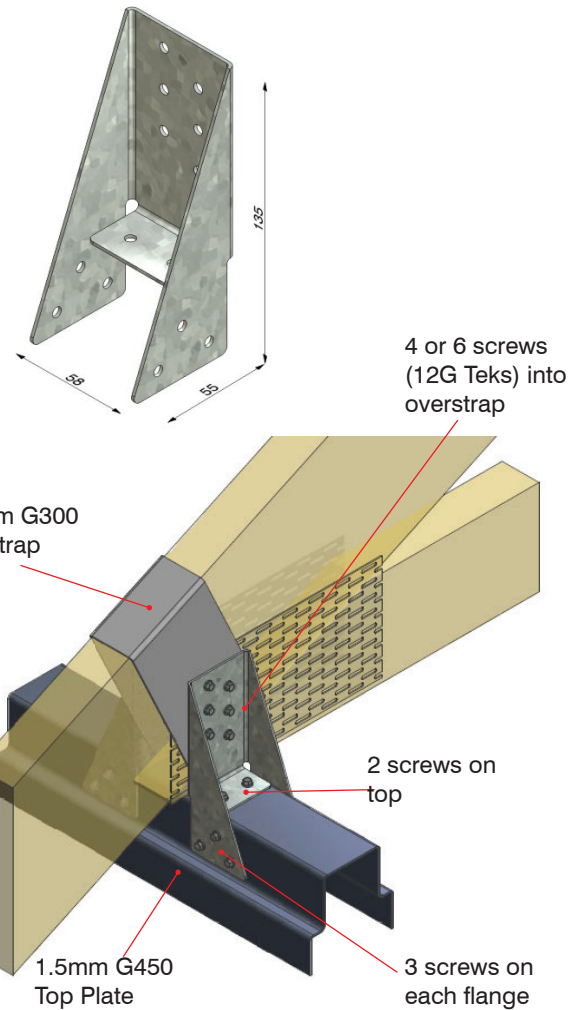
Fixing Requirement for Each Cyclonic Grip:

1.5mm G450 top plate: 8 /12g TekS Screws
 1.6mm G300 overstrap: 4 or 6 /12g TekS Screws

Joint Group of Truss Chord	Truss Thickness	Uplift Capacity (kN)	
		4 screws into Overstrap	6 screws into Overstrap
JD5, JD4	1/35	22.0 ⁽¹⁾	22.0 ⁽¹⁾
	2/35	25.0	38.0
JD3	1/35	25.0	35.0 ⁽¹⁾
	2/35	25.0	38.0

Notes:

- Capacities are limited by the crushing strength of the top chord against the overstrap. All other values are limited by screw capacity in steel.
- The wall plate is assumed to be adequate in its own right, to resist design loads given in the table.



Design Data - Single PCG Cyclonic Grip

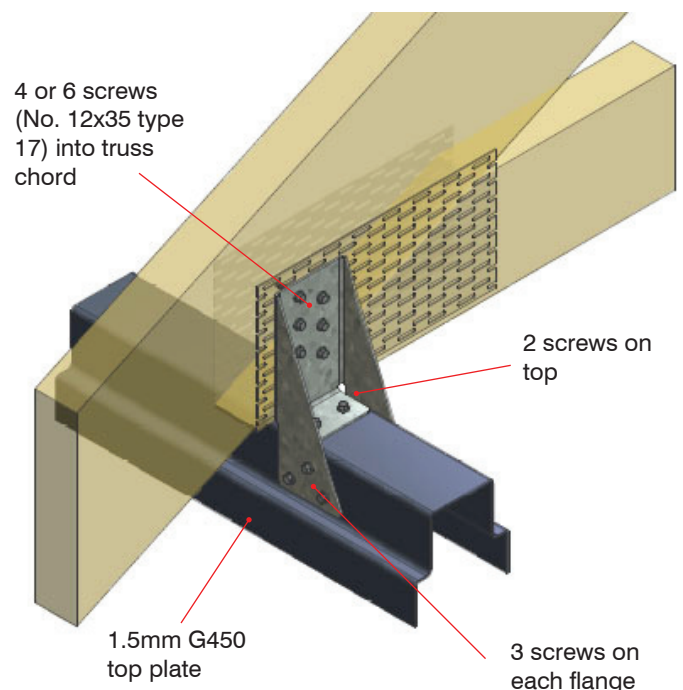
Fixing Requirement for Each Cyclonic Grip:

1.5mm G450 top plate: 8 /12g TekS Screws
 Truss Chord: 4 or 6 /12g x 35mm Type 17 Screws

Joint Group of Truss Chord	Uplift Capacity (kN)	
	4 screws into Truss Chord	6 screws into Truss Chord
JD5	7.0	10.5
JD4	10.0	15.0
JD3	14.0	20.0

Notes:

- The capacities given in the table above may be multiplied by 2 when a pair of Cyclonic Grips are used.
- The wall plate is assumed to be adequate in its own right, to resist design loads given in the table.



For further information on our range of high capacity products refer to our High Capacity Product Guide. Available from our website: www.pryda.com.au or 1800 810 741.

