PRODUCT DATA SHEET

UNITIES

FEATURES AND BENEFITS

SIMPLE: Easy to use for numerous right-angle connections.

VERSATILE: Available in standard 170mm or extended 400mm lengths.

DURABLE: Made from G300 Z275 steel.

AS1684 COMPLIANT

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

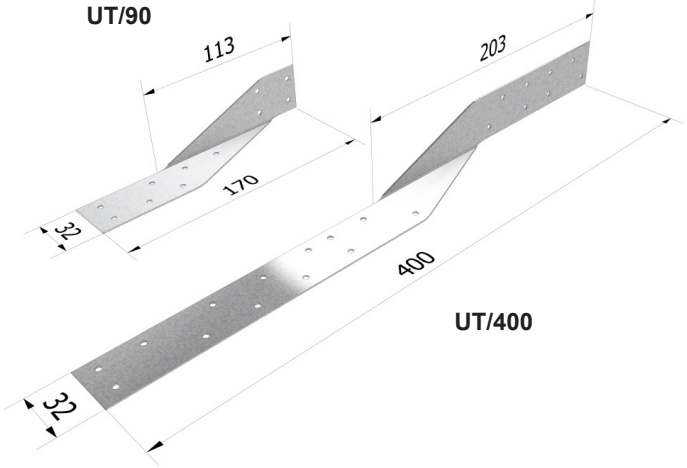
SPECIFICATIONS

STEEL	G300
THICKNESS	1.0mm
CORROSION RESISTANCE	Z275
LENGTHS	170mm, 400mm

FASTENER REQUIRED

NAILS	Pryda Timber Connector Nails 35 x 3.15mm Product code - OSNG
SCREWS	Pryda Painted hex head 12G x 35mm or 65mm Screws

Universal ties for joining timber at right angles.



UNITIES

PRODUCT CODE	MATERIAL	LENGTH (MM)	QUANTITY
MPUT/90L	G300 Z275 Galvanised Steel	170	100
MPUT/90R		170	100
UT/400L		400	80
UT/400R		400	80
UT90U/L (Unpunched)		170	100
UT90U/R (Unpunched)		170	100

PRYDA TIMBER CONNECTOR NAILS

PRODUCT CODE	MATERIAL	TYPE	SIZE	PACK CONFIGURATION	QUANTITY
OSNGB	Galvanised Steel	Flat Head	35 x 3.15mm	500g cardboard packs x 10	5kg
OSNG				1kg cardboard packs x 10	10kg
TPOSNG				5kg Trade pack x 1	5kg

DESIGN CAPACITIES

LOAD CASE	LIMIT STATE DESIGN ΦNJ (KN) PER UT/90 OR UT/400 FOR JOINT GROUP (SEE NOTES)						
	J4	J3	J2	JD5	JD4	JD3	JD2
1.35G	1.3	1.9	2.6	1.6	1.9	2.6	3.4
1.2G+1.5Qf	1.6	2.3	3.2	1.9	2.3	3.2	4.1
1.2G+1.5Qr	1.8	2.5	3.6	2.1	2.5	3.6	4.5
1.2G+Wdn or Wind Uplift	2.6	3.8	5.3	3.2	3.8	5.3	6.8

Notes:

1. Fixing details are 4 @ 35x3.15 mm galvanised Pryda Timber Connector Nails into each end.
2. Refer to Pryda's Connectors & Tie-down Design Guide available at pryda.com.au for description of load cases and joint groups.
3. The above capacities 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.
4. Reduce tabulated capacities by 20% if machine driven nails (4 nails on each member) are used to fix UT90U/L or UT90U/R. Alternatively, one extra nail can be used for every 4 specified Pryda product nails.

IMPORTANT:

READ THIS DATASHEET IN CONJUNCTION WITH PRYDA CONNECTORS & TIE-DOWN CONNECTORS DESIGN GUIDE AND REFER TO ESSENTIAL NOTES AND GENERAL NOTES.

INSTALLATION

JOIST CROSSING PERPENDICULAR TO BEAM CONNECTION

STEP 1

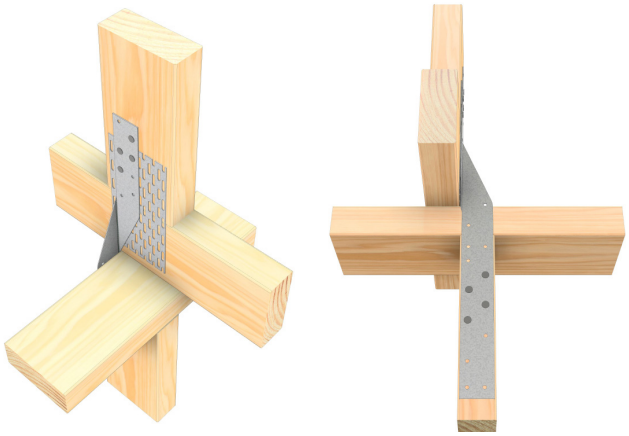
- Position the Unitie ensuring it is plumb and fix 4 Pryda 35 x 3.15mm Timber Connector Nails into the lower timber member
- If using the unpunched Unitie with a machine nailer, use 5 nails at even spacings

STEP 2

- Position the upper timber member and fix another 4 Pryda 35 x 3.15mm Timber Connector Nails
- If using the unpunched Unitie with a machine nailer, use 5 nails at even spacings

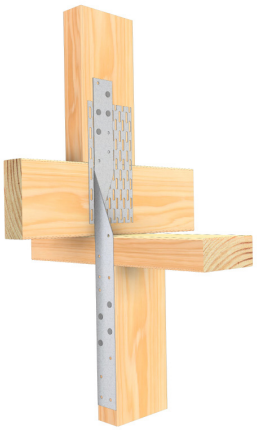
SECURING TRUSS TO STUD

STEP 1



- Using a 400mm Unitie, position on the truss so that the short leg of the UT400 is bearing on the truss web, and the long leg is on the face of the stud. Ensure the strap is centrally located to the stud and the tie is vertically plumb.
- Fix 4 Pryda 35 x 3.15mm Timber Connector Nails into the truss. Use the holes away from cut end of the vertical web whenever possible.
- If using a machine nailer, use 5 nails at even spacings and again select the area away from the cut end of the vertical web.

STEP 2



- Ensure Unitie is taught and then fix a further 4 Pryda 35 x 3.15mm Timber Connector Nails into the stud. Select holes away from stud cut end to avoid timber splitting.
- If using a machine nailer, use 5 nails at even spacings following similar hole pattern, fasten nails through steel and away from stud cut end.

FASTENING UNITIES

BUILD WITH CONFIDENCE

WHERE POSSIBLE, HAND NAILING WITH PRYDA TIMBER CONNECTOR NAILS IS ALWAYS PREFERRED, WHY?

- Pryda Timber Connector Nails are forged in one piece, unlike clouts that are two pieces soldered together, meaning the head can pop off
- Pryda Nails are the correct diameter, ensuring a tight fit in prepunched holes = a stronger connection
- Design values and testing have all been conducted using Pryda Timber Connector Nails
- Hand hammered nails ensure correct nail positioning and drive depth (not driven to shallow or too deep)

USING PASLODE MACHINE DRIVEN NAILS WITH UN-PUNCHED QHS6U AND QHS9U

32x2.3 mm Duo-Fast C SHEG (ie: screw hardened electro galvanized) machine driven nails (code D40810) or equivalent may be used instead of the specified 35x3.15 mm Pryda Timber Connector Nails to fix selected Pryda connectors provided that the following requirements are strictly adhered to:

- Design capacities shall be reduced by 20% using the same number of nails as specified for the connectors and
- Nails shall be driven at nail spacings and edge distances closely following the dimple pattern on un-punched QHS6U and QHS9U.

Extreme care must be taken when using machine driven nails as the prevailing installation practices tend to inhibit compliance with the above requirements.

Screw hardened, electro galvanised Paslode nails that are appropriate include:

- Duo-Fast C SHEG 32 x 2.3 (D40810)
- Paslode 32 x 2.5 mm (B25110)
- Duo-Fast 32 x 2.5 mm (D41060)
- Pas Coil 32 x 2.5 SHEG 2 Pack (B25250)
- Impulse 32 x 2.5 SHEG (B40020)

LOOKING FOR MORE DETAILS OR OTHER CONNECTORS IN OUR RANGE?

SEE OUR CONNECTORS & TIE-DOWN CONNECTORS DESIGN GUIDE AVAILABLE AT PRYDA.COM.AU