acrow.
ENGINEERING & CONSTRUCTION

CATALOGUE
HARDWARE & CONSUMABLE

Any safety provisions as directed by the appropriate governing agencies must be observed when using our products. The pictures in this document are snapshots of situations at different stages of assembly, and therefore are not complete images. For the purpose of safety, they should not be deemed as definitive.

The loads featured in this document, related to the parts of the product, are approximate.

The company reserves the right to introduce any modifications deemed necessary for the technical development of the product.

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Technical Manual Release Notes

This page is intended to record all changes to the **HARDWARE & CONSUMABLES** technical manual pages.

Changes or additions to this manual will be itemised with a brief description and date when the amendments were made.

ISSUE	DATE	Amendment Description
A	SEPT 2023	First Release
B	FEB 2024	Second Release

Contents

Technical Specifications

Important Information

The erection and application instructions contained in this catalogue are the recommended methods to be adopted when using the products listed in this catalogue.

The technical instructions contained in this catalogue must be accurately followed to achieve the correct function of the products. Any deviation from the recommended usage may require a separate design and/or verification by Acrow Engineering Department.

The use and application of the Hardware products must be in accordance with AS 3610, Occupational Health and Safety Regulations, approved industry codes of practice and relevant regulatory authority requirements in conjunction with information in this brochure. The illustrations in these assembly instructions are guidelines only. The combined use of Acrow products listed in this catalogue with equipment from other suppliers may entail performance problems and therefore is not recommended. Site specific Hazard and Risk assessments may need to be generated for specific projects.

Safety Warning

It is recommended that users of these products employ and implement appropriate procedures and control measures to eliminate or control any risk of Musculoskeletal disorder/injury while manually handling them. It should be taken into consideration that bags or boxes of small items can be heavy due to the quantity involved. Please refer to the mass and quantity pack sizes for guidelines.

Refer to Code of Practice on manual handling published by the local Workcover Authority or other approved and recognised guidelines for correct and appropriate manual handling procedures.

Usage Recommendations

Where applicable, usage recommendations for products have been included in this catalogue, however if the user is not sure of the correct way to use any product then the nearest Acrow Formwork & Scaffolding Branch office should be contacted for clarification.

Stock availability

The products listed in this catalogue are not necessarily carried as stock in all branches. Stocks are held in Branches to reflect the usage in the region. Please enquire at your local Acrow Branch for product availability.

Compliance

Where applicable, all Working Load Limits stated in this catalogue conform to AS3610 unless noted otherwise. Limit State Conversion Factor = 1.5

Technical Specifications

Disclaimer

The photographs/illustrations shown within this manual are intended as expressing the diversity and possible applications of the product and as such must not be used as assembly instructions.
In line with Acrow's commitment to continuous product development and improvement, the information contained in this manual may be changed without notice. Please confirm with Acrow Engineering for latest update.

While all reasonable effort has been taken to ensure the accuracy and adequacy of the information contained herein, Acrow, accepts no responsibility or liability for any loss or damage suffered by any person acting or refraining from action as a result of this information.

Should users require any expert assistance, they are encouraged to contact Acrow Engineering department.

1. HI-TENSILE THRU TIE SYSTEM

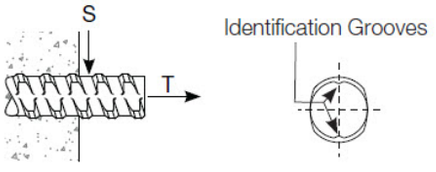
1. Hi-Tensile Thur Tie System

HT Thru Tie Rod

The HT Thru Tie Rod is manufactured from high grade steel and features a special 'high speed' thread to reduce the time and cost of erecting and dismantling the HT Thru Tie assembly. Tie Rods need not be cut to exact lengths for each job. The Tie Rod is a continuously threaded hot rolled and mill treated bar intended for formwork.

No welding or cutting with OXY. Contact Acrow Formwork & Scaffolding for welding information of HT Thru Tie Rod.

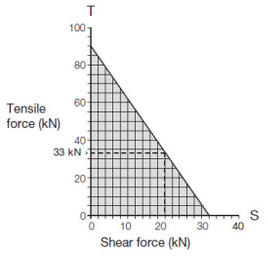
Dia:	15mm	20mm	26mm
Mass:	1.44kg/m	2.56kg/m	4.48kg/m
Code:	QTTR015	QTTR020	QTTR026
Nom. Dia:	15/17mm	20/23mm	26.5/30mm
Available lengths:	Up to 5.8m	Up to 6.0m	Up to 6.0m



15mm HT Thru Tie Rod Load Capacity

Tensile Working Load Limit = 90 kN
Shear Working Load Limit = 32 kN
For interaction between tensile force and shear force see graph opposite.

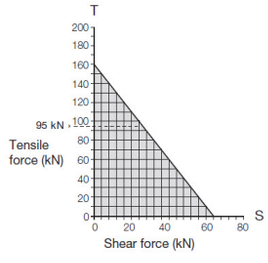
Example: At shear force S = 20 kN the HT Thru Tie Rod can simultaneously take a tensile force of T = 33 kN.



20mm HT Thru Tie Rod Load Capacity

Tensile Working Load Limit = 160 kN
Shear Working Load Limit = 65 kN
For interaction between tensile force and shear force see graph opposite.

Example: At shear force S = 26 kN the HT Thru Tie Rod can simultaneously take a tensile force of T = 95 kN



26mm HT Thru Tie Rod Load Capacity

Tensile Working Load Limit = 300 kN

Notes:

1. HT Thru Tie Bars must not be used as a load lowering/raising device.
2. For Welding or Galvanising HT Thru Tie Bars please refer Acrow Engineering Department.
3. When the Thru Tie is supporting the form weight in a climbing form application, the load must be applied directly at the concrete face.
4. The Thru Tie is not suitable to resist forces which impose bending moments.
5. Maximum capacities may be limited by other components, for example, washer and bearing stress under washer.
6. Limit State conversion factor = 1.5
7. Engineering principles dictate that when members are continuous over multiple spans, the reaction at the supports are not always equal to 'Spacing x Span x Pressure', so a Reaction Coefficient must be applied when assessing the force.

1. Hi-Tensile Thur Tie System

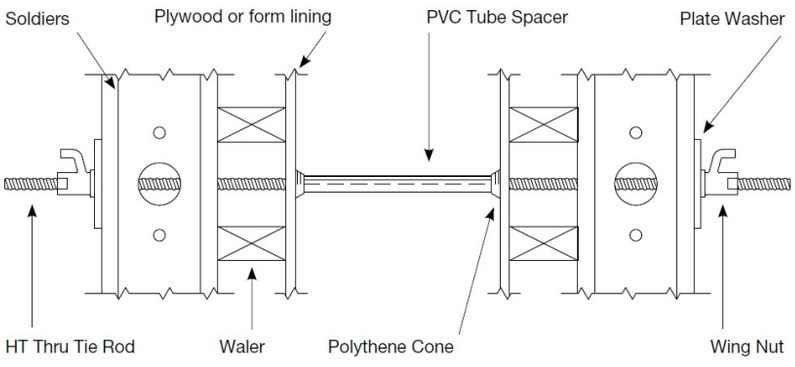
HT Thru Tie Rod

Example:

For members continuous over 2 equal spans - Reaction Coefficient = 1.25
For members continuous over 3 equal spans - Reaction Coefficient = 1.1
(Reaction Coefficients may be applied in two directions.)

- In Formwork applications, Clause 4.5.6.3 (c) of AS 3610 specifies that, 'for Tension Members resisting Lateral Concrete Pressure, the forces to be used shall be increased by at least 20%'.
- The force as adjusted by the above factors must be equal or less than the WLL for that member.
- For more information consult the Acrow Engineering Department or a competent engineer.

Typical Thru Tie Assembly



15mm Fiberglass Thru Tie Rod

Dia:	15mm
Mass:	kg/m
Code:	F1580
Nom. Dia:	15/17mm
Available lengths:	Up to 5.8m

15mm HT Thru Tie Rod Load Capacity

Tensile Working Load Limit = 40 kN
Shear Working Load Limit = 5 kN
Elongation = 0.0058mm per mm of length @ 40Kn tension load.

Note:
Only Acrow Cast 15mm One Arm wingnuts to be used with Fiberglass Thru-tie rod.
WLL's are based on single use applications.
Thru-tie bar must not have combined shear and tension loads applied.

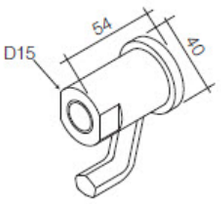
1. Hi-Tensile Thur Tie System

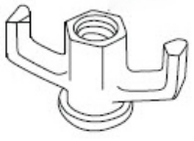
HT Thru Tie Components

Dia:	15mm
Mass:	0.45kg
Code:	QTTCWN15
Code (galv):	QTTCWN15G
Dia:	20mm
Mass:	0.48kg/m
Code:	QTTCWN20
Dia:	26mm
Mass	0.87kg/m
Code:	QTTCWN26

HT Thru Tie Cast Wing Nut

Wing Nut is designed to spin freely on the 'high speed' thread by hand and may be tightened using either an AF spanner or a length of bar. The unbalanced, single wing design resists movement under vibration.
Tensile Working Load Limit when used with:
D15 HT Thru Tie Rod = 90 kN
D20 HT Thru Tie Rod = 160 kN
D26 HT Thru Tue Rod = 300 kN

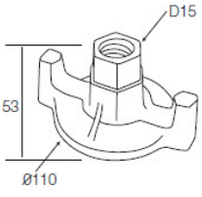




Dia:	15mm
Mass:	0.7kg
Code:	QTTFNW015

HT Thru Tie Fixed Nut Washer

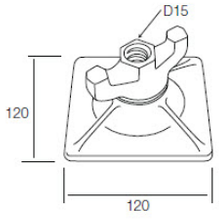
Tensile Working Load Limit when used and centrally positioned with:
Acrow Slim-Max Soldier, WLL = 50 kN
Acrow Slim-Light Soldier, WLL = 60 kN



Dia:	15mm
Mass:	1.08kg each
Code:	QTTSNW015
Max. Inclination:	150

HT Thru Tie Swivel Wing Nut

Tensile Working Load Limit when used and centrally positioned with:
Acrow Slim-Max Soldier, WLL = 78 kN
Acrow Slim-Light Soldier, WLL = 67 kN

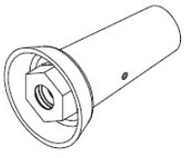


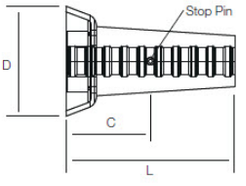
Dia:	15mm
Mass:	0.25kg
Code:	QTTSCC075
Length, L:	75mm
Concrete Cover, C:	35mm
D:	50mm
Dia:	15mm
Mass:	0.65kg
Code:	QTTSCC100
Length, L:	100mm
Concrete Cover, C:	48mm
D:	62mm

HT Thru Tie Steel Cone & Collar

Similar to Polythene Cones but screws to 15mm diameter Thru Tie with no spacer tube required as a result the tie is not recoverable. All the threads in the Cone MUST be fully engaged with Thru Ties. The Steel Cone is removed with a socket wrench after pour.
Tensile Working Load Limit when used with:

- D15 HT Thru Tie Steel Cone & Collar (L=75) = 50 kN
- D15 HT Thru Tie Steel Cone & Collar (L=100) = 80 kN





1. Hi-Tensile Thur Tie System

HT Thru Tie Components

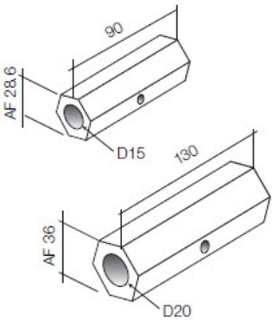
Dia:	15mm (hex)
Mass:	0.34kg
Code:	QTTC090
Dia:	20mm (hex)
Mass:	0.74kg
Code:	QTTC130
Dia:	26mm (round)
Mass	1.50kg
Code:	QTTC170

HT Thru Tie Rod Coupler

Rod Couplers can be used to join HT Thru Ties where greater lengths are required (or for economical use of cut lengths). The Rod Coupler remains buried in the concrete. The HT Thru Tie Rod MUST be screwed hard up to the centre deformation inside the Rod Coupler.

Tensile Working Load Limit when used with:

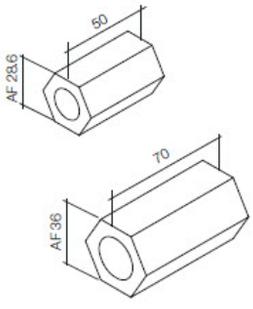
- Dia 15 Thru Tie Coupler = 90 kN
- Dia 20 Thru Tie Coupler = 160 kN
- Dia 26 Thru Tie Coupler = 300 kN



Dia:	15mm
Mass:	0.2kg
Code L 20mm:	QTTHN020
Code L 30mm:	QTTHN030
Code L 50mm:	QTTHN050
Dia:	20mm
Mass:	0.4kg
Code L 70mm:	QTTHN070

HT Thru Tie Hex Nut

Hex Nuts MUST NOT be used as a substitute for Rod Couplers.



24.5 OD PVC Conduit	
Mass:	70g/m
Code:	QTTST015
27.0 OD PVC Conduit	
Mass:	80g/m
Code:	QTTST020

PVC Conduit

The expendable PVC Tube Spacer is available in 2 diameters 24.5 OD to suit the 15/17mm Thru Tie Rod. 27.0 OD to suit the 19/21mm Thru Tie Rod. Note: When using HT Thru Tie Rod, the length of the PVC Tube Spacer plus two Polythene Cones must be equivalent to the thickness of the concrete wall being constructed.

Dia:	15mm
Mass:	0.3kg
Code:	QTTES015
Dia:	20mm
Mass:	0.4kg
Code:	QTTES020

HT Thru Tie Expansion Shell

Thru Tie Expansion Shells can be used for single sided shutters or temporary tie downs in concrete.

1. Hi-Tensile Thur Tie System

HT Thru Tie Components

Dia:	15mm	20mm
WLL*:	40.2kN Tension	73.8kN Tension
Drilled Hole Dia:	35-37mm	51-53mm
Min. Eff. Anchor Depth::	200mm	300mm
Min. Anchor Hole Depth:	290mm	420mm
Min. Compressive Strength	25MPa	25MPa
Min. Edge Distance:	300mm	450mm
Min. Spacing:	600mm	900mm

Installation:

1. Drill hole with recommended diameter and depth. The diameter of the hole should be as small as possible.
2. Clean the borehole and remove all debris.
3. Screw the Thru Tie Rod into the cone of the Expansion Shell.
4. Remove the plastic sleeve and insert the anchor into the borehole. The Shell should have slight contact with the borehole.
5. After insertion of the anchor screw the Rod by hand (right hand thread) until the anchor is fi xed and cannot be moved further.
6. Undertake pull testing to 120% of the required working.

* This is an estimate of Working Load Limit for pull out force in 25MPa concrete. Load to ensure anchor is set correctly. Thru ties used in this application should not be loaded in shear. Tensile application only.

15mm - 125x100x8mm Plate Washer	
Mass:	0.8kg
Code:	QPWAS001

20mm - 130x130x12mm Plate Washer	
Mass	1.6kg
Code:	QPWAS003B

26mm - 150x120x30mm Plate Washer	
Mass	4.0kg
Code:	QPWAS026

Plate Washers

Working Load Limit when used and centrally positioned with:

15mm

- Acrow Slim-Max Soldier, WLL = 50 kN
- Acrow Slim-Light Soldier, WLL = 65 kN

20mm

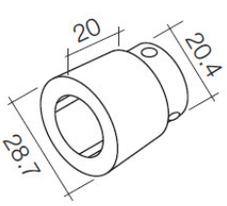
- Acrow Slim-Max Soldier, WLL = 80 kN
- Acrow Slim-Light Soldier, WLL = 68 kN

To suit 27.0 OD PVC Conduit	
Mass:	1.0 kg per pack of 100
Code:	QTTPCL020

To suit 24.5 OD PVC Conduit	
Mass	0.8 kg per pack of 100
STD Code No:	QTTPCB001
HD Code No:	QTTPC015

Polythene Cones

Removable after use. These 'push- fit' Polythene Cones fit on the ends of the PVC Tube Spacer. Available in two sizes to suit the 24.5 and 27.0mm OD spacer tube. The plastic cone leaves a clean- edged neat hole which can be filled with concrete plugs.



QTTPCL020

QTTPCB001

QTTPC015

1. Hi-Tensile Thur Tie System

HT Thru Tie Components

Dia:	15mm
Mass:	0.5kg
Code:	QTTWB001

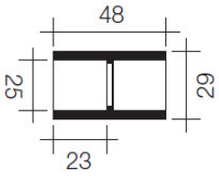
Water Barrier

The Water Barrier is used to provide a water tight seal between the two sides of a concrete wall. It is used in conjunction with 15mm diameter HT Thru Tie, Polythene Cones, PVC Tube Spacers and Water Barrier Sleeves to allow recovery of the HT Thru Tie Rods. With this arrangement, it is suitable for wall thicknesses greater or equal to 200mm. The HT Thru Tie MUST be screwed hard up to the centre plate.
Tensile Working Load Limit = 85 kN

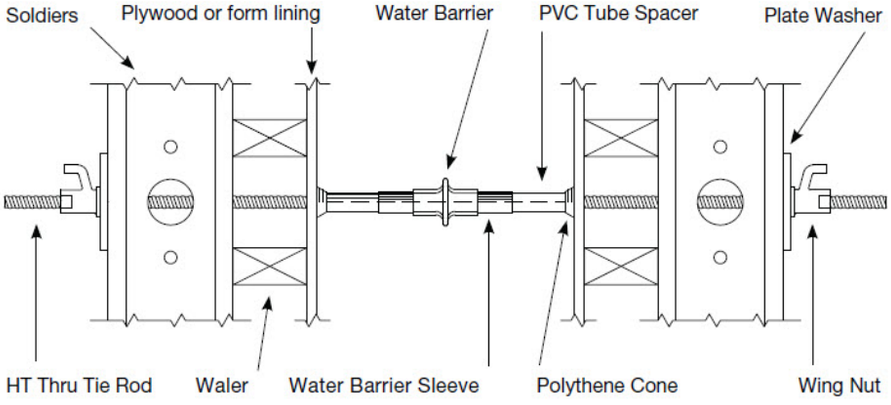
Mass:	1.46 kg per 100pk
Code:	QTTWBS001

Water Barrier Sleeve

Water Barrier Sleeve, a plastic sleeve used in the recovery of HT Thru Tie Rods when Water Barriers are used. All dimensions are nominal.

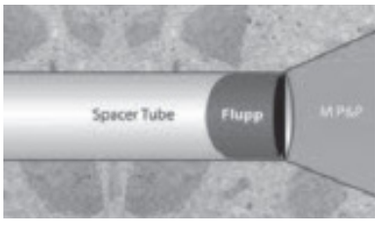


Typical Water Barrier Assembly



Code:	QRFLU001

When the Flupp is used in the recommended way, and M P&P mortar is used to seal the cone, materials such as those mentioned above do not come into direct contact with the Flupp.



Application schematic illustrating use of Flupp 22ST and M P&P Mortar.

Rubber Flupp - 20mm

Internal water seal for spacer tubes.
This soft PVC based material is resistant to:

- Saline Solutions
- Diluted Alkaline Solutions
- Soap Suds
- Ammonia Water

The Flupp 22ST is also conditionally resistant to:

- Detergents
- Sulphuric Acid – up to 40%
- Hydrochloric Acid – up to 35%
- Concentrated Caustic Soda Solution
- Concentrated Potash Lye
- Oil – mineral, vegetable and animal fats

1. Hi-Tensile Thur Tie System

HT Thru Tie Components

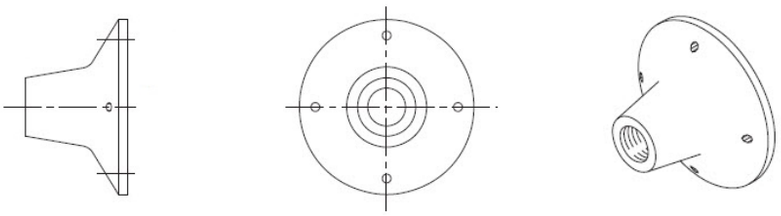
15mmx70mm	
Mass:	0.55kg
Code:	QTTFA070

20mmx20mm	
Mass:	0.85kg
Code:	QTTFA090

26.5mmx120mm	
Mass:	1.20kg
Code:	QTTFA120

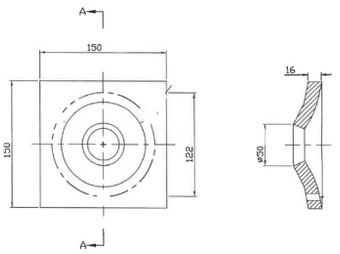
HT Thru Tie Fix Anchor

Permissible WLL:
15mm = 90 kN
20mm = 160 kN
26mm = 300 kN



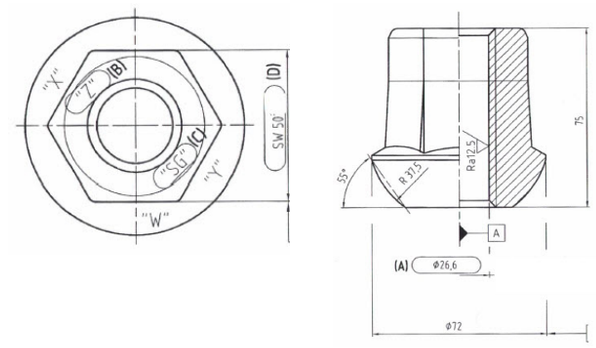
200x200 DW26	
Mass:	5.1kg
Code:	QTTDP202026

HT Thru Tie Domed Plate 200x200 DW26



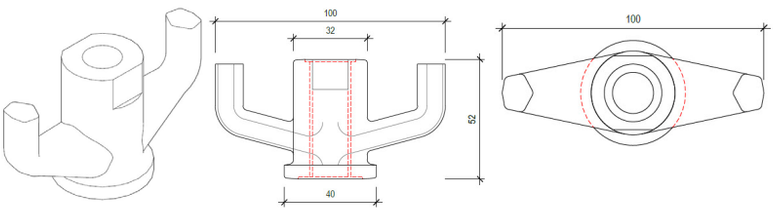
DW26	
Mass:	3.5kg
Code:	QTTDN26

HT Thru Tie Domed Nut DW26



15mm Wing Nut	
Mass:	0.45kg
Code:	F100A

15mm Wing Nut (2 arm)



1. Hi-Tensile Thur Tie System

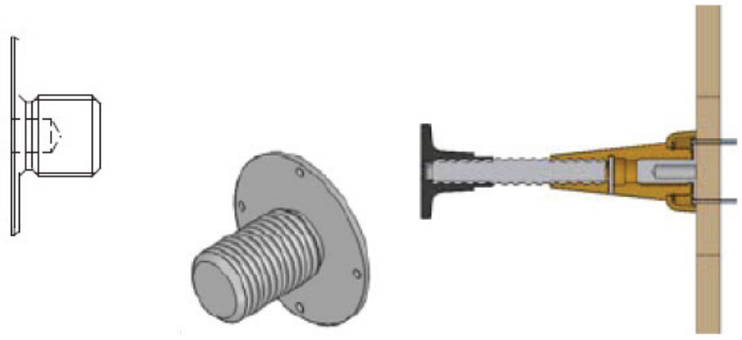
HT Thru Tie Cone Positioner

M24	
Mass:	0.2kg
Code:	QTTCP24

M30	
Mass:	0.3kg
Code:	QTTCP30

M36	
Mass:	0.32kg
Code:	QTTCP36

For positioning of Thru Tie Cone DW26/36 on form face, when it cannot be drilled.



Note: Cone Positioner fixed to form face with 4 x Nails (30x80), subsequent removal with 14mm Allen Key.

DW15 / M24	
Mass:	2.2kg
Code:	QTTC1524

DW20 / M30	
Mass:	1.95kg
Code:	QTTC2030

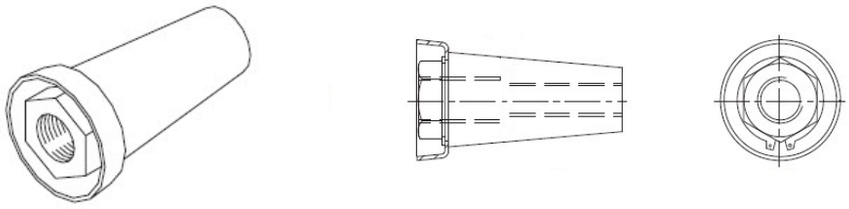
DW26 / M36	
Mass:	3.04kg
Code:	QTTC2636

DW15 / M15 - 75mm	
Mass:	0.27kg
Code:	QTTSCC075

DW15 / M15 - 100mm	
Mass:	0.65kg
Code:	QTTSCC100

HT Thru Tie Cone

For anchoring climbing scaffold.



DW26/
M36

1. Hi-Tensile Thur Tie System

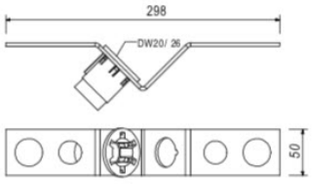
V-tie Holder

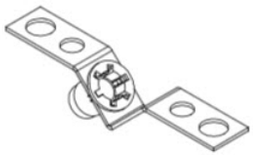
V-Tie Holder DW20/26	
Mass:	0.43kg
Code:	F1028

V-Tie Holder Insert 20mm	
Code:	F1028A

V-Tie Holder Insert 26.5mm	
Code:	FT1028B

For easy installation of DW20 & DW26 Tie Rods at 45 degree inclinations.

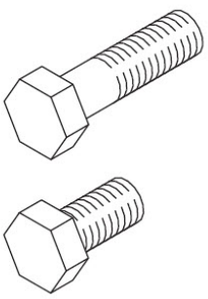




HT Thru Tie System - Bolts

High strength bolt for scaffold anchoring.

M10	
Item	**Code**
M10x25MM BOLT / GRADE 8.8	241025
M10x80 DIN 931 / GRADE 8.8	950066
M10 ZINC CLASS 8 HIGH TENSILE HEX NUT	
M10 ZINC NYLOC NUT	0950067
M10X40 NUT & BOLT ASSY COUNTSNK / GRADE 8.8	QNBCM1040H
M10X40 NUT & BOLT ASSY / GRADE 8.8	QNBM1040H
M10x50MM BOLT / GRADE 8.8	9521592
M10X60 NUT & BOLT ASSY CUPHEAD / GRADE 8.8	QNBCM1060H
M10X60MM BOLT / GRADE 8.8	241061
M10X65 NUT & BOLT ASSY / GRADE 8.8	QNBM1065H
M10X70 NUT & BOLT ASSY / GRADE 8.8	QNBM1070H
M12	
BOLT M12x140 DIN 933-8.8	950057
CUP HEAD BOLT M12X130	QCHBM12130
CUPHEAD BOLT/NUT GALV M12	QCBNG001
HEX HEAD BOLT M12X180 GR 8.8 ZP	QBM12180H
M12 X 100MM NUT AND BOLT	F1014
M12 X 130MM BOLT	M12X130
M12 X 30MM BOLT / GRADE 8.8	F1038
M12 X 60MM BOLT / GRADE 8.8	F1013
M12 X 80MM BOLT & NUT COMMERCIAL GRADE	QNBM1280M
M12 ZINC NYLOC NUT	950073
M12X100 NUT & BOLT ASSY GR 8.8	QNBM12100H
M12X170MM BOLT / GRADE 8.8	F1039
M12X30 NUT & BOLT ASSY GR 8.8	QNBM1230H
M12x50MM BOLT / GRADE 8.8	241250
M12X80 NUT & BOLT ASSY GR 8.8	QNBM1280H



1. Hi-Tensile Thur Tie System

HT Thru Tie System - Bolts

M16	
Item	**Code**
BOLT M16 X 140	QBOLM001
BOLT M16x100 Gr 8.8	940918
BOLT M16X45 / GRADE 8.8	241645
BOLT M16x50 DIN-933-8.8	241650
HEX HEAD BOLT M16X200 GR 8.8	QBM16200H
HEX HEAD BOLT M16X75 GR 8.8 ZP	QBM1675H
M16 X 55 NUT & BOLTGR8.8 GALV	QBM1655H
M16 ZINC NYLOC NUT	QNM16N
M16X120 NUT & BOLT GR8.8 GALV	QBM16120H
M16X120MM BOLT / GRADE 8.8	241610
M16X130MM BOLT / GRADE 8.8	241614
M16x150MM BOLT / GRADE 8.8	241616
M16X35 NUT & BOLT ASSY GR 8.8	QNBM1635H
M16X45 NUT & BOLT ASSY GR 8.8	QNBM1645H
M16x70MM BOLT / GRADE 8.8	241670
M16X75 NUT & BOLT ASSY GR 8.8	QNBM1675H
M16X80 NUT & BOLT ASSY GR 8.8	QNBM1680H
M16x80MM BOLT / GRADE 8.8	241680
M16x90 BOLT Gr 10.9	950121
M16X90 NUT & BOLT ASSY GR 8.8	QNBM1690H
M16X90MM BOLT / GRADE 8.8	241690
M18	
M18 ZINC HEX NYLOC NUT	F1040
M18X130MM BOLT / GRADE 8.8	241813
M20	
HEX HEAD BOLT M20X100 GR 4.6	QBM20100C
HEX HEAD BOLT M20X50 GR 4.6	QBM2050C
HEX HEAD BOLT M20X50 GR 8.8	QBM2050H
HEX HEAD BOLT M20X65 GR 8.8	QBM2065H
M20 X 130 BOLT / GRADE 8.8	242013
M20 ZINC NYLOC NUT	QNM20N
M20X100 BOLT / GRADE 8.8	242010
M20X120 NUT & BOLT ASSY GR 8.8	QNBM20120H
M20x120MM BOLT / GRADE 8.8	242012
M20X150MM BOLT / GRADE 8.8	242015
M20X60MM BOLT / GRADE 8.8	242060
M20X80MM BOLT / GRADE 8.8	242080

M24	
Item	**Code**
BOLT M24X100 DIN-931-8.8	242410
BOLT M24X190 GRADE 8.8	950088
BOLT M24x220 GRADE 8.8	950064
BOLT M24X250 GRADE 8.8	950089
BOLT M24X50 DIN-933-8.8	242450
BOLT M24X80 DIN-933-8.8	242480
M24 X 200MM BOLT	M24X200
M24 ZINC NYLOC NUT	242400
M24x100 NUT & BOLT ASS GRADE 10.9	QNBM24100PS
M24X120 NUT & BOLT ASSY GRADE 8.8	QNBM24120H
M24X140 BOLT & NUT	SALPP
M24X60MM BOLT / GRADE 8.8	242460
M24X65MM BOLT / GRADE 10.9	F1043
M24X80MM BOLT / GRADE 8.8	242483
M24X90 NUT & BOLT ASSY GRADE 8.8	QNBM2490H
M30	
BOLT M30X130 / GRADE 8.8	243013
BOLT M30X130 DIN-912-10.9	339079
BOLT M30X80 DIN-912-10.9	339078
M36	
M36 X 250MM BOLT	M36X250

1. Hi-Tensile Thur Tie System

Natform Cast-In Holding Down Bolt

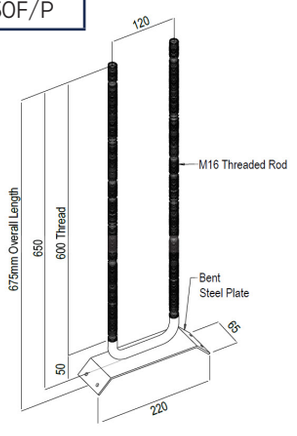
DIA 16mm - 650mm Bent HDB	
Mass:	2.50kg
Code:	HDB-650B/P

Holding Down Bolts are designed to be cast into the slab and be used as fixing points for the Natform Screen System; however, they can also be used to fix down anything that can fit within the 120mm spacing between threads.

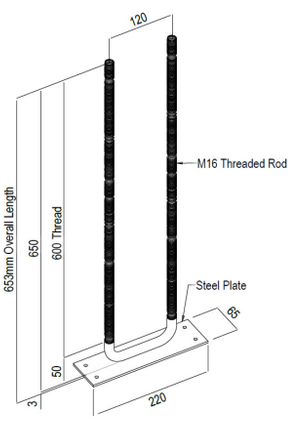
DIA 16mm - 650mm Flat HDB	
Mass:	2.50kg
Code:	HDB-650F/P

Tensile Working Load Limit when used with:
1 off Thread = 21kN
2 off Thread = 42kN

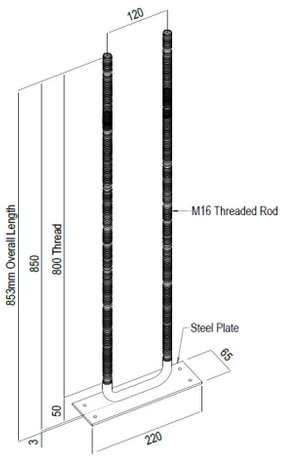
DIA 16mm - 850mm Flat HDB	
Mass:	3.12kg
Code:	HDB-850F/P



650mm BENT HDB



650mm FLAT HDB



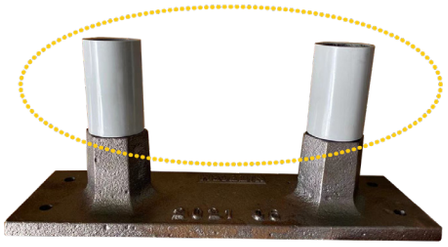
850mm BENT HDB

DIA 15mm Thru Tie Double Fix Anchor	
Mass:	1.178kg
Code:	QTTDFA15

Thru Tie Double Fix Anchor 15mm

Thru Tie Water Barrier Sleeve	
Mass:	0.015kg
Code:	QTTWBS001
QTY per pack:	100

Thru Tie Water Barrier Sleeve



2. Pins & Nails

2. PINS & NAILS

2. Pins & Nails

Podger Pins

Podger Pins are used for aligning holes and expanding holes in mild steel.

	**D7 x 50**	
	Mass:	0.042kg
	Code:	9023110
	**D16 x 118mm**	
	Mass:	0.18kg
	Code:	PP16-1
	**D16 x 148mm**	
	Mass:	0.29kg
	Code:	
	**D19 x 118mm**	
	Mass:	0.35kg
	Code:	
	**E20 x 70mm**	
	Mass:	0.29kg
	Code:	0252070
	**D25 x 140mm**	
	Mass:	0.7kg
	Code:	1907135
	**D32 x 80mm**	
	Mass:	0.67kg
	Code:	0253280
	**D32 x 120mm**	
	Mass:	0.9kg
	Code:	0253212
	**D32 x 150mm**	
	Mass:	101kg
	Code:	0253215
	**D34 x 135mm**	
	Mass:	1.21kg
	Code:	0335226

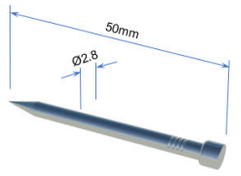
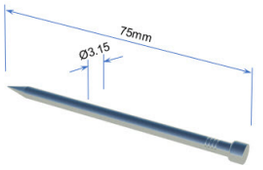
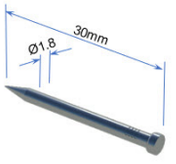
2. Pins & Nails

Podger Pins & Cotter Pins

	**D40 x 85mm**	
	Mass:	1.1kg
	Code:	1908120
	**D40 x 95mm**	
	Mass:	1.1kg
	Code:	3200602
	**R/3**	
	Mass:	0.02kg
	Code:	9370571
	R/4	
	Mass:	0.02kg
	Code:	9023100
	R/5	
	Mass:	0.03kg
	Code:	250000

Nails

Galvanised Bullet Head Nails have plain shanks and are suitable for general purpose use as timber to timber connectors. Good corrosion protection

	**50 x 2.8mm Bullet Head Nails**	
	Mass:	15kg
	Code:	QNBHE036
	**75 x 3.15mm Bullet Head Nails**	
	Mass:	15kg
	Code:	QNBHE045
	**30 x 1.8mm Fillet Nails**	
	Mass:	2kg
	Code:	QNBHE0302

3. Waler Clamp, Screens & Washers

3. WALER CLAMP, SCREWS & WASHERS

3. Waler Clamp, Screens & Washers

Soldier Waler Clamps & Screws

Item	Code
Soldier Timber Waler Clamp	STWC
Waler VM20 Clamp	1960350
14G HH 50mm Waler Clamp Screw	QWCS14G50
14G HH 75mm Waler Clamp Screw	QWCS14G75
14G HH 100mm Waler Clamp Screw	QWCS14G100
14G HH 125mm Waler Clamp Screw	QWCS14G125
14G HH 150mm Waler Clamp Screw	QWCS14G150

Washers

Description	Hole Dia (mm)	Mass (kg)	Code
Sq. Washer ZP 38 x 38 x 3	13	0.04	QWSQZ015
Sq. Washer ZP 50 x 50 x 3	13	0.06	QWSQZ025
Sq. Washer ZP 38 x 38 x 5	13	0.10	QWSQZ010
Sq. Washer ZP 50 x 50 x 5	17	0.10	QWSQZ005
Sq. Washer ZP 50 x 50 x 3	11	0.06	QWSQZ001
Sq. Washer ZP 50 x 50 x 3	17	0.06	QWSQZ030
Sq. Washer ZP 75 x 75 x 6	13	0.27	QWSQZ040
Sq. Washer ZP 75 x 75 x 6	16	0.27	SSWASHM16
Sq. Washer ZP 75 x 75 x 6	17	0.27	QWSQZ045
Sq. Washer ZP 75 x 75 x 6	21	0.27	QWSQZ050
15mm Plate Washer 125 x100 x8mm	17	1.60	QPWAS001
20mm Plate Washer 130x130x12mm	22	1.60	QPWAS003B
26mm Plate Washer 150x120x30mm	28	4.0	QPWAS026

5. Acrow Props

4. ACROW PROPS

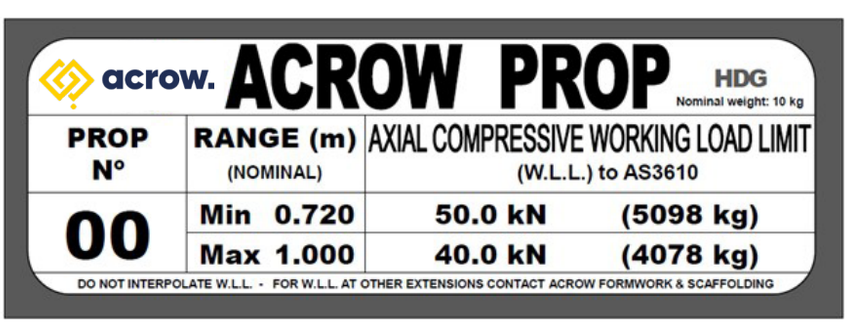
4. Acrow Props

Acrow Prop

A range of high tensile props designed to be used for falsework support, temporary support and raking shores. Available in 6 sizes covering a range from 1050mm to 4900mm with axial compression working load limits ranging from 7kN to 42.5kN.

The Acrow Prop specifications and Working Load Limits are summarised in table below:

ACROW PROP	MASS (kg)	EXT. MIN (mm)	EXT. MAX (mm)	OUTER LENGTH (mm)	INNER LENGTH (mm)	HOLES ON INNER	MAX WLL @ MIN EXT. (mm)	MAX WLL @ MAX EXT. (mm)
No. 00	10	720	1000	689	580	4	50.0	40.0
No. 0	13	1050	1830	1039	1039	5	42.5	23.3
No. 1	17	1600	2800	1459	1589	9	34.0	13.0
No. 2	20	1900	3400	1759	1889	11	39.5	10.9
No. 3	23	2170	3975	2059	2163	13	35.8	7.7
No. 4	30	3100	4900	2059	3089	12	18.0	7.0



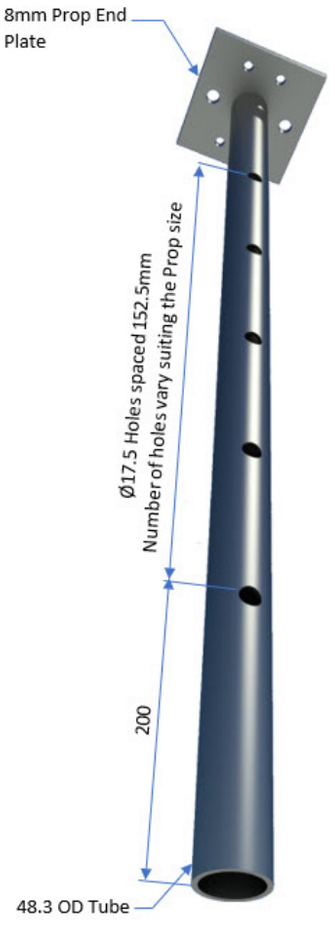
5. Acrow Props

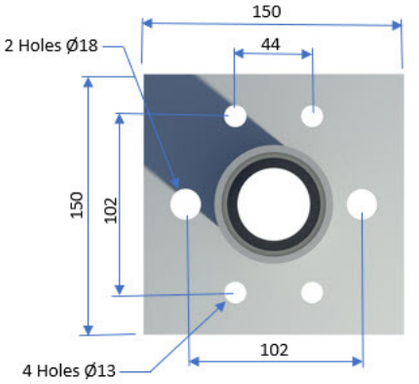
Acrow Prop Specifications

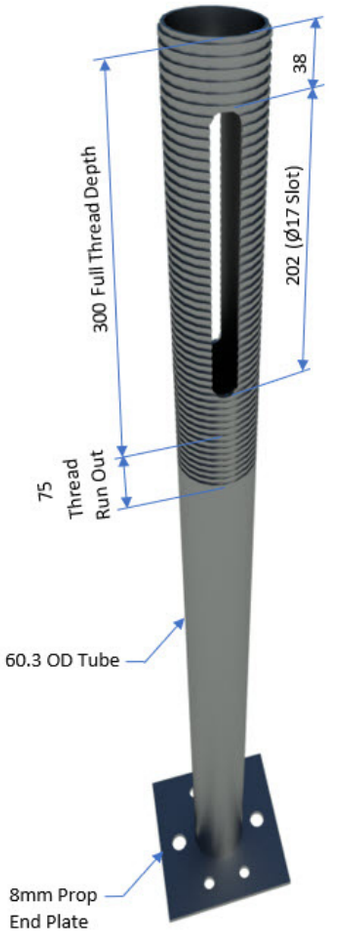
Acrow Prop offer a range of props capable for supporting formwork ranging from 720mm to 4900mm high. Manufactured form high tensile steel, the prop consists of four parts:

1. The outer tube with welded base-plate
2. The inner tube with welded top-plate
3. The nut and handle
4. The chainless prop pin

The prop outer tube is 60.3 OD tube x 3.6mm thick having 300mm rolled thread and slot provides the ability for each prop to have fine adjustment within the given range. The rolled thread retains the wall thickness of the tube thus maintaining maximum strength.
A reduction couplers enable standard scaffold tube to be connected to the ACROW PROP outer-tube for bracing purposes.
The prop inner tube is 48.3 OD x 3.6mm thick for prop No. 00 to No. 03 and 3.9mm thick for prop No. 4. The props inner tube has a series of Ø17.5 holes spacing at 152.5mm increments provide the major adjustment for the prop height. Inner tube diameter enables standard scaffold tube and couplers to be used for bracing purposes.







5. P20 Beams

5. P20 BEAMS

5. P20 Beams

P20 Beams

Pre-fabricated wooden beams for formwork The double T-section has a height of 200mm and a width of 80mm with protective plastic end caps, designed to resist any impacts.

Beams fabricated to EN Working Load limits:

- M = 5.0 kNm
- V = 11.0kN

Item	Mass (kg)	Code
1.9m Acrow P20 Beam	9.5	P20B19
2.45m Acrow P20 Beam	12.3	P20B245
2.65m Acrow P20 Beam	13.3	P20B265
2.9m Acrow P20 Beam	14.5	P20B29
3.6m Acrow P20 Beam	18.0	P20B36
4.9m Acrow P20 Beam	24.5	P20B49
5.9m Acrow P20 Beam	29.5	P20B59

6. Consumables

6. CONSUMABLES

6. Consumables

Formatube

Formatube is a proven robust system for pouring circular columns. It is constructed from laminated plies of fibre using a non-water sensitive adhesive. The exterior surface is of laminated tar and fibreglass impregnated paper. The inside surface is coated with polyethylene with minimum thickness of 0.02mm. Formatube is designed so a vapour barrier forms to prevent penetration of moisture. Thus the dry strength of fibres and plies is not threatened.
Numerous uses over a period of many years has proven that the Formatube remains circular before and during the pouring of the concrete giving the desired column shape . Formatube can be cut to length using a handsaw. Stability bracing is required to maintain the form in a plumb position, this can be done with timber raking bracing fixed to vertical batons nailed to the Formatube or by scaffolding built around the Formatube. When columns are poured in conjunction with the slab the top of the Formatube can be fixed to the slab formwork.
Formatube left in place prevents moisture loss of the concrete due to seepage, absorption and evaporation, ensuring proper cement hydration and curing. Moisture retention also enhances value of any concrete additives and averts any damage to concrete through misapplication of curing treatments. Formatube has heat conductivity of 0.108 watt per metre kelvin, providing good insulation qualities.

Formatube

Strip Formatube 1 to 5 days after curing. Stripping can be easily done by making two vertical cuts up the column and pulling forms off. Alternatively, make vertical 30mm cut in tube and peel spirally with broad-bladed tool. To protect the column during construction, remove the form in the recommended time using the two vertical cut method then re-attach it to the column with wire.

Formatube

Size:	Mass (kg)	Code
254mm ID x 4.2mm Wall x 3m	6.51	QFAT253M
306mm ID x 4.2mm Wall x 3m	7.80	QFAT303M
306mm ID x 4.2mm Wall x 4m	10.40	QFAT304M
306mm ID x 4.2mm Wall x 5m	13.00	QFAT305M
355mm ID x 4.7mm Wall x 3m	10.20	QFAT353M
355mm ID x 4.7mm Wall x 4m	13.60	QFAT354M
355mm ID x 4.7mm Wall x 5m	17.00	QFAT355M
407mm ID x 4.7mm Wall x 3m	11.70	QFAT403M
407mm ID x 4.7mm Wall x 4m	15.60	QFAT404M
407mm ID x 4.7mm Wall x 5m	19.50	QFAT405M
457mm ID x 5.2mm Wall x 3m	14.70	QFAT453M
457mm ID x 5.2mm Wall x 4m	19.60	QFAT454M
457mm ID x 5.2mm Wall x 5m	24.50	QFAT455M
505mm ID x 5.2mm Wall x 3m	16.20	QFAT503M
505mm ID x 5.2mm Wall x 4m	21.60	QFAT504M
505mm ID x 5.2mm Wall x 5m	27.00	QFAT505M
610mm ID x 5.8mm Wall x 3m	21.30	QFAT603M
610mm ID x 5.8mm Wall x 4m	28.40	QFAT604M
610mm ID x 5.8mm Wall x 5m	35.50	QFAT605M

6. Consumables

Plastube

Plastube circular column formwork is made by spirally winding a continuous strip of plastic profile, locking the edges together to form a tube. It's a fast and effective process that results in the most convenient formwork available. Forms can be manufactured from 250 to 2000mm. Two finishes are available: Structural or Architectural. Structural, which will show a spiral line on the finished column. Architectural, columns lined with a rigid plastic sheet, providing a smooth finish to the concrete column*.
*One or more visible lines will appear on the formed column where the liner(s) have been taped together.

Storage of Plastube

Column formwork should not be stored in direct sunlight for long periods; where possible columns should be stored vertically. It is recommended that architectural grade columns are protected from wet weather as the moisture degrades the fiberglass tape used to secure the formed tube. Where columns can be stored horizontally:

- The ground must be flat, even and clear of debris.
- Formwork stacks should not exceed 1.5 meters high.
- Formwork made from heavy profile should not be stored on top of formwork made from light profile.

Fixing, Stripping & Ordering of Plastube

The top and bottom of the column must be fixed in their designated positions. At the bottom typically the column is held by 4 equally spaced blocks of wood fixed to the floor slab. At the top, the column is usually held in place by the soffit formwork, where there is no soffit formwork props should be placed on the vertical bracing to position the column.
Note: Forms should be placed with the arrow facing upwards. Bracing is recommended for columns:

- 3.5 meters and longer with diameters larger than 450mm.
- 3.0 meters and longer with diameters less than 450mm.

Plastube columns are generally braced according to accepted industry practice. Bracing ensures the column remains straight and reduces the chances of bowing during pouring. It is especially important with tall, small diameter columns.

Cross bracing is typically placed at intervals of between 4 and 6 times the column diameter. Vertical bracing assists in ensuring the column remains plumb and in the correct position. Commonly 4 timbers (100mm x 75mm) for diameters below 600mm or 6 timbers (for larger diameters) are equally spaced around the circumference of the column, running the full height of the column. Props should not be placed directly onto the Plastube column formwork.

Two methods of stripping Plastube columns are commonly used:

1. Unwinding: Use a strong knife and pliers to break the spiral lock at the top of the column and unwind it, pulling it away from the concrete column. Once started the unwinding process can be continued by hand.
2. Slab Stripping: Using an angle grinder or similar, the plastic column may be cut from top to bottom and sprung free from the concrete. This method is typically quicker than unwinding, but may leave score marks on the finished column.

Plastube circular column formwork is custom made to the sizes ordered. There are no standard lengths or diameters. Plastube columns are ordered by specifying the diameter and length required. Two thicknesses of plastic profile are available, depending on the height of the concrete pour.

6. Consumables

Plastube

Note: The rate of concrete pour affects the load on the formwork. Please refer to Acrow for the maximum height of column that can be poured in one pour and more information. This information sheet aims to give general guidance to experienced form-workers in the use of Plastube circular column formwork. It should be read in conjunction with relevant Standards, Specifications and Codes of Practice.

Heavy Duty (HD) Plastube

HD Standard & HD Lined (smooth finish)

Size - HD:	Code - HD STANDARD	Code - HD LINED
450 Diameter Heavy Duty	QPLHD450	QPLHDL450
500 Diameter Heavy Duty	QPLHD500	QPLHDL500
550 Diameter Heavy Duty	QPLHD550	QPLHDL550
600 Diameter Heavy Duty	QPLHD600	QPLHDL600
650 Diameter Heavy Duty	QPLHD650	QPLHDL650
700 Diameter Heavy Duty	QPLHD700	QPLHDL700
750 Diameter Heavy Duty	QPLHD750	QPLHDL750
800 Diameter Heavy Duty	QPLHD800	QPLHDL800
850 Diameter Heavy Duty	QPLHD850	QPLHDL850
900 Diameter Heavy Duty	QPLHD900	QPLHDL900
950 Diameter Heavy Duty	QPLHD950	QPLHDL950
1000 Diameter Heavy Duty	QPLHD1000	QPLHDL1000
1050 Diameter Heavy Duty	QPLHD1050	QPLHDL1050
1100 Diameter Heavy Duty	QPLHD1100	QPLHDL1100
1200 Diameter Heavy Duty	QPLHD1200	QPLHDL1200
1250 Diameter Heavy Duty	QPLHD1250	QPLHDL1250
1300 Diameter Heavy Duty	QPLHD1300	QPLHD1300
1400 Diameter Heavy Duty	QPLHD1400	QPLHDL1400
1500 Diameter Heavy Duty	QPLHD1500	QPLHDL1500
1600 Diameter Heavy Duty	QPLHD1600	QPLHDL1600
1700 Diameter Heavy Duty	QPLHD1700	QPLHDL1700
1800 Diameter Heavy Duty	QPLHD1800	QPLHDL1800
1900 Diameter Heavy Duty	QPLHD1900	QPLHDL1900

6. Consumables

Plastube

Note: The rate of concrete pour affects the load on the formwork. Please refer to Acrow for the maximum height of column that can be poured in one pour and more information. This information sheet aims to give general guidance to experienced form-workers in the use of Plastube circular column formwork. It should be read in conjunction with relevant Standards, Specifications and Codes of Practice.

STANDARD (STD) Plastube

Standard & Lined (smooth finish)

Size - STD	Code - STANDARD	Code - STANDARD LINED
250 Diameter Standard	QPLS250	QPLSL250
300 Diameter Standard	QPLS300	QPLSL300
350 Diameter Standard	QPLS350	QPLSL350
400 Diameter Standard	QPLS400	QPLSL400
450 Diameter Standard	QPLS450	QPLSL450
500 Diameter Standard	QPLS500	QPLSL500
550 Diameter Standard	QPLS550	QPLSL550
600 Diameter Standard	QPLS600	QPLSL600
650 Diameter Standard	QPLS650	QPLSL650
700 Diameter Standard	QPLS700	QPLSL700
750 Diameter Standard	QPLS750	QPLSL750
800 Diameter Standard	QPLS800	QPLSL800
850 Diameter Standard	QPLS850	QPLSL850
900 Diameter Standard	QPLS900	QPLSL900
950 Diameter Standard	QPLS950	QPLSL950
1000 Diameter Standard	QPLS1000	QPLSL1000
1050 Diameter Standard	QPLS1050	QPLSL1050

6. Consumables

BOA Coil Spring / Anchor

16mm x 90mm BOA Coil Spring	
QTY per Pack	50
Mass:	0.01kg
Code:	BAC10090SP

16mm x 90mm BOA Coil Anchor	
QTY per Pack	50
Mass:	0.18kg
Code:	BAC10090

The BOA Coil is ideally suited for through fixing into concrete when cast-in performance or clean removal is required. The BOA Coil Expansion Anchor is a removable, high strength, heavy duty, rotation setting expansion anchor for concrete

Lanotec Release Agent 20lt

16mm x 90mm BOA Coil Spring	
Volume:	20 Litres
Code:	QALRA20

A concentrated, lanolin-based concrete release agent.
Applications:

- Breaks concrete bonds
- Protects tubes, jacks and fittings from corrosion
- Lubricates jacks and fittings
- Extends the life of timber and metal moulds
- Protects equipment from concrete and paint overspray.

Plastic Pallet Wrap

Hand Wrap - Clear	
Size:	20µm x 0.5m x 450m
Code:	QHWC001

Plastic Pallet Wrap	
Size:	25µm x 0.5m x 300m
Code:	SFCHR

With a generous 25µm, the film can wrap around boxes, pallets, or even small items which are being bundled together. Helping protect your shipment from damage and moisture.

Plastic Fillet

19mm x 19mm 25mm	
Size:	Metre
Code:	QPFIL001

12mm x 12mm x 17mm	
Size:	Metre
Code:	QPFIL002

Fillet is used to create moulding which is installed onto the top of formwork to create an angled edge between precast and tilt-up concrete panels. Triangular fillet is also known as fillet mould and chamfer mould.

Fillet Mitre Cutters

Fillet Mitre Cutters	
Code:	YFMC3104

For cutting plastic fillet, also known as fillet or chamfer mould.

6. Consumables

Strapping Tools & Packaging

Size:	Mass (kg)	Code
Strapping 19mm	15	YSTRAP19MM
Strapping Dispenser	-	YSTRAPDIS
Strapping Tensioned Tool	-	YSTRAPPER
Strapping Crimp Tool	-	YSEALER
Steel Strap Seals (QTY per Pack 1000)	-	YSEAL19MM

Scaffold Spanner & Modular Tool

Size:	Mass (kg)	Code
Scaffold Spanner 9/16" (23 AF)	0.75	YSP916
Scaffold Spanner 1/2" (20.5 AF)	0.7kg	YSP05
Modular Tool	0.8kg	YMT

Scaffold Tag & Tag Kit

Size:	UOM	Code
Scaffold Tag	Each	YST
Scaffold Tag Kit	Each	YSTK

Plyhole Covers

Sharp spikes easily nail into plywood.

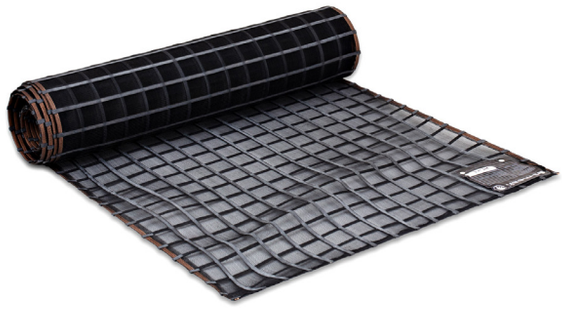
Plyhole Covers	
DIA:	70mm
Code:	QPHCO001

Silicone Sealant - Clear

Silicone Sealant - Clear	
Volume:	300g
Code:	QSSC001

This is a cost effective multi-purpose, neutral cure silicone sealant offering durability in a range of temporary sealing, general formwork and temporary applications.

7. CONTAINMENTS



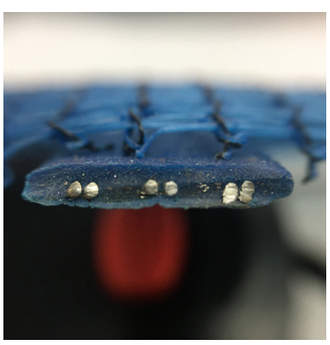
7. Containment

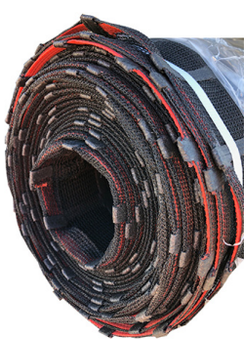
Uni-mesh FR

A fire retardant containment system for scaffolding.

- Fire retardant - Flammability Index 1
- 50mm x 50mm grid with shade element
- Prescribed lining is steel wire reinforced
- Tested & certified to all relevant Australian standards & WHS regs
- Easy & economical installation & removal
- Can be attached to scaffolding with cable ties/KwikAz clips

Size	Mass (kg)	Code
0.3 x 10m - Black	2.5kg	BLFR03
0.95 x 10m - Black	7.95kg	7836ABFR
1.90 x 10m - Black	15.9kg	7836BLFR
0.95 x 10m - Blue	7.95kg	7838AFR
1.90 x 10m - Blue	15.9kg	7838FR

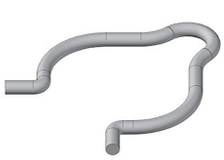




KwikAz Clips & Tool

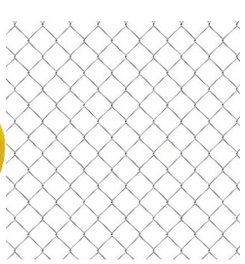
A quick and reusable way of attaching sheeting, screening and netting to scaffold or fencing.

Description	QTY	Code
KwikAz Clips	500	CF022
KwikAz Tool	1	CF022A



Chainwire & Shadecloth

Description	Mass (kg)	Code
Chainwire 1.8 x 10m roll	20kg	YCW1810M
Shadecloth 1.8 x 50m Fire rated	10kg	YSHADE1850MFR
Shadecloth 3.6 x 50m Fire rated	20kg	YSHADE3650MFR



8. Timber & Ply

8. TIMBER & PLY

8. Timber & Ply

Timber Beam LVL

Acrow Formwork Timber Beam LVL is an engineered wood product with physical and mechanical properties surpassing solid timber and glulam, produced in the form of boards and billets of several types of veneer orientation and grade with a wide range of sizes. Acrow LVL is manufactured to: AS/NZS 4357.0:2005 - Structural laminated veneer lumber - Specifications.

Size	Pack QTY	Code
150 x 75 x 3.6m	35	S1507536
150 x 75 x 4.8m	35	S1507548
150 x 75 x 6.0m	35	S1507560
95 x 63 x 3.6m	66	S956336
95 x 63 x 4.8m	66	S956348
95 x 63 x 6.0m	66	S956360
95 x 45 x 6.0m	77	S954560

Timber Scaffold Plank

The LVL (Laminated veneer lumber) scaffold plank is a high strength and lightweight LVL scaffold plank used extensively throughout the construction industry. The lightweight planks make them easy to handle. Its waxed emulsion end seal reduces moisture ingress. Each LVL is branded for ease of identification. The LVL scaffold planks are sourced from managed plantation forests.

Size	Pack QTY	Code
230 x 38 x 0.6m	50	TP06
230 x 38 x 0.9m	50	TP09
230 x 38 x 1.2m	50	TP12
230 x 38 x 1.5m	50	TP15
230 x 38 x 1.8m	50	TP18
230 x 38 x 2.1m	50	TP21
230 x 38 x 2.4m	50	TP24
230 x 38 x 2.7m	50	TP27
230 x 38 x 3.0m	50	TP30
230 x 38 x 3.3m	50	TP33
230 x 38 x 3.6m	50	TP36
230 x 38 x 4.2m	50	TP42
230 x 38 x 4.8m	50	TP48
230 x 38 x 5.4m	50	TP54
230 x 39 x 6.0m	50	TP60

8. Timber & Ply

Edge Board

Acrow Edge Board structural laminated veneer lumber (LVL) is specially designed for use in concrete formwork applications such as edge boards. Acrow Edge Board has arrised edges and is painted red for moisture protection and easy identification. Edge Board is light, straight and uniform.

Size	Pack QTY	Code
300 x 36 x 6.0m	21	S3003660
240 x 36 x 6.0m	28	S2403660
200 x 36 x 6.0m	35	S2003660
150 x 36 x 6.0m	49	S1503660
100 x 36 x 6.0m	70	S1003660

Formwood F17 Ply G2S

A Good 2 Sides (G2S) plywood provides strong support for the forming of concrete walls, floors, roofs, frames and civil engineering structures. Its hard, durable, paper overlay produces a smooth, Class 2 concrete finish. Acrow formply is tough and dimensionally stable, making it ideal for the rigours of formwork construction.

Size	Pack QTY	Code
1800 x 1200mm - 17mm (G2S)	40	P64F17FW17
2400 X 1200mm - 17mm (G2S)	40	P84F17FW17
2400 X 1200mm - 12mm (G2S)	40	P84F17FW12
2400 X 1200mm - 7mm (G2S)	120	P84F17FW7

Formwood F14 Ply G1S

A Good 1 Sides (G1S) plywood provides strong support for the forming of concrete walls, floors, roofs, frames and civil engineering structures.

Size	Pack QTY	Code
1800 X 1200mm - 17mm (G1S)	40	P64G1SFR17
2400 X 1200mm - 17mm (G1S)	40	P84G1SFR17

8. Timber & Ply

Formwood F11 CD Structural

Formwood F11 is structural-grade plywood. With a range of uses throughout the building industry, it is commonly selected for uses such as bracing, interior linings, membrane substrates, hoardings and DIY projects, where known structural characteristics are required. It is available in a wide range of surface appearance grades, sheet sizes, thicknesses and treatments.

Size	Pack QTY	Code
2400 X 1200mm - 12mm	40	P84F11CD12
2400 X 1200mm - 17mm	40	P84F11CD17

Utility Pine

Non-Structural Grade Utility Pine is an Australian utility grade plantation pine used for non-structural applications. It is an economical option for formwork supports and/or kickers. It is also used for temporary lightweight structures, framing and as handrails around temporary works on site.

Size	Pack QTY	Code
90 x 35mm x 5.4m	40	UP9035MTR

9. SCAFFOLD, TUBE, COUPLERS, LADDERS & STILLAGES

9. Scaffold, Tube, Couplers, Ladders & Stillages

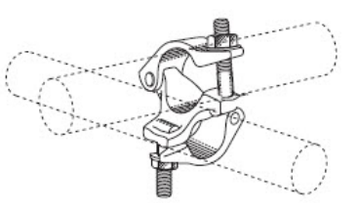
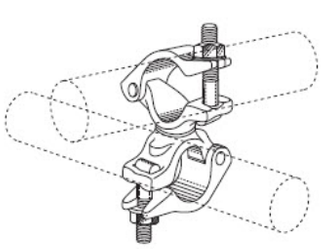
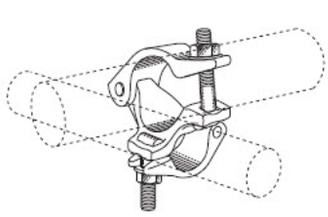
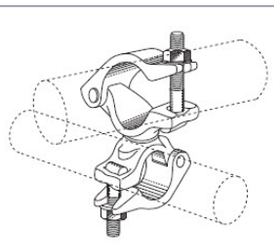
Scaffold Tube 3.25mm

Acrow HT (9350) steel scaffold tube is hot dip galvanised (HDG).

Size	Pack QTY	Code
6.3m HDG	61	ST63

Scaffold Couplers

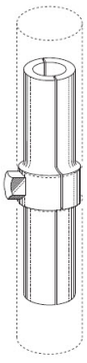
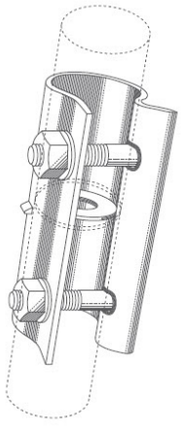
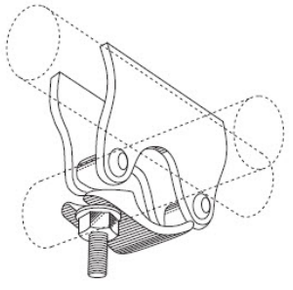
All couplers are HDG (Hot Dipped Galvanised).

Product	Description	Code	Mass
	**Double Coupler** • Joins two scaffold tubes having outside diameter of 48.3mm at right angles. • Tightening nuts suit standard Scaffold Spanner (23mm A/F). • Replaceable 'T' bolts, nuts and washers. • Robust design made from drop forged steel for durability and reliability. • Hot dip galvanised fi nish for corrosion resistance. • Complies with the requirements of AS1576.2. • Typical working load limit of 6.25kN against slip at tightening torque of 54 Nm. • Can be used to resist tension or compression loads.	DC	1.1kg
	**Swivel Coupler** • Joins scaffold tube having outside diameter of 48.3mm at any angle. • Each half of the Coupler is interconnected with a swivel pin. • Typically used for connecting bracing members. Also used for tension splicing of scaffold tubes. • Tightening nuts suit standard Scaffold Spanner (23mm A/F). • Replaceable 'T' bolts, nuts and washers. • Robust design made from drop forged steel for durability and reliability. • Hot dip galvanised finish for corrosion resistance. • Complies with the requirements of AS1576.2. • WLL = 6.25 kN against slip at tightening torque of 54 Nm. • Can be used to resist tension or compression loads in bracing. • Should not be used to support primary members. (Refer Clause 3.2.2 of AS1576.2-1991)	SC	1.2kg
	**Reduction Double Coupler** Similar to Double Coupler except that it connects 48 O.D. tube to 60 O.D.	RDC	1.8kg
	**Reduction Swivel Coupler** Similar to Swivel Coupler except that it connects 48 O.D. tube to 60 O.D.	RSC	2.2kg

9. Scaffold, Tube, Couplers, Ladders & Stillages

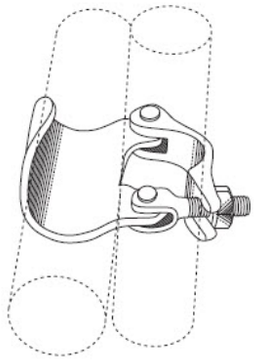
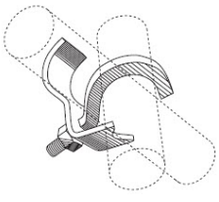
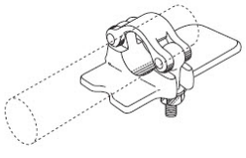
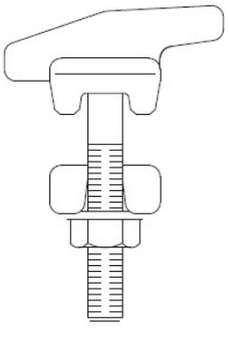
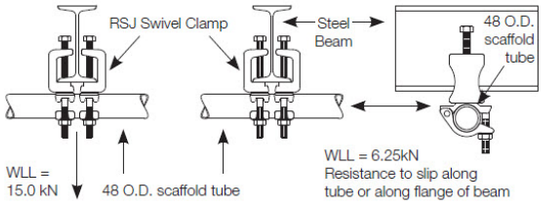
Scaffold Couplers

All couplers are HDG (Hot Dipped Galvanised).

Product	Description	Code	Mass
	**Expanding Joint Pin** • Joins two scaffold tubes having outside diameter of 48.3mm at right angles. • Tightening nuts suit standard Scaffold Spanner (23mm A/F). • Replaceable 'T' bolts, nuts and washers. • Robust design made from drop forged steel for durability and reliability. • Hot dip galvanised fi nish for corrosion resistance. • Complies with the requirements of AS1576.2. • Typical working load limit of 6.25kN against slip at tightening torque of 54 Nm. • Can be used to resist tension or compression loads.	EJCP	1.4kg
	**External Sleeve Coupler** • Joins scaffold tube having outside diameter of 48.3mm at any angle. • Each half of the Coupler is interconnected with a swivel pin. • Typically used for connecting bracing members. Also used for tension splicing of scaffold tubes. • Tightening nuts suit standard Scaffold Spanner (23mm A/F). • Replaceable 'T' bolts, nuts and washers. • Robust design made from drop forged steel for durability and reliability. • Hot dip galvanised fi nish for corrosion resistance. • Complies with the requirements of AS1576.2. • WLL = 6.25 kN against slip at tightening torque of 54 Nm. • Can be used to resist tension or compression loads in bracing. • Should not be used to support primary members. (Refer Clause 3.2.2 of AS1576.2-1991)	ESCG	1.2kg
	**Putlog Coupler (Standard Double Flap Type)** • Joins 48 O.D. scaffold tubes at right angles. • Used for fi xing putlog tubes onto ledger tubes. • Tightening nut suits standard Scaffold Spanner (23mm A/F). • Replaceable 'T' bolt, nut and washer. • Pressed steel fl aps and drop forged steel cap. • Hot dip galvanised fi nish for corrosion resistance. • Complies with the requirements of AS1576.2. • Typically used for securing guardrails and midrails at right angles to standards. Other uses can distort the coupler so that tube retention is not effective and WLL does not apply. • Not to be used for connecting ledger tube in tube-and-coupler scaffolding. • Only use Right Angle Couplers for this purpose. • Refer AS/NZS1576.6 for guidance on tube-andcoupler scaffolding. • WLL = 0.62 kN against slip of tube through flaps of coupler at tightening torque of 54 Nm.	PC	1.0kg

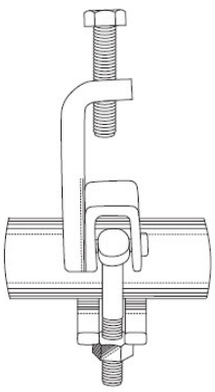
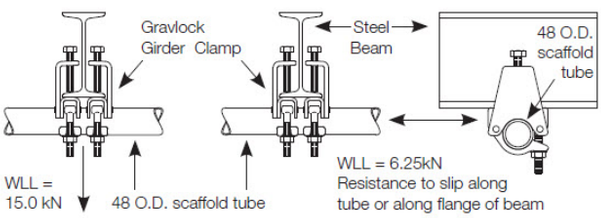
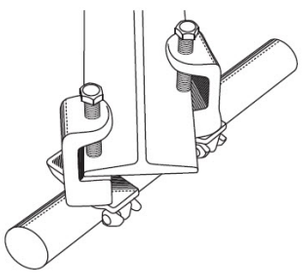
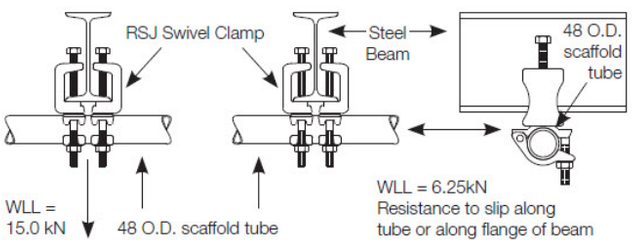
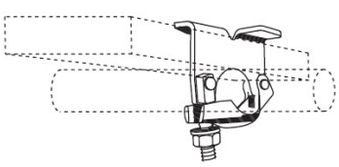
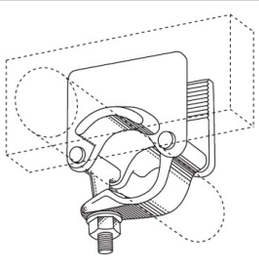
9. Scaffold, Tube, Couplers, Ladders & Stillages

Scaffold Couplers

Product	Description	Code	Mass
	**Putlog Coupler - Wrapover (Standard Wrapover single type)** • Joins 48 O.D. scaffold tubes at right angles. • Used for positioning putlog tubes onto ledger tubes. • Tightening nut suits standard Scaffold Spanner (23mm A/F). • Replaceable 'T' bolt, nut and washer. • Pressed steel body and drop forged steel cap. • Hot dip galvanised finish for corrosion resistance. • Complies with the requirements of AS1576.2. • Typically used for securing guardrails and midrails to standards at right angles. Other uses can distort the Coupler so that tube retention is not effective and WLL does not apply. • Not to be used for connecting ledger tube. Only use Right Angle Couplers for such purpose. • Refer AS/NZS1576.6 for guidance on tube-andcoupler scaffolding. • WLL = 0.62 kN against slip of tube through fl aps of coupler at tightening torque of 54 Nm.	PCSW	0.7kg
	**Putlog Coupler - Hook Type** Joins 48 O.D. scaffold tubes at right angles. Not recommended for fi xing of putlog tubes to ledger tubes for working decks.	PCHT	0.4kg
	**Putlog Head** • Used for single pole putlog scaffolding. • Fits 48 O.D. scaffold tube. • WLL = 6.25 kN (resistance to tube slip where nuts tightened to 54 Nm torque). • WLL = 2.25 kN (bending of blade).	PH	1.3kg
	**RSJ Clamps** • Joins 48 O.D. scaffold tube to Tapered or Parallel • Flange steel beams at 90°. • Size 1 suitable for RSJ fl ange thickness up to 19mm. • Size 2 suitable for RSJ fl ange thickness of 19-38mm. • Size 3 suitable for RSJ fl ange thickness of 38-57mm.  Note: RSJ Clamps must be used in pairs each side of the flange. Minimum tightening torque = 54 Nm.	RSJ Clamp 1 RSJC1 Hire only RSJ Clamp 2 RSJC2 Hire only RSJ Clamp 3 RSJC3 Hire only	1.1kg 1.1kg 1.2kg

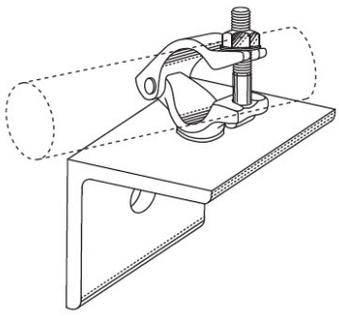
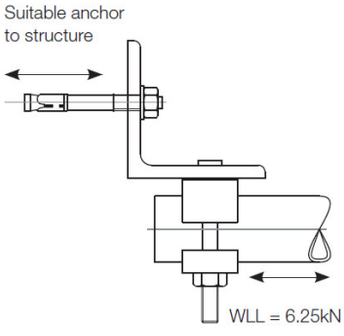
9. Scaffold, Tube, Couplers, Ladders & Stillages

Scaffold Couplers

Product	Description	Code	Mass
	**Gravlock Girder Clamp** • Joins 48 O.D. scaffold tube to Tapered or Parallel • Flange steel beams at 90°. • Suitable for girder fl ange thickness up to 44mm.  Note: Gravlock Girder Clamps must be used in pairs each side of the flange. Minimum tightening torque = 54 Nm	GGC	1.5kg
	**RSJ Swivel Clamp** • Joins 48 O.D. scaffold tube to Tapered or Parallel • Flange steel beams at various angles. • Suitable for girder fl ange thickness up to 44mm.  Note: RSJ Swivel Clamps must be used in pairs each side of the flange. Minimum tightening torque = 54 Nm. DO NOT EXCESSIVELY OVER TIGHTEN.	RSJSC Hire only	1.5kg
	**Board Clamp** Retains timber scaffold planks to 48 O.D. putlog/transom tubes. Suitable for plank thickness range of 35 to 38mm.	SBCP	0.6kg
	**Rafter Coupler** Used for clamping scaffold tube to timber runners. Suitable for timbers 50mm wide.	RC Hire only	1.5kg

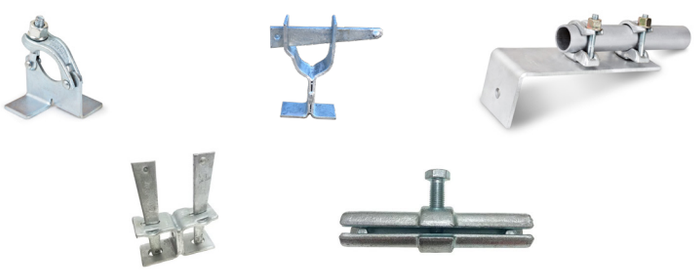
9. Scaffold, Tube, Couplers, Ladders & Stillages

Scaffold Couplers

Product	Description	Code	Mass
 	**Wall Tie Bracket** Wall Tie Brackets are an alternative tying method and they are used where it is not possible or convenient to tie through windows or around columns. Wall Tie Brackets supplied by Acrow comprise a half Swivel Coupler attached to an angle section with a pin allowing it to rotate. The angle section contains an 18mm dia hole for a 16mm dia fastener or anchor for securing the bracket to the face of a building wall or similar structure. The swivel pin attachment enables the Half Coupler to rotate through 360°. Notes: The load capacity of the selected anchor and the structure to which the bracket is attached must be verified as having suitable capacity to sustain the Working Load Limit of the bracket. When determining anchor forces, prying forces must be considered where they may occur. Stated WLL is applicable where the following types of Swivel Coupler is used: - Acrow/Euro - Acrow/Burton's - Acrow/SGB - Acrow. Australian Standards for Scaffolding provide guidance on Anchorage and Tie Assemblies. In particular refer to Clause 2.8 of AS1576.1 and Clause 8.5 of AS4576.	WTBS (single)	2.0kg

Clips, Brackets, Pins, Sliders & Posts

Description:	Code
Board Retaining Clips (LVL)	1553
Double C Clip	1606
Toeboard clip - HDG	TBC
Wall Tie Bracket Double	WTB
Wall Tie Bracket Single	WTBS
Expanding Joint Pln	EJCP



9. Scaffold, Tube, Couplers, Ladders & Stillages

Plates & jacks

Description:	Code
Scaffold base plate	BP
Swivel jack	2624
Adjustable base (solid) - form/scaff	ABSFS
Adjustable U-Head (solid) - form/scaff	AUHSFS
Adjustable base (solid) - scaff	ABSS
Adjustable tilt base (solid) - scaff	ATBSS




Stillages

Description:	Code
Mesh enclosed pallet	MEP
Scaffold stillage (modular)	MP


Ladders & clips

All HT steel ladders and clips are HDG (Hot Dipped Galvanised).

Description:	Code
Scaffold Erection Ladder 2.0m	SEL20
Ladder clip	1016
Aluminium Ladder 2.4m	AL24
Aluminium Ladder 3.0m	AL30
Aluminium Ladder 3.6m	AL36
Aluminium Ladder 4.2m	AL42
Aluminium Ladder 4.8m	AL48
Aluminium Ladder 6.0m	AL60


Contact

LOCATIONS

NEW SOUTH WALES

National Head Office
Formwork & Scaffold
2a Mavis Street
Revesby NSW 2212
P: 02 9780 6500
F: 02 9780 6499
E: info@acrow.com.au

Screens Head Office
13-15 Vallance Street
St Marys NSW 2760
P: 02 9219 1566

QUEENSLAND

Formwork & Scaffold
280 Bilsen Road
Geebung QLD 4034
P: 07 3265 2266
F: 07 3865 0277

Screens & Formwork
2 Morrison Lane
Beenleigh QLD 4207
P: 07 3807 9800

Industrial Scaffold
22a Spanns Road
Beenleigh QLD 4207
P: 07 3442 4000

TASMANIA

Formwork & Scaffold
93 Lampton Avenue
Moonah TAS 7009
P: 03 6277 1212
F: 03 6277 1290

Formwork & Scaffold
65 Boland Street
Launceston TAS 7250
P: 03 6324 8282
F: 03 6324 8250

WESTERN AUSTRALIA

Formwork & Scaffold
11 Jackson Street
Bassendean WA 6054
P: 08 9373 7200
F: 08 9379 3488

SOUTH AUSTRALIA

Formwork & Scaffold
26 Circuit Drive
Hendon SA 5014
P: 08 8359 9700
F: 08 8359 1366

VICTORIA

Formwork, Scaffold & Screens
159 Wellington Road
Clayton VIC 3168
P: 03 9582 2777
F: 03 9582 2790