PRODUCT DATA SHEET

HOLD DOWN BRACKET

FEATURES AND BENEFITS

EASY: Can be fixed with nails, screws, and bolts

STRONG: 2.0mm G300 Z275 Galvanised Steel

VERSATILE: Can be used for a variety of applications, such as a tie down for trusses, wall frames and narrow wall bracing units

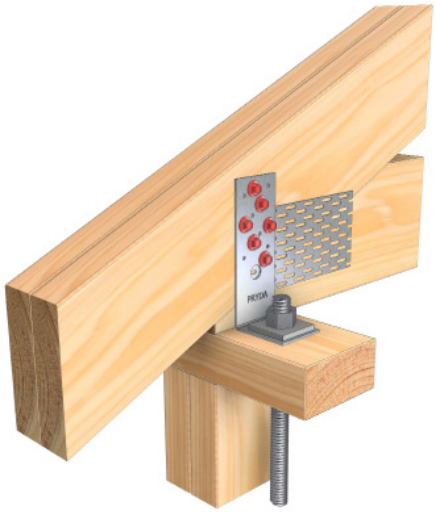
AS1684 COMPLIANT

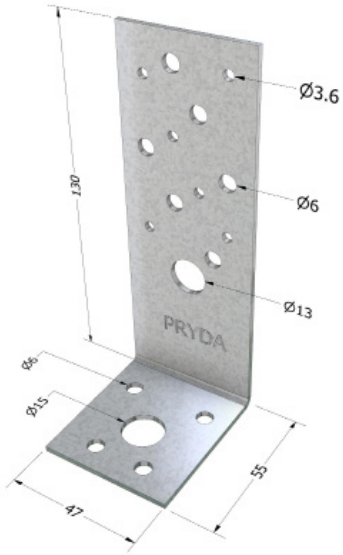
- Designed and tested in accordance with Australian standards (AS1649)
- Minimum G300 Z275 Galvanised Steel

SPECIFICATIONS

PRODUCT CODE	MPCPAH
STEEL	G300
QUANTITY	75
THICKNESS	2.0mm
CORROSION RESISTANCE	Z275
TIMBER FASTENERS	Pryda 35 x 3.15mm Timber Connector Nails OR Pryda painted hex head screws 12G x 35mm for long leg 12G x 65mm for short leg
ANCHORING FASTENER	M12 Tie-down rod or M12 x 150mm Anka Screw AND 40 x 40 x 5mm square washer
SIZE	47 x 55 x 130mm

Tie down resistance for a variety of applications and with a variety of fasteners.



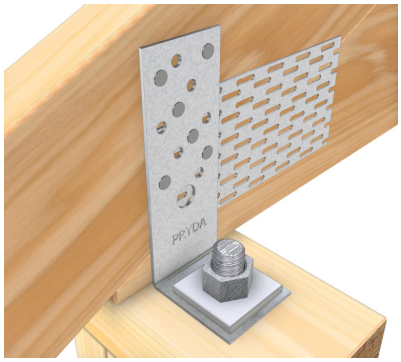


DESIGN CAPACITIES

The design capacities for an MPCPAH bracket are tabulated below for use with both 35 x 3.15mm Pryda Timber Connector nails and Pryda painted hex head screws 12G x 35mm and fixed with an appropriate tie-down anchor. These capacities are also suitable when MPCPAH is used as a tie-down bracket for wall studs.

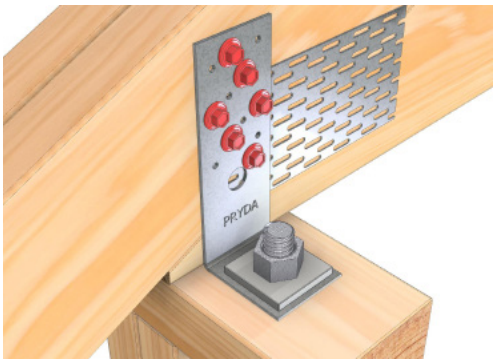
UPLIFT CAPACITIES FOR A SINGLE BRACKET

6/35 x 3.15mm Pryda Timber Connector nails on supported truss or stud.



JOINT GROUP OF TRUSS CHORD	UPLIFT CAPACITY (KN) (USING 6 NAILS INTO TRUSS/STUD)
JD5	4.7
JD4	5.7
JD3	7.9

6/12G x 3.15mm Pryda Timber Connector screws on supported truss or stud.



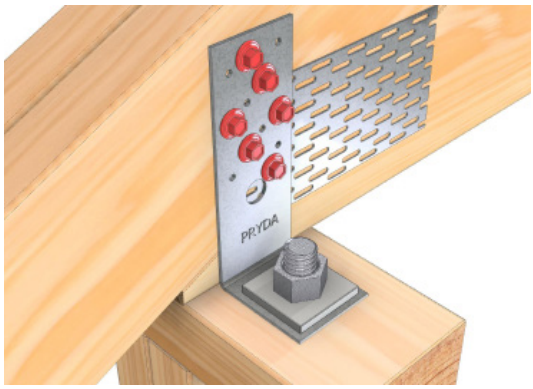
JOINT GROUP OF TRUSS CHORD	UPLIFT CAPACITY (KN) (USING 6 SCREWS INTO TRUSS/STUD)
JD5	10.9
JD4	15.0
JD3	15.0

Notes:

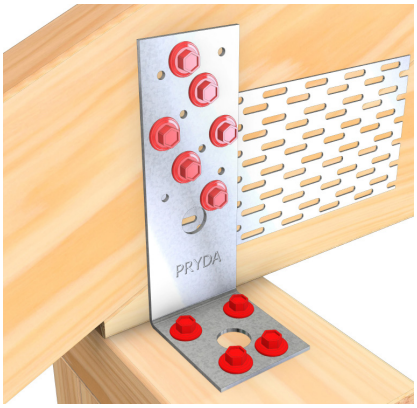
1. The design capacities given here apply directly to all Category 1 joints. For all other joints, i.e Category 2 or 3 joints as per AS1720.1:2010, multiply these capacities by 0.94 or 0.88 respectively.
2. For a pair of MPCPAH brackets, double up the tabulated capacities.
3. The above values (for nails or screws) are only applicable: a) if the anchorage into the supporting member has an equivalent or better capacity, b) All screws are set 25mm in from timber edge, c) All nails are set 15mm in from timber edge.

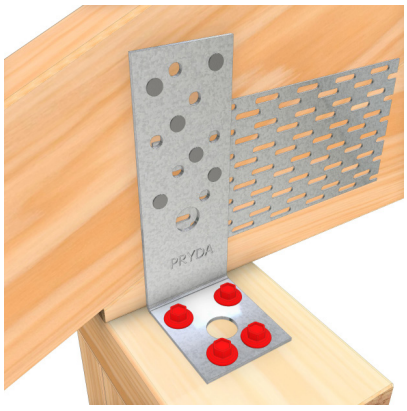
APPLICATION EXAMPLES

TRUSS TIE DOWN



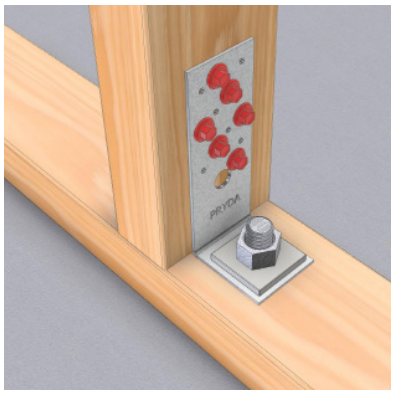
- Use an M12 tie-down rod with 40x40x5.0 washer anchored into concrete using a suitable epoxy set chemical anchor.
- Alternatively, to resist low uplifts, each bracket may be anchored using 4/ Pryda painted hex head 12G x 35mm screws into single wall plates giving capacities of 3.5 kN (JD5), 4.4 kN (JD4) or 6.0 kN (JD3).





- Additional connectors will be required to transfer tie-down forces from wall plate to foundation. Use 65mm screws (TCS12-65) when double wall plates are available and increase anchorage capacities accordingly to 7.0 kN (JD5), 8.5 kN (JD4) or 10.0 kN (JD3).

STUD TIE DOWN



- When anchored directly to concrete slab/foundation Pryda recommends using M12 RamsetTM AnkascrewTM. However, the designer should ensure the design capacity of the slab tie down connection meets or exceeds the capacity of the connector otherwise the lower of the design values between the connector and the tie down should be adopted.
- Typically, an M12x150 Ramset Ankascrew (with a min. 40x40x5 washer) would give an anchorage capacity of 14.0 kN in Grade 20 concrete used in an external 90mm wall frame having 35mm bottom plates.
- Using Ankascrews on internal walls can be subject to the depth of the slab – e.g. for 85-100 mm waffle pods 150mm anchors will be too long for the slab thickness and may limit the capacity of the connector.