

# GENERATION

# Scaffold Couplers

## Technical Guide

LW/01.19



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# **GENERATION SCAFFOLDING AND ACCESS**

## **SUPPORT FOR CONSTRUCTION AND INDUSTRY**

Generation is the largest UK supplier of access, scaffolding, safety and training products.

Our customer promise is to deliver the:

### **BEST QUALITY**

We work in partnership with our suppliers to ensure we deliver consistent quality every time. We guarantee that our hire and sales products will meet and conform or exceed all statutory requirements and not let you down.

### **BEST AVAILABILITY**

We have the largest available UK inventory of scaffolding, access and safety products. Our branch network and delivery fleet will ensure that we deliver what you need, when you need it.

### **BEST PARTNERSHIP**

We provide a full range of engineering, design and business services to partner and work with our customers. Talk to us today about how we can help you to grow your business.

### **BEST PRICES**

We use our position as the largest UK supplier of scaffolding products to negotiate the best rates for you. We guarantee you will get the best value products and service when you hire or buy from us.

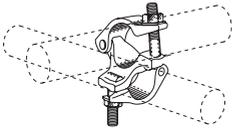
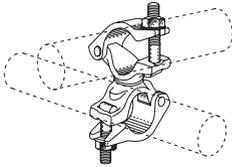
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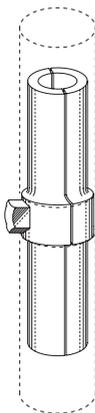
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# GENERAL TECHNICAL AND APPLICATION MANUAL

|                       | Product   | Description  | Code No.  | Mass kg    |
|-----------------------|---|--|-----------|------------|
| <b>Double Coupler</b> |  | <ul style="list-style-type: none"> <li>• Joins two scaffold tubes having outside diameter of 48.3mm at right angles.</li> <li>• Tightening nuts suit standard Scaffold Spanner (23mm A/F).</li> <li>• Replaceable 'T' bolts, nuts and washers.</li> <li>• Robust design made from drop forged steel for durability and reliability.</li> <li>• Hot dip galvanised finish for corrosion resistance.</li> <li>• Complies with the requirements of EN74.</li> <li>• Typical working load limit of 6.25kN against slip at tightening torque of 54 Nm.</li> <li>• Can be used to resist tension or compression loads.</li> </ul>  | <b>DC</b> | <b>1.1</b> |
| <b>Swivel Coupler</b> |  | <ul style="list-style-type: none"> <li>• Joins scaffold tube having outside diameter of 48.3mm at any angle.</li> <li>• Each half of the Coupler is interconnected with a swivel pin.</li> <li>• Typically used for connecting bracing members. Also used for tension splicing of scaffold tubes.</li> <li>• Tightening nuts suit standard Scaffold Spanner (23mm A/F).</li> <li>• Replaceable 'T' bolts, nuts and washers.</li> <li>• Robust design made from drop forged steel for durability and reliability.</li> <li>• Hot dip galvanised finish for corrosion resistance.</li> <li>• Complies with the requirements of EN74.</li> <li>• WLL = 6.25 kN against slip at tightening torque of 54 Nm.</li> <li>• Can be used to resist tension or compression loads in bracing.</li> <li>• Should not be used to support primary members.</li> </ul> | <b>SC</b> | <b>1.2</b> |

# SCAFFOLD COUPLERS

Expanding Joint Pin



Product

Description

Code No.

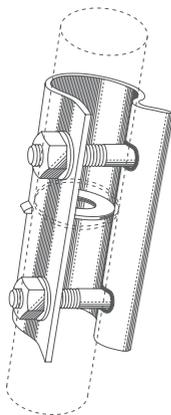
Mass kg

- Joins 48 O.D. scaffold tube standards end to end internally.
- Fits inside scaffold tubes.
- Expands to fit internal diameter of scaffold tube when bolt tightened.
- Tightening bolt suits standard Scaffold Spanner (23mm A/F).
- Made from forged steel.
- Hot dip galvanised finish.
- Under compression loading this Joint Pin is capable of taking the full capacity of the scaffold tube.
- Not to be used for tension loads. Under tension loading, it is necessary to splice the joint with another scaffold tube and Swivel Couplers (tension load check required).
- Not to be used for end to end joining of tube ledgers.
- This Joint Pin must only be used to join scaffold tube with the same internal diameter, ie, the same wall thickness.
- Typical scaffold tube sizes are: – 48.3mm O.D. x 40.3mm I.D. (4.00mm wall thickness tube) or – 48.3mm O.D. x 38.5mm I.D. (4.88mm wall thickness tube).

EJCP

1.4

External Sleeve Coupler

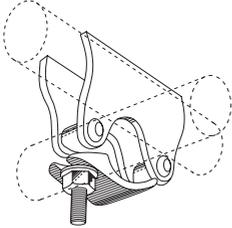
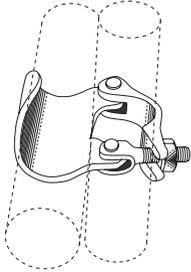
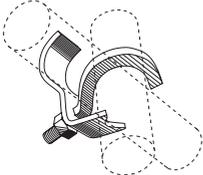


- Joins 48 O.D. scaffold tubes end to end externally.
- Used for end to end joining of scaffold tube standards.
- Locates on outside diameter of scaffold tube members.
- Tightening bolt suits standard Scaffold Spanner.
- Made from high quality pressed steel.
- Hot dip galvanised finish.
- Under compression loading this Coupler is capable of taking the full capacity of the scaffold tube.
- Not to be used for tension loads. Under tension loading, it is necessary to splice the joint with another scaffold tube and Swivel Couplers (tension load check required).
- Can be used for end to end joining of tube ledgers.
- This Coupler must only be used to join scaffold tube with the same external diameter.
- Typical scaffold tube sizes are: – 48.3mm O.D. x 40.3mm I.D. (4.00mm wall thickness tube) or – 48.3mm O.D. x 38.5mm I.D. (4.88mm wall thickness tube).

ESCG

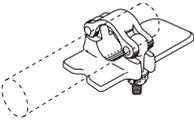
1.20

# GENERAL TECHNICAL AND APPLICATION MANUAL

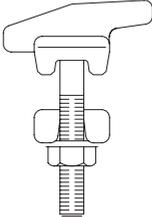
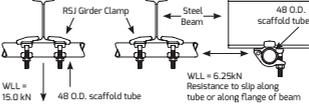
|                            | Product   | Description   | Code No. | Mass kg |
|----------------------------|---|---|----------|---------|
| Putlog Coupler             |    | <ul style="list-style-type: none"> <li>• Joins 48.3 O.D. scaffold tubes at right angles.</li> <li>• Used for fixing putlog tubes onto ledger tubes.</li> <li>• Tightening nut suits standard Scaffold Spanner (23mm A/F).</li> <li>• Replaceable "T" bolt, nut and washer.</li> <li>• Pressed steel flaps and drop forged steel cap.</li> <li>• Hot dip galvanised finish for corrosion resistance.</li> <li>• Complies with the requirements of BS1139.</li> <li>• 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.</li> <li>• Not to be used for connecting ledger tube in tube-and-coupler scaffolding. Only use Right Angle Couplers for this purpose.</li> <li>• Refer AS/NZS1576.6 for guidance on tube and coupler scaffolding.</li> <li>• WLL = 0.62 kN against slip of tube through flaps of coupler at tightening torque of 54 Nm.</li> </ul> | EJCP     | 1.4     |
| Putlog Coupler - Wrapover  |    | <ul style="list-style-type: none"> <li>• Joins 48.3 O.D. scaffold tubes at right angles.</li> <li>• Used for positioning putlog tubes onto ledger tubes.</li> <li>• Tightening nut suits standard Scaffold Spanner (23mm A/F).</li> <li>• Replaceable "T" bolt, nut and washer.</li> <li>• Pressed steel body and drop forged steel cap.</li> <li>• Hot dip galvanised finish for corrosion resistance.</li> <li>• Complies with the requirements of BS1139.</li> <li>• 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.</li> <li>• Not to be used for connecting ledger tube. Only use Right Angle Couplers for such purpose.</li> <li>• Refer AS/NZS1576.6 for guidance on tube and coupler scaffolding.</li> <li>• WLL = 0.62 kN against slip of tube through flaps of coupler at tightening torque of 54 Nm.</li> </ul>                             | ESCG     | 1.20    |
| Putlog Coupler - Hook Type |  | <p>Joins 48.3 O.D. scaffold tubes at right angles.<br/>Not recommended for fixing of putlog tubes to ledger tubes for working decks.</p>  | ESCG     | 1.20    |

# SCAFFOLD COUPLERS

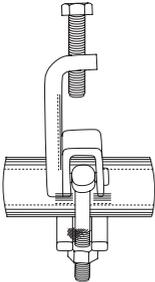
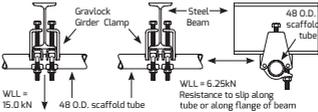
Putlog head

| Product   | Description   | Code No. | Mass kg |
|---|---|----------|---------|
|  | Used for single pole putlog scaffolding.<br>Fits 48 O.D. scaffold tube.<br>WLL = 6.25 kN (resistance to tube slip where nuts tightened to 54 Nm torque).<br>WLL = 2.25 kN (bending of blade). | PH       | 1.3     |

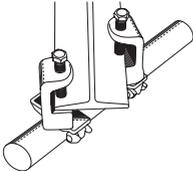
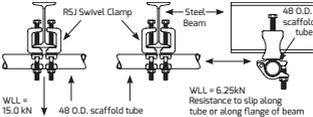
RSJ Clamps

|   |   |  |      |
|---|---|--|------|
|  | Joins 48.3 O.D. scaffold tube to Tapered or Parallel Flange steel beams at 90°.<br>Size 1 suitable for RSJ flange thickness up to 19mm.<br>Size 2 suitable for RSJ flange thickness of 19-38mm.<br>Size 3 suitable for RSJ flange thickness of 38-57mm. | RSJ Clamp N <sup>1</sup><br>RSJC1<br>Hire Only | 1.1  |
|   | <br>WLL = 15.0 kN<br>48 O.D. scaffold tube<br>WLL = 6.25kN<br>Resistance to slip along tube or along flange of beam  | RSJ Clamp N <sup>2</sup><br>RSJC2<br>Hire Only | 1.1  |
|   | <b>Note:</b><br>RSJ Clamps must be used in pairs each side of the flange. Minimum tightening torque = 54 Nm.  | RSJ Clamp N <sup>3</sup><br>RSJC3<br>Hire Only | 1.20 |

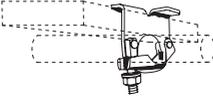
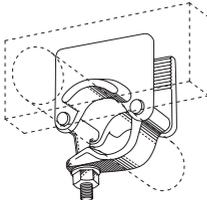
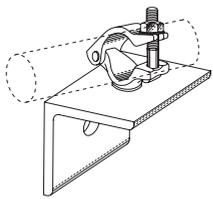
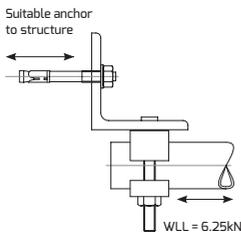
Gravlock Girder Clamp

|  |  |  |      |
|--|--|--|------|
|  | Joins 48.3 O.D. scaffold tube to Tapered or Parallel Flange steel beams at 90°.<br>Suitable for girder flange thickness up to 44mm.  | GGC  | 1.50 |
|  | <br>WLL = 15.0 kN<br>48 O.D. scaffold tube<br>WLL = 6.25kN<br>Resistance to slip along tube or along flange of beam | <b>Note:</b><br>Gravlock Girder Clamps must be used in pairs each side of the flange. Minimum tightening torque = 54 Nm. |      |

RSJ Swivel Clamp

|   |  |   |     |
|---|--|---|-----|
|  | Joins 48 O.D. scaffold tube to Tapered or Parallel Flange steel beams at various angles.<br>Suitable for girder flange thickness up to 44mm.   | RSJSC   | 1.5 |
|   | <br>WLL = 15.0 kN<br>48 O.D. scaffold tube<br>WLL = 6.25kN<br>Resistance to slip along tube or along flange of beam | <b>Note:</b><br>RSJ Swivel Clamps must be used in pairs each side of the flange. Minimum tightening torque = 54 Nm.<br>DO NOT EXCESSIVELY OVER TIGHTEN. |     |

# GENERAL TECHNICAL AND APPLICATION MANUAL

|                  | Product   | Description  | Code No. | Mass kg |
|------------------|---|--|----------|---------|
| Board Clamp      |    | Retains timber scaffold planks to 48.3 O.D. putlog/transom tubes.<br>Suitable for plank thickness range of 35 to 38mm.   | SBCP     | 0.60    |
| Rafter Coupler   |    | Used for clamping scaffold tube to timber runners.<br>Suitable for timbers 50mm wide.  | RC       | 1.5     |
| Wall Tie Bracket | <br><br> <p>Suitable anchor to structure</p> <p>WLL = 6.25kN</p> | <p>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.</p> <p>Wall Tie Brackets supplied by Generation 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°.</p> <p><b>Notes:</b><br/>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.</p> | WTB      | 2.0     |